

**SPRING 2025 UNIVERSITY  
CATALOG ADDENDUM**

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## The Faculty

### A

**Yann Abdourazakou** (2015)

Professor of Management and Marketing

B.S., 1999, University of Quebec; M.S., 2001, University of Rouen; Ph.D, 2004, University of Rouen

**Jennifer Adeva** (2011)

Head Coach, Volleyball

B.A., 1997, California State University, Fullerton; M.A., 1999, Azusa Pacific University

**Tahreh Aghdasifar** (2020)

Assistant Professor of Women's Studies

B.A., 2009, Georgia State University; M.A. 2011, Georgia State University; Ph.D. 2018, Emory University

**Adriana Aldana** (2015)

Associate Professor of Social Work

B.A., 2007, California State University, Northridge; M.S.W., 2009, University of Michigan; M.S., 2011, University of Michigan; Ph.D., 2014, University of Michigan

**Amy Allen** (2018)

Associate Professor of Dance

B.A., 2003, Loyola Marymount University; MFA, 2011, University of California, Irvine

**Cathryn Andrade** (2018)

Assistant Professor of Nursing

ADN, 1995, Los Angeles Pierce College; B.S., 2005, Maryville University; M.S., 2007, Maryville University; DNP, 2016, American Sentinel University

**Terri Ares** (2015)

Associate Professor of School of Nursing

B.S., 1998, California State University, Dominguez Hills; M.S., 2005, California State University, Dominguez Hills; Ph.D., 2013, Villanova University

**Nallely Arteaga** (2020)

Assistant Professor of Teacher Education

B.A., 2009, University of California, Santa Barbara; M.A., 2011, University of Southern California; Ph.D., 2020, University of California, Riverside

**Hugo Asencio** (2013)

Professor of Public Administration

B.A., 2007, Auburn University at Montgomery; M.A., 2008, Auburn University at Montgomery; Ph.D., 2012, Auburn University

**Lynn Gary Atkins, Jr.** (2022)

Assistant Professor of Music

B.M., 2004, Westminster Choir College of Rider University; MM/DMA, 2012, James Madison University

**Diego E Avalos** (2020)

Assistant Professor of Criminal Justice Administration

B.A., 2008, California State University, San Marcos; M.A., 2013, California State University, San Marcos; Ph.D., 2020, Arizona State University

**Teodross Avery** (2017)

Associate Professor of Music

B.F.A., 1995, Berkley College of Music; M.M., 2006, New York University; DMA, 2016, University of Southern California

**Maria Avila** (2014)

Associate Professor of Social Work

B.A., 1984, University of Chicago; M.A., 1987, University of Chicago; Ph.D., 2012, National University of Ireland

### B

**Gayle Ball-Parker** (1984)

Director, Presidential Scholar

**Kelli Y. Beard** (2001)

Professor of Teacher Education

B.A., 1990, California State University, Long Beach; M.A., 1995, Pepperdine University; Ph.D., 1998, University of Oregon

**Tracy Ann Becerra-Culqui (2020)**

Assistant Professor of Occupational Therapy

B.S., 2005, University of Southern California; MPH, 2008, University of California, Los Angeles; Ph.D., 2013, University of California, Los Angeles

**Stephen Becker (2012)**

Head Coach, Men's Basketball

B.A., 2009, California State University, Monterey Bay; MCAA, 2012, Concordia University

**Mohsen Beheshti (2003)**

Professor of Computer Science

B.S., 1985, University of Louisiana; M.S., 1986, University of Louisiana; Ph.D., 1992, University of Louisiana

**Bogdana Belu (2006)**

Professor of Philosophy

B.A., 1993, San Diego State University; M.A., 1997, San Francisco State University; Ph.D., 2003, Villanova University

**Corina Benavides López (2013)**

Lyle E. Gibson Distinguished Teacher Award, 2019

Associate Professor of Chicana &amp; Chicano Studies

B.A., 1996, University of California, Los Angeles; M.A., 2000, Stanford University; Ph.D., 2010, University of California, Los Angeles

**Orie Michael Berezan (2014)**

Excellence in Research, Scholarship and Creative Activity Award, 2019

Associate Professor of Management and Marketing

B.Com., 1990, University of Alberta, Canada; M.S., 2000, University of Nevada, Las Vegas; Ph.D., 2012, University of Nevada, Las Vegas

**Libby Bergen (2006-2016)**

Lecturer AY / Part-Time

**Shari Berkowitz (2014)**

Professor of Criminal Justice

B.A., 2004, University of California, Irvine; Ph.D., 2010, University of California, Irvine

**Debra Best (2004)**

Presidential Outstanding Professor, 2020

Professor of English

B.A., 1988, Pomona College; M.A., 1991, University of North Carolina, Chapel Hill; Ph.D., 2000, University of North Carolina, Chapel Hill

**Antonia Boadi (2015)**

Associate Professor of Physics

B.S., 1985, California State University, Dominguez Hills; MSEE, 1991, University of Southern California; MSCeng, 1998, University of Southern California; Ph.D., 2007, University of Southern California

**Charmayne Faye Bohman (1971-2004)**

Instr Fac AY / Part-Time

**Jessalyn Bolkema (2020)**

Assistant Professor of Mathematics

B.A., 2012, Hope College; M.S., 2014, University of Nebraska; Ph.D., 2018, University of Nebraska

**Giacomo Bono (2014)**

Professor of Psychology

B.A., 1995, University of California, Santa Cruz; M.A., 1999, Claremont Graduate University; Ph.D., 2003, Claremont Graduate University

**Ryan Bowles Eagle (2013)**

Lyle E. Gibson Distinguished Teacher Award, 2020

Associate Professor of Communications

B.A., 2004, University of Southern California; B.A., 2004, University of Southern California; M.A., 2005, University of York; M.A., 2009, University of California, Santa Barbara; Ph.D., 2011, University of California, Santa Barbara; Ph.D., 2013, University of California, Santa Barbara

**Jenn Brandt (2018)**

Lyle E. Gibson Distinguished Teacher Award, 2024

Professor of Women's Studies

B.A., 2002, Drew University; M.A., 2007, Bowling Green State University; Ph.D., 20012, University of Rhode Island

**Kaitlyn Breiner (2017)**

Assistant Professor of Child Development

B.A., 2009, Temple University; M.A., 2013, University of California, Los Angeles; Ph.D., 2016, University of California, Los Angeles

**Cornelia Brentano (2007)**

Associate Professor of Human Development

B.A., 1991, University of California, Irvine; M.A., 1994, University of California, Irvine; Ph.D., 2001, University of California, Irvine

**William David Brice (2014)**

Professor of Management and Marketing

BBA, 1989, University of Hawaii; MBA, 1996, University of Hawaii; Ph.D., 2005, University of Hawaii

**Sarah Britto (2020)**

Associate Professor in Public Administration

B.A., 1992, Louisiana State University; M.S., 1994, Florida State University; MLS, 2016, University of Wisconsin-Milwaukee; Ph.D., 1998, Florida State University

**Jennifer Brodmann (2018)**

Lyle E. Gibson Distinguished Teacher Award, 2024

Assistant Professor of Accounting Finance and Economics

BFA, 2006, Academy of Art University; MBA, 2013, University of New Orleans; M.S., 2016, University of New Orleans; Ph.D., 2018, University of New Orleans

**Brant Burkey (2014)**

Associate Professor of Communications

B.A., 1993, Sonoma State University; M.S. 1997, University of Oregon; Ph.D., 2014, University of Oregon

**Michele Bury (2002)**

Professor of Visual Arts

B.F.A., 1992, Ecole Charpentier, France; M.F.A., 2000, University of California, Los Angeles

**Heather Butler (2013)**

Associate Professor of Psychology

B.A., 2003, California State University, San Marcos; M.A., 2006, California State University, San Marcos; Ph.D., 2013, Claremont Graduate University

**Theodore Byrne (2005)**

Professor of Public Administration and Public Policy

B.A., 1988, Seattle University; MBA, 1991, Pepperdine University; J.D., 1992, Pepperdine University; L.L.M., 2004, Loyola Law School

## C

**Shaunté Caraballo (2019)**

Assistant Professor of Theatre and Dance

B.A., 2004, California Baptist University; M.F.A., 2007, California State University, Long Beach

**Kaylie Carbine (2020)**

Associate Professor of Psychology

B.S., 2015, Brigham Young University; Ph.D., 2020, Brigham Young University

**Stephanie Cariaga (2018)**

Associate Professor of Teacher Education

B.A., University of California, Berkeley; M.Ed., 2007, University of California, Los Angeles; Ph.D., 2018, University of California, Los Angeles

**Alfredo Carlos (2022)**

Assistant Professor of Labor Studies

B.A., 2003, University of California, Santa Barbara; M.A., 2008, California State University, Long Beach; Ph.D., 2015, University of California, Irvine

**Amalia Castaneda (2021)**

Senior Assistant Librarian of University Library

B.A., 2011, University of California, Los Angeles; MLIS, 2019, University of California, Los Angeles

**Kirti Celly (2001)**

Professor of Marketing

B.A., 1983, University of Bombay; M.A., 1985, University of Bombay; Ph.D., 1992, University of Southern California

**Hyo-Joon Chang (2018)**

Associate Professor of Political Science

B.A., 2005, Yonsei University; M.A., 2010, Yonsei University; Ph.D., 2018, University of Maryland

**Gioella Chaparro (2018)**

Associate Professor of Kinesiology and Recreation

B.S., 2011, California State University, Northridge; M.S., 2013, California State University, Northridge; Ph.D., 2018, University of Illinois at Urbana

**Amlan Chatterjee (2015)**

Associate Professor of Computer Science

BTech., 2007, West Bengal University of Technology; M.S., 2009, University at Buffalo; Ph.D., 2014, University of Oklahoma

**Marisela Chavez (2005)**

Lyle E. Gibson Distinguished Teacher Award, 2016

Professor of Chicana & Chicano Studies

B.A., 1994, Occidental College; M.A., 1997, Arizona State University; Ph.D., 2004, Stanford University

**Scott Cheatham (2013)**

Professor of Kinesiology and Recreation

B.A., 1997, California State University, Dominguez Hills; DPT, 2004, Chapman University; Ph.D., 2016, Nova Southeastern University

**Nancy Ann Cheever (2004)**

Presidential Outstanding Professor, 2018; CSU Faculty Innovation and Leadership Award, 2018-19

Professor of Communications

B.A., 1994, California State University, Dominguez Hills; M.A., 1999, California State University, Fullerton; Ph.D., 2010, Fielding Graduate University

**Alexander Chen (2018)**

Associate Professor of Mathematics

B.S., 2005, Stanford University; Ph.D., 2007, University of California, Los Angeles

**Chi Wen Chen (2015)**

Associate Professor of Information Systems and Operations Management

BBA, 2003, National Change Hsing University; MBA, 2005, National Chiao Tung University; Ph.D., 2015, Baruch College, City University of New York

**Parveen K Chhetri (2018)**

Associate Professor of Earth Science and Geography

B.S., 2005, Tribhuvan University; M.S., 2008, Tribhuvan University; M.S., 2012, Hokkaido University; Ph.D., 2017, Texas A&M University

**Jenny Chiappe (2019)**

Associate Professor of Education

B.A., 2006, University of California, Los Angeles; M.A., 2008, Teachers College, Columbia University; Ph.D., University of California, Los Angeles

**Timothy S. Chin (2000)**

Lyle E. Gibson Distinguished Teacher Award, 2003

Professor of English

B.A., 1981, State University of New York, Buffalo; M.A., 1986, University of Michigan, Ann Arbor; Ph.D., 1992, University of Michigan, Ann Arbor

**Anne Soon Choi (2008)**

Lyle E. Gibson Distinguished Teacher Award, 2022

Professor of Interdisciplinary Studies

B.A., 1994, Indiana University; M.A., 1999, University of Massachusetts; PH.D, 2004, University of Southern California; MPH and MSW, 2012, University of California, Los Angeles

**Hee Kwang Choi (2004)**

Associate Professor of Biology

B.A., 1990, University of Chicago; Ph.D., 2000, Boston University

**Lauren Chow (2015)**

Head Coach, Strength and Conditioning

B.S., 2011, California State University, Fullerton; M.S., 2013, California State University, Fullerton

**Natasa Christodoulidou (2007)**

Professor of Management and Marketing

B.S., 1995, Arizona State University;

M.S., 1997, Arizona State University; MBA, 2001, University of Wisconsin, Milwaukee; Ph.D., 2006, University of Nevada, Las Vegas

**Edward Kui-Ming Chu (1984)**

Professor of Information Systems

B.A., 1976, University of Wisconsin, Madison; MBA, 1980, Roosevelt University; Ph.D., 1985, University of Southern California

**Helen Chun (2004)**

Associate Professor of Biology

B.A., 1993, Smith College; Ph.D., 2002, University of California, Los Angeles

**Ximena Cid (2015)**

Associate Professor of Physics

B.A., 2005, University of California, Berkeley; M.S., 2010, University of Texas; Ph.D., 2011, University of Texas

**Margaret Clarke (2018)**

Senior Assistant Librarian of University Library

MLIS, 2017, University of California, Los Angeles

**Horace Crogman (2019)**

Lyle E. Gibson Distinguished Teacher Award, 2023

Associate Professor of Physics

B.S., 1997, Midwestern State University; M.A., 1999, University of Arkansas; Ph.D., 2004, University of Arkansas

**Edward Curammeng (2017)**

Excellence in Research, Scholarship, and Creative Activity Award, 2024

Associate Professor of Teacher Education

B.A., 2006, San Francisco State University; M.A., 2010, San Francisco University; Ph.D., 2017, University of California, Los Angeles

## D

**Paula D'Amore (2004)**

Associate Professor of Health Sciences

B.S., 1970, University of Vermont; M.S., 1976, State University of New York, Buffalo; Ph.D., 1983, University of California, Los Angeles

**Glenn DeVoogd (2015)**

Professor of Teacher Education

**Kara Dellacioppa (2003)**

Professor of Sociology

B.A., 1992, San Francisco State University; M.A., 1997, San Francisco State University; M.A., 1998, University of California, Santa Barbara;

Ph.D., 2001, University of California, Santa Barbara

**Xuefie Nancy Deng (2014)**

Excellence in Research, Scholarship, and Creative Activity Award, 2017

Professor of Information Systems and Operations Management

B.A., 1989, Sun Yat-Sen University; M.A., 1991, Sun Yat-Sen University; MBA, 1996, American University; M.S., 2000, Carnegie Mellon University; Ph.D.,

2006, Carnegie Mellon University

**Prakash Dheeriya (1991)**

Professor of Accounting and Finance

B. Commerce, 1982, University of Bombay; M.M.S., 1984, University of Bombay; Ph.D., 1987, University of North Texas

**David Dixon (2015)**

Professor of Political Science

B.A., 1985, Wheaton College; M.A., 1988, Pennsylvania State University; Ph.D., 1997, University of Notre Dame

**Katie Dowse (2020)**

Assistant Professor of Theatre

B.A., 2011, Pitzer College; M.F.A., 2014, Temple University

**Paul Quang Duong Tran (2018)**

Professor of Social Work

B.A., 1984, Portland State University; B.S., 1985, Portland State University; M.S., 1989, Portland State University; MSW, 1993, University of Washington;

Ph.D., 1992, University of Washington

## E

**Virginia Todd Eames (2016)**

Associate Professor of Communications



B.A., 1999, Brown University; M.F.A., 2007, University of Texas at Austin

**Susan Einbinder (2007)**

Professor of Social Work

B.A., 1985, Columbia University; M.S., 1988, Columbia University; Ph.D., 1995, Columbia University

**Kirstin Lynne Ellsworth (2014)**

Lyle E. Gibson Distinguished Teacher Award, 2021

Associate Professor of Art and Design

B.A., 1991, Butler University; M.A., 1995, Indiana University; M.A., 1999, Indiana University; Ph.D., 2005, Indiana University

**Kristen Emory (2022)**

Assistant Professor of Public Health and Health Sciences

B.A., 2005, San Diego State University; M.A., 2007, San Diego State University; Ph.D., 2013, San Diego State University and University of California, San Diego

**Nancy Erbe (2004)**

Presidential Outstanding Professor Award, 2015

Professor of Negotiation, Conflict Resolution and Peacebuilding

B.A., 1981, Metropolitan State University; J.D., 1985, University of Minnesota

**Michael Ernst (1998)**

Professor of Kinesiology and Recreation

B.A., 1992, California State University, Dominguez Hills; M.S., 1995, University of Wyoming; Ph.D., 1998, Arizona State University

**Mary Cate Esposito (2001)**

Professor of Graduate Education

B.A., 1990, Loyola Marymount University; M.E., 1993, Loyola Marymount University; Ph.D., 1999, University of Southern California

**Mohammad Eyadat (2003)**

Excellence in Service Award, 2009

Professor of Information Systems

B.S., 1984, Yarmouk University; M.S., 1994, University of Southern California; M.S., 1997, Ph.D., 2003, Claremont Graduate University

## F

**Salim Faraji (2005)**

Professor of Africana Studies

B.S.S., 1993, Penn State University; M.A., 2004, Claremont Graduate University; Ph.D., 2006, Claremont Graduate University

**Kathleen M. Fawyer (2003)**

Excellence in Service Award, 2010

Professor of History

B.A., 1990, Northern Illinois University; M.A., 1992, Northern Illinois University; Ph.D., 2002, University of California, Riverside

**Jessica Federman (2016)**

Associate Professor of Management and Marketing

B.A., 2004, Binghamton University; MBA, 2007, Binghamton University; M.S., 2010, Cornell University; Ph.D., 2014, Cornell University

**Yesenia Fernandez (2016)**

Assistant Professor of Graduate Education

B.A., 1995, Cal State University, Los Angeles; M.A., 2003, Cal State University, Los Angeles; Ph.D., 2014, Claremont Graduate University

**Lorna Fitzsimmons (2004)**

Professor of Humanities

B.A., 1978, University of Texas at Dallas; M.S., 1980, East Texas State University; M.A., 1986, Ph.D., 1994, University of Texas, Dallas

**Kitty Fortner (2016)**

Associate Professor of Graduate Education

B.A., 1995, Southern California Christian College; M.S., 2003, California State University, Fullerton; Ph.D., 2014, University of Redlands

## G

**Michael Galant (2004)**

Professor of Modern Languages

B.S., 1990, University of California, Los Angeles; M.A., 1994, University of California, Los Angeles; Ph.D., 1998, University of California, Los Angeles

**Justin Gammage (2014)**

Associate Professor of Africana Studies

B.A., 2003, California State University, Dominguez Hills; M.A., 2005, Temple University; Ph.D., 2011, Temple University

**Katie Garcia (2015)**

Assistant Coach, Softball

B.A., 2011, California State University, Dominguez Hills

**Carolyn Gardner (2016)**

Associate Librarian of University Library

B.A., 2009, University of California, Santa Cruz; MLS, 2011, Indiana University Bloomington

**Nestor F Garza (2018)**

Associate Professor of Accounting, Finance and Economics

B.A., 2000, Universidad Nacional de Colombia; M.A., 2006, Universidad Nacional de Colombia; Ph.D., 2015, University of Cambridge

**Thomas J. Giannotti, Jr. (1990)**

Professor of English

B.A., 1976, University of California, Riverside; M.A., 1979, University of California, Riverside; Ph.D., 1985, University of California, Riverside

**Benito Gomez (2003)**

Excellence in Research, Scholarship, and Creative Activity Award, 2018

Professor of Modern Languages

B.A., 1990, Alcala de Henares University; B.A., 1995, M.A., 1996, California State University, Dominguez Hills; M.A., 1997, California State University, Long Beach; Ph.D., 2004, University of California, Los Angeles

**Alfredo González (2019)**

Assistant Professor of Chicana & Chicano Studies

B.A., 2011, University of California, Los Angeles; M.A., 2013, Ph.D., 2019, University of Chicago

**Gabriela González (2021)**

Assistant Professor of Public Administration

B.S., 2013, San Jose State University; M.A., 2019, University of California, Irvine; Ph.D., 2021, University of California, Irvine

**Jonathon Grasse (2005)**

Professor of Music

B.M., 1985, California State University, Sacramento; M.A., 1995, University of California, Santa Cruz; Ph.D., 1999, University of California, Los Angeles

**Mara Lee Grayson (2018)**

Associate Professor of English

B.A., 2008, CUNY/Macaulay Honors College at Hunter College; M.F.A., 2012, The City College of New York; Ph.D., 2017, Columbia University

**Kai Greene (2018)**

Associate Professor of Special Education

B.A., 1987, University of California, Los Angeles; M.A., 2002, University of California, Los Angeles; Ph.D., 2012, University of Texas

**Brian Gregor (2013)**

Professor of Philosophy

B.A., 2003, Trinity Western University; M.A., 2005, Boston College; Ph.D., 2009, Boston College

## H

**Jenney Hall (2016)**

Associate Professor of Interdisciplinary Studies

**Christopher Hallenbrook (2019)**

Associate Professor of Political Science

B.A., 2009, Bridgewater State University; M.A., 2014, University of California, Davis; Ph.D., 2015, University of California, Davis

**Kamal Hamdan (2014)**

Professor of Teacher Education

B.S., 1984, San Diego State University; M.A., 1994, California State University, Dominguez Hills; Ed.D., 2010, University of Southern California

**Jianchao Han (2002)**

Professor of Computer Science

B.Eng., 1985, Harbin Institute of Technology, China; M.Sc., 1988, Chinese Academy of Science; Ph.D., 2001, University of Waterloo, Canada

**Lee Hancock (2005)**

Professor of Kinesiology and Recreation

B.A., 1997, Arizona State University; M.S., 2002, Arizona State University; Ph.D., 2006, Arizona State University

**Jon Hauss (2002)**

Lyle E. Gibson Distinguished Teacher Award, 2009

Professor of English

B.A., 1983, California State University, Fresno; M.A., 1985, University of Washington; Ph.D., 1990, University of Washington

**Ivonne Heinze Balcazar (2003)**

Excellence in Service Award, 2016

Professor of Modern Languages

B.A., 1988, University of California, Los Angeles; M.A., 1991, University of California, Los Angeles; Ph.D., 2003, University of Kansas

**Tiffany Herbert (2004)**

Counseling Psychologist, Student Development

B.A., 1999, Loyola Marymount; M.A., 2002, California School of Professional Psychology; Ph.D., 2004, California School of Professional Psychology

**Roderick A. Hernandez (2004)**

Associate Professor of English

B.A., 1992, University of California, Los Angeles; M.A., 1994, Stanford University; Ph.D., 2001, Stanford University

**Miriam Hernandez Martinez (2019)**

Assistant Professor of Communications

B.A., 2002, Tecnologico de Monterrey; M.A., 2011, Tecnologico de Monterrey; Ph.D., 2018, City University of Hong Kong

**Alexandro D. Hernández (2019)**

Assistant Professor of Chicana & Chicano Studies

B.A., 2005, University of Texas, San Antonio; M.A., 2009, University of California, Los Angeles; Ph.D., 2014, University of California, Los Angeles

**James E. Hill (2002)**

Professor of Physics

B.S., 1990, State University of New York, Albany; Ph.D., 1995, University of Pennsylvania

**Brad Hollister (2018)**

Associate Professor of Computer Science

B.S., 1999, Clemson University; M.S., 2004, Clemson University; Ph.D. 2015, University of California, Santa Cruz

**David Hoopes (2007)**

Professor of Management and Marketing

B.A., 1977, Grinnell College; Ph.D., 1996, University of California, Los Angeles

**Sahar Hooshmand (2021)**

Assistant Professor of Computer Science

B.Sc., 2010, University of Tabriz; M.Sc., 2014, Amir Kabir University of Technology; Ph.D., 2020, University of Central Florida

**Yan-Hua Huang (2007)**

Professor of Occupational Therapy

B.S., 1997, Chung-Shan Medical University; M.A., 2001, University of Southern California; Ph.D., 2003, University of Southern California

**Amina Humphrey (2020)**

Assistant Professor of Liberal Studies

B.S., 1997, Henderson State University; M.A., 2000, University of California, Los Angeles; Ph.D., University of California, Los Angeles

**Maria Hurtado-Ortiz (1999)**

Lyle E. Gibson Distinguished Teacher Award, 2008

Professor of Psychology

B.A., 1992, University of California, Riverside; M.A., 1994, University of California, Riverside; Ph.D., 1997, University of California, Riverside

**Kimberly Huth (2014)**

Presidential Outstanding Professor Award, 2022

Associate Professor of English

B.A., 2003, Ithaca College; M.A., 2004, University of Wisconsin, Madison; Ph.D., 2009, University of Wisconsin, Madison

**Eric Jeng-Liang Hwang (2005)**

Professor of Occupational Therapy

B.S., 1994, Chung Shan Medical University; M.S., 1999, State University of New York, Buffalo; Ph.D., 2003, State University of New York, Buffalo

**Larry Hygh, Jr. (2022)**

Assistant Professor of Communications

B.A., 1997, Austin University; M.A., 1999, Austin University; Ed.D., 2008, Pepperdine University

**I**

**Cenap Ilter (2017)**

Professor of Accounting, Finance and Economics

B.A., 1982, Bogazici University; M.A., 1985, University of Istanbul; Ph.D., 1991, University of Istanbul

**Alireza Izaddoost (2018)**

Associate Professor of Computer Science

B.Sc., 2001, Azad University; M.Sc., 2008, University Putra Malaysia; Ph.D., 2015, University of Ontario Institute of Technology

**J**

**Ali Jalooli (2020)**

Assistant Professor of Computer Science

B.S., 2013, Staffordshire University; M.S., 2015, University of Malaya; Ph.D., 2020, Michigan Technological University

**Kathleen Janert (2019)**

Associate Professor of Music

B.A., 2005, University of Texas, Austin; M.M., 2012, University of Texas, Austin; D.M.A., 2019, University of Southern California

**Brian Jarrett (2015)**

Professor in Negotiation Conflict Resolution and Peacebuilding

B.A., 1985, Simon Fraser University; J.D., 1988, University of British Columbia; LL.M., 2001, University of Missouri; Ph.D., 2006, University of Hawaii

**Joshua Jeffers (2018)**

Associate Professor of History

B.A., 2006, Ohio State University, Columbus; M.A., 2009, Northern Illinois University; Ph.D., Purdue University

**Julie Jhun (2018)**

Associate Professor of School of Leadership Program

B.M., 2003, Oberlin College; B.A., 2003, Oberlin College; M.A., 2005, Loyola Marymount University; Ph.D., 2012, University of California, Los Angeles

**Roger Qiyuan Jin (2019)**

Assistant Professor of Public Administration

B.A., 2012, University of International Relations; M.P.P., 2014, University of California, Irvine; Ph.D., 2019, University of Georgia

**Andrea Johnson (2015)**

Professor of History

B.A., 1999, California State University, Bakersfield; M.A., 2002, Indiana University-Purdue University; Ph.D., 2006, University of Missouri

**Cynthia Johnson (1995)**

Excellence in Service Award, 2005

Professor of Nursing

B.A., 1974, Marymount Manhattan College; M.S., 1976, Long

Island University; Ed.D., 1984, Nova University; M.S.N, 1995, California State University, Dominguez Hills

**Kathleen Johnson (2018)**

Counseling Psychologist in SH&PS

B.A., 2005, Point Loma Nazarene University; M.A., 2008, Alliant International University; Ph.D., 2011, Alliant International University

**Danielle Jones (2022)**

Coaching Assistant, Women's Soccer

B.S., 2016, Sonoma State University;

**Matthew G. Jones (2002)**

Professor of Mathematics

B.S., 1996, University of California, Los Angeles; M.A., 1997, University of California, Los Angeles; Ph.D., 2001, University of California, Los Angeles

**Robert Jones (2019)**

Professor of Philosophy

B.A., 1992, California State University, Northridge; M.A., 1998, California State University, Los Angeles; M.A., 2004, Stanford University; Ph.D., 2005, Stanford University

**Sunghoon Joo (2019)**

Assistant Professor of Accounting, Finance and Economics

B.B.A., 2012, Chung-Ang University; M.S., 2013, University of Illinois; Ph.D., 2019, Auburn University

**Anupama Joshi (2007)**

Professor of Human Development

B.S., 1987, SNTD College, India ; M.S., 1989, M.S. University, Baroda, India; M. Phil., 1990, M.S. University, Baroda India; Ph.D., 1997, Purdue University

## K

**Andrew Kalaidjian (2016)**

Associate Professor of English

B.A., 2006, Columbia University; M.A., 2010, University of California, Santa Barbara; Ph.D., 2015, University of California, Santa Barbara

**Mojaba Kamyab (2022)**

Assistant Professor of Orthotics and Prosthetics

B.S., 1996, School of Rehabilitation Sciences; M.S., 2001, University of Welfare and Rehabilitation Sciences; Ph.D., 2008, University of Strathclyde

**Chacko Kannothra (2019)**

Assistant Professor of Management and Marketing

BTech, 2003, University of Kerala; MB.A., 2009, Indian Institute of Foreign Trade; Ph.D., 2018, University of Massachusetts

**Michael Karlin (2021)**

Assistant Professor of Liberal Studies

B.S.E., 2007, University of Kansas; M.S.Ed, 2009, University of Kansas; Ph.D., 2019, Indiana University

**Jarod Kawasaki (2019)**

Associate Professor of Teacher Education

B.S., 1997, Azusa Pacific University; M.A., 2007, California State University, Northridge; Ph.D., 2015, University of California, Los Angeles

**Jian-yu Ke (2015)**

Professor of Information Systems and Operations Management

BBA, 1996, National Chengchi University; MBA, 1998, National Taiwan University; MBA, 2008, Lehigh University; Ph.D., 2012, University of Maryland

**Barbara L. Kennedy (2003)**

Professor of Nursing

B.A., 1977, Bethany College; M.A., 1978, Adelphi University; B.S.N, 1993, Mount St. Mary's College; MSN, 1995, University of California, Los Angeles; DNP, 2004, Case Western Reserve University

**James Keville (2007)**

Associate Professor of Art and Design

B.A., 1991, University of California, Los Angeles; M.F.A., 1994, University of California, Los Angeles

**John Keyantash (2002)**

Excellence in Service, 2024

Professor of Earth Science and Geography

B.S., 1992, Oregon State University; M.S., 1997, M.S., 1998, University of California, Los Angeles; Ph.D., 2001, University of California, Los Angeles

**Wafa Khasawneh (2017)**

Associate Professor of School of Nursing

B.S.N., 1995, Jordan University of Science & Technology; M.S.N., 1998, University of Windsor; Ph.D., 2016, Arizona State University

**Yea Ji Kim (2018)**

Assistant Professor of Political Science

B.A., 2008, Sungshin Women's University; M.A., 2010, Ewha Women's University; M.A., 2015, University of Houston; Ph.D., 2017, University of Houston

**Kara Kogachi (2021)**

Assistant Professor of Child Development

B.A., 2007, Wheaton College; M.A., 2013, University of California, Los Angeles; Ph.D., 2020, University of California, Los Angeles

**Karin Kram (2015)**

Associate Professor of Biology

B.A., 2005, Bard College; Ph.D., 2011, Columbia University College of Physicians and Surgeons

**Elena Kulikov (2005)**

Professor of Public Administration

B.A., 1976, M.A., 1976, Moscow Pedagogical Institute, School of History; Ph.D., 1980, Institute of World History, Russian Academy of Sciences; M.A., 1998, Syracuse University; Ph.D., 2005, Syracuse University

**Vera Kunte (2022)**

Assistant Professor of School of Nursing

DNP, 2015, Rutgers University, New Jersey; M.S.N., 2001, Rutgers University, New Jersey;

**Megumi Kuwabara (2014)**

Associate Professor of Child Development

B.S., 2004, Indiana University; Ph.D., 2011, Indiana University

## L

**Mary T. Lacanlale (2019)**

Catherine H. Jacobs Presidential Outstanding Faculty-Lecturer Award, 2017; Excellence in Research, Scholarship and Creative Activity Award, 2022

Associate Professor of Asian Pacific Studies

B.F.A., 1993, Tulane University; 1995, M.Mus., Johns Hopkins University; M.A., 1999, University of California, Los Angeles;

Ph.D., 2005, University of California, Los Angeles

**Sarah Lacy (2017)**

Associate Professor of Anthropology

B.S., 2008, Tulane University; A.M., 2010, Washington University; Ph.D., 2014, Washington University

**Lei Lai (2016)**

Professor of Management and Marketing

B.A., 1999, Beijing (Peking) University, China; M.A., 2001, University of Pittsburgh; M.S., 2002, Carnegie Mellon University; Ph.D., 2008, Carnegie Mellon University

**Margarita Landeros (2022)**

Assistant Professor of Graduate Education

B.A., 2009, University of California, Berkeley; M.Ed., 2012, University of Southern California; Ed.D., 2015, Pepperdine University

**Michael Laurent (2013-2022)**

Instr Fac AY / Part-Time

**Hannah Lee (2020)**

Senior Assistant Librarian of University Library

B.A., 2011, University of California, Los Angeles; MLIS, 2013, University of California, Los Angeles; MHOD, 2015, Fielding Graduate University

**Jane Lee (2013)**

Associate Professor of English

B.A., 2004, University of California, Irvine; M.A., 2007, University of Washington; Ph.D., 2011, University of Washington

**Samantha C Leigh (2020)**

Assistant Professor of Biology

B.S., 2013, Coastal Carolina University; M.S., 2017, University of California, Irvine; Ph.D., 2019, University of California, Irvine

**Donis L. Leonard (2000)**

Professor of Theatre Arts

B.A., 1990, Prairie View A&M University; M.F.A., 1998, Wayne State University

**Hui Li (2021)**

Assistant Professor of Public Administration

LL.B., 1999, Soochow University, China; M.M., 2002, Fudan University, China; Ph.D., 2009, University of Georgia

**Kelin Li (2015)**

Associate Professor of Sociology

B.A., 2008, Beijing Normal University; M.S., 2011, University of Utah; Ph.D., 2014, University of Utah

**Li-Lin Liu (2012)**

Professor of Accounting, Finance and Economics

B.A., 1987, Tunghai University; M.S., 1995, California State University, Los Angeles; Ph.D., 2007, Florida International University

**Angélica López Fraire (2020)**

Assistant Professor of Child Development

B.A., 2004, University of California, Riverside; M.A., 2007, California State University, Los Angeles; M.S., 2009, University of California, Santa Cruz; Ph.D., 2014, University of California, Santa Cruz

**José R. López-Morín (2001)**

Professor of Chicano & Chicana Studies

B.A., 1989, California State University, Bakersfield; M.A., 1994, University of California, Los Angeles; Ph.D., 2001, University of California, Los Angeles

## M

**Wei Ma (2004)**

Professor of the Library

B.A., 1983, Guangxi University; M.L.S.I., 1989, Wayne State University

**Angela Macias (2015)**

Associate Professor of Liberal Studies

B.A., 2004, California Baptist University; M.S., 2009, California Baptist University; Ed.D., 2012, University of Redlands

**Jennifer Macy (Sumner) (2014)**

Excellence in Research, Scholarship, and Creative Activity Award, 2018

Professor of Criminal Justice Administration

B.A., 1999, Boston University; M.A., 2002, Rutgers University; Ph.D., 2009, University of California, Irvine

**Sally Mahmoud (2019)**

Assistant Professor of School of Nursing

B.S., 2003, California State University, Dominguez Hills; MSN/MPH, 2013, California State University, Long Beach; DNP, 2015, Touro University

**James Maier (2005)**

Head Coach, Softball

B.A., 1987, California State University, Fullerton; M.S., 1994, Azusa Pacific University

**Rama Malladi (2017)**

Excellence in Service Award, 2022

Professor of Accounting, Finance, and Economics

M. Tech, 1993, Indian Institute of Technology; MBA, 2005, UCLA Anderson School of Management; Ph.D., 2016, EDHEC Business School

**Sergio Mancilla (2018-2025)**

Counseling Psychologist in SH&PS

B.S., 2006, University of La Verne, M.S., 2008, University of La Verne; Psy.D., 2015, University of La Verne

**Adrianna Tuzzolino Mancillas (2002)**

Professor of Graduate Education

B.A., 1992, University of California, Los Angeles; M.A., 1996, California School of Professional Psychology;

Psy.D., 1998, California School of Professional Psychology

**Iara Mantenuto (2020)**

Associate Professor of English

B.A., 2012, ICoN Università di Pisa, Italy; M.A.,

2013, Università per Stranieri di Siena, Siena, Italy; M.A., 2014, Syracuse University; Ph.D., 2020, University of California, Los Angeles

**Clarence Augustus Martin (2001)**

Professor of Criminal Justice Administration

B.A., 1978, Harvard University; J.D., 1982, Duquesne University Law School; Ph.D., 1999, University of Pittsburgh

**H. Leonard Martinez (1996)**

Excellence in Research, Scholarship and Creative Activity Award, 2007; Presidential Outstanding Professor Award, 2008

Acting Associate Dean and Professor of Chemistry

B.S., 1986, Universidad del Valle, Cali, Columbia; M.S., 1989, University of California, San Diego; Ph.D., 1993, University of California, San Diego

**Jose Martinez (2014)**

Professor of Accounting, Finance and Economics

B.A., 1998, California State University, San Marcos; M.A., 2004, University of California, San Diego; Ph.D., 2007, University of California, San Diego

**Erin McCauley (2019)**

Associate Professor of Chemistry and Biochemistry

B.S., 2009, Vancouver Island University; Ph.D., 2017, University of Prince Edward Island

**Charlene McCord (2019)**

Assistant Professor of Biology

B.S., 2006, University of California, Los Angeles; Ph.D., 2014, University of Chicago

**Alexis Sharon McCurn (2014)**

Professor of Sociology

B.A., 2005, University of San Francisco; M.A., 2009, University of California, Santa Barbara; Ph.D., 2013, University of California, Santa Barbara

**Stephen McFarland (2020)**

Professor of Labor Studies

B.A., 2000, Trinity College, Hartford; M.R.P., 2005, Cornell University; Ph.D., 2014, The Graduate Center, City University of New York

**Terrence McGlynn (2007)**

Excellence in Research, Scholarship and Creative Activity Award, 2011; Presidential Outstanding Professor Award, 2021

Director, California Desert Studies/Professor of Biology

B.A., 1993, Occidental College; Ph.D., 1999, University of Colorado

**Elexia Reyes McGovern (2015)**

Associate Professor of Teacher Education

B.A., 2005, Tufts University; M.A.T., 2006, Tufts University; Ph.D., 2013, University of California, Los Angeles

**Mary Medina (Groves) (2013)**

Assistant Professor of Occupational Therapy

B.S., 1993, Loma Linda University; M.S., 2008, Loma Linda University; DOT, 2011, Loma Linda University

**Ashley Membere (2019)**

Assistant Professor of Psychology

B.A., 2013, Rice University; M.A., 2015, George Mason University; Ph.D., 2018, George Mason University

**Erin Merz (2014)**

Professor of Psychology

B.A., 2003, Miami University; M.A., 2008, San Diego State University; M.P.H., 2013, San Diego State University; Ph.D., 2014, San Diego State University;

Ph.D., 2014, University of California, San Diego

**Kevin Montes (2018)**

Assistant Professor of Psychology

B.A., 2008, California State University, Dominguez Hills; M.A., 2011, University of North Dakota; Ph.D., 2013, University of North Dakota

**Christopher Monty (2007)**

Lyle E. Gibson Distinguished Teacher Award, 2013

Professor of History

B.A., 1991, University of California, Los Angeles; M.A., 1994, University of California, Riverside; Ph.D., 2004, University of California, Los Angeles

**Stephen Moore (2005)**

Associate Professor of Music

B.M., 1979, University of Rhode Island; M.M., 1983, Manhattan School of Music; Ph.D., 1992, Indiana University

**Sanaz Rahimi Moosavi (2020)**

Assistant Professor of Computer Science

M.S., 2013, University of Kurku; DSc, 2019, University of Kurku

**Scott Morris (2006)**

Professor of Music

B.M., 1994, University of Southern California; M.M., 1996, Yale University; D.M.A., 2005, Claremont Graduate University

**Samira Moughrabi (2020)**

Associate Professor of School of Nursing



B.S.N., 1987, American University of Beirut; M.N., 1990, University of California, Los Angeles; Ph.D., 2009, University of California, Los Angeles

**Dale Mueller (2004)**

Professor of Nursing

B.A., 1971, University of California, Los Angeles; M.S., 1974, California State University, Long Beach; Ed.D., 1998, Pepperdine University; M.S.N., 2003, St. Joseph's

**Bianca Murillo (2015)**

Professor of History

B.A., 2002, University of California, Santa Barbara; M.A., 2004, University of California, Santa Barbara; Ph.D., 2009, University of California, Santa Barbara

**Matthew Mutchler (2005)**

Excellence in Research, Scholarship, and Creative Activity Award, 2013

Professor of Sociology

B.A., 1991, University of California, Santa Barbara; M.A., 1994, University of California, Santa Barbara; Ph.D., 1999, University of California, Santa Barbara

## N

**Payman Nasr (2015)**

Associate Professor of Clinical Science

B.S., 1994, University of Kentucky; Ph.D., 2003, University of Kentucky

**Siskanna Naynaha (2015)**

Associate Professor of English

B.A., 1997, Boise State University; M.A., 2000, Boise State University; Ph.D., 2006, Washington State University

**Ha Nguyen (2022)**

Assistant Professor of Mathematics

B.S., 2005, University of California Los Angeles; M.S., 2008, Emory University; Ph.D., 2010, Emory University

**Hannah Nguyen (2015)**

Associate Professor of Human Services

B.A., 2005, University of California, Irvine; M.S.W., 2007, University of California, Los Angeles; Ph.D., 2013, University of California, Los Angeles

**Donna Nicol (2017)**

Excellence in Service Award, 2021

Professor of Africana Studies

B.A., 1995, California State University, Fullerton; M.A., 1999, California State University, Long Beach; M.A., 2002, Ohio State University; Ph.D., 2007, Ohio State University

**Thomas J. Norman (2009)**

Presidential Outstanding Professor Award, 2014; Excellence in Service Award, 2023

Professor of Management and Marketing

B.A., 1992, Harvard University; M.A., 1998, University of Minnesota; Ph.D., 2009, University of Minnesota

## O

**Helen C. Oesterheld (2003)**

Excellence in Service Award, 2017

Associate Professor of English

B.A., 1993, University of California, San Diego; M.A., 1995, American University; Ph.D., 2001, University of California, Irvine

**Conrad Oh-Young (2019)**

Associate Professor of Special Education

B.S., 2001, University of Nevada, Las Vegas; M.Ed., 2003, University of Nevada, Las Vegas; Ph.D., 2016, University of Nevada, Las Vegas

**Enrique Ortega (2012)**

Associate Professor of Health Sciences

B.A., 2000, San Jose State University; M.A., 2003, University of Southern California, 2003; Ph.D., 2008, University of Southern California

**Irene Osisioma (2004)**

Professor of Teacher Education

B.S., 1982, University of Nigeria; M.S., 1989, University of Nigeria; Ph.D., 1995, University of Nigeria

**Dana Ospina (2017)**

Associate Librarian of University Library

B.A., 1992, Colorado College; M.A., 1999, University of California, Riverside; M.S.I., 2010, University of Michigan

**Carolyn Oudiz (2020)**

Assistant Professor of Kinesiology & Recreation

B.S., 1986, Springfield College; B.S., 1988, Northwestern University Medical School; MHS, 1996, University of Indianapolis; DPT, 2019, College of St. Scholastica

**Lauren Outland (2008)**

Professor of School of Nursing

B.A., 1981, University of Wisconsin; B.S., 1986, California State University, Los Angeles; M.P.H., 1993, University of California, Los Angeles; D.Ph., 1998, University of California, Los Angeles; MSN, 2007, California State University, Long Beach

## P

**Jung-Sun Park (1999)**

Professor of Asian-Pacific Studies

B.A., 1985, Yonsei University, Seoul; M.A., 1989, Northwestern University; Ph.D., 1997, Northwestern University

**Sheela Pawar (2004)**

Associate Professor of Philosophy

B.A., 1988, Case Western Reserve University; M.A., 1992, John Carroll University; Ph.D., 2002, Claremont Graduate University

**Keisha Paxton (2005)**

Presidential Outstanding Professor Award, 2016

Professor of Psychology

B.A., 1995, University of California, Los Angeles; M.A., 1998, DePaul University; Ph.D., 2001, DePaul University

**Kari J. Pederson (2018)**

Associate Professor of Chemistry and Biochemistry

B.A., 2005, Scripps College; Ph.D., 2010, University of Washington

**Maria Theresa Peralta-Catipon (2004)**

Professor of Health Sciences

B.S., 1991, University of the Philippines; M.A., 1998, University of Southern California; Ph.D., 2004, University of Southern California

**Annemarie Perez (2017)**

Associate Professor of Interdisciplinary Studies

B.A., 1996, Ohio State University; M.A., 1999, University of Southern California; Ph.D., 2011, University of Southern California

**Joanna Perez (2016)**

Excellence in Research, Scholarship, and Creative Activity Award, 2021

Associate Professor of Sociology

B.A., 2009, University of California, Los Angeles; M.A., 2011, University of Illinois Urbana-Champaign; Ph.D., 2016, University of Illinois Urbana-Champaign

**Phu Phan (2013)**

Professor of Human Services

B.A., 1989, University of Minnesota; MSW, 1997, University of Minnesota; Ph.D., 2003, University of Minnesota

**Thomas Philo (2006)**

Excellence in Service Award, 2016

Professor of the Library

B.A., 1976, Wayne State University; M.F.A., 1980, University of Southern California; M.L.I.S., 2005, San Jose State University

**Katy Pinto (2007)**

Presidential Outstanding Professor Award, 2019

Professor of Sociology

B.A., 1997, San Diego State University; M.A., 1999, University of California, Los Angeles; Ph.D., 2006, University of California, Los Angeles

**Wai Yan Pong (2002)**

Professor of Mathematics

B.Sc., 1993, Chinese University of Hong Kong; M.Sc., 1997, University of Illinois, Chicago; Ph.D., 1999, University of Illinois, Chicago

**Susan G Porter (2020)**

Associate Professor of Special Education

B.A., 1977, University of California, Davis; M.A., 1985, University of the Pacific; Ph.D., 2008, University of California, Davis

**Hamid Pourmohammadi (2005)**

Professor of Information Systems and Operations Management

B.S., 1996, Tehran Polytechnic University; M.S., 1999, Tehran Polytechnic University; M.S., 2001, University of Southern California;

Ph.D., 2005, University of Southern California

**Jose Prado (2007)**

Professor of Sociology

B.A., 1990, University of California, Santa Barbara; M.A., 1997, California State University, Los Angeles; Ph.D., 2006, University of Southern California

**Fynnwin Prager (2015)**

Associate Professor of Public Administration

B.Sc., 2006, London School of Economics and Political Sciences; MPP, 2008, University of Southern California; Ph.D., 2013, University of Southern California

California

**Laurence Press (2009-2011)**

Professor of Information Systems

**John Price (2005)**

Excellence in Research, Scholarship and Creative Activity Award, 2023

Professor of Physics

B.S., 1986, University of California, Los Angeles; M.S., 1987, University of California, Los Angeles; Ph.D., 1993, University of California, Los Angeles

**Vivian Price (2005)**

Excellence in Research, Scholarship, and Creative Activity Award, 2020

Professor of Interdisciplinary Studies

B.A., 1971, Bryn Mawr College; M.A., 1973, University of Texas, Austin; Ph.D., 2000, University of California, Irvine

## Q

**Karen Quek (2022)**

Associate Professor of Marital and Family Therapy

M.A., 1990, Biola University; M.S., 1993, California State University, Fullerton; Ph.D., 2004, Loma Linda University

**Norma Quintero (2018)**

Counseling Psychologist in SH&PS

B.A., 1998, University of California, Berkeley; MSW, 2004, California State University, Long Beach; Ph.D., 2017, Pacifica Graduate Institute

## R

**Kimberley Radmacher (2007)**

Associate Professor of Human Development

B.S., 1992, Montana State University; M.A., 2002, California State University, Northridge; Ph.D., 2007, University of California, Santa Cruz

**Serban Raianu (2002)**

Professor of Mathematics

B.S., 1980, University of Bucharest, Romania; M.S., 1981, University of Bucharest, Romania; Ph.D., 1992, University of Bucharest, Romania

**Pablo Ramirez (2019)**

Professor of Teacher Education

B.A., 2000, San Diego State University; M.A., 2005, San Diego State University; Ph.D., 2011, Claremont Graduate University-San Diego State University

**Harun Rashid (2018)**

Associate Professor of Accounting, Finance and Economics

B.S., 2004, Independent University; MBA, 2007, North South University; M.S., 2013, University of Saskatchewan; Ph.D., 2018, University of Calgary

**Nop Ratanasiripong (2012)**

Professor of Nursing

B.S.N., 1994, Boromarajonani College of Nursing; MSN, 1998, Mahidol University

**Gary Rhodes (2015)**

Professor of Graduate Education

B.A., 1983, University of California, Santa Barbara; M.S., 1986, University of Southern California; Ph.D., 1994, University of Southern California; M.A.,

2006, University of Southern California

**Stanley Rodrigues (2019)**

Assistant Coach, Men's Soccer  
B.S., 2012, Warner Pacific College; M.S., 2015, Fresno State University

**Kenneth Rodriguez (2009)**

Associate Professor of Chemistry and Biochemistry  
B.S., 2001, California State University, Dominguez Hills; M.S., 2005, Ohio State University; Ph.D., 2007, Ohio State University

**Miguel Rodriguez Velazquez (2022)**

Assistant Professor of Physics  
B.S., 2011, Florida Atlantic University; M.S., 2015, University of Oklahoma; Ph.D., 2020, Florida International University

**Kirk Rogers, Jr. (2022)**

Assistant Professor of Teacher Education  
B.A., 2009, University of Georgia; M.A., 2011, Georgia State University; Ed.S., 2015, University of Georgia; Ph.D., 2022, University of California, San Diego

**Salvatore J Russo (2013)**

Professor of Political Science  
B.A., 2002, Tulane University; J.D., 2005, Fordham University School of Law; M.A., 2011, University of Mississippi; Ph.D., 2013, University of Mississippi

**Sheryl Ryan (2019)**

Assistant Professor of Occupational Therapy  
B.S., 1989, University of Puget Sound; M.A., 2006, Fuller Graduate School; Ph.D., 2015, Fuller Graduate School

## S

**Mahmoud Salari (2019)**

Assistant Professor of Accounting, Finance and Economics  
B.S., 2007, University of Tehran; M.S., 2011, University of Tehran; Ph.D., 2016, Texas Tech University

**Sherwin Sales (2021)**

Assistant Professor of English  
B.A., 2014, California State University, Long Beach; M.A., 2016, California State University, Long Beach; Ph.D., 2021, Washington State University

**Hamoud Salhi (2006)**

Senior Associate Dean for International Education and Professor of Political Science, Economics and Labor Studies  
B.A., 1981, University of Algiers; M.A., 1985, University of Southern California; Ph.D., 1995, University of Southern California

**Cynthia Sanchez Tapia (2020)**

Assistant Professor of Mathematics  
B.S., 2006, University of Colima; M.S., 2008, CIMAT; M.S., 2012, University of California, Irvine; Ph.D., 2016, University of California, Irvine

**Silvia Jaimina Santos (1990)**

Professor of Psychology  
B.A., 1985, California State University, San Diego; M.A., 1987, University of California, Riverside; Ph.D., 1990, University of California, Riverside

**Jeffrey Sapp (2006)**

Excellence in Research, Scholarship, and Creative Activity Award, 2016; Lyle E. Gibson Distinguished Teacher Award, 2018; Presidential Outstanding Professor, 2024  
Professor of Teacher Education  
B.S., 1981, Liberty University; M.S., 1985, Pensacola College; Ed.D., 1993, West Virginia University

**Jimena Sarno (2022)**

Assistant Professor of Art & Design  
B.A., 2011, University of California, Los Angeles; M.F.A., 2014, University of California, Irvine

**Samantha L Scudder (2022)**

Assistant Professor of Psychology  
B.S., 2010, Brown University; Ph.D., 2016 University of California, San Diego; Postdoc, 2019, New York University; Postdoc, 2022, University of California, Santa Barbara

**Kenneth Seligson (2019)**

Associate Professor of Anthropology  
A.B., 2008, Brown University; M.A., 2011, University of Wisconsin-Madison; Ph.D., 2016, University of Wisconsin-Madison

**Tayyeb Shabbir (2007)**

Professor of Accounting and Finance

B.A., 1973, Government College; M.S., 1974, Quaid-E-Azam University; M.A., 1979, University of Pennsylvania; Ph.D., 1987, University of Pennsylvania

**Saahir Shafi (2022)**

Assistant Professor of Public Administration

BEcon, 2008, University of the Punjab; M.S., 2016, Pennsylvania State University; Ph.D., 2022 Pennsylvania State University

**Sohaila Shakib (2006)**

Professor of Sociology

B.A., 1990, Tulane University; M.A., 1995, University of Southern California; Ph.D., 1999, University of Southern California

**Kerry Shannon (2020)**

Assistant Professor of History

B.A., 2006, Whitman College; M.A., 2011, University of California, Berkeley; M.A., 2013, University of California, Berkeley; Ph.D., 2019, University of California, Berkeley

**Archana M Sharma (2018)**

Assistant Professor of Health Science

B.S., 1994, University of California, Irvine; MPH, 1998, California State University, Long Beach; Ph.D., 2010, University of California, Los Angeles

**Sharon Sharp (2007)**

Professor of Communications

B.A., 1992, University of California, Berkeley; M.A., 2000, University of California, Los Angeles; Ph.D., 2006, University of California, Los Angeles

**David P. Sherman (2002)**

Professor of English

B.A., 1983, McGill University, Canada; M.A., 1987, Concordia University, Canada; Ph.D., 1999, State University of New York, Stony Brook

**Myron Z. Sheu (2002)**

Professor of Information Systems and Operations Management

B.S., 1982, Shanghai Industrial University; M.S., 1989, Brigham Young University; Ph.D., 1992, Old Dominion University; MBA, 2000, California State University, Long Beach

**Lia Morgan Siewert (2022)**

Assistant Professor of Anthropology

B.A., 2007, Indiana State University; M.A., 2010, Southern Illinois University-Carbondale; NAIS, 2021, University of Texas at Austin; Ph.D., 2021, University of Texas at Austin

**Sari Silvano (2015)**

Professor of Management and Marketing

BBA, 1998, AALTO University of School of Business; M.Sc., 1999, Aston University; Ph.D., 2007, University of Warwick

**Sonal Singhal (2017)**

Associate Professor of Biology

B.A., 2006, Washington University in St. Louis; Ph.D., 2013, University of California, Berkeley

**Meghna Singhvi (2019)**

Associate Professor of Accounting, Finance and Economics

MBA, 2002, Ohio University; M.S.A., 2004, Northern Kentucky University; Ph.D., 2011, Florida International University

**Ashish Sinha (2005)**

Professor of Earth Sciences and Geography

B.S., 1987, Lucknow University, India; M.S., 1989, University of Roorkee, India; Ph.D., 1997, University of Southern California

**LaTanya Skiffer (2005)**

Professor of Sociology

B.A., 1996, University of Colorado; M.A., 1999, University of Missouri; Ph.D., 2007, University of Missouri

**Carl Sneed (2005)**

Excellence in Research, Scholarship, and Creative Activity Award, 2012

Professor of Psychology

B.A., 1987, California State University, Fullerton; M.A., 1989, California State University, Fullerton; Ph.D., 1994, University of California, Riverside

**Davood Soleymani (1990)**

Professor of Biology

D.V.M., 1962, Tehran University; M.S., 1967, Iowa State University; Ph.D., 1970, Iowa State University

**Minhye Son (2021)**

Assistant Professor of Teacher Education

M.A., 2010, Columbia University; Ed.D., 2017, Columbia University

**Hak Joon Song (2016)**

Professor of Accounting, Finance and Economics

BBA, 1989, Korea University; MBA, 1992, Korea University; MBA, 2005, University of Minnesota; Ph.D., 2012, Temple University

**Edwin Soto (2019)**

Head Coach, Men's Soccer

B.S., 1995, California State University, Fullerton

**Cristina Springfield (2019)**

Librarian of University Library

B.A., 2008, University of Wisconsin-Madison; M.A., 2011, University of Wisconsin-Madison

**Melissa St. James (2005)**

Associate Professor of Management and Marketing

B.B.A., 1990, University of Cincinnati; MBA, 1994, Meredith College; Ph.D., 2004, George Washington University

**Jennifer Stacy (2015)**

Associate Professor of Liberal Studies

B.S., 2007, Bowling Green State University; M.S., 2011, Universidad de Monterrey; Ph.D., 2015, University of Nebraska

**Kristen Stagg Rovira (2015)**

Professor of Mathematics

B.S., 2004, University of California, Santa Barbara; M.S., 2006, CSU, Long Beach; Ph.D., 2011, North Carolina State University

**Aandrea Stang (2018)**

Associate Professor of Art and Design, Director of the University Art Gallery

B.A., 1990, Oberlin College; M.A., 1997, University of Southern California

**Alexander Stanoyevitch (2005)**

Professor of Mathematics

B.S., 1983, University of Maryland; M.S., 1986, University of Michigan; Ph.D., 1990, University of Michigan

**Sam Stapleton (2017)**

Assistant Coach, Men's Basketball

B.A., 2013, Occidental College; M.S., 2017, Pepperdine University

**Noel Sturm (1996)**

Lyle E. Gibson Distinguished Teacher Award, 2007

Professor of Chemistry

B.S., 1985, University of California, Davis; M.S., 1987, University of California, Davis; Ph.D., 1993, University of Toledo

**Carol Sullivan (2017)**

Assistant Professor of Graduate Education

B.A., 1995, California State University, Dominguez Hills; M.A., 1997, California State University, Dominguez Hills; Ed.D., 2013, American School of Professional Psychology

**Rui Sun (2013)**

Professor of Public Administration

B.A., 1998, Peking University; M.A., 2001, Peking University; MPA, 2004, Auburn University; Ph.D., 2009, University of Maryland

**Daniel Swiatek (2019)**

Assistant Professor of Occupational Therapy

B.A., 1988, University of Nebraska; B.S., 1996, Creighton University; O.T.D., 2018, Creighton University

## T

**Laura Talamante (2007)**

Excellence in Service Award, 2018; Presidential Outstanding Professor Award, 2023

Professor of History

B.A., 1995, University of California, Berkeley; M.A. 1998, University of California, Los Angeles; Ph.D., 2003, University of California, Los Angeles

**Bin Tang (2013)**

Professor of Computer Science

B.S., 1997, Peking University; M.S., 2002, Stony Brook University; Ph.D., 2007, Stony Brook University

**Sarah Taylor (2016)**

Associate Professor of Anthropology

B.A., 2006, California State University, Chico; M.A., 2008, California State University, Long Beach; Ph.D., 2012, State University of New York

**Eillen Teclé (2021)**

Assistant Professor of Biology

B.S., 2005, Eastern Michigan University; Ph.D., 2013, Albert Einstein College of Medicine

**Patryk Tenorio (2022)**

Assistant Coach, Men's Soccer

B.A., 2011, College of Wooster

**Arumugam Thangavel (2015)**

Associate Professor of Chemistry and Biochemistry

B.S., 1999, Pondicherry University; M.S., 2002, Pondicherry University; Ph.D., 2010, Missouri University of Science and Technology

**Kathryn Theiss (2015)**

Associate Professor of Biology

B.A., 2003, Willamette University; M.S., 2008, University of Connecticut; Ph.D., 2012, University of Connecticut

**Charles Thomas (2009)**

Associate Professor of Accounting and Finance

B.A., 1995, University of California, Berkeley; J.D., 1998, University of California, Berkeley; MBA, 2001, University of Southern California

**Elwin Tilson (2018)**

Professor of Health Science-Radiology & Imaging

B.S., 1975, Arizona State University; M.S., 1978, San Francisco State University; Ph.D., 1986, University of Georgia

**Christina Toolan (2022)**

Assistant Professor of Child Development

B.S., 2011, University of California, Los Angeles; M.A., 2014, University of California, Los Angeles; Ph.D., 2020, University of California, Los Angeles

**Devon Tsuno (2015)**

Assistant Professor of Art and Design

B.F.A., 2003, California State University, Long Beach; M.F.A., 2005, Claremont Graduate University

**Irene Tung (2021)**

Assistant Professor of Psychology

B.A., 2011, University of California, Los Angeles; M.A., 2013, University of California, Los Angeles; Ph.D., 2018, University of California, Los Angeles

**Sarah Turkel (2021)**

Assistant Professor of Clinical Science

B.A., 2000, University of Southern California; M.S., 2004, California State University, Dominguez Hills; M.P.H., 2006, Boston University

## U

**Sarah Underwood Rossolimo (2018)**

Assistant Professor of Human Services

B.S., 2010, University of Evansville; M.S.W., 2012, University of Southern Indiana; Ph.D., 2018, Saint Louis University

## V

**Annalyn Valdez-Dadia (2018)**

Assistant Professor of Human Services

B.A., 1999, University of California, Irvine; M.P.H., 2003, Loma Linda University; D.P.H., 2014, University of California, Los Angeles

**Justin M Valliere (2020)**

Assistant Professor of Biology

B.A., 2007, Green Mountain College; Ph.D., 2016, University of California, Riverside

**John Vanderhoef (2016)**

Associate Professor of Communications

B.A., 2008, University of Wisconsin-Milwaukee; M.A., 2010, University of Wisconsin-Milwaukee; Ph.D., 2016, University of California, Santa Barbara

**Gretel Vera-Rosas** (2015)

Associate Professor of Chicana/Chicano Studies

B.A., 2004, University of California, Santa Cruz; M.A., 2008, University of Southern California; Ph.D., 2013, University of Southern California

**Wendolyn Vermeer** (2016)

Associate Librarian of University Library

B.A., 2005, California State Polytechnic University, Pomona; M.L.I.S., 2007, San Jose State University

**Tara Victor** (2006)

Excellence in Research, Scholarship, and Creative Activity Award, 2014

Professor of Psychology

B.A., 1998, University of Kentucky; M.A., 2000, Michigan State University; Ph.D., 2004, Michigan State University

**Philip Vieira** (2016)

Professor of Psychology

B.A., 2009, California State University, Fresno; M.A., 2011, University of California, Riverside; Ph.D., 2014, University of California, Riverside

**Margarita Villagrana** (2020)

Associate Professor of Social Work

B.A., 1992, California State University, Northridge; M.S.W., 2000, California State University, Long Beach; Ph.D., 2008, University of Southern California

**George Starr Vinovich** (1983)

Professor of Theatre Arts

B.A., 1972, Loyola University; M.A., 1974, University of Southern California; M.S., 1975, University of Southern California; Ph.D., 1975, University of Southern California

## W

**Mark Davis Waldrep** (1995)

Professor of Music

B.M., 1978, California State University, Northridge; M.A., 1979, California State University, Northridge; B.A., 1982, California State University, Northridge; M.F.A., 1984, California Institute of Arts; Ph.D., 1986 University of California, Los Angeles; M.S., 1992, California State University, Northridge

**Bruce Wallace** (2017)

Counseling Psychologist in SH&PS

B.S., 2000, Howard University; Ph.D., 2004, University of Maryland; M.Psy, 2011, George Washington University; Ph.D., 2014, George Washington University

**Fang Wang** (2014)

Associate Professor of Biology

B.A., 1998, Fudan University, China; Ph.D., 2004, Fudan University, China

**Tieli Wang** (2005)

Professor of Chemistry

B.S., 1984, Jilin University, China; M.S., 1987, Jilin University, China; M.S., 1995, Iowa State University; Ph.D., 1999, State University of New York

**Yi Wang** (2018)

Associate Professor of Mathematics

M.S., 2011, University of Minnesota; M.S., 2012, University of Minnesota; Ph.D., 2012, University of Minnesota

**Hal Weary** (2018)

Associate Professor of Music

B.A., 2002, California State University, San Jose; M.M., 2004, William Paterson University; D.M.A., 2014, Five Towns College

**Christopher Webb** (2015)

Assistant Coach, Volleyball

B.A., 1997, Northern Arizona University; B.S., 1997, Northern Arizona University

**Joseph Wen** (2012)

Dean, College of Business Administration and Public Policy and Professor of Information Systems and Operations Management

B.S., 1980, National University of Marine and Oceanic Technology; M.S., 1983, Chinese Cultural University; Ph.D., 1993, Virginia Commonwealth University



**Able Whittemore (2021)**

Associate Professor of Health Sciences

B.A., 1979, Loma Linda University; M.H.A. 1982, Loma Linda University; D.B.A., 1985, United States International University; M.S., 2012, California State University, Dominguez Hills

**Tessa Withorn (2018)**

Senior Assistant Librarian of University Library

B.A., 2015, University of Louisville; MLIS, 2017, Indiana University Bloomington

**Tyler Wright (2015)**

Head Coach, Baseball

B.S., 2007, California State University, Fullerton; M.A., 2009, Fresno Pacific University

**X****Bing Xu (2009)**

Professor of Management and Marketing

B.A., 1997, Hunan Normal University; MBA, 2004, New Mexico State University; Ph.D., 2009, New Mexico State University

**Xun (Peter) Xu (2022)**

Associate Professor of Information Systems and Operations Management

B.S., 2008, Fudan University; M.S., 2010, Renmin University of China; Ph.D., 2015, Washington State University

**Y****Zheng Yang (2016)**

Assistant Professor of Public Administration

B.A., 2008, Beijing Institute of Technology; M.A., 2010, Beijing Institute of Technology; Ph.D., 2016, North Carolina State University

**Carolyn Yarnall (2017)**

Associate Professor of Mathematics

B.A., 2008, University of San Diego; M.S., 2010, University of Virginia; Ph.D., 2013, University of Virginia

**Bingsheng Yi (2005)**

Professor of Accounting, Finance and Economics

B.S., 1993, Beijing Materials College; M.A., 1996, Beijing Materials College; Ph.D., 2005, University of South Florida

**Sheng Yi (2016)**

Associate Professor of Accounting, Finance and Economics

B.A., 2010, Central University of Finance and Economics; M.A., 2011, University of Miami; Ph.D., 2016, Florida International University

**Z****Ellie Zenhari (2012)**

Professor of Art and Design

B.A., 1992, California State University, Los Angeles; M.F.A., 2012, Savannah College of Art and Design

**Meng Zhao (2004)**

Professor of Management and Marketing

B.A., 1991, Qingdao University; M.A., 1999, University of Nebraska, Lincoln

**Xia Zhao (2006)**

Professor of Management and Marketing

B.S., 1997, Hebei University; M.S., 2000, Beijing University; Ph.D., 2006, University of Texas

**Liudong Zuo (2015)**

Associate Professor of Computer Science

B.Eng., 2009, University of Electronic Science and Technology of China; Ph.D., 2015, Southern Illinois University Carbondale

**Ana X. de la Serna (2018)**

Associate Professor of Communications

B.A., 2004, Universidad Nacional Autonoma de Mexico; M.A., 2013 Instituto Tecnológico y de Estudios Superiores de Monterrey; Ph.D., 2018, University of Kentucky

## Emeriti Faculty

### A

**Terri Abbott** (2006-2017)

Professor Emeritus of Teacher Education

B.A., University of California, Santa Barbara; M.A., California State University, Los Angeles

**Raul Aceves** (1970-1988)

Dean of Community Programs

**Jill Aguilar** (2000-2016)

Professor Emeritus of Teacher Education

**Angela Albright** (1988-2009)

Professor Emeritus of School of Nursing

**Arnold Arnold** (1990-2000)

Professor Emeritus of Sociology

**Melvin Auerbach** (1976-2008)

Professor Emeritus of Accounting and Finance

**Mary Auth** (1998-2004)

Lyle E. Gibson Distinguished Teacher Award, 1995

Professor Emeritus of Public Administration

### B

**Jeffer S. Badrtalei** (1999-2010)

Professor Emeritus of Applied Studies

**Bernard Baker** (1976-2006)

Professor Emeritus of Art

**Jacqueline Barab** (1995-2015)

Professor Emeritus of Mathematics

B.S., 1971, Indiana University, Bloomington; M.S., 1974, Georgia State University; Ph.D., 1982, Indiana University, Bloomington

**Chrispin Barbara** (1973-2005)

Professor Emeritus of Management

**Donald Barnett** (1976-2004)

Professor Emeritus of Accounting and Law

**Marie Barteld** (2006-2022)

Lecturer Emeritus of English

B.A., 1981, California State University, Dominguez Hills; M.A., 1990, California State University, Long Beach;

**Potkin Basseer** (1991-2007)

Professor Emeritus of Accounting and Finance

**Iris A. Baxter** (2001-2010)

Professor Emeritus of Public Administration

**Matthew Becker** (2006-2022)

Lecturer Emeritus of English

B.A., 1983, University of Massachusetts; M.A., 1987, University of California, Irvine; Ph.D., 1998, University of Southern California

**Justine Bell** (1987-2008)

Professor Emeritus of Public Administration

**E. Kenneth Bennett** (1968-1994)

Professor Emeritus of the Library

**Richard Beym** (1968-1986)

Lyle E. Gibson Distinguished Teacher Award, 1979

Professor Emeritus of Foreign Language

**Marshall Bialosky** (1964-1987)

Presidential Outstanding Professor Award, 1977

Professor of Music

**Carole Bittmann** (2007-2015)

Professor Emeritus of Social Work

**Carrie Ann Blackaller** (1979-2014)

Professor Emeritus of Special Education

**Betty J. Blackman** (1986-1999)

Dean and Professor of the Library

**William R. Blischke** (1969-2001)

Professor Emeritus of Sociology

**Margaret R. Blue** (1985-2010)

Professor Emeritus of Political Science

**Martin R. Blyn** (1969-2001)

Professor Emeritus of Finance & Quantitative Methods

**Arthur Bohart** (1976-2005)

Professor Emeritus of Psychology

**Charmayne Bohman** (1971-2004)

Professor Emeritus of Graduate Education

**Stephen A. Book** (1970-2001)

Professor Emeritus of Mathematics

**Martha Boughen** (2006-2019)

Lecturer Emeritus of School of Nursing

**Boice Bowman** (1994-2009)

Professor Emeritus of Kinesiology and Recreation

**David Bradfield** (1982-2016)

Professor Emeritus of Music

**Kaye Bragg** (2007-2016)

Professor of Political Science

B.A., 1974, Colorado State University; M.A., 1984, University of Denver; Ph.D., 1993 Colorado State University

**Joseph Braun** (1983-2006)

Professor Emeritus of Teacher Education

**David E. Brest** (1968-2000)

Professor Emeritus of Biology

**Jeffrey Broude** (1977-2007)

Professor Emeritus of University Library

**Frederic Brulois** (1985-2015)

Professor Emeritus of Mathematics

M.A., 1980, Stanford University; Ph.D., 1981, Stanford University

**Brynne Bryan** (2008-2023)

Lecturer Emeritus of Biology

B.S., 1989, Southern Arkansas University; M.S., 1995, University of North Texas; Ph.D., 2008, Universidad de Puerto Rico

**Edith Buchanan** (1972-1982)

Professor Emeritus of Education

## C

**Hansonia Caldwell** (1972-2006)

Professor Emeritus of Music

**James Cantor** (1999-2014)

Professor Emeritus of Teacher Education

**Mary Lou Cappel** (1985-2023)

Excellence in Service Award, 2013

Professor Emeritus of Kinesiology and Recreation

B.S., 1971, University of Missouri, Columbia; M.S., 1980, University of North Carolina, Chapel Hill; Ph.D., 1988, University of Southern California

**Muriel P. Carrison** (1969-1990)

Professor Emeritus of Graduate Education

**Carole Casten** (1982-2023)

Excellence in Service Award, 2014

Professor Emeritus of Kinesiology

B.A., 1972, Purdue University; M.S., 1975, Purdue University; Ph.D., 1983, University of Southern California

**Lyman Chaffee** (1969-2005)

Presidential Outstanding Professor Award, 1987 - CSU Board of Trustees

Professor Emeritus of Political Science

**Kathleen Chai** (2006-2019)

Professor Emeritus of School of Nursing

B.A., 1990, California State University Dominguez Hills; M.S., 1993 California State University

Dominguez Hills; Ph.D., 2006, Claremont Graduate University

**David Champion** (1969-2002)

Professor Emeritus of Music

**Chi-Lung Chang** (1983-2002)

Professor Emeritus of Mathematics

**Patricia Cherin** (2007-2013)

Professor Emeritus of Interdisciplinary Studies

**Lois W. Chi** (1966-1983)

Presidential Outstanding Professor Award, 1972; Presidential Outstanding Professor Award-Recipient of State Award, 1979

Professor Emeritus of Biology

**Evelyn Childress Brackeen** (1969-1986)

Lyle E. Gibson Distinguished Teacher Award, 1981

Professor Emeritus of Biology

**Ann Chlebicki** (1999-2014)

Professor Emeritus of Graduate Education

B.S., 1971, Boston University; M.S., 1972, Boston University; Ed.D., 1980, University of Southern California

**Judith J. Chodil** (1988-2002)

Professor Emeritus of Nursing

**Sharon Chun Wetterau** (2013-2023)

Lecturer Emeritus of Social Work

B.A., 1990, University of California, Los Angeles; M.S.W., 1993, University of California, Los Angeles

**David A. Churchman** (1976-2003)

Professor Emeritus of Behavioral Science

**Leon S. Cohen** (1982-2002)

Professor Emeritus of Interdisciplinary Studies

**Joel Colbert** (1988-2003)

Professor Emeritus of Teacher Education

**Gary Branson Colboth** (1970-1994)

Professor of Public Education

**Maximiliano Contreras** (1980-2013)

Professor Emeritus of Graduate Education

B.A., 1965, University of New Mexico; M.A., 1972, Chapman College; Ed.D., 1978, University of Wyoming

**Lenora G. Cook** (1984-2001)

Professor Emeritus of Teacher Education

**Lynne H. Cook** (2006-2010)

Professor Emeritus of Teacher Education

**James L. Cooper** (1974-2009)

Lyle E. Gibson Distinguished Teacher Award, 1991; Presidential Outstanding Professor Award, 2005

Professor of Emeritus of Graduate Education

**Enrique Cortes** (1974-1993)

Professor Emeritus of History

**Mary Cruise** (1988-2001)

Professor Emeritus of School of Nursing

**Jose Cuervo** (1975-2001)

Professor Emeritus of Foreign Languages

**Jeanne Curran** (1972-2001)

Professor Emeritus of Sociology

## D

**Elizabeth Dales** (2000-2014)

Librarian Emeritus of University Library

B.A., 1966, United College, University of Manitoba; M.S., 1968, University of Winnipeg; M.L.S., 1996, Emporia State University; M.A., 2006, California State University, Dominguez Hills

**Ramona Davis** (1979-2019)

Professor Emeritus of Psychology

B.A., 1975, Lincoln University; M.A., 1977, University of Southern California; Ph.D., 1980, University of Southern California

**John Davis** (1998-2020)

Professor Emeritus of Teacher Education

B.A., 1986, Howard University, Washington, D.C.; M.A., 1992, California State University, Dominguez Hills; Ph.D., 1999, University of Southern California

**William DeLuca** (1991-2024)

Professor Emeritus of Theatre and Dance

B.S., 1972, Villanova University; M.A., 1974, Villanova University; M.F.A., 1979, Yale University

**Peter Desberg** (1970-2009)

Lyle E. Gibson Distinguished Teacher Award, 1995; Presidential Outstanding Professor Award, 2009

Professor Emeritus of Graduate Education

**L. Danette Dobyns** (1972-1994)

Lyle E. Gibson Distinguished Teacher Award, 1984

Professor Emeritus of Chemistry

**Miguel Dominguez** (1989-2019)

Lyle E. Gibson Distinguished Teacher Award, 1993

Professor Emeritus of Modern Languages

B.A., 1970, California State University, Los Angeles; M.A., 1973, Brown University; Ph.D., 1983, University of California, Los Angeles

**Myrna Donahoe** (1989-2003)

Professor Emeritus of Interdisciplinary Studies

**Jaime Dote-Kwan** (2003-2012)

Professor Emeritus of Teacher Education

B.A., 1976, California State University, Los Angeles; M.A., 1979, California State University, Los Angeles; Ph.D., 1991, University of California, Los Angeles

**Joanna Dunklee** (1975-2012)  
Librarian Emeritus of University Library

**Michael Durand** (1990-2019)  
Professor Emeritus of Physics  
B.S., 1971, University of Alberta; M. Eng., 1978, University of Alberta; Ph.D., 1979, Cornell University

**James A. Durham** (1979-1996)  
Professor Emeritus of Instructional Media

## E

**Catherine Earl** (2014-2024)  
Professor Emeritus of School of Nursing  
B.S.N., 1984, University of Michigan; MSN, 1990, Grand Valley State University; Ph.D., 1998, Western Michigan State

**Amer El-Ahraf** (1990-1998)  
Professor Emeritus of Health Science

**Peter D. Ellis** (1962-1987)  
Professor Emeritus of Teacher Education

**Sally Etcheto** (1974-2016)  
Professor Emeritus of Music

## F

**Cheryl Fantuzzi** (2006-2022)  
Lecturer Emeritus of English  
B.A., 1987, University of California, Los Angeles; M.A., 1989, University of California, Los Angeles; Ph.D., 1996, University of California, Los Angeles

**Larry S. Ferrario** (1996-2006)  
Professor Emeritus of English

**Bryan A. Feuer** (2006-2014)  
Professor Emeritus of Humanities

**Lois Feuer** (1972-2008)  
Professor Emeritus of English

**Robert B. Fischer** (1963-1979)  
Professor Emeritus of Chemistry

**Alan M. Fisher** (1975-2008)  
Professor Emeritus of Political Science and Economics

**Dorothy Fisher** (2010-2015)  
Professor Emeritus of Information Systems & Operations Management

**Farah Lee Fisher** (1991-2016)  
Lyle E. Gibson Distinguished Teacher Award, 1993; Presidential Outstanding Professor Award, 2000  
Professor Emeritus of Teacher Education  
B.A., 1969, Pacific Lutheran University; M.S., 1979, California State University, Long Beach; Ed.D., 1986, University of Southern California

**Marianne Frank** (1970-2002)  
Professor Emeritus of Physical Education

**Rodney Freed** (1975-2012)  
Professor Emeritus of Accounting, Finance and Economics  
B.A., 1972, University of Virginia; Ph.D., 1977, University of Virginia; M.A., 1985, University of California, Los Angeles

**Raoul Freeman** (1984-2009)  
Professor Emeritus of Information Systems & Operations Management

**Leena Furtado** (1998-2020)

Professor Emeritus of Graduate Education

B.A., 1972, Calcutta University; M.A., 1974, Jadavpur University; B.Ed., 1976, Calcutta University; Ph.D., 1996, Texas A&amp;M University

**Munashe Furusa** (2000-2014)

Professor Emeritus of Africana Studies

**Jitsuo Furusawa** (1994-2004)

Professor Emeritus of Graduate Education

**G****Kenneth Ganezer** (1990-2017)

Professor Emeritus of Physics

B.A., 1974, University of California, Berkeley; M.S., 1976, University of California, Los Angeles; Ph.D., 1983, University of California Los Angeles

**Eugene Garcia** (1972-1992)

Professor Emeritus of Chemistry

**Anne Garrett** (2006-2019)

Lecturer Emeritus of Interdisciplinary Studies

**Janine Lynn Gasco** (2001-2022)

Excellence in Research, Scholarship and Creative Activity Award, 2011

Professor Emeritus of Anthropology

B.A., 1977, University of California, Santa Barbara; M.A., 1982, University of California, Santa Barbara;

Ph.D., 1987, University of California, Santa Barbara

**Ken Gash** (1967-2002)

Professor Emeritus of Chemistry

**Lila B. Geller** (1969-1997)

Professor Emeritus of English

**Suzanne Gemmell** (1974-1995)

Lyle E. Gibson Distinguished Teacher Award, 1994

Professor Emeritus of Teacher Education

**Robert Giacosis** (1973-2003)

Professor Emeritus of Biology

**John R. Goders** (1972-2005)

Professor Emeritus of Art

**Richard Gordon** (1980-2011)

Professor Emeritus of Teacher Education

**Margaret Faulwell Gordon** (1988-2012)

Professor Emeritus of Anthropology

**William E. Gould** (1969-1998)

Professor Emeritus of Mathematics

**Mekada Graham** (2008-2018)

Professor Emeritus of Social Work

B.A., 1981, Middlesex University; M.A., 1997, Middlesex University; Ph.D., 2001, University of Hertfordshire

**Lawrence Gray** (1972-2008)

Professor Emeritus in Student Affairs

**Lisa O. Gray-Shellberg** (1967-2003)

Lyle E. Gibson Distinguished Teacher Award, 1986; Presidential Outstanding Professor Award, 2001

Professor Emeritus of Psychology

**Judson A. Grenier** (1966-1992)

Lyle E. Gibson Distinguished Teacher Award, 1974

Professor Emeritus of History

**Linda Groff** (1972-2007)

Professor Emeritus of Political Science and Economics

**Carol Guze** (1967-2001)

Professor Emeritus of Biology

## H

**William M. Hagan** (1967-1998)

Professor Emeritus of Philosophy

**James G. Harris** (1969-2000)

Professor Emeritus of Economics

**Arthur L. Harshman** (1971-2000)

Professor Emeritus of Art

**Garry Hart** (1970-2007)

Professor Emeritus of Mathematics

**Aaron H. Hass** (1974-2008)

Professor Emeritus of Psychology

**Donald Teruo Hata** (1970-2002)

Lyle E. Gibson Distinguished Teacher Award, 1977; Presidential Outstanding Professor Award, 1990-Recipient of State Award

Professor Emeritus of History

**Rodrick Hay** (1996-2019)

Professor Emeritus of Earth Science and Geography

B.S., 1978, Northern Arizona University; M.B.A., 1982, University of Santa Clara; M.A., 1991, University of Arizona; Ph.D., 1996, University of Arizona

**Diane Hembacher** (1997-2013)

Professor Emeritus of Teacher Education

B.A., 1974, University of California, Los Angeles; M.A., 1981, California State University, Los Angeles; Ph.D., 1993, University of California, Los Angeles

**George Martin Heneghan** (1967-1992)

Lyle E. Gibson Distinguished Teacher Award, 1975

Professor Emeritus of Political Science

**Jackson N. Henry** (1975-2002)

Professor Emeritus of Mathematics

**Diane Henschel** (1971-2005)

Professor Emeritus of Psychology

**Rex Heuschkel** (1986-2010)

Professor Emeritus of Theatre and Dance

**Gilah Hirsch** (1973-2015)

Professor Emeritus of Art and Design

B.A., 1967, University of California, Berkeley; M.F.A., 1970, University of California, Los Angeles

**Charles Hohm** (2004-2010)

Professor Emeritus of Sociology

**Marjorie Holden** (1976-1992)

Professor Emeritus of Graduate Education

**Nancy Hollander** (1972-2004)

Professor Emeritus of History

**Howard Holter** (1970-2007)

Professor Emeritus of History

**Ellen Hope Kearns** (1990-2007)



Professor Emeritus of Health Sciences

**Fumiko Hosokawa** (1972-2012)

Professor Emeritus of Sociology

B.A., 1969, California State College; M.A., 1971, University of California, Los Angeles; Ph.D., 1972, University of California, Los Angeles

**Richard B. Hovard** (2005-2006)

Professor Emeritus of Sociology

**Chi-Hua Wu Hsiung** (1972-1992)

Lyle E. Gibson Distinguished Teacher Award, 1976

Professor of Health Sciences

**Susan Huniu** (2006-2023)

Excellence in Service Award, 2022

Lecturer Emeritus of Mathematics

B.A., 1987, California State University, Dominguez Hills;

**Gail F. Hunt** (1976-2003)

Professor Emeritus of University Library

**James F. Hunt** (1991-2003)

Professor Emeritus of University Library

**Lisa A. Hutton** (2002-2022)

Professor Emeritus of Liberal Studies

B.A., 1985, University of California, Los Angeles; M.Ed., 1986, University of California, Los Angeles; Ed.D. 2002, University of California, Los Angeles

## I

**Laura Inouye** (1988-2006)

Professor Emeritus of School of Nursing

**Louise H. Ivers** (1971-2008)

Professor Emeritus of Art

## J

**Judith M. Jackson** (1981-1998)

Professor Emeritus of Graduate Education

**Cheryl Jackson-Harris** (1990-2017)

Professor Emeritus of Clinical Science

B.S., 1968, Xavier University; M.S., 1982, California State University, Dominguez Hills

**Catherine Jacobs** (1990-2016)

Professor Emeritus of Interdisciplinary Studies

**James Jeffers** (2007-2016)

Professor Emeritus of History

B.A., 1977, Biola University; M.A., 1985, University of California, Irvine; Ph.D., 1988, University of California, Irvine

**Steven Jenner** (1991-2013)

Professor Emeritus of Management and Marketing

**George Jennings** (1982-2016)

Professor Emeritus of Mathematics

**Cynthia Johnson** (1990-2018)

Professor Emeritus of School of Nursing

**Joyce Johnson** (1972-2002)

Lyle E. Gibson Distinguished Teacher Award, 1988

Professor Emeritus of English

**M. Kathleen Johnston** (1988-2003)

Professor Emeritus of School of Nursing

**Susan Johnston** (1974-2009)

Presidential Outstanding Professor Award, 2002

Professor Emeritus of Teacher Education

**William B. Jones** (1970-1999)

Professor Emeritus of Computer Science

**Violet L. Jordain** (1968-1995)

Lyle E. Gibson Distinguished Teacher Award, 1983

Professor Emeritus of English

**Ellen Junn** (2014-2016)

Professor of Psychology

## K

**Patricia L. Kalayjian** (2005-2017)

Professor Emeritus of Interdisciplinary Studies

B.A., 1969, Pomona College; M.A., 1985, Duke University; Ph.D., 1991, Duke University

**Gene A. Kalland** (1966-1996)

Professor Emeritus of Biology

**Mimi Kalland-Warshaw** (1972-1992)

Professor Emeritus of Teacher Education

**Jay Kaplan** (1971-2013)

Professor Emeritus of Political Science

**David J. Karber** (1973-2002)

Lyle E. Gibson Distinguished Teacher Award, 2000

Professor Emeritus of Public Administration

**Abraham Kidane** (1971-2006)

Professor Emeritus of Management

**Getachew Kidane** (1977-2012)

Professor Emeritus of Biology

**Jack William Kitson** (1974-1998)

Professor Emeritus of Marketing

**Kazimierz Kowalski** (1988-2013)

Lyle E. Gibson Distinguished Teacher Award, 1998

Professor Emeritus of Computer Science

**Eunice Lynn Krinsky** (1982-2004)

Lyle E. Gibson Distinguished Teacher Award, 1992; Presidential Outstanding Professor Award, 1994

Professor Emeritus of Mathematics

**Pamela Krochalk** (1990-2018)

Professor Emeritus of Health Sciences

B.A., 1965, California State University, Long Beach; M.A., 1968, University of California, Los Angeles; Dr.PH., 1980, University of California, Los Angeles

**Ken Kuykendall** (0000-1998)

Professor Emeritus of Anthropology

## L

**John J. LaCorte** (1972-2002)

Professor Emeritus of Philosophy

**Antonia Issa Lahera** (2012-2019)

Associate Professor Emeritus Graduate Education

B.A., 1986, California State University, Long Beach; M.A., 1996, United States International University; Ed.D., 2003, University of Southern California

**Shirley Lal** (1999-2009)

Professor Emeritus of Teacher Education

**Thomas Landefeld** (1996-2018)

Professor Emeritus of Biology

B.A., 1969, Marietta College; M.S., 1971, University of Wisconsin, Madison; Ph.D., 1973, University of Wisconsin, Madison

**Noreen Larinde** (1970-2001)

Professor Emeritus of Art

**Lida Latifzadeh** (2016-2024)

Lecturer Emeritus in the Department of Chemistry and Biochemistry

B.S., 1980, University of Tehran; M.S., 1990, University of Arizona; Ph.D., 1996, Arizona State University

**Frances Lauerhass** (1969-2003)

Professor Emeritus of Foreign Languages

**H. Keith Lee** (1969-2002)

Professor Emeritus of Physics

**Rita Lee** (1991-2012)

Professor Emeritus of Graduate Education

**W. Leonard Lee** (1985-2006)

Professor Emeritus of Communications

**Yvonne V. Lenard** (1968-1983)

Presidential Outstanding Professor Award, 1974

Professor Emeritus of Foreign Languages

**G. Keong Leong** (2014-2020)

Professor Emeritus of Information Systems & Operations Management

B.Eng., 1973, University of Malaya; MBA, 1984, University of South Carolina; Ph.D., 1987, University of South Carolina

**Gary Levine** (1983-2001)

Professor Emeritus of Interdisciplinary Studies

**Donald Lewis** (1970-2008)

Professor Emeritus of Philosophy

**Judith Lewis** (1987-2000)

Professor Emeritus of School of Nursing

**Virginia Long** (1983-2008)

Professor Emeritus of Student Health & Psychological Services

**Carol Lopilato** (1974-2001)

Professor Emeritus of Finance & Quantitative Methods

**James L. Lyle** (1972-2004)

Lyle E. Gibson Distinguished Teacher Award, 1985

Professor Emeritus of Chemistry

## M

**Donald A. MacPhee** (1964-1985)

Professor Emeritus of History

**Nada Mach** (1984-2011)

Professor Emeritus of Teacher Education

**Mitch Maki** (2005-2016)

Professor of Social Work

B.S., 1982, University of Southern California; M.S.W., 1984, University of Southern California; Ph.D., 1993, University of Southern California

**Ricahrd B. Malamud** (1990-2017)

Lyle E. Gibson Distinguished Teacher Award, 2000; Presidential Outstanding Professor Award, 2014

Professor Emeritus of Account, Finance and Law

B.A., 1974, University of California, Los Angeles; J.D., 1976, Loyola Law School, Los Angeles; LL.M., 1979, New York University Graduate Law School

**Wayne Martin** (1971-2005)

Lyle E. Gibson Distinguished Teacher Award, 1997

Professor Emeritus of Political Science

**Anthony A. Mastor** (1978-1988)

Professor of Finance & Quantitative Methods

**Francis McCarthy** (1973-2008)

Professor Emeritus of Biology

**Joseph F. McCloskey** (1980-1987)

Professor Emeritus of Finance & Quantitative Methods

**Cynthia J. McDermott-LaCorte** (1990-2004)

Lyle E. Gibson Distinguished Teacher Award, 2001

Professor Emeritus of Teacher Education

**John McGowan** (0000-2004)

Professor Emeritus of Teacher Education

**Irene McKenna** (1972-2002)

Professor Emeritus of English

**Cheryl McKnight** (2007-2023)

Lecturer Emeritus of SLICE

B.A., 2001, California State University, Dominguez Hills, M.A., 2006, California State University, Dominguez Hills

**Brendan A. McNulty** (1997-2024)

Excellence in Research, Scholarship and Creative Activity Award, 2006

Professor Emeritus of Earth Sciences

B.S., 1987, San Diego State University; M.S., 1990, San Diego State University; Ph.D., 1994, University of California, Santa Cruz

**Suzanne Medina** (1991-2007)

Lyle E. Gibson Distinguished Teacher Award, 2005

Professor Emeritus of Graduate Education

**Caron Mellblom** (1995-2017)

Excellence in Service Award, 2006

Professor Emeritus of Teacher Education

B.A., 1979, California State University, Fullerton; M.S., 1981, University of Wyoming; Ed.D., 1992, University of Northern Colorado

**Frank B. Miles** (1972-2001)

Professor Emeritus of Mathematics

**M. Milo Milfs** (1962-1985)

Professor Emeritus of Psychology

**Herbert Milgrim** (1972-2004)

Professor Emeritus of Finance & Quantitative Methods

**Robert Bryant Mills** (1983-2000)

Professor Emeritus of Management

**Burckhard Mohr** (1970-2014)

Professor Emeritus of English

B.A., 1967, University of Berkeley; Ph.D., 1973, University of California, Berkeley

**Jerry D. Moore** (1991-2024)

Presidential Outstanding Professor Award, 2003; Excellence in Research, Scholarship and Creative Activity Award, 2008

Professor Emeritus of Anthropology

B.A., 1977, California State University, Stanislaus; M.A., 1980, University of California, Santa Barbara; Ph.D., 1985, University of California, Santa Barbara

**Sean Morgan** (1994-2005)  
Professor Emeritus of Graduate Education

**George P. Morris** (1973-1999)  
Professor Emeritus of Marketing

**Naomi Moy** (1972-2012)  
Excellence in Service Award, 2013  
Librarian Emeritus of University Library

## N

**David Nasatir** (1976-1994)  
Professor Emeritus of Behavioral Science

**Harvey Nash** (1968-1988)  
Professor Emeritus of Psychology

**Mazin K. Nashif** (1973-2001)  
Professor Emeritus of Finance & Quantitative Methods

**Susan Needham** (1999-2024)  
Professor Emeritus of Anthropology  
B.A., 1989, California State University, Long Beach; M.A., 1996, University of California, Los Angeles; Ph.D., 1996, University of California, Los Angeles

**Richard G. Nehrbass** (1975-2000)  
Professor Emeritus of Management

**Deandra L. Nelson** (2002-2020)  
Professor Emeritus of Teacher Education  
B.A., 1976, California State University, Northridge; M.Ed., 1997, California State University, Long Beach; Ed.D., 2001, University of Southern California

**Janey Niederman** (1988-2015)  
Professor Emeritus of Student Health & Psychological Services  
B.A., 1974, University of Rochester; B.A., 1978, State University of New York, Stony Brook; M.A., 1981, University of Texas, Austin; Ph.D., 1983, University of Texas, Austin

**Anthony Normore** (2007-2017)  
Professor Emeritus of Graduate Education  
B.A., 1982, Memorial University of Newfoundland; B.Ed., 1983, Memorial University of Newfoundland; M.A., 1997, Université Laval; Ph.D., 2001, University of Toronto

## O

**Kathleen F. O'Connor** (1991-2007)  
Professor Emeritus of School of Nursing

**Trina O'Quinn** (2005-2015)  
Professor Emeritus of Marital & Family Therapy

**Sandra Orellana** (1973-2005)  
Professor Emeritus of Anthropology

## P

**Marie Palladini** (2007-2024)  
Lyle E. Gibson Distinguished Teacher Award, 2014  
Professor Emeritus of Criminal Justice Administration  
B.A., 1974, Indiana University of Pennsylvania; J.D., 1984, Southwestern University School of Law

**Beverly B. Palmer** (1973-2001)  
Presidential Outstanding Professor Award, 1995  
Professor Emeritus of Psychology

**Richard L. Palmer** (1970-2008)

Professor Emeritus of Political Science and Economics

**Sofia Papatheodorou** (1985-2014)

Professor Emeritus of Chemistry

**George Pardon** (1999-2008)

Vice President Emeritus

**Sandra Parham** (1999-2014)

Librarian Emeritus of University Library

**Ruth A. Pease** (1988-1999)

Professor Emeritus of School of Nursing

**Robert Pestolesi** (1978-1983)

Professor Emeritus of Physical Education & Recreation

**Claudia Peyton** (2002-2024)

Associate Professor of Occupational Therapy

B.S., 1980, Loma Linda University; M.S., 1985, University of Southern California; Ph.D., 2002, The University of Nebraska-Lincoln

**Laura Phillips** (1973-2007)

Professor Emeritus of Biology

**Linda P. Pomerantz** (1972-2004)

Professor Emeritus of History

**James Poole** (1973-1995)

Professor Emeritus of Physical Education, Recreation and Dance

**Priscilla Porter** (1991-1998)

Associate Professor Emeritus of Teacher Education

**Laurence Press** (1986-2009)

Lyle E. Gibson Distinguished Teacher Award, 1990; Presidential Outstanding Professor Award, 1993

Professor Emeritus of Information Systems & Operations Management

**Eleanor B. Simon Price** (1970-1987)

Professor Emeritus of Psychology

**Lihung Pu** (2002-2023)

Professor Emeritus of Chemistry and Biochemistry

B.S., 1995, University of California, Davis; Ph.D., 2001, University of California, Davis

## Q

**John C. Quicker** (1970-2007)

Professor Emeritus of Sociology

## R

**David B. Rankin** (1966-1992)

Lyle E. Gibson Distinguished Teacher Award, 1984; Presidential Outstanding Professor Award, 1985

Professor Emeritus of English

**Sharon Raphael** (1970-2005)

Professor Emeritus of Sociology

**Abe C. Ravitz** (1966-1986)

Presidential Outstanding Professor Award, 1971

Professor Emeritus of English

**Doris Ressler** (2007-2024)

Professor Emeritus of Theatre and Dance

B.A., 1982, Columbia College; M.F.A., 1988, Smith College

**Fahimeh Rezayat (1989-2017)**

Lyle E. Gibson Distinguished Teacher Award, 2015

Professor Emeritus of Information Systems & Operations Management

B.S., 1970, Tehran University; M.S., 1980, M.S., 1981, Western Michigan University; Ph.D., 1987, University of Virginia, Charlottesville

**A. Terry Richardson (1999-2016)**

Professor Emeritus of Graduate Education

B.S., 1977, California State University, Hayward; M.A., 1979,

Antioch University; Ed.D., 1987, University of San Francisco; M.A., 1996, University of California, Los Angeles

**Rhody Ringis (1973-1990)**

Professor Emeritus of Teacher Education

**Patricia Riple (1984-2004)**

Professor of Health Center- Counseling Services

**Steve R. Riskin (1970-2004)**

Lyle E. Gibson Distinguished Teacher Award, 1983

Professor Emeritus of Sociology

**Christie Robert (1970-2003)**

Professor Emeritus of Sociology

**John Roberts (1985-2006)**

Professor Emeritus of Biology

**Pamela Robinson (2006-2022)**

Lecturer Emeritus of Education

B.A., 1991, California State University, Dominguez Hills; M.A., 1994, California State University, Fullerton; Ed.D, 2006, University of Southern California

**Laura Robles (1975-2012)**

Lyle E. Gibson Distinguished Teacher Award, 1980; Presidential Outstanding Professor Award, 1986, 1988

Professor Emeritus of Biology

B.S., 1968, San Diego State University; M.S., 1971, San Diego State University; Ph.D., 1975, University of California, Santa Barbara

**Monica Rosas-Baines (2001-2023)**

Emeritus of Student Psychological Services

B.A., 1994, Loyola Marymount University; M.A., 1997, California School of Professional Psychology;

Ph.D., 1999, California School of Professional Psychology

**Larry Rosen (1976-2014)**

Presidential Outstanding Professor Award, 1989, 1998; Lyle E. Gibson Distinguished Teacher Award, 1997; Excellence in Research, Scholarship and Creative Activity Award, 2009

Professor Emeritus of Psychology

**Ernest Rosenthal (1973-1984)**

Professor Emeritus of Art

**Alan Ryave (1969-2004)**

Professor Emeritus of Sociology

## S

**David Safer (1975-1989)**

Professor Emeritus of Communications

**Porfirio Sanchez (1970-1996)**

Lyle E. Gibson Distinguished Teacher, 1976; Presidential Outstanding Professor Award, 1978

Professor Emeritus of Foreign Languages

**Ephriam Sando (1967-1999)**

Professor Emeritus of English

**Lilia Sarmiento (2004-2019)**

Professor Emeritus of Teacher Education

M.A., 1985, California State University, Los Angeles; M.A., 1988, California State University, Los Angeles; Ph.D., 2003, University of Southern California

**Ralph Saunders** (1998-2018)

Associate Professor Emeritus of Earth Science and Geography

B.A., 1984, Northwestern University; M.A., 1988, University of Illinois-Chicago; Ph.D., 1997, University of Arizona

**Gary Sayed** (2014-2019)

Professor of Health Sciences

**Sue Schaar** (2001-2011)

Professor Emeritus of Teacher Education

**Ira Schoenwald** (1991-2004)

Professor Emeritus of Public Administration

**Dema Scott** (0000-1997)

**Oliver Seely** (1968-2006)

Professor Emeritus of Chemistry

**Ann Selmi** (2005-2018)

Professor Emeritus of Special Education

B.A., 1972, Santa Clara University; M.Ed., 1981, Boston College; Ph.D., 1990, University of Southern California

**Michael R. Shafer** (1969-2003)

Lyle E. Gibson Distinguished Teacher Award, 1986

Professor Emeritus of English

**Carole Shea** (2000-2010)

Professor Emeritus of School of Nursing

**Fred M. Shima** (1972-1998)

Professor Emeritus of Psychology

**Eiichi Shimomisse** (1971-2001)

Professor Emeritus of Philosophy

**David R. Sigurdson** (1972-2000)

Professor Emeritus of Earth Sciences

**Karlton D. Skindrud** (1972-2001)

Professor Emeritus of Graduate Education

**Lyle E. Smith** (1970-2004)

Professor Emeritus of English

**Carol Snarr** (1992-2001)

Professor Emeritus of School of Nursing

**Stanley R. Stanley R.** (1977-1991)

Professor Emeritus of Accounting and Law

**Frances J. Steiner** (1967-2000)

Presidential Outstanding Professor Award, 1991

Professor Emeritus of Music

**Gary Sterling** (2006-2022)

Lecturer Emeritus of Science, Math, and Technology

B.A., 1974, University of California, Los Angeles; M.A., 1978, California State University, Fullerton; M.A., 1987, Golden Gate University

**Frank A. Stricker** (1972-2004)

Professor Emeritus of History

**Franklin Strier** (1974-2008)

Presidential Outstanding Professor Award, 1997

Professor Emeritus of Accounting and Finance

**Marek Suchenek** (1990-2019)

Professor Emeritus of Computer Science



M.S., 1973, Warsaw Technical University; D.Sc., 1979, Warsaw Technical University

**James Sudalnik** (1980-2010)  
Professor Emeritus of Communications

**Marilyn Sutton** (1973-2002)  
Lyle E. Gibson Distinguished Teacher Award, 1980  
Professor Emeritus of English

## T

**Kathleen Taira** (1987-2005)  
Professor Emeritus of Teacher Education

**Judson H. Taylor** (1970-1992)  
Professor Emeritus of Graduate Education

**John Thomlinson** (2005-2019)  
Professor Emeritus of Biology  
B.A., 1976, University of Cambridge; M.A., 1980, University of Cambridge; M.S. 1979, University of London; Ph.D., 1993, University of North Texas

**Judith L. Todd** (1975-2004)  
Professor Emeritus of Psychology

**Kimberly Trimble** (1991-2019)  
Professor Emeritus of Teacher Education  
B.A., 1974, DePauw University; M.A.T., 1978, Brown University; Ed.D., 1987, University of Massachusetts

**Carol Tubbs** (1982-2012)  
Professor Emeritus of Theatre and Dance

**Avrum Marco Turk** (2002-2010)  
Professor Emeritus of Negotiation, Conflict Resolution & Peacebuilding

**Rich Turner** (1988-2006)  
Professor Emeritus of Communications

## U

**Clemet Udeze** (1970-2006)  
Professor Emeritus of History

**Ricardo Ulivi** (1985-2012)  
Professor Emeritus of Accounting and Finance

## V

**Rudolph Vanterpool** (1976-2012)  
Professor Emeritus of Philosophy

## W

**George Walker** (1976-1994)  
Professor Emeritus of Graduate Education

**Margaret Wallace** (1991-2002)  
Professor Emeritus of Nursing

**Luz C. Watts** (1988-2003)  
Professor Emeritus of Foreign Languages

**Jaime L. Webb-King** (1975-2004)  
Professor Emeritus of Earth Sciences

**Jo Ann Wegmann** (1988-2013)  
Professor Emeritus of School of Nursing

**Sydell Weiner** (1984-2011)

Lyle E. Gibson Distinguished Teacher Award, 1989  
Professor Emeritus of Theatre and Dance

**Rose Welch** (1990-2012)  
Professor Emeritus of School of Nursing

**Walter Wells** (1967-1998)  
Professor Emeritus of English

**Vanessa Wenzell** (1991-2018)  
Professor Emeritus of English  
B.A., 1972, Stanford; M.A., 1975, Berkeley; M.A., 1982, University of California, Los Angeles; Ph.D., 1987, University of California, Los Angeles

**Edward Whetmore** (1993-2012)  
Professor Emeritus of Communications

**Elizabeth Annie Whetmore Wilson** (2009-2022)  
Associate Professor Emeritus of Political Science and Economics  
B.S., 2001, University of Texas, Tyler; Ph.D. 2007, Texas A&M University

**Andrea White** (1997-2009)  
Professor Emeritus of English

**Sidney Glen White** (1969-1996)  
Professor Emeritus of Art

**Connie White-Betz** (1989-2013)  
Professor Emeritus of Counseling Psychologist, Student Development  
B.A., 1982, California State University, Dominguez Hills;  
M.A., 1984, California State University, Dominguez Hills; Ph.D., 1988, University of Southern California

**George R. Wiger** (1976-2004)  
Lyle E. Gibson Distinguished Teacher Award, 2002  
Professor Emeritus of Chemistry

**Samuel L. Wiley** (1968-1997)  
Professor Emeritus of Physics

**William Wilk** (1968-2001)  
Professor Emeritus of Chemistry

**John R. Wilkins** (1990-2014)  
Professor Emeritus of Mathematics  
B.A., 1973, California State University, Los Angeles; M.A., 1978, California State University, Los Angeles; M.A., 1987, California State University, Los Angeles; M.S. 1991, California State University, Los Angeles; Ph.D., 1996, University of California, Los Angeles

**Selase Williams** (1994-2005)  
Professor Emeritus of English

**Karen Wilson** (2004-2019)  
Professor Emeritus of Psychology  
B.S., 1994, Queen's University; M.S., 1996, Howard University; Ph.D., 2000, Howard University

**Oliver W. Wilson** (1972-2008)  
Presidential Outstanding Professor Award, 2006  
Professor Emeritus of Political Science and Economics

**George R. Wing** (1988-2023)  
Lecturer Emeritus of Kinesiology  
B.A., 1977, California State University, Long Beach; M.S., 1982, California State University, Chico

**Diana E. Wolff** (1977-2000)  
Professor Emeritus of Teacher Education

**Wang Chang Wong** (1989-2024)  
Professor Emeritus of Information Systems and Operations Management

B.B.A., 1976, Chinese University of Hong Kong; M.S., 1979, University of California, Irvine; M.S., 1983, University of California, Irvine; Ph.D., 1991, University of California, Irvine

## Y

**Agnes Akiko Yamada** (1972-2002)

Professor Emeritus of English

**David H. Yanai** (1977-1996)

Emeritus Head Coach, Men's Basketball

**Burhan F. Yavas** (1981-2017)

Presidential Outstanding Professor Award, 1996

Professor Emeritus Account, Finance and Economics

B.A., 1973, Ankara University, Turkey; M.A., 1978, University of Southern California; Ph.D., 1983, University of Southern California

**Kosaku Yoshida** (1975-1999)

Lyle E. Gibson Distinguished Teacher Award, 1985

Professor Emeritus of Finance & Quantitative Methods

## Z

**Ben Zhou** (1999-2024)

Associate Professor Emeritus of Kinesiology and Recreation

B.A., 1979, Wuhan Institute of Physical Education; M.S., 1985, Beijing Institute of Physical Education; Ph.D., 1999, Brigham Young University, Hawaii

**Joanne Zitelli** (2000-2014)

Professor Emeritus of English

B.A., 1973, California State University, Long Beach; M.A., 1974, Occidental College; Ph.D., 1981, University of California, Irvine

**Cyril Zoerner** (1997-2021)

Lyle E. Gibson Distinguished Teacher Award, 2012

Professor Emeritus of English

B.A., 1983, University of California, Irvine; M.A., 1994, University of California, Irvine; Ph.D., 1995, University of California, Irvine

**Ulrich de la Camp** (1966-1995)

Professor Emeritus of Chemistry

## Emeriti Staff

### A

**Patricia R Acone** (1979-2001)

University Advisement

**Edilberto C. Aguinaldo** (1989-2003)

Accounting Services

**Won Soon Ahn** (1988-1998)

Physical Plant

**Mahabub Alam** (1996-2021)

Assoc. Dir, Infrastructure Svcs

66400 - INFRASTRUCTURE SERVICES MGMT

**Donna Alderman** (1979-2015)

Admin Support Coord 12 Mo

23200 - GRADUATE EDUCATION

**Charles Alderson** (1988-2007)

Procurement

**Victoria Almeida** (1989-2010)

Instructional Support Asst II

26320 - FOREIGN LANGUAGE

**Jerry Alston** (2000-2005)

Extended Education

**Kathleen Andersen** (1988-2015)

Library Services Spec III  
21150 - LIBRARY-COLLECTION DEVELOPMENT

**Bernice Anderson** (1996-2004)

Physical Plant

**Cheryl Anderson** (1981-2021)

Admin Analyst/Spclst 12 Mo  
30220 - PARKING SERVICES

**Lynn Anderson** (1974-2008)

Information Technology

**Kathy Andrews** (1996-2009)

Admin Support Coord 12 Mo  
20120 - CENTER FOR TEACHING & LEARNING

**Wendy Anson** (1997-2008)

College of Extended & International Education

**Helen Anthony** (1987-1998)

College of Arts & Sciences

**Jose Arechiga** (2000-2005)

Physical Plant

**Jiles E. Austin** (1968-2002)

Physical Plant

**Roland Ayala** (2011-2023)

Facilities Maintenance Mech  
34100 - BUILDING MAINTENANCE

## B

**Mercedes O. Bacalso** (1989-2000)

Cashier's Office

**Anna L. Bacaria** (1988-2002)

Physical Plant

**Shearl Bailey** (1983-2000)

Human Resources Management

**Nicole Ballard** (1997-2017)

SSP II  
22420 - EXT ED-HUMANITIES PROGRAM

**Kim Barras** (1995-2015)

Administrative Analyst  
23000 - COE DEANS OFFICE

**Doris M. Battle** (1980-2000)

EOP

**Leslie Bayless** (1994-2022)

Administrative Support Coord  
26310 - ENGLISH

**Betty Blackman** (1986-1999)

Library

**Karen P Blank** (1990-2002)

## Extended Education

**Brenda Blow** (1975-2014)

Accountant II

22000 - EXTENDED ED EXECUTIVE MGMT

**Ben Bodnar** (2002-2021)

Info Tech Consultant 12 Mo

66310 - DESK SIDE SUPPORT

**Joyce Bonds** (2009-2021)

Exec Asst to VP, Student Affairs

40010 - STUDENT AFFAIRS OFFICE

**Prudencio Borgueta** (1986-2000)

Physical plant

**James Bouchard** (2001-2014)

Extended Ed Specialist II

22430 - EXT ED-ACAD PROG COMMUNITY REL

**Frank Boudreaux** (1994-1999)

Telecommunications &amp; Network Services

**Van Bridgeman** (1994-2015)

Assistant Director, MIDL

22450 - EXT ED-MEDIATED INSTGR/DIST LGN

**Cynthia Brown** (1990-2021)

Reprographics Specialist II

64200 - UNIVERSITY PRINTING SERVICES

**Diane Burrus** (1979-2006)

Student Affairs

**C****Albert Carpenter** (1980-2020)

Special Population Advisor

20510 - UNIVERSITY ADVISEMENT

**Karen Carpenter** (1987-2021)

Credential Analyst II

23040 - COE STUDENT SERVICES CTR

**Mark Cartwright** (1983-2018)

Parking Administrator

30220 - PARKING SERVICES

**Judith Case** (1999-2012)

Assistant to the Dean

25000 - BAP DEAN

**Thomas P. Casey** (1974-2001)

Student Development

**Raymond Chavez** (2010-2022)

Groundworker

34400 - GROUNDS MAINTENANCE

**Pierto Ciaramitaro** (1986-2007)

Physical Plant

**Margaret Coda-Messerle** (1981-2000)

Facilities Planning

**Roberta L. Coe** (1990-2001)

School of Health

**Joseph Coldren** (1996-2004)  
University Outreach

**Essie Colvin** (1979-1996)  
Physical Plant

**John W. Cooley** (1993-2002)  
Reproduction Services

**Dolores Cottom** (1981-1995)  
Financial Management

**Lillie Cottrell** (1976-2005)  
University Library

**Patricia Courtois** (2006-2021)  
Casual Worker  
3710 - FACILITIES PLANNING & CONSTRUCT

**Delores Craig** (1989-2007)  
Division Of Academic Affairs

**Delores Craig** (1989-1996)  
Social & Behavioral Sciences Graduate Program

**Theresa Cuarenta** (1980-2012)  
Admin Analyst/Spclst 12 Mo  
40410 - ATHLETICS-OTHER OPERS

**Carmen Cutshall** (1973-1989)  
Financial Management

## D

**Janet T. D'Agostino** (1991-2001)  
School of Business & Public Administration

**Elizabeth Davis** (1980-2014)  
Coord of Library Student Svcs  
21000 - LIBRARY ADMIN

**Joellen Davis** (1996-2013)  
Academic Resource Manager  
21000 - LIBRARY ADMIN

**Patricia Davis** (1970-2005)  
University Library

**Elizabeth DeSoto** (1995-2020)  
Asso. Dir Digital Transform  
66100 - DIGITAL TRANSFORMATION MGMT

**Joseph Dehlinger** (1990-2011)  
Receiving Services Supervisor  
33200 - PROCUREMENT-RECEIVING

**Domencio Del Re** (1980-2005)  
Physical Plant

**Ronald Deretich** (2008-2015)  
Custodian  
34200 - CUSTODIAL SERVICES

**Larry I. Dewey** (1969-2000)

## Theatre Arts

**Gregg Dexter** (1980-2007)  
Physical Plant

**Perla P. Diaz** (1973-2001)  
Student Development

**Constance D. Dixon** (1974-2000)  
Accounting Services

**Juan Dominguez** (1983-2007)  
Physical Plant

**Lucile Dowell** (1982-2004)  
Accounting

**Steven Doyle** (1980-2000)  
Human Resources Management

**Georgia V. Dukes** (1974-2001)  
Physical Plant

**Raymond Dukes** (1977-1999)  
Physical Plant

**E**

**Loretta Edwards** (1984-2007)  
Extended Education

**Jeanenne Evett** (1968-1983)  
Library

**F**

**Neil Farmer** (1994-2019)  
Psychology Technician  
27800 - PSYCHOLOGY

**Rodney Foster** (1996-2006)  
Human Resources Management

**Cornell Francois** (1977-2008)  
Physical Plant

**Aura-Elba Frickel** (1984-2004)  
Computer Science

**Clyde Fugami** (2001-2015)  
Pharmacist I 10 Mo  
40120- STUDENT HEALTH SERVICES

**G**

**Irina Gaal** (2001-2021)  
Chief, Medical Services  
40120 - STUDENT HEALTH SERVICES

**Jane Garrett** (1987-2005)  
Educational Opportunity program

**Anita Gash** (1979-1996)  
Admissions

**Kenneth B. Gash** (1979-2002)  
Institutional Research

**Bruce Gemmell** (1982-2007)  
Information Technology

**Carole Gerst** (1973-2008)  
Communications Department

**Jeanette Gimenez** (1986-2007)  
College of Extended Education

**Larry Gomes** (1997-2007)  
Admin Support Coord 12 Mo  
20160 - TESTING OFFICE

**Larry Gomes** (1997-2007)  
Testing Office

**Joseph Gomez** (1999-2006)  
Physical Plant

**Janet Grabert** (1981-2006)  
Theater

**E Granger** (1988-2022)  
Records Management Analyst  
33000 - PCLASS ADMINISTRATION

**Lawrence Gray** (1970-2008)  
Student Development

**Garret Greene** (1982-2012)  
Instructional Support Tech II  
27210 - CHEMISTRY

**Argelis Grimshaw** (1991-2007)  
Admissions

**Deborah Gritney** (1984-2010)  
Admin Analyst/Spclst 12 Mo  
25000 - BAP DEAN

## H

**Lawrence E. Haley** (1984-2001)  
Computer Services

**Eileen Hall** (1994-2012)  
SSP II  
25100 - ON-CAMPUS MBA

**Pamela Hammond** (1984-2005)  
University Communications & Public Affairs

**Ralph Hardin** (1983-1999)  
Physical Plant

**Dovie Harness** (2005-2021)  
Admin Analyst/Spclst 12 Mo  
32300 - GENERAL ACCOUNTING

**Paul Harris** (1984-2008)  
Information Technology

**Ruthie Harris** (1994-2008)  
Physical Plant

**Billie Harrison** (1983-1996)



## Physical Plant

**Arnold S. Haskin** (1972-2001)  
CAS Dean's Office

**Phyllis Hawkins** (1983-2004)  
Information Technology

**Mary Hayes** (1983-2004)  
Faculty Affairs

**Barbara Hazelleaf** (1977-1989)  
Department of Human Services

**John Hearn** (1985-2017)  
Instructional Support Asst III  
27400 - EARTH SCIENCES

**Juana Henry-Turner** (1981-2015)  
Info Tech Consultant  
63100 - HELP DESK

**Jeffrey Herrick** (2003-2022)  
Corporal  
30210 - UNIVERSITY POLICE OFFICER

**Nathlyn Hirohama** (1991-2022)  
Security Analyst  
66420 - SYSTEMS MGMT & MONITORING

**Evelyn Hitchcock** (1974-1996)  
Faculty Affairs

**June Homma** (1981-1996)  
Student Health Center

**Janie Hubbard** (1984-2007)  
Reprographics

**Kathleen Hughes** (1991-2006)  
Business Process Management

**Addie Hunt** (1991-2008)  
Information Technology

**Bich-Dao Huynh** (1989-2011)  
Operations Specialist 12 Mo  
39200 - ADMIN INFO SYSTEMS OFFICE

**Martha Hyde** (1980-2005)  
Records & Registration

**J**

**Crystal Jackson** (2005-2015)  
Accounting Technician  
32000 - ACCOUNTS PAYABLE

**Garry Jacobs** (1977-2015)  
Instructional Support Asst II  
22450 - EXT ED-MEDIATED INSTR/DIST LNG

**Peggy James** (1980-2006)  
Student Affairs

**Monica Jimenez** (1981-2012)  
Div Coord Staff Personnel

20030 - ACADEMIC RESOURCES MANAGEMENT

**Vernesta Johnson** (1984-2020)

Coordinator

33000 - PCLASS ADMINISTRATION

**Cathy Jones** (1999-2006)

College of Education

**Tony Jones** (1980-2021)

Custodial Mover

34220 - CUSTODIAL SERVICES - DAY SHIFT

**Cynthia Jones-Hunter** (1989-2021)

Program Coordinator

64200 - UNIVERSITY PRINTING SERVICES

**Jennie Jurado Rodriguez** (1989-2015)

SSP3

40800 - FINANCIAL AID ADMIN

## K

**Shokichi G. Kamio** (1982-2000)

Student Housing

**M. Reza Karkia** (1994-2000)

Academic Affairs

**Janice Kawaminami** (1977-2013)

Administrative Support Coord

26310 - ENGLISH

**Glenn Kinoshita** (1996-2008)

Physical Plant

**Virginia Knauss** (1984-2015)

Department Secretary

27210 - CHEMISTRY

**Lane Koluvek** (2001-2006)

Facilities Planning & Construction Management

**Georgina Korthe** (1972-2008)

Financial Aid Accounting

**Gary Kuwahara** (1981-2015)

University Photographer

52000 - COMMUNICATIONS & PUBLIC AFFAIR

## L

**Kathleen Lake** (1982-2006)

Admissions

**Ronald Lamb** (1970-2001)

Physical Plant

**Michael Lange** (1979-2001)

Physical Plant

**Dennis Lawson** (1994-2022)

Sergeant

30250 - UNIVERSITY POLICE SERGEANT

**Sharon LeBot** (1972-2007)

## Instructional Media Services

**Delores Lee** (1995-2021)  
Director, Financial Aid  
40800 - FINANCIAL AID ADMIN

**Tina Lee** (1985-2010)  
Administrator II  
38100 - H R - RECRUITMENT

**Estella Leonard** (1977-2006)  
Physical Plant

**Gary Lo** (1989-2017)  
Analyst/Programmer 12 Mo  
66100 - DATABASE & WEB SERVICES

**Margarita Lopez** (1987-2017)  
Department Secretary  
27500 - MATHEMATICS

**Michael Lordanich** (1976-2002)  
California State University Police

**Margaret Louderback** (1987-2000)  
School of Health Dean's Office

**Margaret Love-Nicholson** (1989-2011)  
Asset Management Clerk  
33200 - PROCUREMENT - RECEIVING

**Maxine Lowe** (1987-2007)  
Mail Services

**Christina Luu** (1998-2021)  
Administrator II-NE  
27000 - NBS DEAN'S OFFICE

## M

**Robert Mackay** (1989-1999),(2006-2009)  
College of Extended & International Education

**Cheryl Maddern** (1976-1999)  
Testing Office

**James Mangielli** (1981-1998)  
California State University Police

**Vincent Mangielli** (1984-2021)  
Logistics Clerk  
34700 - LOGISTICAL SERVICES

**Josephine Mangubat** (1989-2004)  
Records

**Limena Manu** (1979-2011)  
Accounting Technician II  
32120 - STDT FIN SVCS-COLLECTIONS

**Susan Martin** (1988-2008)  
Accountant I  
34000 - PHYSICAL PLANT ADMIN

**Ernesto Marzo** (1971-2008)  
Physical Plant

**Judy T. Matsushima** (1973-2001)  
Student Affairs

**Leatha May** (1987-2007)  
Records & Registration

**David McCulloch** (1990-2008)  
Administration & Finance

**Kathy McKelvie** (1982-2018)  
Admin Analyst/Spclst 10/12  
2610 - ART

**Karen K. McLoud** (1993-2001)  
Payroll Services

**Betty Melton** (1997-2005)  
Sociology

**Carolyn Mesias** (1994-2014)  
Library Accounting Technician  
21000 - LIBRARY ADMIN

**Edward Milecki** (1997-2015)  
Director, ALCP, CEIE  
22440 - AMERICAN LANGUAGE & CULT PROG

**Victoria Miller** (2007-2009)  
Admin Support Coord 12 Mo  
26140 - THEATRE ARTS

**Dawnnette Miyashiro** (1981-2006)  
College of Education

**Raymond Montoya** (1988-2021)  
Lead Plumber  
34100 - BUILDING MAINTENANCE

**Sheila Moore** (1986-2011)  
Accounting Services ASC  
32300 - GENERAL ACCOUNTING

**Janice Morrison** (1973-1995)  
President's Office

**Naomi Moy** (2018-2019)  
Librarian Assistant  
21160 - LIBRARY-REFERENCE DEPT

**Dolores Moyer** (1971-1989)  
Financial Management

**Masaharu Munosato** (1972-1983)  
Physical Plant

**Bill T. Muramotoc** ()  
Physical Plant

**Peter Murillo** (2005-2016)  
Reprographics Specialist II  
61100 - REPROGRAPICS SERVICES

**Jeannine A. Myers** (1975-2000)  
Theatre Arts

## N

**Miriam Neal** (1993-2021)  
Library Services Spec II  
21150 - COLLECTION SERVICES & SYSTEMS

**Tuan M. Nguyen** (1990-2000)  
Financial Aid

**Vicki Nishida** (2001-2013)  
SSP III 12 Mo  
40300 - CAREER CENTER

**Stanley Noguchi** (1976-2006)  
Biology Department

## O

**Jose Ochoa** (1988-2006)  
Physical Plant

**Ellen A. Ogata** (1975-2002)  
President's Office

**Kiyoko Okada** (1973-1988)  
Cashier's Office

**Ronald Okamoto** (1984-2007)  
Physical Plant

**Michael F. Old** (1972-2001)  
Physical Plant

**Dennis Olsen** (1999-2005)  
Physical Plant

**Richard Ontiveros** (1988-2004)  
Physical Plant

**Adriana Ortiz** (1984-2005)  
Reproduction Services

**Ann Overton** (1974-2012)  
Student Pers Tech, Financial Aids  
40800 - FINANCIAL AID ADMIN

## P

**Frank Paine** (1974-2008)  
Instructional Media Services

**George Pardon** (1999-2006)  
Administration & Finance

**Carolyn Parker-Hutchinson** (1999-2022)  
Credential Analyst II  
23040 - COE STUDENT SERVICES CTR

**Ann Pebbles** (1993-2004)  
Biology

**Jack L. Peconic** (1993-2004)  
Public Safety

**John Pierce** (1999-2014)  
Graphic Designer 12 Mo  
52000 - COMMUNICATIONS & PUBLIC AFFAIR

**John Pierce** (1999-2014)  
Graphic Designer II  
52000 - COMMUNICATIONS AND PUBLIC AFFAIRS

**Cymbeline Ponce** (2005-2021)  
Sergeant  
30250 - UNIVERSITY POLICE SERGEANT

**Elizabeth Powell** (2009-2015)  
Internship Specialist  
40300 - CAREER CENTER

**Charles W. Prough, Jr.** (1978-2001)  
Telecommunications & Network Services

## Q

**Nicholas Quaglio** (1979-1998)  
Equipment Services

**Roberta Quinte** (1973-2006)  
Instructional Media Services

## R

**Judith Radeke** (1999-2018)  
Administrative Assistant / Admin Support Coord 12 Mo  
23200 - GRADUATE EDUCATION

**Karl Ralph** (1989-2006)  
Student Affairs

**Kathleen Ramirez** (1991-2002)  
Payroll Services

**Teresa Ramirez-Garcia** (2005-2016)  
Custodian  
34220 - CUSTODIAL SERVICES - DAY SHIFT

**Keith Reynolds** (1974-2005)  
Mail Services

**Denise Richardson** (1998-2001)  
Admin Support Assistant 12 Mo  
42200 - REGISTRAR-RECORDS UNIT

**Dorothy Richardson** (1974-1990)  
Equipment Services

**Judith Richey** (1974-2002)  
Records & Registration

**Jean Riggs** (1972-1989)  
Physical Education

**Raymond Riznyk** (2002-2008)  
Administrator III  
20210 - RESEARCH AND FUNDED PROJECTS

**Raymond Riznyk** (2002-2008)  
Research & Funded Projects

**Pauline Robinson** (1979-2004)  
Accounting

**Jose Robledo** (1988-2021)  
Recycling Coordinator

## 34000 - FACILITIES SERVICES

**Alonzo Rodriguez** (1996-2006)  
Student Affairs

**Marian Rosser** (1966-1996)  
President's Office

**Estela Roxas** (1980-1996)  
Accounting Services

**Clifford Ruddick** (1990-2016)  
Accounts Payable Lead  
3200 - ACCOUNTS PAYABLE

**Dennis R. Ruffcorn** (1989-2004)  
Reproduction Services

**S**

**Charlene Sanders** (1986-2001)  
National Council for Black Studies

**Fred Sanders** (2001-2007)  
Physical Plant

**Mark Seigle** (2002-2014)  
Administrator III  
38100 - H R - RECRUITMENT

**Catherine Shaffer** (1969-1996)  
Financial Aid

**Kiran Sharma** (2003-2017)  
Registered Nurse II 12 Mo  
40120 - STUDENT HEALTH SERVICES

**Patricia Shelton** (1979-2020)  
Clinical Lab Technologist II  
40120 - STUDENT HEALTH SERVICES

**David R. Sigurdson** (1972-2000)

**Pilar Simi** (1981-2018)  
Outreach Officer  
40920 - OUTREACH OFFICER

**Patsy Simpson** (1980-1996)  
Student Housing

**Steven Slimp** (1989-2010)  
Central Plant Operations Mgr.  
34300 - ENGINEERING SERVICES

**Susan Sloan** (1989-2011)  
Chief of Police  
30200 - UNIVERSITY POLICE

**Jo Ann Smith** (2003-2009)  
Research & Funded Projects

**Marion Smith** (1986-2011)  
Web Policy Consultant  
39230 - ADMIN INFO SYSTEMS-ACAD IT

**Michael Smith** (1996-2016)  
Assistant Director

40900 - OUTREACH SERVICES

**Suzanne Smith** (1999-2006)  
Facilities Planning & Construction Management

**Sylvia Soos** (1970-2005)  
Information Technology

**Earl K. Spears** (1980-2002)  
Physical Plant

**Wallace S. Stepenske** (1970-2000)  
College of Arts & Sciences Dean's Office

**Henry Stillwell** (1983-2005)  
Physical Plant

**Lyda Stukes** (1990-2020)  
Assistant to the Dir PCLASS  
33000 - PCLASS ADMINISTRATION

**Isobel Suhr** (1989-2016)  
Assistant to Associate Dean  
26000 - COLLEGE OF ARTS AND HUMANITIES

**Deborah Sutton** (1974-2016)  
Assistant to the Director  
40120 - STUDENT HEALTH SERVICES

## T

**Lillian Tan** (1968-2001)  
Faculty Affairs

**Penny Tanaka** (1984-2019)  
Programmer Analyst  
66200 - ENTERPRISE APPS MGMT

**Donald Taylor** (1983-2014)  
Admin Support Assistant 12 Mo  
40140 - HEALTH SERVICES MED RECORDS

**Enola Thompson-Logan** (1976-2015)  
Support Services Administrator  
40100 - HEALTH CTR-COUNSELING SERVICES

**Wayne Timmerman** (2007-2022)  
Safety Ambassador  
30200 - UNIVERSITY POLICE

**Carole Todd-Caldwell** (1990-1995)  
School of Health

**Clyde Tokumoto** (1984-2015)  
Instructional Support Tech  
27000 - PHYSICS

**Emalene Trevor** (1989-2000)  
Accounting Services

**Bessie Trimble** (1978-1995)  
Physical Plant

**Elenoa Tufuga** (1983-2004)  
School of Science, Mathematics, & Technology

**June Turner** (1978-1995)



College of Arts & Sciences

**Mary Turner** (1985-2001)  
Library

**Frances Twillie** (1993-2017)  
Analyst/Programmer 12 Mo  
66200 - ENTERPRISE DEVELOPMENT

## U

**Joy Ujadughele** (1986-2006)  
Honors Program

**Joann Uno** (1983-2012)  
Department Secretary  
27800 - PSYCHOLOGY

**Frank Urquidez** (1977-2009)  
EOP

## V

**Petrus Van Hamersveld** (1986-2019)  
institutional Baseline Sr Anal  
67100 - INSTITUTIONAL RESEARCH MGMT

**Kimberly Van Leeuwen** (1998-2023)  
Associate Director, C&E  
54000 - UA CERMONIES & EVENTS

**Clifton Vandoren** (1977-2022)  
Custodial Mover  
34220 - CUSTODIAL SERVICES-DAY SHIFT

**Khanh Vanpetten** (1997-2016)  
Financial Manager, CNBS  
27000 - NBS DEAN'S OFFICE

**Maria L. Vazquez** (1980-2001)  
Outreach Services

**Ruth Kay Verner** (1990-2007)  
College of Education

**Svetco Vladich** (1982-2000)  
University Housing

## W

**Babette Wald** (2004-2015)  
Extension Program Coordinator  
22430 - EXT ED-ACAD PROG COMMUNITY REL

**Kathleen O'D. Walton** (2000-2005)  
President's Office

**John Wamsley** (2003-2015)  
Lead Electrician  
34100 - BUILDING MAINTENANCE

**Rochelle Watkins** (1995-2007)  
Health Services

**Patricia Wells** (1983-2016)  
Director, Student DisAbility Cnt

45000 - DISABLED STUDENTS SERVICES

**Barbara J. West** (1980-2002)  
Admissions & Records

**Barbara Williams** (1978-2007)  
Information Technology

**Linda Williby** (1981-2002)  
College of Arts & Sciences Dean's Office

**Catherine Wilson** (1994-2000)  
Diversity Issues & Employment Practices

**Thomas Wood** (1985-2013)  
Facilities Control Specialist  
34300 - ENGINEERING SERVICES

**James Woods** (1984-2008)  
Records & Registration

**Betty Wucetich** (1987-2008)  
Admissions

## Y

**Elaine Yamachika** (1969-1988)  
English Department

**K. Kay Youlin** (1987-2000)  
School of Dean's Office

# GENERAL EDUCATION

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In keeping with the mission of CSUDH to "provide education, scholarship and service that are, by design, accessible and transformative," our General Education (GE) program seeks to provide foundational learning opportunities that help students make deep connections and find personal meaning that propels them throughout their education and life beyond the university. The Association of American Colleges and Universities calls this a liberal education; or, one in which students are free "to seek after the truth unencumbered by dogma, ideology, or preconceived notions." Additionally, one with a liberal education can be "both broad-and open-minded, and is, therefore, less susceptible to manipulation or prejudice." (AAC&U, 2020) A General Education program provides a wide range of pathways for students to explore multiple ideas, perspectives, ways of knowing, and problems while also situating themselves in relation to this broader learning through various disciplines both as a student and a member of their community and the world.

Through GE, CSUDH students will take part in learning experiences that support growth toward 8 learning outcomes:

1. **Metacognition:** Critically reflect on past experiences to explore and direct their own learning;
2. **Critical Inquiry:** Learn to use critical inquiry skills and then apply these fundamental tools to a variety of qualitative or quantitative reasoning contexts;
3. **Communication:** Effectively use oral, written, creative, and digital modes of communication relevant to audience, purpose and context;
4. **Information Literacy:** Locate, evaluate, and incorporate information applicable to a particular field or inquiry;
5. **Race, Equity and Social Justice:** Examine societal, cultural, and historical contexts of race, class, gender, and sexualities in order to understand the differential and intersectional impacts of racism, oppression, and social inequality on individuals and groups in the United States;
6. **Integrative Learning and Problem Solving:** Address complex ideas and questions by drawing from and synthesizing a range of relevant disciplinary ideas, principles, and methods;
7. **Global Perspectives:** Critically analyze and engage with complex interdependent global systems and legacies and understand their implications for people's lives; and,
8. **Community Engagement:** Think critically about their roles and responsibilities as stakeholders in communities at the campus, local, national, and global levels in order to engage in mutual exchange of knowledge.

Together these outcomes should allow for students to develop a well-rounded foundation for their studies that promotes their identities, strengths, and values while engaging with diverse voices and perspectives throughout their university and community.

The General Education Program requires 49 semester units: (A) 9 units of English Language Communication and Critical Thinking; (B) 13 units of Scientific Inquiry and Quantitative Reasoning; (C) 12 units of Arts and Humanities; (D) 9 units of Social Sciences, (E) 3 units of Lifelong Learning and Self-Development; and (F) 3 units of Ethnic Studies

## Area A: English Language Communication and Critical Thinking (9 units)

Courses in Area A introduce students to college-level skills necessary for their continued success at the university and after graduation. Area A courses refine students' abilities to read and write effectively in a variety of rhetorical situations; to distinguish sound, forceful reasoning from faulty reasoning; to publicly present their own ideas and research; and to locate, interpret, evaluate, and effectively and ethically use source materials. Because of the foundational nature of these courses, students must complete this section of General Education within their first 60 units. Students must earn a grade of C- or better in Area A courses in order to satisfy these GE requirements. Skills acquired in Area A courses will be developed further in other GE and major courses.

### A1. Oral Communication

Students who complete the Basic Skills requirement in Oral Communication will be able to:

1. discuss the elements of oral communication, including basic rhetorical strategies in speech;
2. give lucid, logical and persuasive speeches in a variety of contexts;
3. display self-confidence in interpersonal and group communication;
4. utilize effective delivery techniques; and
5. listen to and analyze the effectiveness of other speakers.

Students are exempted from the Basic Skills course in Oral Communication by a suitable score on a challenge examination.

### A2. Written Communication

Students who complete the English, Communication, & Critical Thinking requirement in Composition will develop proficiency in oral and written communication in English. In particular, they will be able:

1. to define and apply key rhetorical concepts through analyzing and composing a variety of texts in several genres and modes (print, visual, digital, oral, multimodal);

2. to demonstrate rhetorical awareness and flexibility by discussing how other writers adapt language for audience, situation and purpose and by consciously adapting their own writing to a variety of situations and contexts that call for purposeful shifts in voice, tone, style, design, medium, structure, and conventions;
3. to compose persuasive arguments that articulate a clear, thoughtful position, deploy support and evidence appropriate to audience, situation, and purpose, and consider counterclaims and multiple points of view;
4. to demonstrate awareness of writing as a recursive, social process by reading, writing, and collaborating to discover and deepen ideas, reflecting on their rhetorical choices, and revising those choices in response to feedback from readers;
5. to identify how and why conventions vary by genre, discipline, and occasion and use resources to effectively employ appropriate formatting, style, citation, and grammar conventions;
6. to demonstrate awareness of proper citation conventions and their relation to concepts of intellectual property and authorial responsibility;
7. to practice and demonstrate the ability to use conventions of Standard Written English in order to communicate with academic and professional audiences.

Students are exempted from Basic Skills courses in English Composition by a suitable score on the Advanced Placement Test, the English Equivalency Examination, or a composition challenge examination.

### A3. Logical/Critical Reasoning

Students who complete the Basic Skills requirement in Logic/Critical Reasoning will be able to:

1. understand basic logic and its relation to language; elementary inductive and deductive process, including an understanding of the fallacies of language and thought;
2. recognize the differences between assumptions, inferences, conclusions, facts and opinions;
3. develop the abilities to analyze, criticize, and advocate ideas; to reason inductively and deductively, and to reach well-supported factual or judgmental conclusions; and
4. apply the concepts and skills of critical reasoning to solve academic and everyday problems.

Students are exempted from the Basic Skills course in Logic/Critical Reasoning by a suitable score on a challenge examination.

**Note:** In Area A, all courses must be passed with a grade of "C-" or higher. In all other areas of General Education, a grade point average of 2.0, calculated at graduation, is required.

## Area B: Scientific Inquiry and Quantitative Reasoning (13 units)

In Area B1-3 courses, students develop their knowledge of scientific theories, concepts, and data about both living and non-living systems, as well as an understanding and appreciation of scientific principles and the scientific method, including the potential limits of scientific endeavors. Scientific literacy also includes the ability to think in an informed manner about social, legal, ethical, and political issues that involve science and technology.

In Area B4 courses, students will engage with meaningful mathematics and will be prepared for Science, Technology, Engineering, and Math courses, for quantitative courses in other majors, and to solve problems of everyday life. Students must earn a grade of C- or better in Area B4 courses in order to satisfy these GE requirements; skills acquired in Area B4 courses will be developed further in other GE and major courses.

### B1. Physical Science

Students will learn the methods of the natural sciences as these methods are seen and used by working scientists. In addition, they will explore the characteristic attributes of fundamental scientific concepts from the perspective of the natural sciences. Finally, they will learn the structure and results of a fundamental, comprehensive physical science, which is principally analytic, quantitative and deductive.

Students who complete the Natural Science in Physical Science requirement will be able to:

1. demonstrate an understanding of the scientific assumption that nature has an objective existence that is intelligible;
2. distinguish between a scientific hypothesis and the idea of pseudoscience;
3. describe the systematic observation of nature and the detection of similar patterns in observed phenomena;
4. describe the importance of limitation of scope in the production of useful concepts and the related limits to the applicability and usefulness of scientific models and concepts;
5. describe the formulation of hypotheses and models to explain these patterns and the use of these models and hypotheses to make testable predictions;
6. discuss the roles of quantitative and of formal manipulation of models and relationships in generating predictions;
7. discuss the design and execution of tests of hypotheses and the subsequent rejection, modification, or refinement of the hypotheses; and

8. describe the relationship between scientific ideas and their technological applications;
9. understand and appreciate applications, advantages, and limitations of computational methodology in Physical Science, in particular, in the modeling process.

## **B2. Natural Sciences in Life Science**

Students who complete the Natural Science in Life Science requirement will be able to:

1. describe a representative selection of fundamental concepts and principles of the life sciences;
2. cite various phenomena in a variety of contexts that illustrate the applicability of specific principles of the life sciences;
3. describe some of the major applications of the principles of the life sciences;
4. describe some of the major effects that the life sciences and related technologies have had on societies.

## **B3. Natural Sciences in Science Laboratory**

Students who complete the Natural Science in Science Laboratory requirement will be able to:

1. discuss application of a representative selection of fundamental concepts and principles of a science;
2. apply the scientific method in a laboratory situation; and
3. cite various phenomena that illustrate the applicability of specific principles of a science.

## **B4. Basic Skills in Quantitative Reasoning and Problem Solving**

Students who complete the Basic Skills requirement in Quantitative Reasoning and Problem Solving will be able to read and understand mathematical arguments and data, and use mathematics effectively to analyze and solve problems that arise in ordinary and professional life. They shall develop skills and understanding beyond the level of intermediate algebra. In particular, students will:

1. understand and apply ideas and techniques of finite mathematics such as consumer mathematics probability, statistical analysis, hypothesis testing, linear programming, **or**
2. understand and apply the ideas and techniques of college algebra, trigonometry, logarithms and exponentials, and elementary functions, **or**
3. understand and apply ideas and techniques of calculus.

Students in area B4 will not just practice computational skills, but will be able to explain and apply basic mathematical concepts and will be able to solve problems through quantitative reasoning.

Students are exempted from the Basic Skills course in Quantitative Reasoning if they receive a suitable score on a challenge examination or if they successfully complete a course requiring more advanced mathematical ability.

## **B5: Integrative Studies in the Natural Sciences**

Courses in Integrative Studies in the Natural Sciences and Technology are interdisciplinary courses that build upon the knowledge students have acquired by completing their lower division coursework in the natural sciences and technology. While these courses will include content from disciplines outside the natural sciences and technology, their primary focus is on integration of knowledge within the natural sciences and technology.

Students who complete the requirement for Integrative Studies in the Natural Sciences will be able to:

1. discuss the relationship of science to humanity through inquiry into: the origin of scientific discovery, the implications and consequences of scientific and technological development, and the impact of natural processes on the works of people as well as on its result: artifact;
2. describe some of the major effects that science and technology have had on societies; and
3. discuss the interdisciplinary approaches to methods, processes, effects, terminology and major concepts of science and technology; and
4. describe and discuss ethical and legal concepts and issues related to science and technology, in particular, the concept of intellectual property and its protection.

## **Area C: Arts and Humanities (12 units)**

In Area C courses, students develop an understanding and appreciation of the works of the human mind and imagination. Arts and Humanities coursework explores the rich history and diversity of human knowledge and creativity as expressed in the arts, literatures, religions, and philosophies of their own and other cultures. By viewing such human endeavors in an historical and aesthetic context, students learn not only to analyze critically

but also to value the rich cultural products of our complex world. Area C courses educate students to be global citizens who are equipped to make independent judgments using their own imagination and reason.

### **C1: Arts (3 - 6 units)**

Students who complete the Arts requirements will:

1. gain aesthetic training through direct experience of works of music, art, and literature, learn the bases on which such works are studied, and the critical canons applied to them, extending their understanding beyond personal opinion to critical evaluation;
2. have opportunities to create musical, artistic, or literary works, with the opportunity to have their work evaluated by peers and/or a faculty member applying appropriate critical criteria;
3. be able to synthesize an understanding of the relationships among various forms of human expression both within an era and culture and across these boundaries.

### **C2: Humanities (3 - 6 units)**

Students who complete the Humanities requirements will:

1. become acquainted with significant works of art, literature, music, and philosophy from a range of cultures;
2. understand the development over time of their own and other cultures;
3. develop an understanding of the relationships among various forms of human expression both within an era and culture and across these boundaries.

### **C3: Integrative Studies in Arts and Humanities (3-units upper division)**

Upper division General education courses in the arts and humanities build on the lower division courses by developing integrated humanistic and artistic world-views.

Students who complete the requirement for Integrative Studies in the Arts and Humanities requirements will be able to:

1. discuss the relationships among the various disciplines that comprise the humanities;
2. place these relationships within a historical context;
3. relate the humanities to modern life;
4. demonstrate the use of imagination and synthesis through aesthetic and intellectual activities.

## **Area D: Social Sciences (9 units)**

Courses in the Social Sciences help students better understand how social, political, and economic institutions and behavior are intricately interwoven. In an increasingly complex, interdependent, and changing world, individuals must learn how to cope with pressing social problems and how to manage and improve the conditions, institutions, and outcomes that affect them. Area D courses introduce students to the primary structural levels of analysis used in the various disciplines and demonstrate the significance of historical backgrounds to contemporary behavior.

### **D1. Individual Perspectives, Groups and Society (3 units)**

On completing a course in this category a student will be able to demonstrate an understanding of the:

1. basic concepts and methods necessary for studying the personal functioning and social behavior of individuals.
2. influence of psychological and social processes on the development of the perception of self and others.
3. nature of cognition and language and their relationship to critical aspects of social and personal development.
4. social and psychological variations in individual behavior.
5. conceptual and methodological frameworks necessary for studying groupings in a society.
6. interrelationships between various institutions and group dynamics within a society, and their role in generating and resolving social issues.
7. cultural and group diversity and applications of the concept of cultural relativity.

### **D2. Global and Historical Perspectives (3 units)**

On completing a course in this category, a student will be able to demonstrate an:

1. awareness of and knowledge about the international system and world environment.
2. understanding of the global interdependencies among people, outlooks, institutions and attributes.
3. appreciation of the role of the individual as an international observer, analyst and participant.
4. ability to analyze historical change and cultural process.
5. understanding that current issues and conditions are shaped by their past historical and cultural development.
6. understanding of the complexity of evolutionary and historical processes and of the limits on and potential for social change.

7. understanding of how sciences which deal with the human past formulate and test hypotheses to understand change and how they evaluate sources, whether human fossils, artifacts or written documents.

### **D3. Integrative Studies in the Social Sciences (3 units - upper division)**

The categories of upper division courses in the social sciences represent integrative themes and contemporary research applications. Focusing on specific topics, students will explore the conceptual and methodological links among the social sciences or subfields of a discipline. Courses will stress contemporary research, interpretations, issues and trends. Specific objectives of the categories are as follows:

1. Courses in individual processes focus on the interaction among factors that shape the individual.
2. Courses in social issues focus on contemporary social, political or economic concerns and problems using a variety of perspectives in the social sciences.
3. Courses in global trends focus on social, political, environmental and economic processes seen from a global perspective.
4. Courses in social change focus on major processes of continuity and development and on the origination and impact of new ideas, social structures and technologies.
5. Courses in cultural pluralism focus on the nature of cultural diversity and the processes of cultural interaction, interethnic relations and cultural integration on community, national and international scales.

Students must take 9 units from the GE category. Select one course from each category below and one more course from either category 1 or 2. A student may not take all 3 courses in this area from a single academic department.

### **Area E: Lifelong Learning and Self-Development (3 units)**

Area E courses are designed to equip learners for lifelong understanding and development of themselves as integrated physiological, social, and psychological beings. Drawn from a wide range of disciplines and perspectives, Area E courses focus on the development of skills, abilities, and dispositions that not only promote students' academic success but also enhance their lives after college.

Students who complete the Lifelong Learning and Self-Development requirement will be able to:

1. Demonstrate an understanding of oneself as an integrated physiological, social and psychological organism; and
2. Discuss key relationships of humankind to the social and physical environment, including matters selected from the following: human behavior, sexuality, nutrition, physical and mental health, stress management, financial literacy, social relationships and relationships with the environment, implications of death and dying and avenues for lifelong learning, including those based on modern technology.

### **Area F: Ethnic Studies (3 units)**

Courses in Area F explore the interrelatedness and intersection of race and ethnicity with class, gender and sexuality and other forms of difference, hierarchy and oppression. Courses are grounded and centered in the cultures, concrete-lived conditions, and living histories of peoples of color in the United States. Courses have an explicit commitment to linking scholarship, teaching and learning to intellectual traditions and scholarly contributions of ethnic studies, social engagement (service and struggle), social change, and social justice.

1. Analyze and articulate concepts such as race and racism, racialization, ethnicity, equity, ethnocentrism, eurocentrism, white supremacy, self-determination, liberation, decolonization, sovereignty, imperialism, settler colonialism, and anti-racism as analyzed in any of the following disciplines: Africana Studies, Asian Pacific Studies, Chicana and Chicano Studies, and Indigenous Peoples of the Americas.
2. Apply theory and knowledge produced by Native American, African American, Asia American and Pacific Islander, Chicana and Chicano, and/or LATina and LATino communities to describe the critical events, histories, cultures, intellectual traditions, contributions, lived-experiences and social struggles of those groups with a particular emphasis on agency and group-affirmation
3. Critically analyze the intersection of the race and racism as they relate to class, gender, sexuality, religion, spirituality, national origin, immigration status, ability, tribal citizenship, sovereignty, language, and/or age in Native American, African American, Asian American and Pacific Islander, Chicana and Chicano, and/or Latina and Latino communities.
4. Critically review how struggle, resistance, racial and social justice, solidarity, and liberation as experienced, promoted and enacted by Native American, African American and Pacific Islander, Chicana and Chicano, and/or Latina and Latino communities are relevant to current and structural issues such as communal, national, international, and transnational politics as, for examples, in immigration, reparations, settler-colonialism, multiculturalism, and language policies.
5. Describe and actively engage with anti-racist and anti-colonial issues and the practices and movements that empower Native American, African American, Asian American and Pacific Islander, Chicana and Chicano, and/or Latina and Latino communities to build a just and equitable society.

## Double Counting of General Education Courses (<https://catalog.csudh.edu/general-information/baccalaureate-degrees-undergraduate-studies/double-counting-general-education-courses/>)

General Education courses may be double-counted in either the major or the minor as indicated in the major or minor program requirements. A double-counted course counts three units (not six) towards graduation.

### Honors Program

An Honors Program for new and continuing students began in fall 1983 with specially-designated sections of General Education courses. This program provides Honors Students with opportunities for special study, advisement and enrichment programs throughout their undergraduate careers. It is, however, currently suspended. For further information, contact the Dean of Undergraduate Studies ([academicprograms@csudh.edu](mailto:academicprograms@csudh.edu)).

## General Education Program Requirements (49 units)

### Requirements (49 units)

General Education Residence Requirement: The California State University System requires all students to complete 9 semester units in general education at the campus from which they graduate. Following is the list of courses that are offered in the General Education program. These courses fulfill the objectives stated in the program description. For complete course descriptions, refer to those sections of the University Catalog that describe the programs offering the courses. All Area A courses and the Quantitative Reasoning requirement in Area B must be passed with a grade of "C-" or higher. A grade point average of 2.0 calculated at graduation, is required for the entire General Education Pattern.

### Area A. English Language Communication and Critical Thinking (9 units required)

Complete one course from each of the following categories (A1, A2, A3):<sup>1</sup>

#### A1. Oral Communication (3 units):

Code	Title	Hours
THE 120	Fundamentals of Speech	3

#### A2. Written Communication (3 units):

Code	Title	Hours
ENG 108 & ENG 109	Freshman Composition I: Stretch 1 and Freshman Composition I: Stretch 2 <sup>2</sup>	6
ENG 110	Freshman Composition Accelerated	3

A3. Logical/Critical Reasoning (3 units):

Code	Title	Hours
CSC 121	Introduction to Computer Science and Programming I <sup>3</sup>	4
MAT 271	Foundations Of Higher Math	3
PHI 120	Critical Reasoning	3
PSY 110	Critical Thinking and Problem Solving	3
PHI 220	Symbolic Logic	3
ANT 120	Pop Culture Archaeology	3

<sup>1</sup> Courses in area A and area B4 must be passed with a grade of "C-" or higher.

<sup>2</sup> If the stretch course option is selected, completion of *both* ENG 108 and 109 is required to satisfy A2. ENG 108 must be completed with a grade of CR. ENG 109 must be completed with a grade of "C-" or higher.

<sup>3</sup> Meets Area A3 for the following programs only: BA Computer Technology, BS Computer Science and BS Information Technology

### Area B. Scientific Inquiry and Quantitative Reasoning (13 units required)

Complete one course from each of the categories (B1, B2, B3, B4, B5):<sup>4</sup>

#### B1. Physical Science (3 units):

Code	Title	Hours
CHE 102	Chemistry For The Global Citizen	3
CHE 110	General Chemistry I <sup>5</sup>	5



EAR 100	Physical Geology	3
GEO 200	Physical Geography	3
PHY 100	Patterns In Nature	3
PHY 120	Elements Of Physics I <sup>6</sup>	4
PHY 130	General Physics I <sup>7</sup>	5

<sup>4</sup> Students majoring or minoring in one of the natural sciences (Biology, Biochemistry, Biophysics, Chemistry, or Physics) may substitute more advanced science courses. These students should see a faculty advisor.

<sup>5</sup> Meets area B1 and B3 for the following programs only: BS Biochemistry, BA Chemistry: Biochemistry Option, BA Chemistry: General Chemistry Option, BS Chemistry, BA Biology, BS Biology, Minor in Biology, Minor in Microbiology, Minor in Organic/Biochemistry, BS in Clinical Science, BS in Earth Science, BA in Physical Education: Pre-Physical Therapy Option, BS in Physics

<sup>6</sup> Meets Area B1 and B3 for the following programs only: BS Biochemistry, BA Biology, BS Biology, BA Chemistry: Biochemistry Option, BS Earth Science, BA Physical Education: Pre-Physical Therapy Option, BS Quality Assurance

<sup>7</sup> Meets Area B1 and B3 for the following programs only: BS Biochemistry, BS Biology, BA Chemistry: Biochemistry Option, BA Chemistry: General Chemistry Option, BS Chemistry, BS Computer Science, BS Mathematics, BS Physics, Minor in Physics

## B2. Natural Sciences in Life Science (3 units):

Code	Title	Hours
ANT 101	Intro to Biological Anthro	3
BIO 102	General Biology	3
BIO 120	Principles of Biology I <sup>8</sup>	3
BIO 122	Principles of Biology II <sup>9</sup>	3

<sup>8</sup> Meets Area B2 for the following programs only: BS Biochemistry, BA Biology, BS Biology, Minor in Biology, Minor in Microbiology, BS in Clinical Science, BS Earth Science, BA Physical Education: Pre-Physical Therapy Option

<sup>9</sup> Meets Area B2 for the following programs only: BS Biochemistry, BA Biology, BS Biology, Minor in Microbiology, BS Clinical Science, BS Earth Science

## B3. Natural Sciences in Science Laboratory (1 units):

Code	Title	Hours
BIO 103	General Biology Laboratory <sup>10</sup>	1
BIO 121	Principles of Biology Laboratory I <sup>11</sup>	1
BIO 123	Principles of Biology Laboratory II <sup>12</sup>	1
CHE 103	Chemistry Lab for the Global Citizen	1
EAR 101	Physical Geology Laboratory <sup>13</sup>	1

<sup>10</sup> Concurrent enrollment in BIO 102 General Biology or prior life science course recommended.

<sup>11</sup> Meets Area B3 for the following programs only: BS in Biochemistry, BS Biology, Minor in Biology, Minor in Microbiology, BS Clinical Science, BS Earth Science, BA Physical Education: Pre-Physical-Therapy Option

<sup>12</sup> Meets Area B3 for the following programs only: BS Biochemistry, BA Biology, BS Biology, Minor in Microbiology, BS in Clinical Science, BS Earth Science

<sup>13</sup> Concurrent enrollment in EAR 100 Physical Geology or prior earth science course recommended.

## B4. Quantitative Reasoning and Problem Solving (3 units): <sup>14</sup>

Code	Title	Hours
MAT 105	Finite Mathematics	3
MAT 111	Discovering Mathematics	3
MAT 131	Elementary Statistics and Probability	3
MAT 132	Statistics and Probability with Support	4
MAT 134	Statistics & Probability - Supported	4
MAT 151	College Algebra and Trigonometry	4
MAT 153	Pre-Calculus with Trigonometry with Lab	4
MAT 155	Pre-Calculus	4
MAT 171	Survey of Calculus for Management and Life Sciences	4

MAT 191	Calculus I	5
MAT 193	Calculus II	5

<sup>14</sup> Courses in area B4 and area B4 must be passed with a grade of "C-" or higher.

### B5. Integrative Studies in the Natural Sciences (3 units):

Code	Title	Hours
BIO 336	Environmental Biology	3
BIO 340	Genetics	3
BSN 346	Human Pathophysiology <sup>15</sup>	3
CSC 301	Computers And Society	3
EAR 312	Natural Disasters	3
EAR 416	Earth Science for Teachers	3
HEA 466	Environmental Health Problems	3
IDS 310	Global Climate Change	3
LBS 380	Blended Science Methods	4
SMT 310	Science and Technology	3
SMT 314	Introduction to Cosmology	3
SMT 410	Development of Scientific Thinking and Theories	3
SMT 416	Earth Science For Teacher	3

<sup>15</sup> Course restricted to Nursing majors

## Area C. Arts and Humanities (12 units required)

Complete one course from each of the following categories (C1, C2, C3) and one additional lower division course from area C1 or C2 (4 courses total):

### C1. Arts Courses (3 - 6 units):

Code	Title	Hours
AFS 205	Introduction to Hip Hop	3
APP 225	Pacific Islander Culture in Oceania and the U.S.	3
ART 100	Looking At Art	3
ART 101	Experiencing Creative Art	3
COM 130	Introduction to Film	3
DAN 130	Global Dance Perspectives	3
ENG 271	Introduction to Creative Writing	3
MUS 101	Introducing Music	3
MUS 110	Music Fundamentals	3
MUS 201	Music in Film: From the Silent Era to The Lord of the Rings	3
MUS 250	History of Rock	3
THE 100	Television Film & Theatre	3
THE 160	Acting For Non-Majors	3
WMS 330	Queer Art and Visual Culture	3

### C2. Letters Courses (3 - 6 units):

Code	Title	Hours
AFS 200	Intro to Africana Studies	3
APP 101	Introduction To Asian Studies	3
CHS 100	Chicana/o Cultural Roots	3
CHS 205	Introduction to Chicana/o Literature	3
COM 100	Media & Society	3
ENG 230	Literature and Popular Culture	3
FRE 220	Second Year French	3
HUM 204	Introduction to the Humanities	3

JPN 110	Beginning Japanese I	3
JPN 111	Beginning Japanese II	3
LBR 202	Class Struggles in Film and Popular Culture	3
PHI 101	Moral Problems	3
PHI 102	Humanity, Nature & God	3
PHI 201	The Good Life	3
PHI 202	The Devil You Don't Know	3
SPA 151	Introduction to Hispanic Culture	3
SPA 221	Intermediate Spanish II	3
WMS 100	Gender, Sex, the Body, & Politics: An Introduction	3
WMS 410	Queer of Color Critique	3

### **C3. Integrative Studies in the Humanities (3 units):**

<b>Code</b>	<b>Title</b>	<b>Hours</b>
AFS 331	Key Movements: African Literature and Culture	3
AFS 332	Key Movements: Harlem Renaissance	3
AFS 333	Black Movements of the Sixties	3
AFS 334	African Culture and Art	3
APP 314	Asian Americans and the Media	3
APP 315	Asian Pop Culture and Globalization	3
APP 325	Asian Pacific Art, Music and Literature	3
APP 339	Asian Diaspora and Transnational Asian Religions	3
APP 343	Asian Pacific Film & Literature	3
ARH 370	Art and Social Protest	3
CHS 340	Native American and Chicana Women's Narrative	3
CHS 345	Latina/o Identities in the Americas	3
ENG 308	Critical Approaches to Children's Literature	3
ENG 360	Heroes and Antiheroes	3
ENG 362	Environment in Literature & Culture	3
ENG 364	Literary Utopia	3
HIS 355	American Civil Rights History	3
HIS 375	Pop Culture in History	3
HIS 376	Film As History	3
HUM 300	Health Humanities	3
HUM 301	Mind/Brain and the Arts	3
HUM 302	Lives of Faust: Deals with the Devil	3
HUM 303	All Creatures Great & Small: Animals from Sacred to Endangered	3
HUM 304	Vampires	3
HUM 305	Never Lose Infinite Hope: Imagining Justice, Cultivating Mental Wellness	3
HUM 310	Key Concepts	3
HUM 312	Key Movements	3
HUM 314	Key Issues	3
IDS 312	Interdisciplinary Approaches to the Humanities	3
LBR 310	Success and Values	3
LBR 312	Decade of the Sixties	3
LBR 314	Key Issues: American Dream	3
MUS 302	African American Music	3
MUS 312	The Jazz Age	3
MUS 345	Global Popular Music: Identity and Social Change	3
MUS 486	Music History III: 1880 to Contemporary	3
NCR 390	Fundamentals of Conflict Resolution and Peacebuilding	3
PHI 351	Death and Dying	3

PHI 352	Myth as Reality	3
PHI 353	Age of Revolt	3
PHI 383	Comparative Religions	3
SPA 310	Romantic Love in the Western Tradition	3
SPA 312	Hispanic Literature, Art and Culture	3
SPA 313	Encountering the Other	3
THE 313	Voices of Contemporary Women Playwrights	3
THE 315	Key Concepts: The American Musical	3
THE 317	Theatre of Revolt	3
THE 319	The Power of Masks	3
WMS 310	The Witch in Literature	3
WMS 311	Comedy, Sex and Gender	3
WMS 314	Feminism and Film	3
WMS 315	Literary Topics in Gender Studies and Sexuality Studies	3
WMS 380	Gender and Sexuality in Popular Culture	3

## Area D. Area of the Social Sciences (9 units required)

Complete one course from each of the following categories (D1, D2, D3). Courses must be taken from more than one department (e.g., if you satisfy D1 and D2 with anthropology courses, then D3 category *cannot* be satisfied with an anthropology course. At least one area D course must be from a different department).

### D1. Perspectives on Individuals, Groups and Society (3 units):

Code	Title	Hours
AFS 220	African World Peoples & Soc.	3
ANT 100	Introduction to Cultural Anthropology	3
CDV 150	Intro Child Development	3
ECO 200	Contemporary Econ Issues	3
ECO 210	Economic Theory 1A Micro	3
ECO 211	Economic Theory 1B Macro	3
IDS 210	Introduction to Environmental Studies	3
LAW 240	Legal Environment of Business	3
LBR 101	Introduction to Labor Studies: Work, Wealth and Power	3
LBS 205	Child and Adolescent Development	3
NCR 291	Psychology of Peacebuilding	3
PSY 101	General Education Psychology: Understanding Human Behavior	3
SOC 101	The Individual In Society	3
SOC 102	Understanding Social Relationships in a Global Perspective	3
WMS 200	Foundations in Queer Studies	3
WMS 250	Foundations in Women's Studies	3

### D2. Global and Historical Perspectives (3 units):

Code	Title	Hours
AFS 201	African World Civilizations	3
ANT 102	Ancient Civilizations	3
CHS 200	Introduction to Chicana/o and Latina/o History	3
ENG 150	Languages of the World	3
GEO 100	Human Geography	3
HIS 120	World History I	3
HIS 121	World History II	3
LBR 200	Labor and the Environment	3
MGT 200	Global Organizational Ethics and Social Responsibility	3
POL 100	General Education Political Science: World Perspectives	3

**D3. Integrative Studies in the Social Sciences (3 units):**

<b>Code</b>	<b>Title</b>	<b>Hours</b>
AFS 310	The African American Experience in the US	3
AFS 311	Afro Latinidad & the Caribbean	3
AFS 312	Cultural Pluralism: Ethnic & Global Society	3
ANT 312	Language And Culture	3
ANT 330	North American Indians	3
ANT 334	Mesoamerica Past and Present	3
ANT 336	Comparative Cultures: Culture, Environment and Globalization	3
ANT 337	Ethnography and Film	3
ANT 338	Mainland Southeast Asia	3
ANT 342	South America	3
ANT 371	Historical and Cultural Perspectives in Disability Studies	3
APP 311	Contemporary Issues in Asian American Communities	3
APP 318	Vietnamese, Cambodian, and Lao Americans: Culture, History, and Identity	3
APP 327	Values and Communication of Asian Pacific Cultures	3
APP 335	Asian Pacific Culinary Culture	3
APP 350	Asian-Pacific Gender and Family	3
BSN 306	Cult Diversity Healthcare <sup>16</sup>	3
CHS 323	Latina/o Perspectives on U.S. Immigration and Citizenship	3
CHS 330	Latina/o Identities in U.S.	3
CHS 335	Urban Youth Gangs in Los Angeles	3
GEO 318	Cultural Pluralism The Human Environment: Methods of Knowledge and Truth	3
HEA 468	Multicultural Health	3
HIS 340	American West	3
HIS 348	Labor In American Society	3
HIS 352	Topics in United States Foreign Relations History	3
HIS 354	History of American Immigration	3
HIS 356	American Environmental History: American Environment from Pre-Contact (prior to 1500) to the Present	3
HIS 380	Women In History	3
IDS 304	Issues in Global Studies	3
IDS 318	Interdisciplinary Approach to Cultural Pluralism	3
ITC 300	Security in a Digital Society	3
LBR 313	The Future of Workers and Work	3
LBR 316	Working Class and Education	3
LBR 350	Research Methods for Social Change	3
LBR 365	Racial Capitalism	3
LBS 370	Multicultural Studies	4
MLG 318	New Perspectives on Language and Sex	3
NCR 391	Restorative Justice	3
POL 350	History of Political Ideas	3
POL 351	Modern Political Thought	3
POL 354	American Political Thought	3
SBS 318	Cultural Pluralism:	3
SPA 318	Movements of Latin America	3
WMS 318	Race, Class and Gender	3
WMS 340	Politics of Women's (Un)Paid Labor	3
WMS 390	Transnational Feminisms	3

<sup>16</sup> Restricted to Nursing Majors

## Area E. Lifelong Learning and Self-Development (3 units)

Select one of the following:

Code	Title	Hours
BUS 100	Entrepreneurship For Everyone	3
CIS 275	Internet Literacy	3
ENG 107	Reading & Writing LA	3
FIN 200	Personal Finance for Non-Finance Majors	3
HEA 100	Health & Lifestyles	3
HEA 104	Food, Health and Environment	3
HEA 201	Healthcare Systems and Perspectives	3
KIN 235	Lifetime Fitness	3
LIB 151	Fundamentals of Information Literacy	3
LBR 201	Work/Life: Purpose, Power, and Identity	3
REC 100	Dimensions Of Leisure	3
UNV 101	Personal, Social and Intellectual Development	3

## Area F. Ethnic Studies (3 units)

Select one of the following.

Code	Title	Hours
AFS 100	The African American Experience	3
AFS 212	Intro To Comp Eth & Global Soc	3
AFS 231	Africana Literary Traditions	3
APP 201	Introduction to Asian American Studies	3
APP 212	Introduction to Comparative Ethnic and Global Societies	3
CHS 125	Chicano/Latino Musical Culture	3
CHS 212	Introduction to Comparative Ethnic Studies	3

## Program Learning Outcomes

In keeping with the mission of CSUDH to "provide education, scholarship and service that are, by design, accessible and transformative," our General Education (GE) program seeks to provide foundational learning opportunities that help students make deep connections and find personal meaning that propels them throughout their education and life beyond the university. The Association of American Colleges and Universities calls this a liberal education; or, one in which students are free "to seek after the truth unencumbered by dogma, ideology, or preconceived notions." Additionally, one with a liberal education can be "both broad-and open-minded, and is, therefore, less susceptible to manipulation or prejudice." (AAC&U, 2020) A General Education program provides a wide range of pathways for students to explore multiple ideas, perspectives, ways of knowing, and problems while also situating themselves in relation to this broader learning through various disciplines both as a student and a member of their community and the world.

Through GE, CSUDH students will take part in learning experiences that support growth toward 8 **learning outcomes**:

1. **Metacognition:** Critically reflect on past experiences to explore and direct their own learning;
2. **Critical Inquiry:** Learn to use critical inquiry skills and then apply these fundamental tools to a variety of qualitative or quantitative reasoning contexts;
3. **Communication:** Effectively use oral, written, creative, and digital modes of communication relevant to audience, purpose and context;
4. **Information Literacy:** Locate, evaluate, and incorporate information applicable to a particular field or inquiry;
5. **Race, Equity and Social Justice:** Examine societal, cultural, and historical contexts of race, class, gender, and sexualities in order to understand the differential and intersectional impacts of racism, oppression, and social inequality on individuals and groups in the United States;
6. **Integrative Learning and Problem Solving:** Address complex ideas and questions by drawing from and synthesizing a range of relevant disciplinary ideas, principles, and methods;
7. **Global Perspectives:** Critically analyze and engage with complex interdependent global systems and legacies and understand their implications for people's lives; and,
8. **Community Engagement:** Think critically about their roles and responsibilities as stakeholders in communities at the campus, local, national, and global levels in order to engage in mutual exchange of knowledge.

Together these outcomes should allow for students to develop a well-rounded foundation for their studies that promotes their identities, strengths, and values while engaging with diverse voices and perspectives throughout their university and community.

The General Education Program requires 49 semester units: (A) 9 units of English Language Communication and Critical Thinking; (B) 13 units of Scientific Inquiry and Quantitative Reasoning; (C) 12 units of Arts and Humanities; (D) 9 units of Social Sciences, (E) 3 units of Lifelong Learning and Self-Development; and (F) 3 units of Ethnic Studies.

## Area 1: English Communication (9 units)

Courses in Area A introduce students to college-level skills necessary for their continued success at the university and after graduation. Area A courses refine students' abilities to read and write effectively in a variety of rhetorical situations; to distinguish sound, forceful reasoning from faulty reasoning; to publicly present their own ideas and research; and to locate, interpret, evaluate, and effectively and ethically use source materials. Because of the foundational nature of these courses, students must complete this section of General Education within their first 60 units. Students must earn a grade of C- or better in Area A courses in order to satisfy these GE requirements. Skills acquired in Area A courses will be developed further in other GE and major courses.

### 1A. English Composition

Students who complete the Basic Skills requirement in Oral Communication will be able to:

1. discuss the elements of oral communication, including basic rhetorical strategies in speech;
2. give lucid, logical and persuasive speeches in a variety of contexts;
3. display self-confidence in interpersonal and group communication;
4. utilize effective delivery techniques; and
5. listen to and analyze the effectiveness of other speakers.

Students are exempted from the Basic Skills course in Oral Communication by a suitable score on a challenge examination.

### 1B. CRITICAL THINKING

Students who complete the English, Communication, & Critical Thinking requirement in Composition will develop proficiency in oral and written communication in English. In particular, they will be able:

1. to define and apply key rhetorical concepts through analyzing and composing a variety of texts in several genres and modes (print, visual, digital, oral, multimodal);
2. to demonstrate rhetorical awareness and flexibility by discussing how other writers adapt language for audience, situation and purpose and by consciously adapting their own writing to a variety of situations and contexts that call for purposeful shifts in voice, tone, style, design, medium, structure, and conventions;
3. to compose persuasive arguments that articulate a clear, thoughtful position, deploy support and evidence appropriate to audience, situation, and purpose, and consider counterclaims and multiple points of view;
4. to demonstrate awareness of writing as a recursive, social process by reading, writing, and collaborating to discover and deepen ideas, reflecting on their rhetorical choices, and revising those choices in response to feedback from readers;
5. to identify how and why conventions vary by genre, discipline, and occasion and use resources to effectively employ appropriate formatting, style, citation, and grammar conventions;
6. to demonstrate awareness of proper citation conventions and their relation to concepts of intellectual property and authorial responsibility;
7. to practice and demonstrate the ability to use conventions of Standard Written English in order to communicate with academic and professional audiences.

Students are exempted from Basic Skills courses in English Composition by a suitable score on the Advanced Placement Test, the English Equivalency Examination, or a composition challenge examination.

### 1C. Oral Communication

Students who complete the Basic Skills requirement in Logic/Critical Reasoning will be able to:

1. understand basic logic and its relation to language; elementary inductive and deductive process, including an understanding of the fallacies of language and thought;
2. recognize the differences between assumptions, inferences, conclusions, facts and opinions;
3. develop the abilities to analyze, criticize, and advocate ideas; to reason inductively and deductively, and to reach well-supported factual or judgmental conclusions; and
4. apply the concepts and skills of critical reasoning to solve academic and everyday problems.

Students are exempted from the Basic Skills course in Logic/Critical Reasoning by a suitable score on a challenge examination.

**NOTE:** In Area A, all courses must be passed with a grade of "C-" or higher. In all other areas of General Education, a grade point average of 2.0, calculated at graduation, is required.

## Area B: Scientific Inquiry and Quantitative Reasoning (13 units)

In Area B1-3 courses, students develop their knowledge of scientific theories, concepts, and data about both living and non-living systems, as well as an understanding and appreciation of scientific principles and the scientific method, including the potential limits of scientific endeavors. Scientific literacy also includes the ability to think in an informed manner about social, legal, ethical, and political issues that involve science and technology.

In Area B4 courses, students will engage with meaningful mathematics and will be prepared for Science, Technology, Engineering, and Math courses, for quantitative courses in other majors, and to solve problems of everyday life. Students must earn a grade of C- or better in Area B4 courses in order to satisfy these GE requirements; skills acquired in Area B4 courses will be developed further in other GE and major courses.

### B1. Physical Science

Students will learn the methods of the natural sciences as these methods are seen and used by working scientists. In addition, they will explore the characteristic attributes of fundamental scientific concepts from the perspective of the natural sciences. Finally, they will learn the structure and results of a fundamental, comprehensive physical science, which is principally analytic, quantitative and deductive.

Students who complete the Natural Science in Physical Science requirement will be able to:

1. demonstrate an understanding of the scientific assumption that nature has an objective existence that is intelligible;
2. distinguish between a scientific hypothesis and the idea of pseudoscience;
3. describe the systematic observation of nature and the detection of similar patterns in observed phenomena;
4. describe the importance of limitation of scope in the production of useful concepts and the related limits to the applicability and usefulness of scientific models and concepts;
5. describe the formulation of hypotheses and models to explain these patterns and the use of these models and hypotheses to make testable predictions;
6. discuss the roles of quantitative and of formal manipulation of models and relationships in generating predictions;
7. discuss the design and execution of tests of hypotheses and the subsequent rejection, modification, or refinement of the hypotheses; and
8. describe the relationship between scientific ideas and their technological applications;
9. understand and appreciate applications, advantages, and limitations of computational methodology in Physical Science, in particular, in the modeling process.

### B2. Natural Sciences in Life Science

Students who complete the Natural Science in Life Science requirement will be able to:

1. describe a representative selection of fundamental concepts and principles of the life sciences;
2. cite various phenomena in a variety of contexts that illustrate the applicability of specific principles of the life sciences;
3. describe some of the major applications of the principles of the life sciences;
4. describe some of the major effects that the life sciences and related technologies have had on societies.

### B3. Natural Sciences in Science Laboratory

Students who complete the Natural Science in Science Laboratory requirement will be able to:

1. discuss application of a representative selection of fundamental concepts and principles of a science;
2. apply the scientific method in a laboratory situation; and
3. cite various phenomena that illustrate the applicability of specific principles of a science.

### B4. Basic Skills in Quantitative Reasoning and Problem Solving

Students who complete the Basic Skills requirement in Quantitative Reasoning and Problem Solving will be able to read and understand mathematical arguments and data, and use mathematics effectively to analyze and solve problems that arise in ordinary and professional life. They shall develop skills and understanding beyond the level of intermediate algebra. In particular, students will:

1. understand and apply ideas and techniques of finite mathematics such as consumer mathematics probability, statistical analysis, hypothesis testing, linear programming, **or**
2. understand and apply the ideas and techniques of college algebra, trigonometry, logarithms and exponentials, and elementary functions, **or**



3. understand and apply ideas and techniques of calculus.

Students in area B4 will not just practice computational skills, but will be able to explain and apply basic mathematical concepts and will be able to solve problems through quantitative reasoning.

Students are exempted from the Basic Skills course in Quantitative Reasoning if they receive a suitable score on a challenge examination or if they successfully complete a course requiring more advanced mathematical ability.

### **B5: Integrative Studies in the Natural Sciences**

Courses in Integrative Studies in the Natural Sciences and Technology are interdisciplinary courses that build upon the knowledge students have acquired by completing their lower division coursework in the natural sciences and technology. While these courses will include content from disciplines outside the natural sciences and technology, their primary focus is on the integration of knowledge within the natural sciences and technology.

Students who complete the requirement for Integrative Studies in the Natural Sciences will be able to:

1. discuss the relationship of science to humanity through inquiry into: the origin of scientific discovery, the implications and consequences of scientific and technological development, and the impact of natural processes on the works of people as well as on its result: artifact;
2. describe some of the major effects that science and technology have had on societies; and
3. discuss the interdisciplinary approaches to methods, processes, effects, terminology and major concepts of science and technology; and
4. describe and discuss ethical and legal concepts and issues related to science and technology, in particular, the concept of intellectual property and its protection.

## **Area C: Arts and Humanities (12 units)**

In Area C courses, students develop an understanding and appreciation of the works of the human mind and imagination. Arts and Humanities coursework explores the rich history and diversity of human knowledge and creativity as expressed in the arts, literature, religions, and philosophies of their own and other cultures. By viewing such human endeavors in a historical and aesthetic context, students learn not only to analyze critically but also to value the rich cultural products of our complex world. Area C courses educate students to be global citizens who are equipped to make independent judgments using their own imagination and reason.

### **C1: ARTS (3 - 6 UNITS)**

Students who complete the Arts requirements will:

1. gain aesthetic training through direct experience of works of music, art, and literature, learn the bases on which such works are studied, and the critical canons applied to them, extending their understanding beyond personal opinion to critical evaluation;
2. have opportunities to create musical, artistic, or literary works, with the opportunity to have their work evaluated by peers and/or a faculty member applying appropriate critical criteria;
3. be able to synthesize an understanding of the relationships among various forms of human expression both within an era and culture and across these boundaries.

### **C2: HUMANITIES (3 - 6 UNITS)**

Students who complete the Humanities requirements will:

1. become acquainted with significant works of art, literature, music, and philosophy from a range of cultures;
2. understand the development over time of their own and other cultures;
3. develop an understanding of the relationships among various forms of human expression both within an era and culture and across these boundaries.

### **C3: INTEGRATIVE STUDIES IN ARTS AND HUMANITIES (3-UNITS UPPER-DIVISION)**

Upper-division General education courses in the arts and humanities build on the lower division courses by developing integrated humanistic and artistic world-views.

Students who complete the requirement for Integrative Studies in the Arts and Humanities requirements will be able to:

1. discuss the relationships among the various disciplines that comprise the humanities;
2. place these relationships within a historical context;
3. relate the humanities to modern life;
4. demonstrate the use of imagination and synthesis through aesthetic and intellectual activities.

## **Area D: Social Sciences (9 units)**

Courses in the Social Sciences help students better understand how social, political, and economic institutions and behavior are intricately interwoven. In an increasingly complex, interdependent, and changing world, individuals must learn how to cope with pressing social problems and

how to manage and improve the conditions, institutions, and outcomes that affect them. Area D courses introduce students to the primary structural levels of analysis used in the various disciplines and demonstrate the significance of historical backgrounds to contemporary behavior.

### **D1. Individual Perspectives, Groups and Society (3 units)**

On completing a course in this category a student will be able to demonstrate an understanding of the:

1. basic concepts and methods necessary for studying the personal functioning and social behavior of individuals.
2. influence of psychological and social processes on the development of the perception of self and others.
3. nature of cognition and language and their relationship to critical aspects of social and personal development.
4. social and psychological variations in individual behavior.
5. conceptual and methodological frameworks necessary for studying groupings in society.
6. interrelationships between various institutions and group dynamics within a society, and their role in generating and resolving social issues.
7. cultural and group diversity and applications of the concept of cultural relativity.

### **D2. Global and Historical Perspectives (3 units)**

On completing a course in this category, a student will be able to demonstrate an:

1. awareness of and knowledge about the international system and world environment.
2. understanding of the global interdependencies among people, outlooks, institutions and attributes.
3. appreciation of the role of the individual as an international observer, analyst and participant.
4. ability to analyze historical change and cultural process.
5. understanding that current issues and conditions are shaped by their past historical and cultural development.
6. understanding of the complexity of evolutionary and historical processes and of the limits on and potential for social change.
7. understanding of how sciences which deal with the human past formulate and test hypotheses to understand change and how they evaluate sources, whether human fossils, artifacts or written documents.

### **D3. Integrative Studies in the Social Sciences (3 units - upper division)**

The categories of upper division courses in the social sciences represent integrative themes and contemporary research applications. Focusing on specific topics, students will explore the conceptual and methodological links among the social sciences or subfields of a discipline. Courses will stress contemporary research, interpretations, issues and trends. Specific objectives of the categories are as follows:

1. Courses in individual processes focus on the interaction among factors that shape the individual.
2. Courses in social issues focus on contemporary social, political or economic concerns and problems using a variety of perspectives in the social sciences.
3. Courses in global trends focus on social, political, environmental and economic processes seen from a global perspective.
4. Courses in social change focus on major processes of continuity and development and on the origination and impact of new ideas, social structures and technologies.
5. Courses in cultural pluralism focus on the nature of cultural diversity and the processes of cultural interaction, interethnic relations and cultural integration on community, national and international scales.

Students must take 9 units from the GE category. Select one course from each category below and one more course from either category 1 or 2. A student may not take all 3 courses in this area from a single academic department.

## **Area E: Lifelong Learning and Self-Development (3 units)**

Area E courses are designed to equip learners for lifelong understanding and development of themselves as integrated physiological, social, and psychological beings. Drawn from a wide range of disciplines and perspectives, Area E courses focus on the development of skills, abilities, and dispositions that not only promote students' academic success but also enhance their lives after college.

Students who complete the Lifelong Learning and Self-Development requirement will be able to:

1. Demonstrate an understanding of oneself as an integrated physiological, social and psychological organism; and
2. Discuss key relationships of humankind to the social and physical environment, including matters selected from the following: human behavior, sexuality, nutrition, physical and mental health, stress management, financial literacy, social relationships and relationships with the environment, implications of death and dying and avenues for lifelong learning, including those based on modern technology.

## **Area F: Ethnic Studies (3 units)**

Courses in Area F explore the interrelatedness and intersection of race and ethnicity with class, gender and sexuality and other forms of difference, hierarchy and oppression. Courses are grounded and centered in the cultures, concrete-lived conditions, and living histories of peoples of color in the United States. Courses have an explicit commitment to linking scholarship, teaching and learning to intellectual traditions and scholarly contributions of ethnic studies, social engagement (service and struggle), social change, and social justice.

1. Analyze and articulate concepts such as race and racism, racialization, ethnicity, equity, ethnocentrism, eurocentrism, white supremacy, self-determination, liberation, decolonization, sovereignty, imperialism, settler colonialism, and anti-racism as analyzed in any of the following disciplines: Africana Studies, Asian Pacific Studies, Chicana and Chicano Studies, and Indigenous Peoples of the Americas.
2. Apply theory and knowledge produced by Native American, African American, Asia American and Pacific Islander, Chicana and Chicano, and/or LATina and LATino communities to describe the critical events, histories, cultures, intellectual traditions, contributions, lived-experiences and social struggles of those groups with a particular emphasis on agency and group-affirmation
3. Critically analyze the intersection of the race and racism as they relate to class, gender, sexuality, religion, spirituality, national origin, immigration status, ability, tribal citizenship, sovereignty, language, and/or age in Native American, African American, Asian American and Pacific Islander, Chicana and Chicano, and/or LATina and LATino communities.
4. Critically review how struggle, resistance, racial and social justice, solidarity, and liberation as experienced, promoted and enacted by Native American, African American and Pacific Islander, Chicana and Chicano, and/or Latina and Latino communities are relevant to current and structural issues such as communal, national, international, and transnational politics as, for examples, in immigration, reparations, settler-colonialism, multiculturalism, and language policies.
5. Describe and actively engage with anti-racist and anti-colonial issues and the practices and movements that empower Native American, African American, Asian American and Pacific Islander, Chicana and Chicano, and/or Latina and Latino communities to build a just and equitable society.

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## Accounting (ACC)

**ACC 230. Financial Accounting. (3 Units)**

A survey of financial statements under existing generally accepted accounting principles. Emphasis is on underlying concepts, principles, and mechanics to make the statements meaningful to users.

Offered Fall, Spring, Summer, All terms

**ACC 231. Managerial Accounting. (3 Units)**

Prerequisite: ACC 230. Accounting for planning and control. Topics include objectives, terminology, concepts, product costing, cost patterns, cost-volume-profit analysis, contribution margin, profit planning, standard costs, flexible budgets, decentralized operations, relevant costs and uses of accounting data for managerial decision making.

Offered Fall, Spring, Summer

**ACC 330. Intermediate Accounting I. (3 Units)**

Prerequisite: ACC 230. Professional level accounting, conceptual framework, balance sheet, income statement, compound interest, cash, receivables, inventories, fixed and intangible assets, depreciation, current and contingent liabilities.

Offered Fall, Spring, All terms

**ACC 331. Intermediate Accounting II. (3 Units)**

Prerequisite: ACC 330. Professional level accounting, bonds and long-term notes, short-term and long-term investments, capital stock, retained earnings, income recognition, income taxes, post-employment benefits, leases, statement of cash flows, earnings per share, changes and errors, financial analysis.

Offered Fall, Spring, All terms

**ACC 333. Income Taxation I. (3 Units)**

Federal income tax law as related to individuals and sole proprietorship. Offered Fall, Spring, All terms

**ACC 336. Intro To Internal Audit. (3 Units)**

Prerequisite: ACC 231 and CIS 270. Survey of contemporary internal auditing with emphasis on financial, compliance, and operational auditing. Coverage will include audit planning, specific audit techniques, auditing in a computerized environment, emerging issues and report writing. Course includes case studies and computer applications.

Offered Fall, Spring

**ACC 337. Cost Accounting. (3 Units)**

Prerequisite: ACC 231. The nature, objectives, and procedure of cost accounting and control; job costing and process costing; joint product costing; standard costs; theories of cost allocation and absorption; uses of cost accounting data for management decision making.

Offered Fall, Spring, Summer

**ACC 339. Acctg & Ctrl Multnl Comp. (3 Units)**

Prerequisite: ACC 231. Study of comparative accounting systems, international accounting standards, currency translation and foreign exchange, transfer pricing, reporting, taxation, auditing and control problems.

Offered Fall, Spring, All terms

**ACC 340. Accounting Information Systems. (3 Units)**

Prerequisites: ACC 230, ACC 337, and CIS 270 are required. Focuses on both conceptual models and physical implementation of accounting information systems. Topics include the nature and relevance of accounting internal controls, the relationship of accounting systems to the functional areas of accounting, and contemporary information technology

Offered Fall, Spring

**ACC 385. Entrepreneurial Accounting. (3 Units)**

Explores accounting issues unique to start-ups, venture capital and entrepreneurship, and includes aspects involving the setup and use of low-cost computer accounting programs with POS and inventory management.

Offered All terms

**ACC 430. Advanced Accounting. (3 Units)**

Prerequisite: ACC 331. Concepts and principles of partnerships, business combinations, accounting for multinational enterprises, and introduction to governmental and nonprofit accounting.

Offered Fall, Spring

**ACC 431. Govt & Nonprofit Acctg. (3 Units)**

Prerequisite: ACC 230. Nature of fund accounting systems used by governments and nonprofit entities. Topics include principles underlying fund accounting, budgeting procedures, discussion of types of funds used. Course requirements include computerized term project.

Offered Fall, Spring

**ACC 433. Income Taxation II. (3 Units)**

Federal income tax law as related to partnerships, corporations, estates and trusts; estate and gift taxes.

Offered Fall, Spring

**ACC 435. Auditing. (3 Units)**

Prerequisites: ACC 330 and OMG 321. The audit environment, reports, professional ethics, objectives, evidence and documentation, planning, analytical review, materiality and risk, internal control, attribute and variable sampling, EDP systems, transactions cycles, balance sheet and income statement accounts, compilations, reviews, and other special purpose reports.

Offered Fall, Spring, Summer

**ACC 502. Advance Cost Management and Related Accounting. (3 Units)**

Prerequisite: ACC 230 or equivalent. Application of functional accounting in contemporary business. Decision making through the integrated use of financial accounting (reporting to outside interests) and managerial accounting (accounting information for internal decision making) including relevant income tax consequences. Case analysis oral/written presentation and computer usage required.

Offered Infrequent

**ACC 510. Research of Accounting Principles. (3 Units)**

Develops a student's ability to conduct accounting research employing the FASB Codification of U.S. GAAP, U.S. tax laws, international auditing and governmental standards and guidance. Research will culminate in written reports on accounting issues. Restricted to majors.

Offered Fall

**ACC 520. Accounting Ethics and Corporate Social Responsibility. (3 Units)**

Examines the ethical responsibilities of accounting professionals by utilizing various authoritative codes of conduct, professional standards and applied ethical theory. This course also examines the concept of corporate social responsibility by analyzing complex CSR-related issues. Restricted to majors.

Offered Fall

**ACC 530. Forensic Accounting and Cybersecurity for Accounting MS Program. (3 Units)**

Explores the forensic accountant's role in today's economy. Topics covered include fraud detection and investigation techniques, cyber security, valuation of closely held businesses, lost profits analyses, types of litigation support services, and legal concepts governing expert witness testimony.

Offered Fall, Spring

**ACC 540. Advanced Accounting. (3 Units)**

Concepts and principles of partnerships, business combination, accounting for multinational enterprises, and introduction to governmental and nonprofit accounting

Offered Fall, Spring

**ACC 550. Advanced Auditing for Accounting MS Program. (3 Units)**

Masters-level course designed to enhance students' understanding of the following: (1) fundamental auditing concepts, (2) the application of auditing standards to real-world cases, (3) a risk-management approach to handling client acceptance and continuance issues, and (4) ethical issues faced by auditors.

Offered Fall, Spring

**ACC 560. Accounting Information Systems and Associated Internal Control Frameworks. (3 Units)**

Master-level course with focus on both conceptual models and physical implementation of accounting information systems.

Offered Fall, Spring

**ACC 570. Financial Statement Analysis and Valuation. (3 Units)**

Course designed to prepare students to interpret and analyze financial statements in greater depth for tasks such as credit and security analyses, lending and investment decisions, and other decisions that rely on financial data from the perspective of financial statement users.  
Offered Fall, Spring

**ACC 580. Strategic Tax Planning. (3 Units)**

Provides a comprehensive understanding of tax-planning framework as it relates to business transactions of all parties, considerations of implicit and explicit taxes as well as considerations of various costs and nontax issues of business entities.  
Offered Fall, Spring

**ACC 590. Advanced Capstone Governmental and Non-Profit Accounting. (3 Units)**

Prerequisite: ACC 540 is required. Capstone course that covers Governmental and Non-Profit Accounting, which includes the nature of fund accounting systems used by governments and nonprofit entities.  
Restricted to majors.  
Offered Fall, Spring

**ACC 595. Selected Topics in Accounting. (3 Units)**

Prerequisites: Graduate standing and ACC 502. Intensive study of a specialized area of Accounting on a selected topic of particular interest to faculty and students. Three hours of seminar per week. Specific topic listed in class schedule. Repeatable course.  
Offered Infrequent

## Africana Studies (AFS)

**AFS 100. The African American Experience. (3 Units)**

Examines the historical and contemporary manifestations of the sacred and secular continuum in African Diaspora Arts and Religion. Will study examples of music, dance, drama, literature and visual arts expressions of religion and theological values.  
Offered Fall, Spring

**AFS 200. Intro to Africana Studies. (3 Units)**

An introduction to the discipline of Africana Studies. An overview of the philosophical underpinnings, evolution, theories and concepts, and practical applications of the disciplines; and the African-centered, holistic method of studying the African world.  
Offered Fall, Spring

**AFS 201. African World Civilizations. (3 Units)**

Students study African civilization from antiquity to the present. The course explores African civilizations interaction with and contribution to world civilizations like Greek, Asian, European and American civilizations.  
Offered Fall, Spring

**AFS 205. Introduction to Hip Hop. (3 Units)**

Hip Hop, the music and lifestyle, is rooted in African American urban life in the middle 1970's on the streets of New York City. This course will critically explore the evolution of Hip Hop as a socio-cultural political movement. This course is restricted to 1st time Freshman going through the First Year Experience. Offered Spring term only.  
Offered All terms, Fall, Spring

**AFS 212. Intro To Comp Eth & Global Soc. (3 Units)**

Explores the lived experiences of the Ethnic/Global communities in the U.S. and their places of origin. The course will examine the socio-cultural dynamics in, Africana Asian-Pacific and Chicano/Latino communities.  
Offered Fall, Summer

**AFS 220. African World Peoples & Soc.. (3 Units)**

This course provides students with an overview of the geographical, historical, and cultural foundations of African world peoples and societies.  
Offered Fall, Spring

**AFS 231. Africana Literary Traditions. (3 Units)**

The course examines literary traditions developed by people of African descent who reside in Africa as well as throughout the world.  
Offered Fall

**AFS 241. His Afr World People:1450-1888. (3 Units)**

Examination of the history of African people throughout the world from 1450-1888. Identifies African migration, national culture, and political divisions. Examines the dynamics of the Transatlantic Slave Trade, and surveys the territorial dispersal of African people around the globe, their links and metamorphoses.  
Offered Infrequent

**AFS 242. His of Afrn People:1888-present. (3 Units)**

An examination of the history of African world peoples from 1888 with the end of slavery in Brazil to the present. The dynamics of apartheid and colonialism, nationalism, civil rights and liberation movements are central themes.  
Offered Infrequent

**AFS 295. Special Topics. (3 Units)**

An examination of a specific topic and/or subject area of Africana Studies. Repeatable for credit. Topic will be announced in Schedule of Classes.  
Offered As needed

**AFS 301. Africana Msc thgh 19th C.. (3 Units)**

Prerequisite: AFS 200 and AFS 220. Africana music course designed to introduce the music and musicians of Africa and the African Diaspora culture, establishing the African foundation of the musical practices and exploring early developments in the Diaspora with special focus upon developments in all parts of the Americas from 1619 to 1888.  
Offered As needed

**AFS 305. Theories and Approaches in AFS. (3 Units)**

Prerequisite: AFS 200. An introduction to the theories and approaches utilized by Africana Studies scholars. Focus is on the intellectual approaches to the study of African peoples from the perspective of Africana cultural imperative.  
Offered Fall

**AFS 306. Research Methods in AFS. (3 Units)**

Prerequisite: AFS 200. Introduces students to intellectual debates in research methods in Africana Studies. It focuses on the applicability and relevance of different methods of acquiring, interpreting and presenting Africana knowledge systems.  
Offered Spring

**AFS 307. Research Methods, Theories, and Approaches in African Studies. (3 Units)**

Prerequisites: AFS 200 or permission from instructor. Introduces students to intellectual debates in research methods, theories, and approaches in Africana Studies. Focuses on applicability and relevance of different methods of acquiring, interpreting and presenting Africana knowledge systems.  
Offered Fall



**AFS 310. The African American Experience in the US. (3 Units)**

Analyzes the social, political and cultural environment of African Americans in the U.S. Course examines the influence of race on African Americans' social and historical development. Course focuses on modes in which African Americans establish and maintain its cultural space. Offered Fall, Spring, Summer

**AFS 311. Afro Latinidad & the Caribbean. (3 Units)**

Explores the politics of globalization on Africana Communities over time. Focuses on how Africana communities have constructed new space in the Western Hemisphere. Emphasizes the impact of race, class and ethnicity on Africana community's development in Latin America and the Caribbean. Offered Fall, Spring

**AFS 312. Cultural Pluralism: Ethnic & Global Society. (3 Units)**

Prerequisites: ENG 111, AFS 201 and AFS 220 or consent of Department Chair. In consultation with an Africana Studies faculty, student undertakes a major project such as the following: original research and thesis on a given African world historical or theoretical topic; a creative project such as an original musical composition, art work or performance with supporting scholarly program notes. Offered Fall, Spring

**AFS 330. Africana Lit. & Culture. (3 Units)**

Prerequisite: AFS 231. Survey course that introduces students to both Africana literature and culture. Provides students with an opportunity to study and appreciate major Africana political, cultural and historical issues and experiences through the lenses of Africana literature. Offered Spring

**AFS 331. Key Movements: African Literature and Culture. (3 Units)**

Survey course that introduces students to both African literature and culture. Provides students with an opportunity to study and appreciate major African political, cultural, and historical issues and experiences through the lenses of African literature. Offered Fall, Spring

**AFS 332. Key Movements: Harlem Renaissance. (3 Units)**

Explores the artistic productions of key figures, scholarly works analyzing significant events and films of the time. Focuses on works examining race, culture, and social issues pertinent to people of African descent. Explores how the Harlem Renaissance influenced later movements. Offered Fall, Spring, Summer

**AFS 333. Black Movements of the Sixties. (3 Units)**

Explores the dismantling of the overt practice of segregation by exploring the roles of the Civil Rights Movement and the Black Power Movement, as well as the literature, art and music which contributed to their vitality. Offered Fall, Spring

**AFS 334. African Culture and Art. (3 Units)**

Examines the historical and contemporary manifestations of the sacred and secular continuum in African Diaspora Arts and Religion. Will study examples of music, dance, drama, literature and visual arts expressions of religion and theological values. Offered Fall, Summer

**AFS 340. Africana Womanhood. (3 Units)**

Examines the economic, political and social position of Africana women in the global diaspora by analyzing the legal apparatuses, historical context and present-day realities of racism, sexism, class oppression and homophobia that impacts Africana women's daily lives Offered Fall, Spring

**AFS 395. Spec Topics in Africana Stud. (3 Units)**

Prerequisites: Consent of instructor. Intensive study of a single period, figure, movement, or idea in African world history/culture. Course repeatable for credit. Topics will be announced in Schedule of Classes. Offered Infrequent

**AFS 396. Practicum in Africana Studies. (3 Units)**

Prerequisites: Consent of instructor. Supervised work experience in an African or African diaspora community with emphasis upon social and economic development in a local, national and/or international setting. Supervision emphasizes training and application of practical and technical skills. Students will be placed in settings suitable to their academic specialization. CR/NC grading. Repeatable courses. One hour of tutorial per week is required with instructor. Offered Infrequent

**AFS 423. Africana Leaders Seminar. (3 Units)**

Prerequisite: AFS 200 is recommended. An examination of the life and times of important Africana leaders and their legacies to the African world. Emphasis will be on the major competing trends in the interpretations of the leaders's legacies and the interests that shape these trends. Three hours of seminar per week. Offered Fall

**AFS 424. Africana Political Thought. (3 Units)**

Prerequisite: AFS 220 is recommended. Examines political opinions and ideas of Africana thinkers and leaders. Interrogates Africana political leaders and thinkers understanding and interpretation of the political dynamics in the African world. Offered Spring

**AFS 490. Seminar in Africana Studies. (3 Units)**

Prerequisites: Completion of GWAR and consent of instructor. An integrative seminar serving as a capstone to the major in Africana Studies. A research report will be required. Additionally, other creative projects may be assigned in areas such as art, music composition and performance. Three hours of seminar per week. Offered Spring

**AFS 494. Independent Study. (1-3 Units)**

Prerequisites: Consent of the instructor. Independent study of particular topics in Africana Studies under the direction of a member of the Africana Studies faculty. Repeatable course. Offered As needed

**AFS 495. Special Topics in Africana St. (3 Units)**

Prerequisite: Consent of instructor. Intensive study of an issue, concept or theme in Africana Studies. May be taken for credit only once for the major. Repeatable course. Offered As needed

**AFS 496. Internship. (3 Units)**

Prerequisite: Consent of instructor. Under the direction of the internship faculty associate, students work in an African diaspora community applying skills and knowledge learned in the classroom, as well as the workplace. Repeatable course. Offered Fall, Spring

**AFS 497. Directed Reading. (1-3 Units)**

Prerequisite: Consent of instructor. Directed readings on a particular Africana Studies topic or subject area under the direction of a member of the Africana Studies faculty. Repeatable course Offered Fall, Spring

**AFS 498. Directed Research. (1-3 Units)**

Prerequisite: Consent of instructor. Introduces students to intellectual debates on research methods in Africana Studies. Focuses on selected articles that discuss different methods of acquiring, interpreting and presenting Africana knowledge. Repeatable course.  
Offered Fall, Spring

**AFS 499. Senior Project. (3 Units)**

Critical analysis of Asian and Pacific Islander American artists and their creative expression in music, television, film, and on the internet. Examines issues of stereotyping and exclusion in Hollywood as well as empowerment through artistic expression and community engagement.  
GE F1  
Offered As needed

**AFS 590. Afr Amer Lit & Pol Thought. (3 Units)**

Offered As needed

**AFS 594. Independent Study. (1-4 Units)**

Prerequisites: Consent of Department Chair. Independent investigation of a research problem or directed readings in a selected area of Africana Studies.  
Offered As needed

**AFS 595. Special Topics. (3 Units)**

Prerequisite: AFS 201 is recommended. An intensive study of a concept, movement, school of thought, or individual within the discipline of Africana Studies. Intended for students with senior or graduate standing. Specific topic listed in Class Schedule. Repeatable course. Three hours of seminar per week.  
Offered As needed

**AFS 596. Pract in Teach Africana Stdy. (1-4 Units)**

Offered As needed

**AFS 597. Graduate Directed Reading. (1-4 Units)**

Prerequisite: Consent of instructor and classified graduate standing. Extensive reading in selected areas under the guidance of a faculty mentor. Repeatable course.  
Offered As needed

**AFS 598. Graduate Directed Research. (1-4 Units)**

Independent research under direction of supervising faculty member in Africana Studies. Repeatable for credit for a maximum of six units.  
Offered As needed

**AFS 599. Final Project. (1-4 Units)**

In consultation with a faculty member, writing of a master's thesis or completion of a project. Choice of area requires prior consent of advisor. Repeatable course.  
Offered As needed

**AFS 600. Graduate Continuation Course. (1 Units)**

Graduate students who have completed their course work but not their thesis, project, or comprehensive examinations, or who have other requirements remaining for the completion of their degree, may maintain continuous attendance by enrolling in this course. Signature of graduate program coordinator required.  
Offered As needed

## Anthropology (ANT)

**ANT 100. Introduction to Cultural Anthropology. (3 Units)**

Examination of the anthropological approach to the study of humans. Explores the concepts of culture, cultural institutions and processes, the evolution of cultural systems, and the application of anthropology to current social problems.  
Offered Fall, Spring, All terms

**ANT 101. Intro to Biological Anthro. (3 Units)**

Examination of human biology. Introduces scientific approaches to genetics and evolution, primate evolution and behavior, evidence from fossil record for human evolution, and biological variation among modern humans, human growth and disease patterns, and human demography.  
Offered Fall, Spring

**ANT 102. Ancient Civilizations. (3 Units)**

Examination of origins and development of world civilizations. Using evidence from the archaeological record, the written record, the arts, literature, and the sciences, human cultural achievements are examined from the earliest beginnings to the sixteenth century.  
Offered Fall, Spring

**ANT 115. Intro To Arch & Phys Anth. (3 Units)**

Introduction to archaeological methodology and human biology. Review of fossil evidence for the biological evolution of humans and archaeological evidence for the major stages in cultural development.  
Offered Infrequent, All terms

**ANT 120. Pop Culture Archaeology. (3 Units)**

Prerequisite(s): None. Recommended prerequisite(s): None. Co-requisite(s): None. Recommended co-requisite(s): ANT 100, ANT 102. Ancient aliens, government conspiracies, lost civilizations, apocalyptic prophecies, mysterious technologies; Archaeology seems to inspire an unlimited stream of imaginative cult theories. From Indiana Jones to Reality TV, depictions of archaeologists in popular culture have skewed the general public's understanding of archaeology and archaeologists. In this course, we will critically examine pseudoscience, archaeological frauds, and implausible interpretations with an eye to dispelling fantastical or cult depictions of the past and present. The ability to deconstruct a range of expertly designed false claims and insufficient datasets is an increasingly important skill in the age of social media. Deliberate misrepresentations and innocent misunderstandings alike have the capacity to cloud our understanding of the human past and harm people in the present. We will critically examine ideas still prevalent today that promote racist ideologies by diminishing the accomplishments of indigenous cultures around the world. As we explore the achievements of ancient societies from every continent, you will gain a better appreciation for how much we all have in common and how societies are constantly changing.  
Offered Fall, Spring

**ANT 310. Culture & Personality: Psychological Anthropology. (3 Units)**

Examination of the human personality within cultural contexts. Topics include personality formation and child-rearing; stress and mental/physical health problems which occur with cultural change; aging, roles and communication among local and worldwide ethnic groups.  
Offered Fall, Spring

**ANT 312. Language And Culture. (3 Units)**

Analysis of language as an aspect of culture. Relationship between language and culture patterns, dynamics of language and cultural change; the problem of meaning.  
Offered Fall, Spring, Summer

**ANT 313. Meth & Tech In Arch. (3 Units)**

Prerequisite: Consent of instructor. Basic procedures and techniques used by archaeologists to excavate, analyze and interpret prehistoric remains. Field and/or laboratory activities. Variable topics will include field procedures, laboratory procedures or archaeological method and theories. Six hours of activity per week.

Offered Spring

**ANT 315. Magic & Religion. (3 Units)**

A comparative analysis of magico-religious systems in their cultural setting and the role of the supernatural in human societies.

Offered Spring

**ANT 330. North American Indians. (3 Units)**

Comparative study of cultural patterns of selected past and present native peoples of the United States and Canada .

Offered Spring

**ANT 333. Ancient Peoples Of Mexico. (3 Units)**

The history and archaeology of cultures of Central Mexico and Guatemala. Alternating topics include the rise of the Olmecs to the establishment of Teotihuacan and Tenochtitlan and the rise of Izapa to the development of classic and Postclassic Maya Civilization. A Repeatable course with alternate topics.

Offered Fall

**ANT 334. Mesoamerica Past and Present. (3 Units)**

Explores historical and contemporary trends among the diverse cultures of Mexico and Central America from Pre-Columbian era to today. Focus on indigenous peoples and relationships between indigenous and non-indigenous peoples.

Offered Fall

**ANT 335. Comparative Cultures. (3 Units)**

The world's cultural and social diversity from a sociocultural anthropological perspective. Variable topics include regional surveys (North America, South America, Africa, Eurasia) and/or selected themes in the study of culture. Repeatable course with alternate topics.

Offered Infrequent

**ANT 336. Comparative Cultures: Culture, Environment and Globalization. (3 Units)**

Ethnographic and comparative approach to the study of the diverse cultures of the world. Examines substance patterns and sociopolitical organization of a variety of cultures in the past and present.

Offered Spring

**ANT 337. Ethnography and Film. (3 Units)**

Exploration of crosscultural differences as documented in visual images and texts dealing with three traditional societies, the Yanomami, the Dobe, and the Dugum. Analysis of subsistence and economy, social cohesion and social conflict, world view, and representations of other societies in a world characterized by dramatic cultural changes.

Offered Fall

**ANT 338. Mainland Southeast Asia. (3 Units)**

Anthropology of Mainland Southeast Asia (Cambodia, Laos, Myanmar [Burma], Thailand, Vietnam) from ancient to modern times. Analysis of how natural and social environments (geography, climate, migration, trade, religion, arts, and state craft) contribute to the region's cultural diversity, commonalities, and change through time.

Offered Spring

**ANT 339. Mexico and Central America. (3 Units)**

Anthropology of Mesoamerica's indigenous cultures. Examines cultural patterns developed in prehispanic and colonial periods, and analyzes how historical factors, environmental conditions, and political and economic environments have influenced contemporary situations for Indian peoples of the region.

Offered Infrequent

**ANT 340. Peoples of Ancient Egypt. (3 Units)**

Anthropology of ancient Egyptian civilization from its earliest beginnings to the end of the New Kingdom. Ancient monuments, wall paintings, statues, tombs and hieroglyphic writing are examined to gain insight into Egyptian culture and to illuminate the interaction between Egyptians and foreign peoples.

Offered Infrequent

**ANT 341. Folklore. (3 Units)**

Theory and method in the study and collection of folktales, myths, legends, proverbs, riddles, and other forms of verbal tradition.

Offered Infrequent

**ANT 342. South America. (3 Units)**

Anthropology of cultural differences expressed by indigenous cultures of South America. Critical analysis of such topics as environment and adaptation, kinship and social structure, social cohesion and social conflict, symbolism and ritual, and representations of other societies in a world characterized by dramatic cultural changes.

Offered Spring

**ANT 344. Cross-Cult Persp: Aging. (3 Units)**

Survey and analysis of cultural influences on the physical and social processes of aging. Examination and comparison of societal roles available to and assumed by older men and women of various cultures.

Offered Infrequent

**ANT 345. Medical Anthropology. (3 Units)**

Cross-cultural survey of critical problems common to anthropology and health-related fields; cultural ecology of health and pathology, folk medical practices; medical beliefs in relation to other aspects of culture; public health and medical education problems as affected by ethnic culture; effects of acculturation upon mental and physical health.

Offered Infrequent

**ANT 346. Anthropology Of Work. (3 Units)**

Examination of the significance of work in contemporary societies. Cross-cultural comparisons of workers' life styles. Impact of changing cultural conditions on work patterns.

Offered Spring

**ANT 348. Society & Automated Tech. (3 Units)**

Examination of the ramifications of the installation of automated systems on social and economic conditions of contemporary and future societies. Analyses of culture change issues and the interrelationships between automated technologies and lifestyles.

Offered Infrequent

**ANT 349. Anthropology Of The Future. (3 Units)**

Examination of newly emerging questions and ideas about the cultural future of humankind. Topics of discussion include the relevance of anthropology to building a Solar System culture, the possibility of extraterrestrial contact, and alternative cultural futures.

Offered Infrequent

**ANT 350. Prehistory: Africa & Eurasia. (3 Units)**

Examination of the archaeological record of the Old World (Europe, Africa, Asia). Emphasis on the study and critical analysis of excavated materials, processes of culture change, and reconstructions of social patterns. Variable topics will include the prehistory of different culture areas and chronological periods. Repeatable course.  
Offered Spring even

**ANT 351. Prehistory of the Americas. (3 Units)**

Examination of the archaeological record of the New World (North America, Mesoamerica, and Andean area). Emphasis on critical analysis of excavated materials, processes of culture change, and reconstructions of social patterns. Variable topics will include the prehistory of different culture areas and chronological periods. Repeatable course.  
Offered Spring odd

**ANT 352. Human Osteology. (3 Units)**

Prerequisite: ANT 101 is required. Introduction to human osteology, bone biology and growth, and paleopathology. students will learn differences between human and non-human remains, determine left and right sides of bones, and identifying important skeletal landmarks.  
Offered All terms, Fall odd

**ANT 353. Forensic Anthropology. (3 Units)**

Prerequisites: ANT 101 is required. ANT 352 is recommended. Consent of instructor is required. Examines the techniques used to create a biological profile from human skeletal remains. Students will learn the medicolegal implications of using forensic anthropology techniques to solve forensic cases involving human skeletal remains.  
Offered Spring even

**ANT 354. Biological Anthropology. (3 Units)**

Prerequisites: ANT 101 is required. In depth analysis of the topics and theories in biological anthropology and is meant to be a continuation of ANT 101.  
Offered Fall

**ANT 355. Human Variation. (3 Units)**

Prerequisite: ANT 101 is required. Surveys the biological variation within and between human populations, including the basic principles of genetics, evolutionary theory, and the intersection of culture and genetics. Students will use anthropological and biological theories to understand differences between human populations.  
Offered Spring odd

**ANT 360. Visual Anthropology. (3 Units)**

Survey of anthropological approaches to the study of visual/symbolic communication, the use of images for the description and analysis of human behavior, and modes of producing visual ethnographic texts.  
Offered Spring odd

**ANT 370. Peoples Of The Old World. (3 Units)**

A survey of one or more cultural regions of the old World. Specific topics and areas may vary; for example: Europe, Sub-Saharan Africa, Middle East, India, Asia, Southeast Asia, Pacific. Repeatable course.  
Offered Infrequent

**ANT 371. Historical and Cultural Perspectives in Disability Studies. (3 Units)**

Theoretical and historical perspectives on issues pertaining to disability studies/research. The course explores cultural concepts of normalcy and disability and reviews ethnographic contexts of disability in a variety of communities in the United States and the world.  
Offered Fall, Spring, Summer

**ANT 375. Ethnographic Meth & Tech. (3 Units)**

Prerequisites: ANT 100 and consent of instructor. Basic methods in the ethnographic study of contemporary communities. Students conduct supervised field work using audiovisual recording and computer techniques to collect and analyze data. Two hours of lecture and two hours of activity (including computer lab) per week.  
Offered Fall

**ANT 388. Anthro Theories Of Behav. (3 Units)**

Prerequisite: One course in Anthropology. Historical survey and critical analysis of major schools of anthropological thought employed in explaining sociocultural behavior and phenomena. An integrative examination of current developments, issues and applications of the field of anthropology.  
Offered Fall, Spring, All terms

**ANT 389. Transmission Of Culture. (3 Units)**

Examination of the concept of culture; emphasis on exploration of cross-cultural commonalities and differences in societal responses. Analysis of dynamics of cultural change with reference to ethnic and immigrant groups and institutions in America today. Topics include roles, institutions, educational processes, family interaction and structure of social systems.  
Offered Infrequent

**ANT 390. Applied Anthropology. (3 Units)**

Prerequisite: ANT 100. Course examines the applications of anthropology to the solution of contemporary social problems. The course examines the methods of applied anthropology, the relationship between applied research and theory, and the ethical issues in the practice of anthropology.  
Offered Fall

**ANT 410. Environmental Policy & Planning. (3 Units)**

Examination of natural resource policy on local, national, and international levels, across multiple and diverse ecosystems. Emphasis on contemporary management and conservation strategies in the context of social, scientific, environmental, and legal-institutional factors.  
Offered Infrequent

**ANT 455. People Culture, and the Environment. (3 Units)**

Course examines the political and economic aspects of relationships between society and nature, especially with reference to current environmental and human rights issues.  
Offered Spring

**ANT 456. Quantitative Methods for Anthropology. (3 Units)**

Prerequisite: MAT 131 is recommended. Provides an overview of the basic principles and techniques for developing a quantitative research design, collecting, and analyzing data, and presenting results. By the end of the course, all students should be proficient in basic statistical analysis in anthropological research.  
Offered Spring odd

**ANT 490. Proseminar in Anthropology. (3 Units)**

Prerequisite: ANT 100, ANT 101, and ANT 102. Explores careers in Anthropology, examines distinctions between academic and applied Anthropology, reviews career options within sub-fields of Anthropology, examines professional activities of Anthropologists, explains research design.  
Offered Spring

**ANT 494. Independent Study. (1-4 Units)**

Prerequisite: Consent of instructor. Independent study of a particular problem under the direction of a member of the anthropology department. Repeatable course.

Offered Fall, Spring

**ANT 495. Selected Topics In Anthropology. (1-4 Units)**

Prerequisite: Consent of instructor. An intensive study of an issue, concept or theory in anthropology that is of special interest to both the faculty member and the students. Repeatable course. Three hours of lecture per week.

Offered Fall, Spring

**ANT 498. Directed Research. (1-3 Units)**

Prerequisite: Consent of instructor. The student develops and completes an individual study under faculty supervision. Repeatable course.

Offered As needed

**ANT 510. Environmental Policy and Planning. (3 Units)**

Examination of natural resource policy on local, national, and international level, across multiple and diverse ecosystems. Emphasis on contemporary management and conservation strategies in the context of social, scientific, environmental, and legal-institutional factors.

Offered Infrequent

**ANT 555. People, Culture and the Environment. (3 Units)**

Examines the political and economic aspects of relationships between society and nature, especially with reference to current environmental and human rights issues.

Offered Spring

**ANT 595. Special Topics in Anthropology. (3 Units)**

Course exposes students to cross-cultural approaches to environmental problems and develops environmental problem-solving skills based on the holistic approach of anthropology. Students will examine the political and economic aspects of relationships between society and nature in reference to current environmental and human rights issues.

Offered All terms, Infrequent

## Art (ART)

**ART 100. Looking At Art. (3 Units)**

Learning to perceive art through discussion of selected historical periods, development of a descriptive vocabulary, and observation of actual works of art. Introduction to theories of interpretation and evaluation.

Offered Fall, Spring, Summer

**ART 101. Experiencing Creative Art. (3 Units)**

Learning modes of artistic expression through discussion of theories of composition, examination of the lives and goals of selected artists and art movements, and creation of individual and group art projects. Discussion of projects to develop skills in art criticism. This course is restricted to 1st time Freshman going through the First Year Experience.

Offered Fall, Spring

**ART 150. Ceramics 1. (3 Units)**

History of and introduction to ceramics design problems with ceramic materials emphasizing hand forming. Familiarization with low and high firing techniques. Six hours of activity per week. Fee required.

Offered Fall, Spring

**ART 165. Contemporary Art Practices 1. (3 Units)**

Prerequisites: ART 170 is recommended. Introduction to current art practices. Students will learn to conceptualize and produce contemporary art using a variety of materials, technologies and post-studio strategies.

Six hours of activity per week.

Offered All terms, Fall

**ART 170. 2-D Design. (3 Units)**

Principles of design as they relate to two dimensional elements (point, line, shape, texture, color, etc.) and their composition on the pictorial surface. Introduction to various two-dimensional media. Six hours of activity per week.

Offered Fall, Spring

**ART 171. 3-D Design. (3 Units)**

Principles of design as they relate to the three-dimensional elements (line, plane, volume, color) and their composition in space. Six hours of activity per week.

Offered Spring, All terms

**ART 179. Drawing 1. (3 Units)**

A foundation course in drawing, oriented to understanding and use of various approaches to graphic representation. Six hours of activity per week.

Offered Fall, Spring, All terms

**ART 180. Painting 1. (3 Units)**

A foundation course introducing the student to problems of pictorial space, organization, and color through the use of two-dimensional painting media. Six hours of activity per week.

Offered Spring, All terms

**ART 190. Sculpture 1. (3 Units)**

Basic theory and methods of creating sculptural form by additive processes. Emphasis on clay modeling and waste-mold casting. Six hours of activity per week. Fee required.

Offered Fall, All terms

**ART 301. Arts/Crafts For Non-Major. (3 Units)**

Development, experience, and application of arts and crafts projects of special value to Liberal Studies and Recreation majors. Six hours of activity per week.

Offered Fall, Spring, Summer

**ART 355. Ceramics 2. (3 Units)**

Prerequisite: ART 150 is required. History of and continuation to ceramics design problems with ceramic materials emphasizing hand forming.

Familiarization with surface enhancements will also be explored. Six hours of activity per week. Fee required.

Offered All terms, Fall, Spring

**ART 360. Contemporary Art Practices 2. (3 Units)**

Prerequisite: ART 165 is required. An intermediate course exploring current art practices. Students will advance conceptual ideas to produce contemporary art, expanding on the materials, technologies, and post-studio strategies introduced in Contemporary Art Practices 1. Six hours of activity per week. Fee required.

Offered Spring

**ART 361. Wheel Thrown Ceramics. (3 Units)**

Introductory course to the use of the potter's wheel Building on the skills learned in Ceramics I; emphasis on wheel-throwing techniques. Surface enhancements and kiln firing process will also be addressed. Six hour of activity per week.

Offered Fall

**ART 371. Drawing 2. (3 Units)**

Prerequisite: ART 179. Development of skill in graphic representation, stressing an understanding of pictorial space and organization. Problems of technique and media. Six hours of activity per week.

Offered Spring

**ART 373. The Figure 1. (3 Units)**

Prerequisite: ART 179. Development of the graphic representation of the human form. Live models used to introduce problems of form, structure, and anatomy. Six hours of activity per week. Fee required.

Offered Fall

**ART 380. Painting 2. (3 Units)**

Prerequisites: ART 170 and ART 180. Problems in the creative use of the materials of painting. Emphasis on visual concepts, interpretation, and expression. Six hours of activity per week.

Offered Fall

**ART 384. Painting 3. (3 Units)**

Prerequisite: ART 380. Development of a more comprehensive understanding of materials and methods as they related to current concepts of painting. Six hours of activity per week.

Offered Spring

**ART 385. Visual Media Studies 1. (3 Units)**

Prerequisites: ART 150, ART 165, ART 170, ART 171, ART 179, ART 180, ART 190 and ART 371 are required. ART 355, ART 360, ART 373, ART 380 and ART 392 are recommended. Intermediate course to begin creating a cohesive body of work. Emphasis on critical analysis, individual practice, group critique and current theoretical issues. Conceptualization and production of art can include any visual media. Six hours of activity per week.

Offered Fall

**ART 392. Sculpture 2. (3 Units)**

Prerequisite: ART 190 is required. Experiments in contemporary sculpture combining traditional concepts and the use of found objects and other readily available non-traditional materials. Introduction to wood and metal fabricating. Six hours of activity per week. Fee required.

Offered Spring

**ART 395. Special Topics in Art. (3 Units)**

Prerequisite: Consent of instructor. Study of special interest for students in the selected area of study. Topic and content will vary as announced.

Offered Infrequent

**ART 447. Visual Identity and Branding. (3 Units)**

Prerequisite: ART 344 is required. Study of building brands and brand identity. Visual systems and development of cultural messages are explored. Projects include development, research, client interaction, presentation, and independent student work. Six hours of activity per week. Fee required.

Offered Fall

**ART 463. Ceramics 3. (3 Units)**

Prerequisite: ART 355 or ART 361 is required. Advanced problems in techniques and aesthetic development in all aspects of the process of ceramics. Repeatable course. Six hours of activity per week. Fee required.

Offered Fall

**ART 474. The Figure 2. (3 Units)**

Prerequisite: ART 373. An advanced course in the graphic study of the human figure. Emphasis upon the creative interpretation of form and structure through media. Repeatable course. Six hours of activity per week. Fee required.

Offered Fall

**ART 485. Visual Media Studies 2. (3 Units)**

Prerequisites: ART 150, ART 165, ART 170, ART 171, ART 180, ART 190, ART 371 and ART 385 are required. ART 355, ART 360, ART 373, ART 380 and ART 392 are recommended. Capstone course to complete a cohesive body of work for exhibition. Emphasis on critical analysis, individual practice, group critique and current theoretical issues. Six hours of activity per week.

Offered Spring

**ART 486. Painting 4. (3 Units)**

Prerequisite: ART 384. Advanced study emphasizing aesthetic development, personal imagery, and individual critical awareness. Self-initiated studio problems. Repeatable course. Six hours of activity per week.

Offered Spring

**ART 492. Professional Practices Seminar. (3 Units)**

Prerequisites: ART 150, ART 170, ART 171, ART 180, ART 165, ART 190, ART 371, Senior Status, Exhibiting in Spring Exhibition required. Co-requisite: ART 385 is required. This capstone provides professional training in the business of art addressing exhibition design, portfolio development, grant writing, residencies, and graduate school applications. A requirement before participation in the senior exhibition.

Six hours of activity per week. Fee required.

Offered Fall

**ART 493. Special Studies In Art. (3 Units)**

Detailed study of material, method, concept, or period of Art. Repeatable course. Six hours of activity per week. Fee required.

Offered As needed

**ART 494. Independent Study In Art. (1-3 Units)**

Prerequisites: Senior standing as an Art major or minor is required; consent of instructor and department chair. ART 494 may not be substituted for a required course in the major or minor without prior consent of instructor and adviser. An art project undertaken with the advice and supervision of a Studio or Design Art faculty member. Repeatable course.

Offered Fall, Spring

**ART 495. Selected/Variable Topics in Art. (3 Units)**

Detailed study of art. Repeatable course. Restricted to juniors and seniors. Department consent required.

Offered As needed

**ART 496. Internship In Art. (1-3 Units)**

Prerequisites: Upper division standing and consent of instructor. Supervised on- or off-campus art related work in selected museums, galleries, art and slide libraries, studios or commercial firms. Practical application of knowledge to such areas as exhibition, conservation, cataloging, and Art History, Studio or Design activity. Term paper required. Repeatable course.

Offered Fall, Spring

**ART 498. Directed Rch Art History. (1-3 Units)**

Prerequisites: Senior standing as an Art major or minor is required; consent of instructor and department chair. Preparation of a research paper on a selected topic in the History of Art. Repeatable course.

Offered Fall, Spring

# Art History (ARH)

## **ARH 110. Introduction To World Art 1. (3 Units)**

An overview of the major works of art and architecture from Prehistoric times through the Middle Ages around the world. Each style of art is related to the society which produced it.

Offered Fall

## **ARH 111. Introduction To World Art 2. (3 Units)**

Prerequisite: ARH 110 is recommended. An overview of the major works of art and architecture from the Renaissance through the Modern Period. Each style of art is related to the society which produced it.

Offered Spring

## **ARH 322. Medieval to Gothic Art. (3 Units)**

Prerequisites: ARH 110 and ARH 111. Examination of the art of Early Europe with emphasis upon the Medieval and Gothic periods. Emphasis is placed upon the study of the many forms of art and architecture from Medieval to Gothic periods including manuscripts, reliquaries, churches and cathedrals.

Offered As needed

## **ARH 323. Renaissance to Baroque Art. (3 Units)**

Prerequisites: ARH 110 and ARH 111 are required. An examination of the painting, sculpture, and architecture of the Early, Middle and Late Italian Renaissance as well as related developments in the North. The transitions from the Renaissance to Mannerism is studied as is the flourishing of Baroque arts in Italy, Spain, and throughout the Golden Age of Dutch painting. Rococo arts in France and Germany are also considered.

Offered As needed

## **ARH 331. Modern Art. (3 Units)**

Prerequisites: ARH 110 and ARH 111 are required. History of visual arts in Europe and the United States from the middle of the 19th Century to World War II. Movements studied include Realism, Impressionism, Post-Impressionism, Early Abstraction, Expressionism, Cubism, Dada, Surrealism, and Abstract Expressionism.

Offered As needed

## **ARH 332. Modern Architecture. (3 Units)**

Prerequisites: ARH 110 and ARH 111 are required. An examination of key developments in the history of Modern Architecture beginning with the Beaux-Arts Style and progressing through Art Nouveau, The Chicago School, Early 20th Century Avant-Gardes, Art Deco, the International Style and Modern Architecture. Writings of important practitioners and theorists such as Louis B. Sullivan, Adolph Loos, Le Corbusier and others are also studied.

Offered As needed

## **ARH 333. Contemporary Art. (3 Units)**

Prerequisites: ARH 110 and ARH 111 are required. An examination of developments in the visual arts from 1980 to the present with emphasis upon the emergence of new media and forms. The course contextualizes art from the period within theoretical contexts of postmodernity.

Offered As needed

## **ARH 337. Art from Asia. (3 Units)**

Prerequisites: ARH 110 and ARH 111. An examination of arts from selected regions of Asia including China, Japan, and Korea that includes study of traditional and contemporary forms.

Offered As needed

## **ARH 350. Art Of The United States. (3 Units)**

Prerequisites: ARH 110 and ARH 111 are required. History of the visual arts in the United States from pre-colonization through the postwar period. Topics include the role of Native American and Spanish influences, European colonization, the Civil War, Gilded Age, World War I, Harlem Renaissance and World War II on the development of Art in the United States.

Offered Fall

## **ARH 352. Design History. (3 Units)**

Prerequisite: ARH 111 is required. Introduces students to the history and theory of design from the Renaissance to the modern poster and contemporary digital developments. The relationship of design to social and political developments through history is emphasized.

Offered Fall

## **ARH 363. Art of Latin America. (3 Units)**

Prerequisites: ARH 110 and ARH 111. A study of the history of Pre-Columbian arts of Mesoamerican from the Pre-formative through Post-Classic periods. Investigates architecture, monuments, sculpture, ceramics, and other arts from key archaeological sites. Concludes with examination of ancient Mayan art and culture.

Offered Fall odd

## **ARH 365. Art from Africa. (3 Units)**

Prerequisite: ARH 110 and ARH 111. Study of ancient arts from Africa with emphasis upon selected regions including North Africa, Western Sudan, West Africa and the Western and Eastern Congo Basins.

Offered As needed

## **ARH 366. Writing in the Visual Arts. (3 Units)**

Prerequisites: ARH 110 and ARH 111 are required. Designed to build skills in a range of writing found within the visual arts. Students analyze different forms of written communication within the visual arts and generate a body of writing that addresses different rhetorical situations and targeted audiences. Students generate, review in peer groups and revise samples of writing in the visual arts for presentation online.

Offered Fall

## **ARH 368. Women In Art. (3 Units)**

Prerequisites: ARH 110 and ARH 111 are required. An analysis of women as artists from the medieval period to the present with special emphasis given to women artists of the twentieth and twenty-first centuries.

Offered Spring odd

## **ARH 370. Art and Social Protest. (3 Units)**

Prerequisites: ARH 110 and ARH 111. History of the technological and stylistic developments in the architecture of the nineteenth and twentieth centuries.

Offered As needed

## **ARH 490. Seminar in Theories of Art Criticism. (3 Units)**

Prerequisites: Senior standing as an Art History major or minor or consent of instructor and department chair. ARH 110 and ARH 111 are required. An examination of various approaches to art criticism and theory with particular emphasis on modern developments. Subjects studied include Iconography, Psychoanalysis, Queer Theory, Post-Colonialism, Feminist Theory and Deconstruction.

Offered Spring odd

## **ARH 495. Selected/Variable Topics in Art History. (3 Units)**

Detailed study of a period, area, figure or movement in the history of art. Repeatable course.

Offered As needed

**ARH 496. Internship. (1-3 Units)**

Internship in Art History related field both on campus and externally. Restricted to juniors and seniors. Department consent required. Offered As needed

**ARH 498. Undergraduate Directed Research. (1-3 Units)**

Like and independent study, individual students will consult with Art History faculty to conduct an independent research project in Art History. Restricted to juniors and seniors. Department consent required. Offered As needed

## Arts Administration (AAD)

Please make the following changes for the major and minor as well:

There are changes needed for the Art History major as well. Here they are:

Corrections for B.A. in Art History:

Minor Requirements

**Currently reads: No minor is required. Art History majors are recommended to select a minor in another field of art.** This should read: No minor is required. Art History majors are recommended to select a minor in another field.

**ARH 496 Internship (One Unit) should be listed under required courses** (the one unit is showing in the count but there is an error message about the course not being found). In fact, both ARH 496 and ARH 498 are shown as not found. Not sure why.

The course ARH 498 Directed Research should not be listed as a choice under Group B or in any other category

## Asian-Pacific Studies (APP)

**APP 101. Introduction To Asian Studies. (3 Units)**

Basic themes and key issues in Asia and the Pacific region. Multi-disciplinary survey of art, literature, philosophy, religion, politics, and society. Background to understanding tradition and change in the region, and introduction to the multicultural roots of Asian-Pacific Americans. Offered Fall, Spring

**APP 195. Special Topics in Asian Pacific Studies. (3 Units)**

Offered As needed

**APP 201. Introduction to Asian American Studies. (3 Units)**

Examines basic themes and key issues in the Study of Asian Americans. Interdisciplinary survey of immigration history, community formation, and development of ethnic identities through the arts, literature, music, multimedia and internet, cultural festivals, scholarship. and student and community organizations. Offered Fall, Spring, Summer

**APP 212. Introduction to Comparative Ethnic and Global Societies. (3 Units)**

Explores the lived experiences of the three Ethnic/Global communities in the United States and their place of origin. Examines the socio-cultural dynamics in Africana, Asian-Pacific and Chicano/Latino communities. Offered Fall, Spring

**APP 225. Pacific Islander Culture in Oceania and the U.S.. (3 Units)**

Examines the cultural, historical and contemporary experiences of various peoples of Hawai'i and the Pacific including the struggle over land, traditions, and sovereignty, state and national political restructurings, and global flows of knowledge, capital, and bodies. Offered Fall, Spring

**APP 227. Social Activism in Hawai'i and the Pacific. (3 Units)**

Prerequisite(s): N/A. Examines the history of colonialism and neo-colonialism in Hawai'i (under the United States) and the broader Pacific region. Explores how Pacific Islanders in the Pacific and the United States have utilized strategic social activism, resistance, and social justice movements to work toward decolonial and anti-colonial goals and fight inequities within their own societies.

**APP 295. Spec Topic Asian-Pacific Studies. (3 Units)**

A study of selected topics or issues in Asian-Pacific Studies. Repeatable for a maximum of six units for credit. Offered As needed

**APP 311. Contemporary Issues in Asian American Communities. (3 Units)**

Examination of the history and contemporary realities of Asian America. Analyzes the differences and commonalities in the experiences of various Asian American populations, focusing on the interplay of race, ethnicity, class, gender and culture in shaping their lives. Offered Fall, Spring, Summer

**APP 314. Asian Americans and the Media. (3 Units)**

An investigation of the roles that artist-activists from the diverse areas of the world have played in 20th and 21st century social justice struggles. Students become familiar with the works of key resistance artists, including but not limited to the Mexican Muralists, members of the California Labor School, 1960's activists, and feminists. The course exposes students to specific propaganda art repositories, such as the Oakland Museum of California, where one of the world's largest and culturally diverse collections of social justice art is housed. The course examines museums in their evolution as sites of contestation for exhibitors and visitors who challenge their previously unquestioned scripts Offered Fall, Spring

**APP 315. Asian Pop Culture and Globalization. (3 Units)**

Explores the growing transnational flows of Asian popular culture in historical and socioeconomic contexts. Analyzes the ramifications of the popularity of Asian pop culture for the changing contemporary global cultural landscape and power relations. Offered Fall, Spring, Summer

**APP 318. Vietnamese, Cambodian, and Lao Americans: Culture, History, and Identity. (3 Units)**

Vietnamese, Cambodian, and Lao American culture, history, and identity examines the challenges of these immigrant groups focusing on the context of refugee experiences, intergenerational conflict, education, and preservation and transformation of culture in American society. GE F3. Offered Fall, Spring

**APP 319. Filipino American Experience. (3 Units)**

Explores the lived experiences of Filipino Americans through the lens of Philippine history and culture, U.S. colonization, immigration, and community formation. Examines key issues, debates, and theories about diversity, ethnic identity and assimilation, education, families, and gender/sexuality. Offered Spring odd



**APP 325. Asian Pacific Art, Music and Literature. (3 Units)**

Examination of diverse Asian Pacific cultures and history through art, music, and written and oral literatures. Analyzes the contributions of past and present artists, musicians/composers, and writers to the establishment and challenging of cultural identities in a globalized and mass-mediated world.

Offered Fall, Spring, Summer

**APP 327. Values and Communication of Asian Pacific Cultures. (3 Units)**

Prerequisites: Completion of all lower division General Education requirements. Junior Examination of basic values and societal outlooks unique to various Asian Pacific groups. Comparative analysis of verbal and nonverbal communication models for better cross-cultural understanding.

Offered Fall, Spring, Summer

**APP 331. Japanese Comics/Animation. (3 Units)**

Focusing on Japanese comics and animation, this course examines the contemporary transnational flows of culture and their implications. It also explores how the existing power relations between the East/West, center/periphery, and men/women are reflected and challenged in the production and dissemination of Japanese comics and animation.

Offered As needed

**APP 333. E Asian Cul/Soc in Cinema. (3 Units)**

Through critical analyses of films, this course will explore various aspects of East Asian societies including history, cultural traditions, socioeconomic transformations, politics, identity, gender and generational relations. It will also examine the issue of ethnic/racial/national/gender representation in East Asian cinema and its implications.

Offered As needed

**APP 335. Asian Pacific Culinary Culture. (3 Units)**

Analysis of Asian Pacific culture traditions and their transformation and globalization. Examines how Asian Pacific food culture intersects with local ecology, gender, cultural traditions, identity politics, (im)migration, colonialism, modernization, and globalization.

Offered Fall, Spring

**APP 339. Asian Diaspora and Transnational Asian Religions. (3 Units)**

Analysis of Asian diaspora populations' practice of Asian religions outside of Asia, especially in the U.S. Examines how Asian religions are transformed in different historical, social and cultural contexts and how the transformation is also intertwined with identity and community-building.

Offered Fall, Spring

**APP 343. Asian Pacific Film & Literature. (3 Units)**

Critical analysis on how a written source can be transformed from literature into film. Several Asian Films and Asian novels or short stories will be examined.

Offered Fall, Spring

**APP 350. Asian-Pacific Gender and Family. (3 Units)**

Critical analysis of Asian gender and family structure and their dynamic processes. Examines issues of dating, marriage, reproduction, parenting and child socialization, domestic labor, the negotiation of paid work and family care, sexual desires and practices.

Offered Fall, Spring

**APP 395. Special Topics in Asian Pacific Studies. (3 Units)**

Prerequisite: Consent of program coordinator. An intensive study of an issue, concept or theme in Asian-Pacific Studies. Repeatable for a maximum of nine units for credit.

Offered As needed

**APP 490. Sem: Asian-Pacific Issues. (3 Units)**

Prerequisites: APP 301 and APP 321. Capstone experience in Asian-Pacific concentration. In-depth study and project development of historical or current issues confronting Asian-Pacific populations. Three hours of seminar per week.

Offered Infrequent

**APP 494. Indepen Study:Asian-Pacific. (1-3 Units)**

Independent study of a particular topic in Asian/Pacific Studies, relating two or more disciplines, such as anthropology, art, education, history, languages, music, philosophy, politics, or sociology under the direction of an Asian/Pacific Studies Program faculty member. Repeatable course.

Offered Fall, Spring

**APP 495. Selected Topics:. (3 Units)**

An intensive study of selected topics or issues in Asian-Pacific studies.

Offered Infrequent

**APP 496. Internship in Asian Pacific Studies. (1-3 Units)**

Prerequisites: Lower division courses in Asian Pacific Studies Involves supervised work experience in community-based business, non-profit organization, or government agency serving Asian Pacific Americans with specific emphasis upon business and public administration, public policy, program planning, and economic development projects in a local, national, and/or international setting. Supervision emphasizes training and application of administration, analytical, socio-political and cultural knowledge, and technical skills. Students will be placed in setting suitable to their academic specialization. One hour of tutorial per week is required with instructor. Student must complete all of the lower division courses in Asian Pacific Studies before they can enroll in an internship.

Offered Fall, Spring

## Behavioral Science (BEH)

**BEH 300. Res Methods Behavioral Science. (3 Units)**

Prerequisites: MAT 131 or PSY 230 or SOC 220 and junior standing.

The course covers five areas: preparing and writing an academic paper, preparing and writing a literature review, developing a research proposal, general research methodology and delivering a research presentation.

Offered Fall, Spring

**BEH 490. Seminar In Beh Sciences. (3 Units)**

Prerequisites: Prerequisites: MAT 131, PSY 230 OR SOC 220 and BEH 300, POL 300, and SOC 305 are required. Must pass with grade C or better. Senior standing required. A seminar designed to integrate previous course work by approaching selected problems from the perspective of the various behavioral sciences. Preparation of seminar paper. Three hours of seminar

Offered Fall, Spring, All terms

## Biology (BIO)

**BIO 101. Success for Biologists. (1 Units)**

Co-requisite: CHE 108 is required. This course will introduce concepts and skills to help students successfully navigate STEM courses and the biology major. Study skills, resources, careers, and academic mindset will be discussed. Students will be asked to reflect on their own learning. Consent required.

Offered Fall, Spring

**BIO 102. General Biology. (3 Units)**

Representative topics in modern biology, emphasizing the present state of knowledge and the major means whereby this knowledge is being expanded. Three hours of lecture per week.

Offered Fall, Spring

**BIO 103. General Biology Laboratory. (1 Units)**

Prerequisite: BIO 102 (may be taken concurrently) Laboratory work and demonstrations in representative areas of modern biology. Emphasizes scientific methodology. Three hours of laboratory per week.

Offered Fall, Spring

**BIO 120. Principles of Biology I. (3 Units)**

Prerequisite: CHE 108 or satisfactory performance on General Chemistry Placement Test. CHE 110 is recommended. Co-requisite: BIO 121.

Introduction to basic biological concepts including biochemistry and macromolecules, the structure and function of cells, basic genetic principles, DNA replication, transcription and translation. Three hours of lecture per week.

Offered Fall, Spring

**BIO 121. Principles of Biology Laboratory I. (1 Units)**

Co-requisite: BIO 120. Laboratory investigations of the properties of biological molecules and cells, metabolism, and patterns of inheritance. Modern laboratory techniques and application of the scientific method are emphasized. Three hours of laboratory per week.

Offered Fall, Spring

**BIO 122. Principles of Biology II. (3 Units)**

Prerequisites: BIO 120 and BIO 121, CHE 108 or satisfactory performance on General Chemistry Placement Test. CHE 110 is recommended. Co-requisite: BIO 123. Introduction to basic biological concepts, including biology of prokaryotes, fungi, plants, invertebrates, and vertebrates, the anatomy and physiology of select organ systems. Three hours of lecture per week.

Offered Fall, Spring

**BIO 123. Principles of Biology Laboratory II. (1 Units)**

Laboratory investigations demonstrating the major properties of the animal kingdom, plant structure and reproduction, vertebrate organ systems and animal fertilization. Application of the scientific method is emphasized. Three hours of lab per week.

Offered Fall, Spring

**BIO 124. Principles of Biology III. (3 Units)**

Prerequisites: BIO 122 and BIO 123. Co-requisite: BIO 125. Introduction to basic concepts of evolution and ecology, including Darwinian evolution, biogeography, biodiversity, genomics, biomes, coevolution, and population, community, ecosystem, landscape, behavioral ecology. Three hours of lecture per week.

Offered Fall, Spring

**BIO 125. Principles of Biology Lab III. (1 Units)**

Co-requisite: BIO 124. Fossils and stratigraphy, population genetics and ecology, field measurements in ecology and field trips to local ecosystems. Three hours of laboratory per week.

Offered Fall, Spring

**BIO 190. Introduction to Marine Life. (3 Units)**

General aspects of marine biology including the principles of physical and biological oceanography, the biological processes of marine life and the ecology of marine environments.

Offered As needed

**BIO 195. Special Topics in Biology. (3 Units)**

Introductory course of special interest in Biology for entry level students. Topic and content will vary as announced. Two to three hours of lecture per week. Not open for credit toward the Biology major.

Offered Infrequent

**BIO 214. Embryology. (2 Units)**

Offered All terms

**BIO 220. Molecular Biology. (3 Units)**

Prerequisites: BIO 120, BIO 121, BIO 122, BIO 123 and CHE 110. Co-requisite: BIO 221. Principles of molecular biology including DNA replication, transcription, translation, DNA recombination and repair and gene regulation. Emphasis on prokaryotic and eukaryotic systems. Three hours of lecture per week.

Offered Fall, Spring, All terms

**BIO 221. Molecular Biology Laboratory. (1 Units)**

Co-requisite: BIO 220. Basic laboratory techniques used in molecular biology, including DNA recombination, cDNA synthesis, PCR, transfection, gel electrophoresis, protein purification, immunoblotting. Required laboratory reports. Three hours of laboratory per week.

Offered Fall, Spring

**BIO 236. Environmental Biology. (2.7 Units)**

Offered All terms

**BIO 250. Elem Hum Anat & Physiol. (3 Units)**

Prerequisite: BIO 102 or equivalent or BIO 120 or equivalent. Basic principles of anatomical structure and physiological processes of human organ systems. Not open for credit toward the Biology major. Three hours of lecture per week.

Offered Fall, Spring, All terms

**BIO 251. Elem Hum Anatomy Phys Lab. (1 Units)**

Co-requisite: BIO 250. Laboratory work and demonstration in the anatomical structure and processes occurring in man. Not open for credit toward the Biology major. Three hours of laboratory per week.

Offered Fall, Spring

**BIO 254. Human Biology. (3 Units)**

Prerequisite: BIO 102 or equivalent. Biological aspects of humans with emphasis on structure and function of organ systems. Additional topics may include human origins, diseases, and health aspects of human genetics and the environment. Not open for credit towards the Biology major. Three hours of lecture per week.

Offered Fall

**BIO 256. Human Anat & Physiology. (2.7 Units)**

Offered All terms

**BIO 310. Plant Physiology. (3 Units)**

Prerequisites: BIO 124, BIO 125. Co-requisite: BIO 311. An introduction to cell metabolism in plants. Topics include photosynthesis, respiration, amino acid synthesis and lipid metabolism. Physiology of plants, including hormones, photoperiodism and circadian rhythms, will also be covered. Three hours of lecture per week.

Offered Spring

**BIO 311. Plant Physiology Laboratory. (1 Units)**

Co-requisite: BIO 310. Associated laboratory to BIO 310. Topics include photosynthesis, respiration, amino acid synthesis and lipid metabolism. Physiology of plants, including hormones, photoperiodism and circadian rhythms, will also be covered. Three hours of laboratory per week.

Offered Spring

**BIO 312. Animal Physiology. (3 Units)**

Prerequisites: BIO 124, BIO 125. Co-requisite: BIO 313. Introduction to comparative animal physiology with emphasis on the vertebrates. Topics include gas exchange, circulatory function, digestion temperature regulation, metabolism, osmoregulation and excretion. Three hours of lecture per week.

Offered Fall

**BIO 313. Animal Physiology Laboratory. (1 Units)**

Co-requisite: BIO 312. Laboratory work and demonstration of the principles on how physiological systems work in normal and stressed conditions. Exercises coordinate with and reinforce material presented in BIO 312. Three hours of laboratory per week.  
Offered Fall

**BIO 314. Developmental Biology. (3 Units)**

Prerequisites: BIO 124, BIO 125, and BIO 220 required. Co-requisite: BIO 315 required. Students will discuss developmental events from gametogenesis through organogenesis in a variety of animal models. The cellular and molecular mechanisms controlling development will be explored. We will also discuss how intrinsic and extrinsic factors can alter the developmental outcomes, which might lead to developmental defects and diseases.  
Offered Spring

**BIO 315. Developmental Biology Lab. (1 Units)**

Co-requisite: BIO 314. Laboratory work and examination of the developmental anatomy in the frog and chick embryos, fertilization and early development of sea urchin and isolation of chick muscle, organs and whole embryos. Three hours of laboratory per week.  
Offered Spring

**BIO 320. Cell Biology. (3 Units)**

Prerequisite(s): BIO 220, BIO 221 and one of CHE 310 & CHE 311 or CHE 300 & CHE 301 or CHE 316 & CHE 317. This course is an upper division course designed to introduce you to a variety of topics in cell biology. We will learn the fundamentals of cell structure and cell function. Topics will include cell membrane, organelle function, cytoskeleton, cell signaling, extra cellular matrix, cell-cell interactions, cell cycle and apoptosis.  
Offered Fall, Spring

**BIO 324. Microbiology with Clinical Applications. (3 Units)**

Prerequisite: BIO 122, BIO 123; CHE 300, CHE 301 or CHE 310, 311, or CHE 316, CHE 317; Corequisite: BIO 325. The morphology, physiology, genetics and classification of microorganisms; applied aspects of microbiology. Basic bacteriological techniques included in the laboratory. Three hours of lecture per week.  
Offered Fall

**BIO 325. Microbiology with Clinical Applications Laboratory. (1 Units)**

Co-requisite: BIO 324. Use of basic bacteriological techniques, including correct use of compound microscope, standard staining for microorganism identification, routine aseptic inoculations and culturing microbes. Three hours of laboratory per week.  
Offered Fall, All terms

**BIO 326. General Microbiology. (3 Units)**

Prerequisites: BIO 124, BIO 125, BIO 220, CHE 112 are required. BIO 221, CHE 310, and CHE 311 are recommended. Co-requisite: BIO 327 is required. Introduction to the biology of microorganisms. The course examines microbial structure, metabolism, genetics, and growth, and will discuss microorganisms in different ecological environments and their role in pathogenicity. Three hours of lecture per week.  
Offered Fall, All terms

**BIO 327. General Microbiology Laboratory. (1 Units)**

Prerequisites: BIO 124, BIO 125, BIO 220 and CHE 110 are required. Co-Requisites: BIO 326 is required. This laboratory course will introduce microbiology research and testing methods, including establishing experimental design. Basic techniques are emphasized, such as sterile techniques, culturing and microscopy. Students will be using methods to identify unknown microorganisms. Three hours of laboratory per week.  
Offered Fall

**BIO 330. Botany. (3 Units)**

Prerequisites: BIO 124 and BIO 125 are required. Co-requisite: BIO 331 is required. An introduction to plant biology. Topics include anatomy and morphology, the evolution of land plants, and basic ecology. There will be a special focus on plant reproduction. Three hours of lecture per week.  
Offered All terms, Fall

**BIO 331. Botany Laboratory. (1 Units)**

Prerequisite: BIO 124 and BIO 125 are required. Co-requisite: BIO 330 is required. Laboratory work to examine plant cells and tissues, diversity of land plants, and plant ecology. Emphasis includes phylogenetics, floral evolution, and Southern California ecology. Three hours of laboratory per week.  
Offered Fall

**BIO 332. Ecology. (3 Units)**

Prerequisites: BIO 124, BIO 125. Co-requisite: BIO 333. Concepts in ecology including energy flow, biogeochemical cycles, community structure, succession, and population growth and interaction. Sampling techniques and use of ecological instrumentation learned in laboratory. Three hours of lecture per week.  
Offered Spring

**BIO 333. Ecology Laboratory. (1 Units)**

Co-requisite: BIO 332. Laboratory work demonstrating principles of ecology, specifically the physical environment, adaptations of individuals, populations, communities of plants and animals, ecosystem, evolutionary ecology, biodiversity and biogeography, and interactions of human beings with the environment. Three hours of laboratory per week.  
Offered Spring

**BIO 336. Environmental Biology. (3 Units)**

Prerequisite: BIO 102 or BIO 122 is required. Principles of ecology applied to contemporary environmental problems. Emphasis is placed upon human impact in Southern California. One day (18 hour) field trip is required. Not open for credit toward the Biology major.  
Offered Spring

**BIO 340. Genetics. (3 Units)**

Prerequisites: BIO 124, BIO 125, BIO 220, MAT 131. CHE 310 and CHE 311 or CHE 316 and CHE 317 are recommended. Principles of heredity, gene expression at the molecular and organismic levels, variation and mutation. Three hours of lecture per week.  
Offered Fall, Spring

**BIO 342. Cell And Genetics Lab. (1 Units)**

Prerequisite: BIO 220 and BIO 221. An introduction to modern techniques of biological research on cell biomolecules and genetics, with emphasis on microscopy, protein isolation and characterization, enzyme activity, electrophoresis of biomolecules, transformation and PCR. Three hours of laboratory per week.  
Offered Fall, Spring

**BIO 346. Human Heredity. (3 Units)**

Prerequisite: BIO 102 or equivalent. Introduction to human genetics, including human reproduction. Mendelian inheritance, chemical basis of gene action, mutation, and eugenics. Not open for credit toward the Biology major or to students with credit in BIO 340.  
Offered Infrequent

**BIO 360. Marine Biology. (3 Units)**

Introduction to the biology of marine life. Includes a review of common marine organisms and their taxonomic placement. Also includes an ecological perspective on marine planktonic, nektonic, and benthic communities with emphasis on the intertidal habitats of Southern California.

Offered Fall

**BIO 361. Marine Biology Laboratory. (1 Units)**

Co-requisite: BIO 360. The laboratory is devoted to learning the plants and animals common to each of a variety of local marine habitats. Several field trips are required. Transportation to field sites is the responsibility of each student. Three hours of laboratory or field work per week.

Offered Fall

**BIO 370. Bio Basis Human Behavior. (3 Units)**

Prerequisite: BIO 102 or equivalent. Biological structure and function as it relates to human behavior. Emphasis on the structure of the central and peripheral nervous systems, sensory systems, neurotransmission, endocrine system and hormones, genetic influences, neuropharmacology and the impact of disease on human behavior. Not open for credit toward the Biology major.

Offered Spring

**BIO 374. Drug Abuse. (3 Units)**

Prerequisite: BIO 102 or equivalent. Introduction to the problem of drug abuse. The action of commonly abused drugs on the human nervous system will be examined including the physiological and behavioral effects which are produced. Not open for credit toward the Biology major.

Offered Fall, All terms

**BIO 380. Biology of Childhood and Adolescence. (3 Units)**

Prerequisite: BIO 250 or BIO 254. The physiology of growth and development through the second decade of life; reproductive maturation and the hormonal regulation of puberty; common illnesses, growth disorders and health hazards, including a brief introduction to venereal diseases and drug abuse. Not open for credit toward the Biology major.

Offered Infrequent, All terms

**BIO 386. Human Aging. (3 Units)**

Prerequisite: BIO 250 or BIO 254. The effects of aging on the structure and physiology of the human body and the effects of drugs used in the treatment of the elderly. Not open for credit toward the Biology major.

Offered As needed

**BIO 394. Independent Study. (1-3 Units)**

Prerequisite: BIO 124, BIO 125. Advanced library, field or laboratory work. A contract must be signed by the student and supervising faculty. Credit in this course is contingent upon completion of a written report of work accomplished. Not more than three units may be applied toward the Biology major or minor. Repeatable course.

Offered Fall, Spring

**BIO 395. Special Topics In Biology. (2-3 Units)**

Prerequisites: BIO 102 or equivalent or consent of instructor. Courses of special interest in Biology for students not majoring in the field. Topic and content will vary as announced. Not open for credit toward the Biology major. Repeatable course. Two or three hours of lecture per week.

Offered As needed

**BIO 412. Comparative Vert Biology. (4 Units)**

Prerequisites: BIO 124, BIO 125 and BIO 312, BIO 313. Vertebrate evolution, classification and ecology and adaptive morphology will be investigated through observations of behavior, study of fossils, and comparative anatomy dissections. Three hours of lecture and three hours of laboratory per week. Several field trips, including one or more weekend trips required.

Offered Infrequent

**BIO 416. Landscape Ecology. (3 Units)**

Interrelationships among ecosystems in space and time. How abiotic, biotic, and historical factors and disturbance combine to shape present-day landscapes. Use of computer technologies, such as remote sensing and geographic information systems, to study landscape characteristics.

Offered Spring

**BIO 419. Histotechnique Laboratory. (2 Units)**

Co-requisite: BIO 420. Preparation of normal and abnormal tissues for microscopic study. Methods of preparation of tissues for sectioning with paraffin and freezing microtomes. Methods of fixation, dehydration, infiltration, embedding and sectioning tissues. Application of different stains on tissues. Six hours of laboratory per week.

Offered Spring

**BIO 420. Histotechnique. (2 Units)**

Prerequisite: BIO 122, BIO 123. Co-requisite: BIO 419. Preparation of tissues for microscopic study, with emphasis on paraffin embedding and staining. Two hours of lecture per week.

Offered Spring, All terms

**BIO 421. Advanced Molecular Biology. (3 Units)**

Prerequisites: BIO 220, BIO 221, BIO 320, BIO 340, BIO 342, CHE 310 and CHE 311. Recombinant DNA techniques used in the study of genome organization and gene structure, expression and regulation; emphasis on eukaryotic cells. One hour of lecture and six hours of laboratory per week.

Offered Fall

**BIO 422. Histology. (3 Units)**

Prerequisites: BIO 122 and BIO 123 are required. Co-requisite: BIO 424. Microscopic study of the structure and function of cells and tissues and their integration into organs. Three hours of lecture per week.

Offered Spring

**BIO 423. Cell Fine Structure. (3 Units)**

Prerequisite: BIO 320 or BIO 422 and BIO 424. Structure and function of eucaryotic sub-cellular constituents at the light and electron microscopic and biochemical level.

Offered Infrequent, All terms

**BIO 424. Histology Laboratory. (1 Units)**

Co-requisite: BIO 422. Microscopic study of the structure and function of cells and tissues and their integration into organs. Three hours of laboratory per week.

Offered Spring

**BIO 425. Medical Bacteriology. (2 Units)**

Prerequisites: BIO 324, BIO 325, CHE 310, CHE 311 or CHE 316, CHE 317. Co-requisite: BIO 435. Characteristics of bacterial agents in human disease emphasizing host-parasite relationships, epidemiology and infection control. Two hours of lecture per week.

Offered Spring

**BIO 426. Immunology. (3 Units)**

Prerequisites: BIO 320 or BIO 340; BIO 342 is recommended. Co-requisite: BIO 436. Principles of immunology. Emphasis on the cellular and molecular nature of antigens and immunoglobulins; immunobiology; laboratory immunoassays. Three hours of lecture per week.  
Offered Fall

**BIO 427. Clinical Mycology. (3 Units)**

Prerequisites: BIO 324 and BIO 325. BIO 425 and BIO 435 are recommended. Comparative morphology, physiology and pathogenicity of medically important fungi. Laboratory methods for identification emphasize interpretation and evaluation of results including the recognition of contaminating or opportunistic organisms. Two hours of lecture and three hours of laboratory per week.  
Offered Infrequent

**BIO 428. Virology. (3 Units)**

Prerequisites: BIO 320, CHE 300, CHE 301 or CHE 310, CHE 311, or CHE 316, CHE 317. The anatomy, biochemistry, physiology and pathogenesis of bacterial and animal viruses emphasizing virus diseases of humans. Topics include structure, classification, theory and practical aspects of growth, purification and identification, host-virus interactions, tumor viruses and antiviral agents. Three hours of lecture per week.  
Offered Fall

**BIO 430. Comp BIO: Phlogenetics. (3 Units)**

Prerequisites: BIO 124, BIO 125 and BIO 340. BIO 332 is recommended. Strategies for rigorous comparisons of different species: Permissions (legal), collection, identification (diagnosis), taxonomy, maintenance-alive and preserved, character state description, phylogenetic analysis and biogeography. Two hours of lecture and three hours of laboratory per week.  
Offered Infrequent

**BIO 435. Medical Bacteriology Laboratory. (2 Units)**

Co-requisite: BIO 425. Laboratory methods used. Medical bacteriology, including detection, isolation and identification of medically important bacteria. Six hours of laboratory per week.  
Offered Spring

**BIO 436. Immunology Laboratory. (1 Units)**

Co-requisite: BIO 426. Principles of immunology. Emphasis on the cellular and molecular nature of antigens and immunoglobulins; immunobiology; laboratory immunoassays. Three hours of laboratory per week.  
Offered Fall

**BIO 440. Molecular Genetics. (3 Units)**

Prerequisites: BIO 320 and BIO 340. Genome structure in relation to control of gene expression in prokaryotic and eucaryotic cells; interplay between genes and regulatory reactions that control development. Topics include antibody diversity, neoplastic transformation by oncogenes, and pattern formation. Three hours of lecture per week.  
Offered Spring

**BIO 442. Human Genetics. (3 Units)**

Prerequisites: BIO 320 and BIO 340. BIO 440 is recommended. Principles of human genetics including cytogenetics, Mendelian inheritance, pedigree construction, complex patterns of inheritance, biochemical defects, gene mapping, hemoglobinopathies, molecular genetics, prenatal diagnosis and gene therapy. Three hours of lecture per week.  
Offered Infrequent

**BIO 450. Evolution. (3 Units)**

Prerequisite(s): BIO 124 and BIO 340 required. Explores how modern approaches to studying evolution are teaching us new and surprising things about how evolution works and its power to help explain patterns in the natural world. This course is a paper-based, discussion-based course.  
Offered Fall

**BIO 452. Minority Health Disparities. (3 Units)**

Prerequisite: BIO 220 is required. BIO 320 is recommended. This course deals with the issue of minority health disparities from the many possible courses and treatments to ways to address this problem in the future.  
Offered Spring

**BIO 453. Endocrinology. (3 Units)**

Prerequisites: BIO 220 is required. The role of endocrine glands and tissues in metabolic regulation, environmental adjustment, reproduction, and development of vertebrates, with emphasis on mammals. Three hours of lecture per week.  
Offered Spring

**BIO 458. Human Parasitology. (3 Units)**

Prerequisites: BIO 122 and BIO 123. Co-requisite: BIO 459. Physiological aspects of parasites in man, their symbiotic host and parasite relationships and clinical diagnostic techniques. Three hours of lecture per week.  
Offered Fall

**BIO 459. Human Parasitology Laboratory. (1 Units)**

Co-requisite: BIO 458. Physiological aspects of parasites in man, their symbiotic host and parasite relationships and clinical diagnostic techniques. Three hours of laboratory per week.  
Offered Fall

**BIO 483. Human Physiology. (3 Units)**

Prerequisites: BIO 312 or BIO 320. Advanced lecture and discussion of the functional activities occurring in the human organ systems.  
Offered Spring

**BIO 490. Senior Project. (3 Units)**

Prerequisites: Senior standing and department consent; completion of general education requirements, lower division major requirements and BIO 340. Students will engage in biological writing for diverse audiences including writing for other biologists and the general public. Synthesis of biological literature, data presentation, and the importance of biology to society will be addressed. A grade of C or better in this course fulfills the GWAR requirement for all Biology majors and minors.  
Offered Fall, Spring, All terms

**BIO 491. Seminar in Biological and Biomedical Research. (1 Units)**

Prerequisite: Permission by professor. Current topics in biological and biomedical research presented by CSUDH faculty and prominent scientists from throughout the country. CR/NC grading. Repeatable for up to 2 units.  
Offered Fall, Spring

**BIO 495. Selected Topics in Biology. (2-3 Units)**

Prerequisite: BIO 124 and BIO 125. Advanced course of special interest for students majoring in Biology. May include laboratory exercises. Topic and content will vary as announced. Repeatable course. Two to three hours of lecture per week.  
Offered As needed

**BIO 496. Internship in Biology. (3 Units)**

Prerequisites: BIO 124 and BIO 125 are required. BIO 332 and BIO 333 are recommended. This course is available as an elective in the BS in Biology: Ecology and Environmental Biology option only. Supervised internship in ecological setting off campus. A maximum of three units may be applied towards the Biology major.

Offered Fall, Spring

**BIO 498. Directed Research in Biology. (3 Units)**

Prerequisites: BIO 124 and BIO 125 are required. BIO 332 and BIO 333 are recommended. This course is available as an elective in the BS in Biology: Ecology and Environmental Biology option only. The class is intended to allow students to receive ecological research experience off-campus. A maximum of three units may be applied towards the Biology major.

Offered Fall, Spring

**BIO 501. Biological Literature. (3 Units)**

Prerequisite: Fulfillment of the Graduation Writing Requirement (GWAR). Standard forms of presentation of scientific research, including research articles, review papers, abstracts, poster and oral presentations. Sources of biological literature and contemporary literature search skills as well as data presentation formats and technical writing conventions will be addressed. Three hours of lecture per week.

Offered Spring

**BIO 502. Biostatistics. (3 Units)**

Prerequisite: MAT 131 or MAT 171 or MAT 191 or equivalent. Application of statistical analyses to biological research with emphasis on experimental design. Analysis of variance, regression and correlation will be the primary topics. Three hours of lecture per week.

Offered Fall

**BIO 503. Biological Instrumentation. (3 Units)**

Introduction to the operation and application of common instruments used in biological research. Emphasis on those instruments available for graduate research. Two hours of lecture and two hours of activity per week.

Offered Infrequent

**BIO 504. Research Techniques in Biology. (3 Units)**

Introduction to how research is conducted and how to avoid the major pitfalls that can beset researchers. Ethical conduct of research, permits and permissions, important laboratory and field techniques, preparation for a PhD program. Three hours of lecture per week.

Offered Fall

**BIO 510. Urban Environmental Science. (3 Units)**

Overview of environmental science. Problems specific to urban context. Pollution of air, water, etc., land-use change, environmental conflicts. Hands-on analysis of environmental conditions in Los Angeles area.

Offered Spring

**BIO 516. Landscape Ecology. (3 Units)**

Prerequisites: BIO 124 and BIO 125 are required. BIO 332 and BIO 333 are recommended. Interrelationships among ecosystems in space and time. How abiotic, biotic, and historical factors and disturbance combine to shape present-day landscapes. Use of computer technologies, such as remote sensing and geographic information systems, to study landscape characteristics. Three hours of lecture per week.

Offered Fall

**BIO 520. Adv In Cell & Molecul Bio. (3 Units)**

Prerequisite: BIO 421 or BIO 440. Current developments in the structure and function of viruses, prokaryotic cells, and eukaryotic cells. Three hours of lecture per week. Repeatable for credit in biology master's program for up to six units.

Offered Spring

**BIO 522. Applied Biotechnology Skills III. (3 Units)**

PABS Skills III is a graduate course for students in the PSM program. In this course, students will learn advanced molecular biology techniques including isolation of DNA and RNA, Southern and Northern blots, transcriptional profiling, and siRNA mediated gene silencing.

Offered Infrequent

**BIO 523. Electron Microscopy. (3 Units)**

Prerequisite: BIO 421. Theory and use of the electron microscopy preparation of tissue and photographic techniques. One hour of lecture and six hours of laboratory per week.

Offered Infrequent

**BIO 590. Graduate Seminar. (2 Units)**

Presentation and discussion of selected topics in Biological Science. A minimum of two and a maximum of four units may be applied toward the biology master's degree. The repeated courses must be taught by different instructors or must be on different topics. Two hours of seminar per week.

Offered Fall, Spring

**BIO 595. Grad Sel Topics Biology. (2-3 Units)**

Prerequisite: Consent of Department Chair. Advanced course of special interest to graduate students in Biology. Topic and content will vary as announced. Repeatable course. Two to three hours of lecture per week.

Offered As needed

**BIO 597. Directed Reading. (1-3 Units)**

Library research on a specific subject in biology. Topic for study to be approved and directed by instructor. Can be used to prepare for the comprehensive examinations or to formulate a research problem prior to enrollment in BIO 598 or BIO 599. A maximum of three units may be applied toward the master's degree. Repeatable course.

Offered Fall, Spring

**BIO 598. Directed Research. (1-3 Units)**

Laboratory research on a specific subject in biology. Topic of research to be approved and directed by an instructor. A maximum of three units may be applied toward the master's degree. Repeatable course.

Offered Fall, Spring

**BIO 599. Thesis. (1-4 Units)**

Laboratory research and writing of thesis for the master's degree. Topic of research to be approved by graduate advisor. A maximum of 9 units of BIO 597, 598 and 599 combined may be applied toward the master's degree. Open only to thesis option graduate students. Repeatable course.

Offered Fall, Spring

**BIO 600. Grad Continuation Course. (1 Units)**

Graduate students who have completed their course work but not their thesis, project, or comprehensive examinations, or who have other requirements remaining for the completion of their degree, may maintain continuous attendance by enrolling in this course. Signature of graduate program coordinator required.

Offered Fall, Spring

## Biophysics (BPH)

### **BPH 201. Seminar I: Introduction to Biophysics. (1 Units)**

Prerequisite: PHY 120. Course is designed to inform students about the field of biophysics, its career applications, and college success. Students will understand how physics can be integrated into biology and explore basic computational tools through a tutorial approach.

Offered Fall

### **BPH 202. SeminarII: The Art of Scientific Presentation and The Frontiers of Physics. (1 Units)**

Prerequisites: BPH 201, PHY 120 are required or consent of instructor. Students learn how to prepare and give presentations on their research interests or discipline topics. Emphasis is given to the preparation, execution, and critique of effective scientific presentations.

Offered Spring, Summer

### **BPH 330. Biological Physics. (3 Units)**

Prerequisites: BIO 122, BPH 202, PHY 306 and CHE 310 are required. Introduction to the interface between biology and physics, applying the results of thermodynamics to topics such as protein folding, molecular machines, brain function, with a focus on molecular and cellular biology.

Offered Fall

### **BPH 340. Experimental Biophysics. (3 Units)**

Prerequisites: BPH 202, BIO 122, CHE 310 and PHY 306 are required. Co requisite: PHY 346 is required. A laboratory course introducing interdisciplinary research techniques and research writing in biophysics. Basic concepts behind commonly used biological techniques and how to collect and communicate discipline-specific data.

Offered Spring

### **BPH 402. Biophysics Research. (1-3 Units)**

Prerequisite: PHY 306, BPH 340, or consent of instructor. An independent research project, supervised by a faculty mentor in the physics or biophysics department.

Offered Fall, Spring, Summer

### **BPH 406. Computational Biophysics. (3 Units)**

Prerequisites: PHY 306, BPH 330, BPH 340. An introduction to scientific computational methods and their application in physics, using various numerical and symbolic computing techniques.

Offered Spring even

### **BPH 410. Medical Biophysical Education and Medical Industry Impact on Society. (3 Units)**

Prerequisites: BPH 201, BPH 202, BPH 340. This course will help students meet the criteria for professional schools. The students will practice professional communication skills through healthcare practices. The course's service-learning component requires shadowing of healthcare professionals for eight weeks and completing thirty volunteer hours with community organizations.

Offered Fall, Spring, Summer

### **BPH 460. Advanced Microscopy. (3 Units)**

Prerequisite: PHY 306, PHY 320, BPH 330, BPH 340. An introduction to the use of quantitative fluorescence microscopy procedures in modern biophysics laboratories.

Offered Spring odd

## Business (BUS)

### **BUS 100. Entrepreneurship For Everyone. (3 Units)**

Covers key issues involving entrepreneurship. Including how to write a business plan the will document your business ideas, developing a deal to finance your plan and developing a pitch to sell your plan to investors or partners.

Offered Infrequent

### **BUS 300. Business Communications. (3 Units)**

Prerequisite: Introduces the Business Administration student to effective business communication tools and techniques. Includes all standard forms of contemporary business communication, both written and oral. Students will have weekly written and/or oral assignments with appropriate feedback. A-C/NC grading.

Offered Fall, Spring

### **BUS 301. Employment Communications. (1 Units)**

Prerequisite: ENG 109, ENG 110 or ENG 112 is required. Introduces tools and techniques that are used to produce effective business communication, both oral and written. Students will learn specific skills that can be used in the business world to convey thoughts, ideas and recommendations to coworkers and superiors, while enhancing professional image and chances for future success. Emphasis will be placed on the job packet: resumes, cover letters, references and thank you letters.

Offered Fall, Spring, Summer

### **BUS 302. Written Communications. (1 Units)**

Prerequisite: ENG 109, ENG 110 or ENG 112 is required. Introduces tools and techniques that are used to produce effective business communication, both oral and written. Students will learn specific skills that can be used in the business world to convey thoughts, ideas and recommendations to coworkers and superiors, while enhancing professional image and chances for future success. Emphasis will be placed on drafting, revising and polishing professional business documents.

Offered Fall, Spring, Summer

### **BUS 303. Oral Communication. (1 Units)**

Prerequisite: ENG 109, ENG 110 or ENG 112 is required. Introduces tools and techniques that are used to produce effective business communication, both oral and written. Students will learn specific skills that can be used in the business world to convey thoughts, ideas and recommendations to coworkers and superiors, while enhancing professional image and chances for future success. Emphasis will be placed on oral communication skills.

Offered Fall, Spring, Summer

### **BUS 445. International Business. (3 Units)**

Prerequisites: FIN 360, MGT 310 and MKT 350. Focused study in international business with an emphasis on the additional risks, uncertainties and difficulties of business conducted across national boundaries; students will use disciplinary writing to produce case studies and written reports to analyze and examine the financial, management, legal accounting and marketing areas. A grade of C or better in this course fulfills the GVAR requirement for Business Majors and Minors.

Offered Fall, Spring, Summer

### **BUS 494. Independent Study. (3 Units)**

Prerequisites: Consent of the instructor and of the business administration advisement coordinator. Independent research or other study under the direction of a full-time faculty member of the Business Administration Program. CR/NC grading. Repeatable course.

Offered As needed

**BUS 495. Special Topics. (1-3 Units)**

Prerequisite: Consent of the instructor. Advanced seminar on a topic of current interest to the discipline of business administration. Repeatable course. Three hours of seminar per week.  
Offered As needed, All terms

**BUS 496. Business Internship. (3 Units)**

Prerequisites: Upper division status and consent of Internship Coordinator. Under direction of the Internship Coordinator, students work in a business organization applying skills and knowledge learned in the classroom. CR/NC grading. Repeatable course.  
Offered Fall, Spring

**BUS 594. Independent Study In Bus. (1-3 Units)**

Prerequisites: Consent of the instructor and MBA program coordinator. Independent research or special projects under the direction of a full-time faculty member of the master of business administration program. CR/NC grading. NOTE: Cannot substitute for a required course or elective.  
Offered Infrequent

**BUS 595. Selected Topics. (1-3 Units)**

Prerequisite: Completion of core courses. A variable topics course in a functional area of business administration or of special interest to business management. New topics will be offered each term. Repeatable course. Three hours of seminar per week.  
Offered Infrequent

**BUS 600. Grad Continuation Course. (1 Units)**

Prerequisite: Consent of graduate program coordinator required. Graduate students who have completed their course work but not their thesis project or comprehensive examinations or who have other requirements remaining for the completion of their degree may maintain continuous attendance by enrolling in this course.  
Offered Fall, Spring

## Chemistry (CHE)

**CHE 102. Chemistry For The Global Citizen. (3 Units)**

A non-mathematical treatment of the basic principles of chemistry and their application to various facets of life in a highly technological society.  
Offered Fall, Spring, All terms

**CHE 103. Chemistry Lab for the Global Citizen. (1 Units)**

Recommended general education course for students interested in the chemistry of everyday life. Includes determining the composition of foods and drugs, measurements, unit conversions, scientific notation, chemical representations, mole concept, structure of atoms and molecules. Three hours of laboratory per week.  
Offered Fall, Spring

**CHE 108. Introduction to College Chemistry. (5 Units)**

Measurements, units, unit conversion, scientific notation, chemical stoichiometry, mole concept, structure of atoms and molecules. CR/NC grading. Three hours of lecture and six hours of laboratory per week.  
Offered Fall, Spring, All terms

**CHE 110. General Chemistry I. (5 Units)**

Prerequisites: CHE 108 or high school chemistry and satisfactory performance on the General Chemistry Placement test. Chemical stoichiometry, atomic structure, periodic table, quantum theory, gases, thermochemistry, ionic bonding, Lewis formulas, liquids, solids, solutions. Four hours of lecture and three hours of laboratory per week.  
Offered Fall, Spring, All terms

**CHE 112. General Chemistry II. (5 Units)**

Prerequisite: CHE 110. Chemical kinetics, equilibria, thermodynamics, acids and bases, solubility, electrochemistry, covalent bonding, transition metal complexes. Four hours of lecture and three hours of laboratory per week.  
Offered Fall, Spring, All terms

**CHE 230. Quantitative Analysis. (4 Units)**

Prerequisite: CHE 112. Introduction to the techniques and theory of gravimetric and volumetric analyses, colorimetry, flame photometry and electroanalytical procedures. Two hours of lecture and six hours of laboratory per week. Laboratory fee required.  
Offered Fall, Spring

**CHE 300. Organic Chemistry I. (3 Units)**

Prerequisite: CHE 112 or 1 year of general chemistry. A detailed study of organic molecular structure, reaction mechanisms stereochemistry, and synthesis with emphasis on a aliphatic and aromatic systems.  
Offered Summer

**CHE 301. Organic Chemistry Lab I. (1 Units)**

Prerequisites: CHE 112 or 1 year of general chemistry; concurrent enrollment in CHE 300. Basic experimental techniques of organic chemistry. Three hours of laboratory per week.  
Offered Summer

**CHE 302. Organic Chemistry II. (3 Units)**

Prerequisites: CHE 300 and CHE 301. Concurrent enrollment in CHE 303. Continuation of CHE 300 with emphasis on the chemistry of organic compounds containing oxygen and nitrogen.  
Offered Summer

**CHE 303. Organic Chemistry Lab II. (1 Units)**

Prerequisites: CHE 112 or 1 year of general chemistry; concurrent enrollment in CHE 302. Preparation of organic compounds and qualitative organic analysis. Three hours of laboratory per week.  
Offered Summer

**CHE 310. Organic Chemistry I. (4 Units)**

Prerequisites: CHE 112; concurrent enrollment in CHE 311. Systematic study of organic compounds, with emphasis on molecular structure and reaction mechanisms; stereochemistry; aliphatic compounds.  
Offered Fall, Spring

**CHE 311. Organic Chemistry Lab I. (1 Units)**

Prerequisite: Concurrent enrollment in CHE 310. Techniques of separation and purification of organic compounds. Introduction to organic synthesis. Three hours of laboratory per week. Fee required.  
Offered Fall, Spring

**CHE 312. Organic Chemistry II. (3 Units)**

Prerequisites: CHE 310, CHE 311; concurrent enrollment in CHE 313. A continuation of CHE 310 with emphasis on aromatic systems. Introduction to spectroscopy. Structures and reactions of organic compounds containing oxygen and nitrogen.  
Offered Fall, Spring

**CHE 313. Organic Chemistry Laboratory II. (2 Units)**

Prerequisites: CHE 310, CHE 311; concurrent enrollment in CHE 312. Organic synthesis, introduction to spectroscopy. Qualitative organic analysis. Six hours of laboratory per week. Fee required.  
Offered Fall, Spring



**CHE 316. Survey of Organic Chemistry. (3 Units)**

Prerequisite: CHE 112 and concurrent enrollment in CHE 317. Structure and properties of aliphatic and aromatic compounds. Stereochemistry and functional group chemistry. Oriented toward life sciences and related areas.

Offered Fall, Spring

**CHE 317. Survey of Organic Chemistry Laboratory. (1 Units)**

Co-requisite: CHE 316. Basic purification processes and techniques of separation of mixtures. Preparation of organic compounds. Introduction to qualitative and quantitative analytical methods, including chemical, chromatographic, and spectroscopic procedures. Three hours of laboratory per week. Fee required.

Offered Fall, Spring

**CHE 320. Physical Chemistry I. (5 Units)**

Prerequisites: CHE 112 and CHE 230; MAT 193; PHY 132. PHY 122 may be substituted for PHY 132 by students in the biochemistry option and by non-chemistry majors, with consent of instructor. Principles and applications of classical thermodynamics and chemical kinetics. Introduction to computer based techniques of treating scientific data.

Offered Fall

**CHE 322. Physical Chemistry II. (3 Units)**

Prerequisite: CHE 320. Introduction to group theory, quantum chemistry, spectroscopy and statistical thermodynamics.

Offered Spring

**CHE 360. Writing in Chemical Sciences. (2 Units)**

Prerequisites: CHE 310 or concurrent enrollment required. Extensive practice in written chemistry communication, emphasizing effective communication of scientific data to a wide variety of audiences. Extensive practice in writing chemistry reports and summaries, preparing career related documents, searching and evaluating chemical literature. A grade of C or better in this course fulfills the GWAR requirement for all Chemistry and Biochemistry majors.

Offered Fall, Spring

**CHE 393. Supervised Projects. (1-3 Units)**

Prerequisites: CHE 112 and consent of instructor. Laboratory projects to be carried out under the supervision of a chemistry faculty member. Designed for students of sophomore and junior standing. A-C/NC grading. Repeatable course. Three to nine hours of laboratory per week.

Offered Fall, Spring

**CHE 420. Advanced Applic for Chemistry. (2 Units)**

Prerequisite: CHE 320. Advanced applications for chemistry including computational techniques, molecular modeling, combinatorial approaches to synthesis, data acquisition and analysis, and use of computers to simulate spectral data. One hour of lecture and two hours of activity per week.

Offered Spring

**CHE 431. Adv Integrated Lab I Lec. (3 Units)**

Prerequisites: CHE 230 and CHE 320. Experimental work involving instrumental analytical techniques, inorganic syntheses, physical measurements on chemical systems. Analysis of experimental data, including the use of computer techniques. One hour of lecture and six hours of laboratory per week.

Offered Fall

**CHE 433. Adv Integrated Lab II Lec. (3 Units)**

Prerequisites: CHE 431 and CHE 322. A continuation of CHE 431. One hour of lecture and six hours of laboratory per week.

Offered Spring

**CHE 440. Inorganic Chemistry. (4 Units)**

Prerequisite: CHE 322. Structural inorganic chemistry, coordination compounds, mechanisms of inorganic reactions, inorganic synthetic methods. Organometallic chemistry, catalysis.

Offered Spring

**CHE 450. Biochemistry I. (4 Units)**

Prerequisites: CHE 230, CHE 312 and CHE 313, or CHE 316 and CHE 317, and concurrent enrollment in CHE 451. The chemistry of amino acids and proteins; the chemistry and metabolism of carbohydrates and lipids; energetics in living systems. Consent required.

Offered Fall, Spring

**CHE 451. Biochemistry I Lab. (1 Units)**

Prerequisites: CHE 230, CHE 312, and CHE 313, or CHE 316 and CHE 317, and concurrent enrollment in CHE 450. Biochemistry laboratory experiments using advanced techniques for separation and analysis of biologically active compounds. Three hours of laboratory per week. Fee required. Consent required.

Offered Fall, Spring

**CHE 452. Biochemistry II. (4 Units)**

Prerequisite: CHE 450. Metabolism of nitrogenous compounds, discussion of nucleic acid structure/function and metabolic control.

Offered Spring

**CHE 453. Biochemistry II Lab. (2 Units)**

Prerequisites: CHE 451 and concurrent enrollment in CHE 452. Biochemistry experiments using advanced techniques for the isolation and purification of macromolecules, and for determination of their activity or function. Six hours of laboratory per week.

Offered Spring

**CHE 456. Clinical Chemistry. (3 Units)**

Prerequisites: CHE 450 and CHE 451. Methods of analysis of body fluids and tissues. Relation of analytical results to interpretation of metabolism and diagnosis of disease. Three hours of lecture and three hours of laboratory per week. Laboratory fee required.

Offered Fall, Spring

**CHE 458. Toxicology. (3 Units)**

Prerequisites: CHE 450 is required; CHE 452 is recommended. Discussion of methods of introduction of toxic substances into the body, their metabolic transformations, and their biochemical and physiological effects. Examples drawn from forensic, clinical, occupational, and environmental sources.

Offered Infrequent

**CHE 460. Chemical Literature. (2 Units)**

Prerequisites: CHE 312 and CHE 320. Chemical literature, including the nature, content, and accessibility. Modern electronic search and retrieval techniques. CR/NC grading.

Offered Spring

**CHE 474. Geochemistry. (3 Units)**

Prerequisites: CHE 112 is required; EAR 356 is recommended. Factors controlling the distribution of the chemical elements in the earth, atmosphere and oceans. Methods in the analysis of minerals. Special consideration of economically important metals. Applications in earth sciences, chemistry, and environmental studies. Two hours of lecture and three hours of laboratory per week.

Offered Infrequent

**CHE 495. Selected Topics in Chemistry. (1-3 Units)**

Prerequisite: Consent of instructor. Lectures on a specific area of current interest in chemistry, or advanced discussion of a selected topic in a limited field of chemistry. Repeatable course. One to three hours of lecture per week.

Offered Fall, Spring

**CHE 497. Directed Research. (1-3 Units)**

Prerequisites: Senior standing and consent of instructor. Advanced laboratory work, with each student undertaking an independent and original investigation. A-C/NC grading. Repeatable course. Three or nine hours of laboratory per week.

Offered Fall, Spring

## Chicano/Chicana Studies (CHS)

**CHS 100. Chicana/o Cultural Roots. (3 Units)**

An introduction to Chicana/o cultural traditions influenced by diverse Mexican Indian, African, and European experiences and histories prior to, during and after the conquest of Americas. Special focus is on Mexico and the Southwest of the United States.

Offered Fall, Spring

**CHS 125. Chicano/Latino Musical Culture. (3 Units)**

The course examines musical expressions of Chicano and Latino peoples in the present geographical boundaries of the United States. The course emphasizes the intercultural dynamics in the formation of Chicano and Latino music which incorporates African, American, Native American, and European roots.

Offered Infrequent

**CHS 195. Special Topics in Chicana/o Studies. (3 Units)**

A study of an issue, concept or theme in Chicana/Chicano Studies. Three hours of lecture per week. Repeatable for a maximum of twelve units for credit.

Offered Infrequent

**CHS 200. Introduction to Chicana/o and Latina/o History. (3 Units)**

Explores the history and experiences of Chicanos/as and Latinas/as in the United States in the 19th and 20th Centuries and will explore the following themes: immigration, migration, labor, education, gender roles, and community organizations.

Offered Fall, Spring

**CHS 205. Introduction to Chicana/o Literature. (3 Units)**

An introduction to selected works of modern Chicano literature including an analysis of influences, themes, and techniques. Special attention given to certain issues of the Chicano/a experiences reflected in the literature. Frequent written assignments.

Offered Fall, Spring

**CHS 210. Representation of Indigenous. (3 Units)**

An introduction to the different forms on indigenous representation with special emphasis on Mesoamerica. Discussions of how these accounts are expressed, perceived, and constructed at the point of European contact will be examined.

Offered Infrequent

**CHS 212. Introduction to Comparative Ethnic Studies. (3 Units)**

The course will explore the lived experiences and gendered complexities of Ethnic/Global communities as they relate to historical and contemporary international and global forces. The course will examine the economic and socio-cultural dynamics of the global interdependencies of Indigenous, Latino, Asian-Pacific and African communities and women's lived experiences within and across these communities.

Offered Fall, Spring

**CHS 216. Mexica Language and Culture. (3 Units)**

Supervised work experience in a Chicano/Latino community with emphasis upon social and economic development in a local, national, or international setting. Students will be placed in settings suitable to their academic expertise.

Offered Infrequent

**CHS 225. Mexican & Chicano Poetry & Mus. (3 Units)**

An introduction to Mexican/Chicano poetry and music from the Spanish Conquest to the present. Students will learn to recognize boleros, sones, huapangos, mariachi, norteno, corridos, Tex-Mex, and oldies. The class is not designed for music majors.

Offered Infrequent

**CHS 295. Spc Topics Chicana/o Stud. (3 Units)**

A study of an issue, concept, or theme in Chicana/Chicano studies. Repeatable for a maximum of six units for credit.

Offered Infrequent

**CHS 300. Critical Issues in Chicana/Chicano Studies. (3 Units)**

Prerequisites: ENG 110 or equivalent are required. CHS 100 or CHS 205 and CHS 200 or 212 are recommended. An exploration of the field of Chicana and Chicano Studies. Course will emphasize the changing constructions and interpretations of what comprises Chicana/o identities and cultures through an analysis of cultural, historical, political, psychological, and social issues. Enrollment priority will be given to Chicana/Chicano Studies majors and minors. This course fulfills a requirement in the Chicana/Chicano Studies major and minor, in addition to the G.W.A.R.

Offered Fall, Spring

**CHS 315. Changing Dynamics in Raza Comm. (3 Units)**

Prerequisite: CHS 200 is recommended. Assesses the challenges confronting the Chicano community resulting from increased and diverse patterns of immigration, restricted occupational opportunities, and socio-political differences. Focus will be on urban issues from communities throughout the United States, including the Mexican/United States Border.

Offered Spring

**CHS 323. Latina/o Perspectives on U.S. Immigration and Citizenship. (3 Units)**

Seeks to understand some of the issues which concern Mexican/Latino immigrant people, specifically Mexican and Central American groups, in efforts to bring awareness to this human crisis and to explore some of its effects on U.S. Latino community.

Offered Fall, Spring, Summer

**CHS 325. Chicana/o Movement. (3 Units)**

A historical and comparative examination of the Chicana/o movement by examining the early pattern of Mexican immigration and the formation of mutual aids associations designed to defend their interests. The focus is on the period from 1960-1990.

Offered Spring

**CHS 330. Latina/o Identities in U.S.. (3 Units)**

Explores the social, cultural, and political experiences of Chincao/a and Latino/a communities in the United States, including Puerto Rican, Caribbean, and Central and South American peoples. The historical experiences of these diverse communities will be examined.  
Offered Fall, Spring, Summer

**CHS 335. Urban Youth Gangs in Los Angeles. (3 Units)**

Provides an interdisciplinary perspective to the origins and evolution of youth groups (African Americans, Anglos, Asians, Chicana/os, and Pacific Islanders) in California. Class topics include definition of gangs; history of gangs; membership practices; and law enforcement responses.  
Offered Infrequent

**CHS 340. Native American and Chicana Women's Narrative. (3 Units)**

Course explores contemporary cultural and historical narratives by and about Native American Chicana women in the U.S. Through poetry, short stories, and narratives the class will analyze the histories of colonial exploitation, historical memories, gender oppression, and marginalization.  
Offered Fall, Spring

**CHS 344. Chicana/o History I. (3 Units)**

Mexican American life to 1900, stressing the evolution of economic and political thought, social institutions, and cultural experiences.  
Offered Fall

**CHS 345. Latina/o Identities in the Americas. (3 Units)**

Explores the concept of Latina/o identity in the Americas from a literary perspective in different time periods and particular cultural societies. The study of certain intellectuals and their literary contributions will assist with comprehension of identity and socio-political reality.  
Offered Fall, Spring, Summer

**CHS 346. Chicana/o History II. (3 Units)**

The Mexican American's contributions to the building of the Southwest; the clash between Mexicans and North Americans; the emergence of the urban Mexican American.  
Offered Spring

**CHS 372. Chicana/o Spiritualities and Healing Practices. (3 Units)**

Examination of the diverse spiritual practices and decolonial methods of healing found in Mexican and Chicana/o/x traditions.  
Offered All terms

**CHS 375. Chicana/o Latina/o Body Politics. (3 Units)**

Recommended Prerequisites: CHS 100, CHS 200, CHS 205, and CHS 212. An exploration of the interconnections between the physical body and politics, both current and historical, for Chicana/os and Latina/os. Students will examine issues such as public health, reproductive justice, ability, gender, and sexuality in Chicana/o Latina/o communities.  
Offered All terms

**CHS 395. Special Topics in Chicana/o Studies. (1-3 Units)**

Prerequisite: Consent of instructor. Study of special topic of interest for students in the selected area of study. Topic and content will vary as announced.  
Offered As needed

**CHS 396. Practicum in Chicana/o Studies. (3 Units)**

Prerequisite: Consent of Department Chair. This course is an introduction to theorists and methods undergirding Chicana and Chicano Studies as these have been deployed in the writings by Chicana and Chicano authors during the past thirty years. The class will present theories and methods that inform intellectual issues in Chicana/o studies.  
Offered As needed

**CHS 400. Chicana/o Issues in Education. (3 Units)**

An overview of the educational system in society - how it functions, whom it serves, and the cultural and theoretical explanations for the success and failure of Chicana/o students. Discussions include family values, teen pregnancy, language, gangs, etc.  
Offered Fall

**CHS 401. Theories and Methods in Chicana/o Studies. (3 Units)**

Prerequisites: ENG 110 or equivalent; CHS 100 or CHS 205 and CHS 200 or CHS 212 or equivalent are required. Must be a Senior. Focuses on examining the various theories and methods utilized by Chicana/o scholars during the evolution of the discipline of Chicana/o Studies, exploring how these theories and methods have informed and continue to inform writing and research in Chicana/o Studies.  
Offered Fall

**CHS 410. Chicana/o Popular Culture. (3 Units)**

An overview of the central areas of Chicana/o popular culture, focusing on film, mass media, art, theatre, and music. The course examines how concepts of culture, identity, and ethnicity are popularly expressed in a constant state of flux.  
Offered Fall

**CHS 436. Chicana/o Latina/o Politics. (3 Units)**

Recommended Prerequisites: CHS 200 and CHS 323 Course examines the role of Chicana/o and Latina/o communities in shaping state and national politics in the United States, including contemporary modes of political organizations, political history, organizational strategies, electoral impact, public policy issues surrounding citizenship, and empowerment strategies.  
Offered All terms

**CHS 450. Precolumbian Lit of Mexico. (3 Units)**

Prerequisite: CHS 300 recommended. The study of the literature of ancient Mexico, specifically the PopolVuh of the Maya and Aztec poetry, in order to obtain an insight into the Precolumbian world view. Periodic essay exams.  
Offered Infrequent

**CHS 460. Las Chicanas. (3 Units)**

Prerequisite: ENG 110 or equivalent is required. The study of the issues that Chicanas encounter in contemporary U.S. society. Includes a survey of remote and recent cultural, social, and political issues that have influenced the values, expectations, and roles of Chicanas.  
Offered Fall, Spring

**CHS 471. Mexican Thought, Social Activism and Political Ideology. (3 Units)**

Prerequisite: CHS 100 is recommended. Examines the evolution of Mexico's modernistic state via its reformation and dictatorship of President Porfirio Diaz. It will investigate how revolutionary leaders banded together to dismantle the Porfirio regime, and how later Mexico's Government attempted to institutionalize the ideals of justice, freedom, and democracy.  
Offered Fall

**CHS 480. Chicana/o Folklore. (3 Units)**

Prerequisite: CHS 300 recommended. An introduction to some of the basic theories and techniques in folklore studies, especially Mexican American. Folk art, music, oral literature, customs, philosophy, and belief systems will be examined for understanding groups of people.  
Offered Fall, Spring

**CHS 486. Chicana/o Family and Gender Issues. (3 Units)**

Prerequisite: ENG 110 or equivalent is required. CHS lower division requirements or courses on previous women and gender are recommended. The course examines family and gender issues as they relate to the Chicana/o community in the United States. Topics will include Chicana/o family roles and structure, cultural values, experiences that influence and challenge families, gender roles and expectations. Offered Fall

**CHS 490. Senior Seminar in Chicana/o Studies. (3 Units)**

Prerequisites: ENG 110 and CHS 401 are required. CHS 100 or CHS 205; CHS 200 or CHS 212; and CHS 300 are recommended. Seminar where students examine a particular topic or theme in the field of Chicana/o Studies. As the capstone course for the major, students undertake a major research paper. Offered Fall, Spring

**CHS 494. Independent Study. (1-3 Units)**

Prerequisite: Consent of Program Director. Independent study of a particular topic in Chicana/Chicano Studies relating two or more disciplines, such as anthropology, art, education, history, language, music, politics, psychology, or sociology under the direction of an instructor in Chicana/Chicano Studies. Repeatable course. Offered Fall, Spring

**CHS 495. Spec Topic Chicano/Chicana St. (1-3 Units)**

Prerequisite: Consent of Program Director. An intensive study of an issue, concept or theme in Chicana/Chicano Studies. Three hours of lecture per week. Repeatable for a maximum of six units for credit. Offered Fall, Spring

**CHS 496. Internship Chicana/o Studies. (3 Units)**

Under direction of the internship faculty, students will work in a Chicano/Latino community, applying skills and knowledge learned in the classroom as well as the workplace. Repeatable course. Offered As needed

**CHS 497. Directed Reading. (1-3 Units)**

Prerequisite: CHS 100 is recommended. Extensive reading in selected areas under the guidance of a faculty member. Offered Fall, Spring

**CHS 498. Directed Research in CHS. (1-3 Units)**

The student develops and completes an individual study under faculty supervision. Repeatable course. Offered As needed

**CHS 590. Grad Sem Theory & Methods. (3 Units)**

Instruction in the basic principles of still photography. Two hours of lecture and three hours of laboratory per week. Offered As needed

**CHS 594. Independent Study. (1-4 Units)**

Prerequisites: Consent of Department Chair. Independent investigation of a research problem or directed readings in a selected area of Chicano Studies. Offered As needed

**CHS 595. Special Topics. (3 Units)**

An intensive study of a concept, movement, school of thought, or individual within the discipline of Chicano Studies. Intended for students with senior or graduate standing. Specific topic listed in Class Schedule. Repeatable course. Three hours of seminar per week. Offered As needed

**CHS 596. Pract. in Teach Chicana/o Stud. (1-4 Units)**

Supervised experience in teaching Chicana/o Studies. Techniques and skills appropriate to instruction at the college level. Instructional and evaluative experiences under supervision of Chicana/o Studies faculty. Offered As needed

**CHS 597. Directed Reading. (1-4 Units)**

Extensive reading in selected areas under the guidance of a faculty mentor. Offered As needed

**CHS 598. Graduate Directed Research. (1-3 Units)**

Independent research under direction of supervising faculty member in Chicana/o Studies. Offered As needed

**CHS 599. Final Project. (3 Units)**

In consultation with a faculty member, writing of a master's thesis or completion of project. Choice of area requires prior consent of advisor. Offered As needed

## Child Development (CDV)

**CDV 150. Intro Child Development. (3 Units)**

Overview of physical, cognitive, social and emotional development from conception through the end of adolescence; theoretical advances in child development; individual and contextual contribution to developmental processes. Offered Fall, Spring

**CDV 220. Principles and Practices of Teaching Young Children. (3 Units)**

Prerequisite(s): CDV 150 or CDV 325. Examines the historical approaches and theoretical principles of developmentally appropriate practice in early childhood learning environments, curriculum development, and teaching. Emphasis is placed on how play, adult-child interactions, and family-school relationships support children's physical, cognitive, social, emotional, and language development. Introduces the roles and responsibilities of an early childhood educator, including the reflective curriculum cycle. Offered Fall, Spring

**CDV 225. Infant Development - FROZEN. (4 Units)**

Prerequisites: Live Scan and current negative TB documentation. CDV 180. Development from conception through 2 years; changes through prenatal period; birth; development of attachment; infant care issues. 3 hours of lecture, 1 unit of observation in infant-care settings. Offered Infrequent

**CDV 240. Early Childhood Development and Curriculum. (4 Units)**

Prerequisite(s): CDV 220. Students will learn and begin to create developmentally appropriate curriculum and teaching practices for children ages 2 to 6 years across developmental domains and content areas. Connections between curriculum, curriculum design, and children's physical, cognitive, social, emotional, and language development are examined. Offered Spring

**CDV 260. Introduction to Observation and Assessment in ECE. (3 Units)**

Prerequisite(s): CDV 240. This course introduces the observation and assessment strategies and tools used to document development and learning in early childhood. Ethical issues, strengths, weakness and appropriate use of these methods will be discussed. Offered Fall, Fall, Spring

**CDV 295. Special Topics in Child Development. (1-5 Units)**

Prerequisite: CDV 150 is required. Contemporary topics of interest in Child Development.

Offered Fall, Spring

**CDV 320. Mthd & Analysis in Child Study. (4 Units)**

Prerequisites: CDV 150 and MAT 131 or MAT 132 or PSY 230 are required. Junior Standing is recommended. Various methods used to study children; quantitative and qualitative data; measurement issues; basic data analytic techniques. 3 hours lecture, 1 hour lab. A grade of C or better in this course fulfills the GVAR requirement for Child Development majors.

Offered Fall, Spring

**CDV 325. Infancy and Early Childhood. (3 Units)**

Prerequisite: CDV 150 is required. Provides an overview of physical, cognitive, social and emotional development from conception through 6 years.

Offered Fall, Spring

**CDV 330. Schoolage Years. (3 Units)**

Prerequisite: CDV 150 is required. Physical, cognitive, social and emotional development from 6 to 12 years. Emphasis on home, school, and community contexts and their interconnections; developmental analysis related to contemporary issues in areas of health and education.

Offered Fall, Spring

**CDV 342. Advanced Observation and Assessment in Early Childhood. (3 Units)**

Prerequisite: CDV 180 and CDV 240 are required. Observation and assessment methods in early childhood and their significance in guiding development and designing programs for children birth through 8 years.

Offered Spring

**CDV 344. Supervision in Early Childhood Settings. (3 Units)**

Prerequisites: CDV 180, CDV 240 and CDV 325 are required. Provides students with the methods and principles of supervising teachers, volunteers, student teachers, staff and other adults in early childhood education settings. An emphasis is placed on the development and role of early childhood professionals as mentors and leaders.

Offered Fall

**CDV 360. Adolescence. (3 Units)**

Prerequisite: CDV 150 is required. Physical, cognitive, social and emotional development from 12 to 20 years, focusing on developmentally unique changes at individual, interpersonal and social levels.

Offered Fall, Spring

**CDV 363. Development in Diverse Contexts. (3 Units)**

Prerequisite(s): CDV 150. The development of the individual identity along multiple dimensions of age, gender and abilities in the contexts of class, culture, and ethnicity. Issues of hierarchies, the development of prejudice and discrimination at individual and institutional levels.

Offered Fall, Spring

**CDV 366. Parenting and Child Guidance. (3 Units)**

Prerequisites: CDV 320, CDV 325, and CDV 360. Co-Requisite: CDV 330. The development and key tasks of the parenting role are examined, focusing on the influences of family systems and diverse contexts. Evidence-based parent education approaches and child guidance strategies that promote healthy child outcomes across diverse caregiving roles and settings are discussed.

Offered Fall, Spring

**CDV 370. Enhancing Early Language and Literacy I. (3 Units)**

Prerequisite: Jumpstart Corp member and department consent. Examines early language, literacy, and multi-lingual development with an emphasis on environmental factors. Provides techniques for engaging children in language and literacy activities and opportunities for students to evaluate and reflect on their civic engagement. Course open to Jumpstart Corps members only. Department consent required.

Offered Spring

**CDV 372. Social Development and Interpersonal Relationships. (3 Units)**

Prerequisites: CDV 320, CDV 325, CDV 330 and CDV 360. Study of social and emotional development from birth through adolescence; development of the self; temperament and emotion; attachment, peer, parent-child, and early romantic relationships; interpersonal skills and moral development.

Offered Infrequent

**CDV 380. Stress, Risk, & Resilience. (3 Units)**

Prerequisites: CDV 320, CDV 325, and CDV 360. Co-Requisite: CDV 330. Childhood stress is examined within a risk and resilience framework. Concepts and theories explaining developmental risk and the protective factors and intervention strategies that promote adaptive coping and adjustment in various contexts will be discussed.

Offered Fall, Spring

**CDV 423. Chld Devpt Scl Policy. (3 Units)**

Prerequisite: CDV 320, CDV 325, CDV 330, CDV 360, CDV 380 are required. Enduring issues related to children's development that have led to policy decisions; process of policy making; current issues that require policy decisions; evaluating the impact of policy on children and families.

Offered Fall, Spring

**CDV 440. Immigrant Children and Families. (3 Units)**

Prerequisites: CDV 320, CDV 325, CDV 330 and CDV 360 are required. The process of immigration as an influential factor in development; changing ecologies and adaptation demands on individuals and families; informal and formal support structures.

Offered Fall, Spring

**CDV 442. Marriage, Family, and Community. (3 Units)**

Prerequisite: CDV 320, CDV 325 and CDV 330 and CDV 360 are required. Examines family structure, love, mate selection, marital communication, divorce, remarriage, gender roles, and domestic violence across diverse contexts with a special focus on the factors that enhance healthy family relationships and children's development.

Offered Fall, Spring

**CDV 444. Language, Cognition, and Schooling. (3 Units)**

Prerequisite: CDV 320, CDV 325, CDV 330, and CDV 360 Theoretical and empirical overview of cognitive and language development from birth through the end of adolescence; second language acquisition; interconnections between cognitive development, language development and schooling.

Offered Fall, Spring

**CDV 450. Devpt in Poverty. (3 Units)**

Prerequisites: CDV 320, CDV 325, CDV 330, and CDV 360 Poverty as a unique context of development; developmental processes and child outcomes in poverty; family interactions and generation of coping mechanisms in the context of poverty; special needs of poor children

Offered Fall, Spring

**CDV 462. Atypical Development. (3 Units)**

Prerequisite(s): CDV 320, CDV 325, CDV 330, CDV 360. Introduction to key concepts, developmental theories, empirical research, and evidence-based practices related to children and adolescents with developmental disorders and disabilities. Utilizes a developmental science approach to understanding the child and family within community and cultural contexts.

**CDV 480. Practicum in Early Childhood Education. (3 Units)**

Required Prerequisites: CDV 220, CDV 240, CDV 260, CDV 325.  
Recommended Prerequisites: CDV 462. Plan and implement curriculum activities with developmentally appropriate goals and methods based on observations of children. Practice and demonstrate skills expected of a beginning preschool teacher in California.

Offered Fall, Spring

**CDV 490. Senior Seminar. (3 Units)**

Prerequisites: CDV 363, CDV 366 and CDV 380 are required. Integration of knowledge about theories, empirical findings and practice in Child Development; emphasis on writing and presentation skills.

Offered Fall, Spring

**CDV 492. Seminar in Child Development Research. (4 Units)**

Prerequisite(s): CDV 320, CDV 363, CDV 366, CDV 380. Provides students an opportunity to integrate knowledge about theories, empirical findings and research practices in child development. Students learn and apply research methods. An emphasis is placed on writing and presenting research reports for academic or non-academic audiences.

Offered Fall, Spring

**CDV 494. Independent Study. (1-6 Units)**

Prerequisites: Consent of instructor. Investigation of a single topic, chosen in consultation with a faculty member, culminating in a paper, presentation, or project. Repeatable course.

Offered Fall, Spring

**CDV 495. Special Topics. (1-5 Units)**

Prerequisites: Upper division standing. Contemporary topics of interest in Child Development. Repeatable course.

Offered As needed

**CDV 496. Directed Field Experience. (3 Units)**

Pre-requisite: CDV 363, CDV 366 and CDV 380 are required. Must take Seminar and Supervision. Faculty supervised experience in any approved Child Development setting. Weekly seminar designed to facilitate the integration of Child Development knowledge and theory with students' fieldwork experience. Students will examine and integrate personal and professional goals and values to gain an understanding of the self in a professional role. Each seminar provides an opportunity to share field experiences and problem solve.

Offered Fall, Spring

**CDV 498. Directed Research. (1-6 Units)**

Prerequisites: CDV 320 and consent of instructor are required. Project selected in consultation with a faculty supervisor and a plan made to implement the project; meetings held regularly. May be repeated to a maximum of 6 units.

Offered Fall, Spring

## Clinical Science (CLS)

**CLS 301. Intro Clin Lab Proced Lec. (2 Units)**

Prerequisite: BIO 122 required. Demonstration and practice of specialized techniques used in the clinical setting. Theory of arterial, capillary and venipuncture including complications. Processing body fluids. Review of state/federal laws, biohazards and quality assurance. Oral and/or written reports/projects.

Offered Fall, Spring

**CLS 302. Clinical Practice Lab. (1 Units)**

Prerequisites: BIO 122; CLS 301 or concurrent enrollment required. Practice in clinical laboratory techniques: phlebotomy; serum, plasma and whole blood preparation for testing; Minimum 90 hours training at a clinical affiliate under University Faculty supervision. Written report(s).

Offered Fall, Spring

**CLS 303. Radiation Science. (3 Units)**

Prerequisites: MAT 171 and HSC 201. Overview of radiation science: history, radiation physics, instrumentation, protection and safety.

Applications to clinical procedures utilizing radionuclides. Problem solving.

Offered As needed

**CLS 304. Introduction to Urinalysis and Body Fluids. (3 Units)**

Prerequisite: BIO 122 and CHE 112 or equivalent is required. An introduction to the analysis of urine and body fluids used in the clinical setting. Discussion of the theory and diagnostic applications relative to the analysis of urine and body fluids. Demonstration of lab techniques with limited lab practice.

Offered Fall, Spring

**CLS 305. Rad Biology & Protection. (1 Units)**

Prerequisite: Admission to the clinical year. Modes of radioactive decay, photon radiation, interaction of radiation with matter, biologic effects of radiation, decontamination techniques, government regulations. Problem solving. Report writing. Oral and/or written reports/projects.

Offered As needed

**CLS 306. Clin Immun & Immunochem. (4 Units)**

Prerequisites: BIO 250; CLS 301 or concurrent enrollment required. Theory and practice of serologic techniques; nature of antigens, antibodies and the immune response. Genetics of red cell antigens. Pre-natal, neonatal, and pre transfusion testing. Cause, investigation and prevention of HDNB. Compatibility testing and investigation of transfusion reactions. Case studies. Written reports. Three hours of lecture and three hours of laboratory per week.

Offered Spring

**CLS 307. Clinical Hematology. (4 Units)**

Prerequisites: BIO 250; CLS 301 or concurrent enrollment required. The goal of this course is to provide the student with the basic theoretical foundation of Clinical Hematology relative to the scope of practice for an entry level Clinical Laboratory Scientist. The student will first focus on normal blood cell development (hematopoiesis), then normal cell function, leading into abnormal function and the pathogenesis of hematological disorders. The course emphasis is on recognition of normal and abnormal laboratory results and interpretation of clinical data used in the diagnostic process. The course is broken down into four main sections: starting with an overview of the clinical hematology laboratory and hematopoiesis; then erythropoiesis and disorders primarily involving red cells; followed by normal leukopoiesis, non-malignant leukocytes, and related disorders; and lastly the study of malignant leukocyte disorders and platelets. Students will describe and analyze the process of Hematopoiesis. Disciplinary writing will be employed to produce case studies, written reports and analyze theory of hematology procedures. Application of course concepts will be used to enumerate and identify blood cells. Emphasis will be placed on the identification and description of detection of abnormalities and on the demonstration of special equipment and techniques. The proposed Student Learning Outcomes (SLO) are as follows. 1. Demonstrate the ability to perform clinical diagnostic testing, evaluate outcomes, and generate a written report in order to solve problems related to pre-analytical, analytical, and post-analytical components of services in the clinical laboratory. 2. Employ health professional discourse and proper medical terminology to facilitate communication on laboratory findings pertaining to hematology. 3. Identify, read, and interpret published studies in clinical hematology in order to describe, evaluate, and report the clinical laboratory findings. 4. Identify and analyze the principles of hematology and generate written reports that address laboratory findings. 5. Communicate effectively about hematology across medical professions, including physician, nursing, and other specializations.

Offered Fall

**CLS 308. Pathophys for Hlth Professions. (3 Units)**

Prerequisite: BIO 250 and either BIO 251, CHE 112, or equivalent. Principles of clinical pathophysiology, including assessment of clinical data necessary for identifying the causes of diseases and evaluating the underlying mechanisms of pathologic processes. Discussion of immune disorders, inflammation, neoplasia and genetic disorders. Review of the individual organ system and associated pathology. Case studies, written/ and or oral reports.

Offered All terms, Fall

**CLS 401. Overview: Virology/Mycology. (2 Units)**

Prerequisites: BIO 324 or concurrent enrollment; CLS 301 is recommended. Brief introduction to special pathogens for students preparing for the clinical virology and mycology rotations in the clinical laboratory.

Offered Spring

**CLS 410. Nml: Imaging Techniques. (5-6 Units)**

Prerequisite: Admission to the clinical year. Use of nuclear medicine equipment in a clinical setting to visualize organs, determine function of organs and organ systems.

Offered As needed

**CLS 411. Nml: Radiopharm/Assay. (4 Units)**

Prerequisite: Admission to the clinical year. Preparation of radionuclides for administration in diagnostic testing including radio- chemical purity, quantitative assay and sterility. Radioassay techniques: calibration and use of instruments, specimen collection. Quality assurance.

Offered As needed

**CLS 412. Nml: Instru/In Vivo. (4 Units)**

Prerequisite: Admission to the clinical year. Performance of procedures utilizing radionuclides for in-vivo studies. Instrument calibration, preventive maintenance. Computer applications.

Offered As needed

**CLS 413. Nml: Special Studies. (2 Units)**

Prerequisite: Admission to the clinical year. Practicum in special studies of interest related to nuclear medicine. Project and written report.

Repeatable course.

Offered As needed

**CLS 420. Cnm: Imaging Techniques. (3 Units)**

Prerequisite: Admission to the clinical year. Principles of stationary and moving imaging with correlations to pathophysiology in human organs and systems.

Offered As needed

**CLS 421. Cnm: Radiopharm/Assay. (2 Units)**

Prerequisite: Admission to the clinical year. Theory of radiopharmaceutical applications: radionuclides, dose calibration. Principles of saturation analysis and competitive protein binding, correlations of biochemistry, pathophysiology, radioassay techniques, principles and applications to individual techniques. Quality assurance.

Offered As needed

**CLS 422. Cnm: Instru/In Vivo Tech. (2 Units)**

Prerequisite: Admission to the clinical year. Instrumentation including Geiger-Mueller tubes, rectilinear scanners, scintillation spectrometers and gamma cameras. In-vivo techniques including Schilling test, blood volume, time dependent studies, erythrokinetics, gastrointestinal loss studies.

Offered As needed

**CLS 423. Cnm: Special Studies. (1 Units)**

Prerequisite: Admission to the clinical year. Special studies including ultrasound, radiotherapy and nuclear magnetic resonance. Repeatable course.

Offered As needed

**CLS 430. Clin Micro Lab. (3-4 Units)**

Prerequisite: Admission to the clinical year. Techniques and practice in medical microbiology including parasitology, mycology, and bacteriology at a clinical affiliate. Oral and/or written reports/projects.

Offered Fall

**CLS 431. Clin Chemistry Lab. (3-4 Units)**

Prerequisite: Admission to the clinical year. Techniques and practice in chemistry at a clinical affiliate. Oral and/or written reports/projects.

Offered Fall

**CLS 432. Clin Hem/Urinalysis Lab. (4 Units)**

Prerequisite: Admission to the clinical year. Techniques and practice in hematology and urinalysis at a clinical affiliate. Oral and/or written reports/projects.

Offered Spring

**CLS 433. Clin Immunochem/Sero Lab. (3 Units)**

Prerequisite: Admission to the clinical year. Techniques and practice in serology, immunology and blood banking at a clinical affiliate. Oral and/or written reports/projects.

Offered Spring

**CLS 434. Clin Special Proc Lab. (1 Units)**

Prerequisite: Admission to the clinical year. Techniques and practice in special procedures at a clinical affiliate. Oral and/or written reports/projects. Repeatable course.

Offered Spring

**CLS 440. Correl Clin Micro. (2 Units)**

Prerequisite: Admission to the clinical year. Theory and correlations of pathophysiology in medical microbiology including mycology, parasitology and bacteriology.  
Offered Spring

**CLS 441. Correl Clin Chem. (2 Units)**

Prerequisite: Admission to the clinical year. Theory and practical aspects correlating clinical chemistry with pathophysiology.  
Offered Spring

**CLS 442. Correl Clin Hem-Urinalysis. (2 Units)**

Prerequisite: Admission to the clinical year. Theory and practical applications correlating hematology and urinalysis to pathophysiology.  
Offered Fall

**CLS 443. Correl Clin Imunohem-Sero. (2 Units)**

Prerequisite: Admission to the clinical year. Theory and practical applications correlating serology, immunology and blood banking to pathophysiology.  
Offered Fall

**CLS 450. Micro: Fem Genit Tract. (4 Units)**

Prerequisite: Admission to the clinical year in cytotechnology. Microscopic examination of cytologic and histologic material of benign and malignant disease processes from the female genital tract, including microbiology, hormonal effects and response to therapy.  
Offered Fall

**CLS 451. Micro: Resp & Gi Tract. (2 Units)**

Prerequisite: Admission to the clinical year in cytotechnology. Microscopic examination of cytologic and histologic material of benign and malignant disease processes from the respiratory and gastrointestinal tracts.  
Offered Fall

**CLS 452. Micro: Gu Tract/Body Cav Fluid. (2 Units)**

Prerequisite: Admission to the clinical year in cytotechnology. Microscopic examination of cytologic and histologic material of benign and malignant disease processes of the genitourinary system and body cavity fluids.  
Offered Fall

**CLS 453. Micro: Fine Needle Aspir. (2 Units)**

Prerequisite: Admission to the clinical year in cytotechnology. Microscopic examination of cytologic and histologic material of benign and malignant disease processes in aspirated material.  
Offered Spring

**CLS 454. Micro: Systems Overview. (4 Units)**

Prerequisite: Admission to the clinical year in cytotechnology. Cytologic examination of gynecologic and non-gynecologic material from all body sites for diagnostic purposes.  
Offered Spring

**CLS 455. Cytologic Preparation. (2 Units)**

Prerequisite: Admission to the clinical year in cytotechnology. Current methods of processing and staining material for cytologic study. Techniques utilized in obtaining non-gynecologic material for cytologic evaluation.  
Offered Spring

**CLS 460. General Cytology. (3 Units)**

Prerequisite: Admission to the clinical year in cytotechnology. General cytology, cytogenetics, and electron microscopy. Basic principles of pathology and cytology as they apply to malignancy. Anatomy, histology, pathology and cytopathology of the female genital tract, including microbiology, hormonal effects and response to therapy.  
Offered Fall

**CLS 461. Cyto Res & Gi Tract. (2 Units)**

Prerequisite: Admission to the clinical year in cytotechnology. Normal and abnormal cytology of the respiratory and gastrointestinal tracts with emphasis on anatomical and histological pathology.  
Offered Spring

**CLS 462. Cyto Gu Body C Fluids. (2 Units)**

Prerequisite: Admission to the clinical year in cytotechnology. Normal and abnormal cytology of the genitourinary system and body cavity fluids with emphasis on anatomical and histological pathology.  
Offered Spring

**CLS 463. Fine Needle Aspirat Cytol. (1 Units)**

Prerequisite: Admission to the clinical year in cytotechnology. Normal and abnormal aspiration cytology of the major organs with emphasis on anatomical and histological pathologies.  
Offered Spring

**CLS 490. Seminar In Clinical Sciences. (1 Units)**

Prerequisites: CLS 301 and CLS 306 required; and all lower division Clinical Science Program required. Presentation and discussion of pertinent topics from clinical science trade journals. Written and oral presentations. One hour of seminar per week.  
Offered As needed

**CLS 491. Management Skills in Clinical Sciences. (3 Units)**

Prerequisites: Admission to Clinical Internship; CLS 301 is recommended. Discussion of current and emerging theories, concepts and trends relevant to the management of clinical laboratories, including compliance, professional development, training and educational methodologies. Student projects, written and oral reports are required.  
Offered All terms, Spring

**CLS 492. Research Methods in Clinical Science. (3 Units)**

Prerequisite: Admission to Clinical Internship; MAT 131 is recommended. Overview of relevant theoretical concepts, methods and applications utilized in clinical science research. Application of research methods to the development and design of research proposal. Critical analysis of literature review, data, and published research studies in clinical sciences.  
Offered All terms, Fall

**CLS 494. Independent Study in Clinical Science. (1-3 Units)**

Course of study designed cooperatively by student and instructor to accomplish individualized learning objectives that are appropriate to the clinical laboratory. Consent of instructor required. CR/NC grading.  
Offered Fall, Spring

**CLS 501. Clinical Sciences: Team Concept. (3 Units)**

Prerequisite: HEA 201. Analysis of the current status and problems in health care delivery including management, staffing and health economics; development of a realistic model. Role of allied health professionals in health care delivery; scientific medicine vs. holistic health; prevention and health education. Coordination of the clinical sciences into an effective health care team. To successfully complete this class, students must demonstrate proficiency to the satisfaction of the instructor in oral and written communication skills in the English language. Oral and/or written reports/projects.  
Offered As needed



**CLS 502. Management Concepts in the Clinical Sciences. (3 Units)**

Prerequisite: HEA 201. Managerial function, organization, and structure. A pragmatic approach to the strategies and tactics available to the professional manager. Special projects in work sampling, workload recording and time management for health care professionals. Oral and/or written reports/projects.  
Offered As needed

**CLS 503. Clinical Diagnosis. (3 Units)**

By use of case studies, interpretation of clinical data, correlation of history and physical to diagnosis, treatment and follow-up protocols. Student case study investigation. Two hours of lecture and two hours of activity per week.  
Offered As needed

**CLS 504. Data Collect & Process. (3 Units)**

Prerequisite: CSC 111 or equivalent. Collection, storage and retrieval of data, with emphasis on clinical applications. Modern information systems and evaluation of such systems from the clinical science management view point. Oral and/or written reports/projects. Two hours of lecture and two hours of activity per week.  
Offered As needed

**CLS 505. Stat Analysis & Research. (3 Units)**

Prerequisite: MAT 131. Application of statistical analysis in the clinical and health sciences, including normal and binomial distribution, t-tests, chi square tests, analysis of variance, linear regression and correlation. Student project required. Two hours of lecture and two hours of activity per week  
Offered As needed

**CLS 590. Graduate Seminar. (1-2 Units)**

Prerequisites: CLS 501, CLS 502 and CLS 503 or consent of instructor. Seminar methods and use of the literature in the clinical sciences. Faculty and student directed discussions of contemporary clinical science issues. Participants present and interpret recent publications. Written abstracts. Repeatable up to 6 units. One hour of seminar per week.  
Offered As needed

**CLS 594. Ind Study In Clin Sci. (1-3 Units)**

Prerequisite: Consent of instructor and advisor. Independent and original laboratory or field investigation under supervision of a faculty member.  
Offered As needed

**CLS 595. Special Top:.. (1-3 Units)**

Prerequisite: Health Care Practitioner. Advanced topics of special interest to Clinical Science majors possessing health care credentials. Topic and content will vary as announced.  
Offered As needed

**CLS 596. Internship. (1-6 Units)**

Prerequisite: Graduate standing; CLS 501 and 502 recommended. Students will be directed to health care facilities to serve as interns within their chosen specialization. Teaching opportunities may be available in a variety of settings. Regular meetings are scheduled with a faculty internship supervisor to assess student progress. Written report required. Course designed for graduate students in the Clinical Sciences. Repeatable course.  
Offered As needed

**CLS 599. Grad Capstone Activity. (1-3 Units)**

Prerequisites: Graduate Writing Assessment Requirement; advancement to candidacy, and completion of all required core courses. Department approval of advisor and project. Students will choose either a thesis, project or comprehensive examination in consultation with their advisor.  
Offered As needed

**CLS 600. Grad Continuation Course. (1 Units)**

Graduate students who have completed course work but not their thesis, project, or comprehensive examination, or who have other requirements remaining for completion of their degree, may maintain continuous attendance by enrolling in this course. Signature of graduate program coordinator required.  
Offered Fall, Spring

## Communication Sciences and Disorders (CSD)

**CSD 341. Communication Sciences and Disorders. (3 Units)**

Overview of normal and disordered communication, including speech, language, hearing, and swallowing impairments. Educational and clinical requirements for entry into the speech pathology profession. Introduction to the Code of Ethics of the American Speech, Language, Hearing Association (ASHA).  
Offered Fall

**CSD 342. Phonetics. (3 Units)**

Study of the physical and physiological bases of speech, the articulatory, acoustic and linguistic aspects of the sound system of standard and non-standard dialects of American English. Practice using the International Phonetic Alphabet (IPA) for broad and narrow transcription.  
Offered Fall

**CSD 343. Speech and Language Development. (3 Units)**

Study of the acquisition of phonology, morphology, semantics, syntax and pragmatics in typically developing children. Includes the biological, cognitive, and social bases of language acquisition, theories of language acquisition and an introduction to the acquisition of first and second languages.  
Offered Spring

**CSD 354. Anatomy and Physiology of the Speech and Swallowing Mechanism. (3 Units)**

Study of the anatomy and physiology of the speech and swallowing mechanism. The processes of respiration, phonation, resonance, articulation, and swallowing are included. An introduction to the central nervous system and the peripheral nervous system is provided.  
Offered Spring

**CSD 355. Audiology and Audiometry. (3 Units)**

Anatomy and physiology of the outer, middle, and inner ear and the central auditory processing system. Characteristics of hearing disorders including etiologies and risk factors. Methods and procedures used in assessing the auditory system and management of hearing disorders.  
Offered As needed

**CSD 356. Clinical Methods and Procedures. (3 Units)**

Introduction to general principles and procedures for assessment and treatment of individuals with communicative disorders. Basic concepts of standardized and non-standardized evaluation procedures for children and adults. Theory and application of clinical writing. Multicultural considerations will be addressed.  
Offered As needed

**CSD 441. Speech Science. (3 Units)**

Structure and function of neuromuscular systems used in respiration, phonation, and resonance-articulation. Introduction to the psychological and acoustic aspects of speech production and perception. Students are introduced to instrumentation for acoustic and perceptual analysis of speech.

Offered Fall

**CSD 442. Neurology and Neurogenic Disorders. (3 Units)**

Anatomy and physiology of the nervous system as they relate to speech, language, hearing and swallowing. Clinical characteristics of neurogenic language disorders, apraxia of speech and dysarthria. Contemporary approaches to assessment and treatment. Disorders will be discussed across the lifespan.

Offered Fall

**CSD 443. Disorders of Articulation and Phonology. (3 Units)**

Examination of theories of normal and disordered acquisition of phonology and articulatory production. Includes phonologic assessment methods, practice in analysis of child speech samples, and contemporary approaches to intervention. Emphasis on speech profiles of special populations.

Offered Spring

**CSD 454. Childhood Language Disorders. (3 Units)**

Analysis of components of language and how they relate to language disorders in children. Involves multiple diagnostic categories for language impairment, risk factors for language impairment, methods of prevention, assessment and clinical management. Emphasis on linguistic and cultural diversity.

Offered Spring

**CSD 455. Disorders of Voice and Fluency. (3 Units)**

Etiology, assessment, and therapy for disturbances in fluency of speech with emphasis on psychological, physiological, and linguistic variables correlated to dysfluent behaviors. Etiology, characteristics, clinical assessment and therapeutic management of functional and organic voice disorders throughout the lifespan.

Offered Spring

**CSD 456. Aural Rehabilitation. (3 Units)**

Nature of hearing impairment and impact on communicative function in children and adults. Theories and delivery methodologies for speech reading, hearing aid use, counseling, assessment and remediation of speech and language skills, auditory training, and educational placement for children.

Offered As needed

**CSD 495. Special Topics in Communication Sciences and Disorders. (1-3 Units)**

Prerequisite: Consent of instructor. Advanced course of special interest for students in the selected area of study. Topic and content will vary as announced.

Offered Fall, Spring, Summer

## Communications (COM)

**COM 100. Media & Society. (3 Units)**

A critical overview of media culture including newspapers, magazines, film, radio, television, popular music, advertising, public relations, and the Internet. Focuses on building critical media literacy skills by developing a concrete understanding of media history, media analysis, the structure of media industries and their major players and products.

Offered Fall, Spring, All terms

**COM 105. Introduction to Media Criticism. (3 Units)**

Develops the analytical tools required for critical understanding of media culture. Investigates relationships between institutions, texts, audience practices and technologies in order to build a foundation for informed media engagement, criticism and analysis in the 21st century.

Offered Fall

**COM 106. Digital Toolkit. (2 Units)**

Co-requisite: COM 107 is required. Introduction to the foundational and emerging tools, platforms, and digital skills essential for students interested in pursuing careers in any communications or related field, including word processing, data management, presentational, media content creation, web publishing and design/editing software and programs.

Offered Fall, Spring

**COM 107. Digital Toolkit Lab. (1 Units)**

Co-requisite: COM 106 is required. Provides practice in the foundational and emerging tools, platforms, and digital skills essential for students interested in pursuing careers in any communications or related field, including word processing, data management, presentational, media content creation, web publishing, and design/editing software and programs.

Offered Fall, Spring

**COM 110. Introduction to Digital Media Production. (2 Units)**

Co-requisite: COM 111 is required. An introduction to the process of digital video production that provides basic skills in all areas of digital video production in preparation for a career in any communications or related field that might require these basic skills. Skill sets include camera, lighting, sound, pre-production and production methodologies, and basic digital processes.

Offered Fall, Spring

**COM 111. Introduction to Digital Media Production Laboratory. (1 Units)**

Co-requisite: COM 110 is required. Provides instruction on basic skills in all areas of digital video production. The lab provides hands-on training in the use of camera operations, lighting, sound recording, pre-production, production and post-production methodologies, and basic digital processes.

Offered Fall, Spring

**COM 130. Introduction to Film. (3 Units)**

An introduction to the study of film as an aesthetic, historical, and cultural phenomenon, and to various methods of critical analysis.

Offered Fall, Spring

**COM 200. Genre Analysis. (3 Units)**

Prerequisites: COM 100 or COM 105 is required. Critical study of a specific genre of media (horror, science fiction, western, or documentary for example). Examines genres in their cultural and historical context and critical analysis writing using appropriate concepts and terminology.

Offered All terms, Fall, Spring

**COM 206. Photojournalism. (3 Units)**

Instruction in the basic principles of still photography.

Offered Infrequent, All terms

**COM 250. Writing for the Media. (3 Units)**

Instruction and practice in the basics of reporting and writing news for print, electronic and digital media.

Offered Fall, Spring, Summer, All terms

**COM 251. Newswriting in Spanish. (3 Units)**

Prerequisites: SPA 220 and SPA 221; or SPA 280 are required. Instruction and practice of the basics of reporting in Spanish language for traditional and new media. Students will gain the ability to conduct research, find sources and produce news in Spanish.  
Offered Fall, Spring, Summer

**COM 280. Intro to Television. (2.7 Units)**

Offered All terms

**COM 282. Writing for Radio/Tv Film. (2.7 Units)****COM 284. Advanced TV Production. (2.7 Units)**

Offered All terms

**COM 287. TV Directing. (2.7 Units)****COM 301. News and Information Literacy. (3 Units)**

Develop critical thinking and literacy skills through examination of news and other constructed messages. Emphasis on analyzing and evaluating information sources and their narratives, structures, origins, placement and availability.  
Offered Fall, Spring

**COM 302. Law Of The Mass Media. (3 Units)**

Libel law, right to privacy, contempt of court, copyright, the right to print news of public affairs, the Freedom of Information Act, and other legal topics of concern to the media professional.  
Offered Fall, Spring

**COM 307. History of Film. (3 Units)**

Prerequisite: COM 100 or COM 105 is required. A critical survey of the history of film from the 1890s to the present. Covers a range of cinematic traditions from narrative to experimental. Examines the interrelationships between cinematic forms, industry, regulation, technology, aesthetics, and culture.  
Offered Spring

**COM 308. Television History. (3 Units)**

Prerequisite: COM 100 or COM 105 is required. A critical survey of the history of American television, from the 1940s to the present. Examines the interrelationships between programming forms, industry, regulation, technology, aesthetics, and culture.  
Offered Fall

**COM 309. History of Emerging Media. (3 Units)**

Prerequisite: COM 100 or COM 105 is required. A critical survey of the history of new and emerging media forms from 1830s to the present. Examines a range of media technologies as sites of contestation and negotiation before their use by audiences had been institutionalized within industry and culture.  
Offered Fall, Spring

**COM 311. Persuasion. (3 Units)**

Prerequisite: COM 100 is required. Provides students with an in-depth understanding of persuasion conceptions, theories, and practices. Students analyze findings and implications of persuasion research to real-world cases.  
Offered Infrequent

**COM 314. Broadcast Journalism. (2 Units)**

Prerequisite: COM 250 is required. Co-requisite: COM 315 is required. Provide students with accurate news judgement and the fundamental journalistic techniques of news gathering, reporting, writing, editing, evaluating, and producing news and feature stories for radio and television news broadcasts.  
Offered Fall

**COM 315. Broadcast Journalism Lab. (1 Units)**

Prerequisite: COM 250 is required. Co-requisite: COM 314 is required. Provide students with accurate news judgement and the fundamental journalistic techniques of news gathering, reporting, writing, editing, evaluating, and producing news and feature stories for radio and television news broadcasts.  
Offered Fall

**COM 320. Sports Journalism. (3 Units)**

Prerequisite: COM 250 is required. Provides instruction and practice in reporting stories and producing multimedia news packages on a variety of sports topics including game coverage, interviewing, and reporting on both professional and amateur sports activities for print, broadcast, and online media.  
Offered Fall

**COM 328. Entertainment and Lifestyle Journalism. (3 Units)**

Prerequisites: COM 250 is required. Theory and practices of journalistic writing about television, film, music, visual arts, travel destinations, dining and other cultural phenomena across media platforms.  
Offered Spring

**COM 330. Emerging Media Writing. (3 Units)**

Prerequisite: COM 100 or COM 105; and COM 106 are required. Course focuses on writing interactive stories for emerging media. Students develop skills in generating concepts, story structure, character development, incorporating interactivity and pitching. Students conduct both collaborative and individual projects and develop skills for peer critique of creative work.  
Offered Spring

**COM 331. Screenwriting I. (3 Units)**

Prerequisite: COM 100 or COM 105 is required. Serves as an introduction to the craft of screenwriting, with primary focus on equipping students with the skills to write scenes and short format screenplays and to analyze and evaluate feature films and screenplays.  
Offered Fall, Spring

**COM 332. Writing for Series Television. (3 Units)**

Prerequisite: COM 100 or COM 105 is required. Students break down the TV-writing process then apply each step to the development of their own original script. Students will learn the basic theory and formal aspects of story structure, character development, the use of conflict, scene writing and dialogue for television.  
Offered Fall

**COM 333. Digital Journalism. (2 Units)**

Prerequisites: COM 110 and COM 250 are required. Co-requisites: COM 334 is required. Provides students with skills needed to gather news, analyze and produce a variety of stories for digital media across platforms and digital publishing tools, including social media, podcasts, blogs, videos, and websites, as well as to understand the nature of the emerging field of convergent journalism.  
Offered Fall, Spring

**COM 334. Digital Journalism Laboratory. (1 Units)**

Prerequisites: COM 110 and COM 250 are required. Co-requisite: COM 333 is required. Provides skills needed to gather, analyze and produce a variety of stories for digital media, across platforms and digital publishing tools, including social media, podcasts, blogs, videos, and websites, and understand the emerging field of convergent journalism.  
Offered Spring

**COM 338. Cross-Cultural Journalism. (3 Units)**

Prerequisite: COM 250 is required. Provides a broad, critical examination of differences in global news culture, policies and styles, including Spanish-language, alternative, ethnic-focused, and political-driven media, and other cultural print and broadcast organizations. Topics vary by semester.

Offered Fall, Spring

**COM 339. Latinx culture and the news media in the USA. (3 Units)**

This course offers an overview of contemporary Latinx news media in the U.S. For a deeper understanding of the topics reported in the LatinX new media, students will learn about the countries that comprise Latin America. This includes Latin American history and culture. The course will highlight current events in Latin America and how they connect with Latinx communities in the U.S.

Offered Fall, Spring

**COM 340. Emerging Media Making. (2 Units)**

Prerequisites: COM 100 or COM 105; and COM 106/107 are required.

Co-requisite: COM 341 is required. Students utilize digital software to produce original new media projects, including memes, pixel art, music, interactive fiction and/or digital games. Students conduct both collaborative and individual projects and develop skills for peer critique of creative work.

Offered Infrequent

**COM 341. Emerging Media Making Lab. (1 Units)**

Prerequisites: COM 100 or COM 105; and COM 106/17 are required.

Corequisite: COM 340 is required. Lab activity works in conjunction with COM 340: Emerging Media Making to give students hands-on time with production software under instructor supervision.

Offered Infrequent

**COM 342. Advertising Strategy and Copywriting. (3 Units)**

Planning, creating and preparing demographically and psychographically targeted advertisements for print, electronic, interactive, and out-of-home media. Students will write copy for commercial and not-for-profit advertising campaigns. Restricted to majors

Offered Fall, Spring

**COM 344. Advertising Media Analysis. (3 Units)**

Analysis of the comparative advantages (cost and market impact) of various advertising media as a basis for time and space buying within the context of the creative advertising campaign with an emphasis on campaign planning and implementation.

Offered Fall, Spring

**COM 346. News Gathering & Reporting. (3 Units)**

Prerequisites: COM 250. Theory and practice of information gathering for print and electronic media writing, including the art of interviewing. Identification, assessing and verifying published, computerized data base and live sources. Special emphasis on interview problems such as invalid inference and supposition.

Offered Fall, Spring

**COM 347. Multimedia Interviewing Practices. (3 Units)**

Prerequisites: COM 100, COM 110 and COM 250 are required. An introduction to the fundamentals of gathering information through interview techniques, active listening, nonverbal communication, and psychological dynamics of interviewing in journalistic situations. Emphasis on accurate note taking, transcribing, and narrative structure from interviewing for print, online, and broadcast media.

Offered Fall, Spring

**COM 348. News Editing And Design. (3 Units)**

Prerequisites: COM 250. Principles, practice in copy editing, including review of grammar, spelling, punctuation, word use, organization, word flow, sentences, information verification, application of appropriate story forms; writing headlines, photo cropping and sizing, computer desktop page design and editorial judgment. One hour lecture, two hours activity per week.

Offered Infrequent

**COM 350. Culture, Gender and Strategic Communication. (3 Units)**

Prerequisite: COM 100 is required. Improve the understanding of cultural differences and assumptions regarding gender in the context of strategic communication. An overview of major communication theories, strategies, methods, and practices in advertising and public relations campaigns will be covered. Develop advertising skills and public relations messages based on cultural aspects in strategic communication.

Offered All terms, Fall, Spring

**COM 352. Feature And Critical Writing. (3 Units)**

Prerequisites: COM 250. Analysis and practice of preparing feature stories and critical reviews for newspapers, magazines, radio, television and video. Assignments include profiles, how-to pieces and news features. Critical reviews focus on theatre, film, music, fine arts and books. Two hours lecture, two hours activity per week.

Offered Fall, All terms

**COM 355. News Production Workshop. (3 Units)**

Prerequisites: COM 250 is required, COM 346 is recommended.

Production of print and electronic forms of campus newspaper. Practices include original story selection, writing, reporting, interviewing, and editing. Repeatable course. Two hours lecture, three hours activity per week.

Offered Fall, Spring

**COM 358. Communications Graphics. (3 Units)**

Prerequisites: COM 250. Learning methods for producing various forms of visual communications including fliers, informational graphics and logos, newsletters, magazines and newspapers in correlation with desktop publishing, page design, typography selection, copy fitting photo sizing and cropping. Two hours lecture, two hours activity per week.

Offered Infrequent

**COM 360. Pub Affairs & Edit. Writing. (3 Units)**

Prerequisites: COM 250 and COM 346. Reporting, writing and editorial interpretation of public affairs events and issues, including on-site coverage of local governments, civic affairs, schools, police and courts. Utilization of public documents, enhancement of interviewing techniques, with emphasis on accuracy, clarity and social responsibility. Two hours lecture and two hours activity per week.

Offered Infrequent

**COM 363. Social Media Strategies. (3 Units)**

Prerequisites: COM 250 and COM 365 are required. Provides an overview of various social media techniques and the strategies to help organizations engage in dialogue and build relationships effectively with different audiences and stakeholders.

Offered Spring

**COM 365. Introduction to Public Relations. (3 Units)**

Public relations practices and principles as applied to government, education and industry.

Offered Fall, Spring

**COM 366. Public Relations Writing. (2 Units)**

Prerequisites: COM 250 and COM 365. Co-requisite: COM 367 is required. Public relations writing; message and audience analysis. Creating effective forms of public relations communications, producing print and video press releases, public service announcements, media fact sheets and alerts, executive letters, press kits and brochures and newsletter copy. Two hours lecture, two hours activity per week.

Offered Fall, Spring

**COM 367. Public Relations Writing Lab. (1 Units)**

Prerequisites: COM 250 and COM 365 are required. Co-requisite: COM 366 is required. Public Relations writing laboratory course that covers the creation of effective forms of public relations communications; the production of print and video press releases, public service announcements, media fact sheet ans alerts, executive letters, press kits and brochures, and newsletter copy.

Offered Fall, Spring

**COM 368. Investigative Reporting. (3 Units)**

Prerequisite: COM 250 is required. Prepares students to conduct in-depth reporting by examining the motivation, process, and skills behind investigative journalism, including obtaining and analyzing public records, private documents and data on social, political, and scientific issues for print, broadcast or online media.

Offered Fall

**COM 370. Creative Producing I. (3 Units)**

Prerequisites: COM 100 or 105, COM 379, and COM 330, COM 331 or COM 332 are required. Builds on students' understanding of storytelling and the industry to provide an introduction to script development and writing coverage. Students study the basics of packaging films for Hollywood and how to navigate the business of both studio production and independent film-making.

Offered Fall, Spring

**COM 372. Crisis Communication. (3 Units)**

Prerequisites: COM 250 and COM 365 are required. An introduction to crisis communication theory and application. The course will cover crisis communication theory, crisis management strategies and various case studies.

Offered All terms, Fall

**COM 375. Media and Representation. (3 Units)**

Prerequisite: COM 100 or COM 105 is required. Critical study of US media representations of race, gender, class, sexuality, and other markers of difference. Considers the complex social, historical, and industrial forces shaping media portrayals of identities, groups, and cultures.

Offered Fall, Spring

**COM 376. Transmedia Storytelling. (3 Units)**

Prerequisite: COM 100 or COM 105; and COM 379 are required. Provides an overview of the transmedia landscape and developing skills necessary for writing stories intended for use across multiple platforms. Topics include how stories are developed for cross media consumption from story ideation to production and distribution.

Offered Fall

**COM 377. Global Media. (3 Units)**

Prerequisites: COM 100 or COM 105; and COM 379 are required. Critical study of media outside of the US; may focus on a transnational, national, regional, or local media tradition or industry. Considers how global media relates to history, culture, and identity. Focuses on critical analysis writing using appropriate concepts and terminology.

Offered Spring

**COM 378. Media Audiences. (3 Units)**

Prerequisite: Prerequisites: COM 100 or COM 105 is required. Critical study of a specific media audience (comic book fans, social media users, telenova viewers, for example). Examines audiences in cultural and historical context, considering the range of ways in which audiences make meaning from and engage with media texts.

Offered Fall

**COM 379. Media Industries. (3 Units)**

Prerequisite: COM 100 or COM 105 is required. Analyzes contemporary media industries offering a comprehensive overview of how the industries work, their historical roots in relation to how they operate today, and their cultural influence. Examines how the relationships between various cultural, industrial, regulatory, and economic elements set the conditions by which media industries create cultural texts.

Offered Fall, Spring

**COM 388. Digital Magazine Production. (1 Units)**

Prerequisites: COM 250, COM 347 and COM 352 are required. Co-requisite: COM 389 is required. This course is designed to build skills in advanced feature storytelling through the production of a digital magazine for distribution across digital platforms. From conception to production, feature story packages and will be developed with a strong focus on research, writing, editing, photography, creating videos and podcasts, and design.

Offered Spring

**COM 389. Digital Magazine Production Laboratory. (2 Units)**

Perquisites: COM 250 and COM 352 are required. Co-requisite: COM 388 is required. This course is designed to build skills in advanced feature storytelling through the production of a digital magazine for distribution across digital platforms. From conception to production, feature story packages and will be developed with a strong focus on research, writing, editing, photography, creating videos and podcasts, and design.

Offered Spring

**COM 390. Hollywood by the Horns. (3 Units)**

Prerequisites: COM 100 or COM 105; and COM 379 are required. Workshop that contributes to the mission of the Hollywood by the Horns program: to build up and maintain the relationship between working professionals in Hollywood and the dynamic students of CSU Dominguez Hills. Requires department consent.

Offered Fall

**COM 400. Media Analysis and Research Methods. (3 Units)**

Prerequisites: COM 100 and COM 250. Critical analyses of the media and their role in society from an empirical research perspective. Emphasis on social science-based research methods including focus groups, in-depth interviews, correlational studies and experiments, and research report preparation.

Offered Fall, Spring

**COM 420. Screenwriting II. (3 Units)**

Prerequisite: COM 100 or COM 105; and COM 331 are required. Advancing the process of screenwriting, students develop original work culminating in the completion of the first act of a feature length screenplay. Final projects can be developed into a senior project for COM 490.

Offered Infrequent

**COM 435. Media Psychology. (3 Units)**

Prerequisite: COM 100 is required. Course is designed to acquaint students with the burgeoning field of media psychology, which examines the intersection of media use/media content and psychological processes. In this course, students will learn how mass media messages, images, and texts can alter our thoughts, feelings, and behaviors, and how media and technology use may lead to or exacerbate psychological disorders.

Offered Spring

**COM 467. Integrated Communications Management. (3 Units)**

Prerequisites: COM 250, COM 365 and COM 366 are required. Analysis and development of strategies for planning/implementing integrated communications campaigns and preventing/solving integrated communications problems. Emphasis is placed on both individual and team case studies, incorporating strategic planning and writing techniques previously learned.

Offered Fall, Spring

**COM 470. Creative Producing II. (3 Units)**

Prerequisites: COM 100 or COM 105, COM 370, and COM 330, COM 331, or COM 332 are required. Develops students' knowledge of producing scripted entertainment from development through distribution. Students will complete advanced work in screenplay development and the multiple pathways to producing.

Offered Infrequent

**COM 490. Senior Project. (3 Units)**

Prerequisite: Consent of department; senior standing. Discussion and preparation of senior project and professional portfolio.

Offered Fall, Spring

**COM 494. Independent Study. (1-3 Units)**

Independent study in any relevant subject area under the direction of a member of the Communications Department faculty. Course repeatable 3 times for a maximum of 9 units.

Offered Fall, Spring

**COM 495. Special Topics. (3 Units)**

Prerequisite: COM 100 or COM 105 is required. Restricted to seniors or by consent of department. An intensive study of an issue or concept in journalism, advertising, public relations, film, television or emerging media that is of special interest to both the faculty member and the students. Repeatable for credit

Offered As needed

**COM 496. Internship In Communications. (3 Units)**

Prerequisites: Senior standing and/or approval of the department is required; completion of a minimum of 27 upper division units in the major is recommended. Directed work experience in the communications field-print or electronic journalism, public relations or advertising, film, broadcasting, or telecommunications. Ideally, such work provides a practical bridge linking the student's academic studies with the world of work. A minimum of 10 hours a week of supervised work experience under the direction of a professionally-qualified mentor.

Offered Fall, Spring

## Computer Information Systems (CIS)

**CIS 170. Intro To Comp And Data Proc. (2.7 Units)**

Offered Infrequent, All terms

**CIS 270. Info Sys/Tech Fundamentals. (3 Units)**

Provides an introduction to information technology, systems concepts, and application software. Covers system components and relationships, cost/value and quality of information, and package software solutions. Includes basic skills related to operating systems, word processing, spreadsheet software, and the Internet.

Offered Fall, Spring, Summer

**CIS 272. Business Programming I. (3 Units)**

Prerequisite: CIS 270 or CSC 111 or CSC 121 may be taken concurrently. Provides an understanding of algorithm development, programming, computer concepts and the design and application of data and file structure. Topics include file processing, data analysis, form design, and report generation.

Offered Fall, Spring, All terms

**CIS 275. Internet Literacy. (3 Units)**

Digital skills and concepts needed for success in the Internet era as a student, professional, and lifelong learner. Concepts pertaining to Internet technology and applications, their implications for key relationships of humankind to the social and physical environment. Skills using and developing Internet applications in everyday life.

Offered Fall, Spring

**CIS 276. Personal Product with IS Tech. (3 Units)**

Prerequisite: CIS 270. Enables student to improve their skills as knowledge workers through effective and efficient use of productivity software. Covers advanced features of word processing, spreadsheet, presentation, database, and groupware, including applications development.

Offered Infrequent

**CIS 370. Info Sys Theory and Practice. (3 Units)**

Prerequisite: CIS 270 or CSC 111 or CSC 121. Provides an introduction to organizational systems, planning, and decision process, and how information is used for decision support in organization. Covers the concepts of information systems for competitive advantage, data as a resource, quality control and reengineering, management and development of systems, and end-user computing.

Offered Fall, Spring, Summer

**CIS 371. Business Programming II. (3 Units)**

Prerequisite: CIS 272. Analysis, design, and development of business applications using object-oriented programming languages. Topics include GUI interface, application optimization, client/server applications, ad hoc queries, and dynamic link libraries.

Offered Fall

**CIS 372. Systems Analysis and Design. (3 Units)**

Prerequisite: CIS 370 may be taken concurrently. Business computing systems, with emphasis on system analysis; tools and techniques of systems study; problem definition, data requirements and analytical approaches.

Offered Fall, Spring, Summer, All terms

**CIS 373. Database Systems. (3 Units)**

Prerequisites: CIS 370. CIS 272 is recommended. Concepts of data structures and data base processing; major approaches to design and implementation of data base applications; discussion of commercial systems.

Offered Fall, Spring

**CIS 375. Data Communications. (3 Units)**

Prerequisite: CIS 370. History and trends of hardware/software for telecommunications; asynchronous and synchronous protocols; codes; case studies of current commercial applications; distributed processing; carriers, services and regulatory agencies; standards; error management; reliability; design and tuning of networks; security.  
Offered Fall, Spring

**CIS 378. Info Security Theories & Pract. (3 Units)**

Prerequisites: CIS 272 or CIS 275, and CIS 370. Covers security policies, models, and mechanisms for privacy, integrity, and availability. The business impact of security is also discussed along with countermeasures and best practices used to prevent or mitigate the effects of attacks and malicious code. Various IT security threats and foundation of an overall information security program needed to combat these threats are described.  
Offered Fall

**CIS 380. Introduction to Programming for Data Analysis. (3 Units)**

Prerequisites: CIS 370 and CJA 341 or PUB 305 or OMG 321 are required. CIS 373 is recommended. Introduces students to basic programming skills, using one or more programming languages which are widely applicable to data analysis and visualization, that would enable them to be productive in the field of data analytics.  
Offered Fall, Spring

**CIS 471. Adv Network Based Applications. (3 Units)**

Prerequisites: CIS 275. Covers network-based applications in commerce and cooperative work. Internet publishing and commerce, Internet Protocol servers, database connectivity, computer support of cooperative work.  
Offered Spring

**CIS 474. Project Management Fundamentals. (3 Units)**

Prerequisite: CIS 370 is required. Focuses on basic tools, techniques, and concepts for guiding a scientific project from inception to successful completion. Demonstrates how complexity can be managed in a manner that increases the probability of project success. Students will gain a working knowledge of the major areas of the Project Management Body of Knowledge (PMBOK as defined by the Project Management Institute)  
Offered Fall, Spring

**CIS 476. Adv Concepts Bus Systems. (3 Units)**

Prerequisite: CIS 370. Special topics from modern computing developments. Special emphasis will be given to topics not included in other course offerings (e.g., decision support systems, videotex, etc.). Repeatable course.  
Offered As needed

**CIS 477. Adv Data Communications. (3 Units)**

Prerequisite: CIS 370 and CIS 375. Covers advanced topics required to design, implement, and maintain networks, including the advanced aspects of protocol models, IP addressing, routing, subnetting, and the configuration and operation of network devices.  
Offered Fall

**CIS 478. Firewall and Computer Network Security. (3 Units)**

Prerequisites: CIS 275 or CIS 375. Provides an introduction to firewalls and other network security components and elements that can work together to create an in-depth defensive perimeter around an LAN. These include packet filtering, authentication, proxy, servers, encryption bastion, virtual private networks, long file maintenance, and intrusion detection systems. Practical topics in network security include policy and mechanism, malicious code; intrusion detection, prevention, response; cryptographic protocols for privacy and integrity are also covered.  
Offered Fall

**CIS 480. Data Mining and Business Intelligence. (3 Units)**

Prerequisite: CIS 373 is required. Data mining concepts such as data pattern recognition, data cleansing, data transformation, and data extraction. Also, typical processes, tools, and applications for better business decisions.  
Offered Fall, Spring

**CIS 482. Databases & Web Security. (3 Units)**

Prerequisites: CIS 473 and CIS 478. This course introduces methods of protecting data: discretionary and mandatory access controls, secure database design, data integrity, secure architectures, secure transaction processing, information flow controls, inference controls, and auditing. Security models for relational and object-oriented databases, methods to develop the overall security program necessary to protect data and react to threats as they occur, and security problems raised by data warehousing and data mining are discussed. Furthermore the course covers Web security including SSL/TLC protocols, HTTPS as it relates to SSL, the most common uses of Instant Messaging application, and the variety of mainstream web tools such as JavaScript, Buffer Overflow, ActiveX, Cookies, Applets, and SMTP that are commonly exploited by attackers on the internet.  
Offered Spring

**CIS 488. Mgt of Information Security. (3 Units)**

Prerequisites: CIS 482 or may be taken concurrently. This course provides a management overview of information security and a thorough treatment of the administration of the information security. Issues based on the management functions of Planning, Policy, People, Project Management, Risk Management, and Risk Protection are discussed. The course also discusses practical methods for 1) developing practical risk assessment procedures that link security to business needs, 2) involving business managers in risk assessment, and 3) managing risk on a continuing basis.  
Offered Spring

**CIS 494. Ind Study In Comp Info Systems. (3 Units)**

Prerequisites: CIS 372, minimum GPA 3.0, and upper division standing. Independent research or special project under the direction of a full-time faculty member in the Computer Information Systems Department. CR/NC grading.  
Offered Fall, Spring

**CIS 496. Internship In CIS. (3 Units)**

Prerequisites: Minimum GPA 3.0. A project-type course in computer information systems carried out on an independent basis, with the cooperation of an industrial or governmental concern that is active in the CIS field. Professional report describing project is required. CR/NC grading.  
Offered Fall, Spring

**CIS 502. Adv Topics in Info Systems. (3 Units)**

Prerequisite: CIS 270. Covers issues of concern to managers in areas such as information processing applications and technology, management of the information processing function, impacts of information technology on the firm and on society, global information systems and the information superhighway.  
Offered Infrequent

**CIS 503. IT in International Business. (3 Units)**

Prerequisite: CIS 502 may be taken concurrently. Applying information technology in international business. Topics include traditional and Web-based EDI (electronic data interchange), ebXML, global telecommunications, collaborative technology, supply chain management, strategic management of international information systems, legal and cultural challenges to implementing international information systems.

Offered Infrequent

**CIS 520. Network-based Applications. (3 Units)**

Prerequisite: CIS 502 may be taken concurrently. This course focuses on the applications and implications of networks for individuals, organizations and society. It covers the historical aspects of networks and their applications, the emerging network applications, and the impact of network applications on individuals, organizations and society.

Offered Infrequent

**CIS 530. Enterprise Resource Planning. (3 Units)**

Prerequisite: CIS 502 may be taken concurrently. A theoretical and practical study on enterprise resource planning (ERP) systems, including the architecture and differentiation among major commercial ERP software, ERP relationship to various functional business areas, issues of implementing ERP, and the security and confidentiality issues in ERP.

Offered Infrequent

**CIS 540. Data Warehousing & Mining. (3 Units)**

Prerequisite: CIS 502 may be taken concurrently. This course covers topics in (1) data warehousing, e.g. extracting, cleaning, and organizing data from transactional databases, (2) data mining, e.g. extracting patterns and relationships from the data warehouse, and (3) decision making based on the patterns from the data mining process.

Offered Infrequent

**CIS 550. Project Management. (3 Units)**

Prerequisite: CIS 502 may be taken concurrently. This course addresses how IT projects should be managed. Topics include human resources management, communications management, scope management, quality management, scheduling/time management, cost and resource management, risk management, contract/procurement management, and project integration.

Offered Infrequent

**CIS 560. Info Security for Management. (3 Units)**

Prerequisite: CIS 502 may be taken concurrently. Topics on information security include the legislation and standards, law and ethics, planning for security and contingencies, policies and procedures, security management, network vulnerabilities, firewall, viruses and other malicious code, risk management, protection mechanisms and current problems in system security.

Offered Infrequent

**CIS 575. SAP Supply Chain. (3 Units)**

Prerequisite: CIS 530 and OMG 510. This course will teach the student how to use SAP software to structure and implement solutions to various aspects of supply chain operations. Among the topics to be covered will be demand and supply planning, procurement, manufacturing, warehousing, order fulfillment, and transportation.

Offered All terms, Infrequent

**CIS 580. IT Mgt. Capstone Project. (3 Units)**

Prerequisite: CIS 502 and completion of at least 3 electives. In this course, students tackle real life IT management projects. Emphases are on applying theoretical frameworks to align enterprise IT and business strategies, and on integrating and applying knowledge and skills that they have acquired from the previous course work.

Offered Infrequent

**CIS 594. Independent Study. (1-3 Units)**

Prerequisites: Consent of the instructor and MBA program coordinator. Independent research or other study under the direction of a full-time faculty member of the Computer Information Systems Department. CR/NC grading. Repeatable course.

Offered Infrequent

**CIS 595. Sel Topi in Comp Info Systems. (3 Units)**

Prerequisites: Graduate Standing and CIS 502. Intensive study of a specialized area of Computer Information Systems on a selected topic of particular interest to faculty and students. Three hours of seminar per week. Specific topic listed in class schedule. Repeatable course.

Offered Infrequent

## Computer Science (CSC)

**CSC 101. Intro.to Computer Education. (3 Units)**

A computer literacy course designed to familiarize the learner with a variety of computer tools and computer concepts with emphasis on utilizing packaged programs. This course provides an introduction to the use of computers, common software programs and peripherals. Students are instructed in the use of a word processor, drawing programs, spreadsheet, database, presentation tools, internet applications and statistical package in scientific applications.

Offered Fall, Spring

**CSC 111. Introduction to Computers and Basic Programming. (3 Units)**

Introduction to computer programming with particular emphasis on small systems through programming in the BASIC language.

Offered Fall, Spring

**CSC 112. Intro Computers And Basic. (20 Units)**

Offered All terms

**CSC 115. Introduction to Programming Concepts. (3 Units)**

Introduces students to computer programming by teaching techniques of problem solving. Students will become acquainted with decision constructs, looping structures, and subroutine modules. Students will learn the vocabulary of object-oriented programming.

Offered Fall, Spring

**CSC 116. Introduction to Computer Hardware and Tools. (3 Units)**

Introduction to microcomputer hardware and operating systems. Students will be required to use application software to research, generate and prepare a semester project.

Offered Fall, Spring

**CSC 121. Introduction to Computer Science and Programming I. (4 Units)**

Prerequisite: CSC 115 or equivalent and MAT 153 or consent of instructor. Organization of sequential, digital machine: CPU, I/O, storage, communications devices. Functions of operating systems: translators, editors, peripheral control utilities. The course covers the development, description, and analysis of elementary algorithms. It includes three hours of lecture and two hours of activity per week.

Offered Fall, Spring



**CSC 123. Introduction to Computer Science and Programming II. (4 Units)**

Prerequisites: CSC 121. Continuation of CSC 121. Fundamental programming concepts using arrays, records, pointers, linked list, trees and recursion. Good style, documentation and structure will be emphasized. Introduction to analysis of algorithms for efficiency and correctness.

Offered Fall, Spring, Summer

**CSC 195. Selected Topics in Computer Science. (1-4 Units)**

Prerequisite: Consent of Instructor. Content varies. Topics in computer science not covered by current course offerings.

Offered As needed

**CSC 221. Assembly Language and Introduction to Computer Organization. (3 Units)**

Prerequisite: CSC 121. Programming problems in assembly language. Writing and using macros. Features of modern computer hardware and operating systems.

Offered Fall, Spring

**CSC 251. C Language Programming and Unix. (3 Units)**

Prerequisite: CSC 121. Introduction to programming in the C language and its use in systems programming in the UNIX operating system.

Offered Fall, Spring

**CSC 255. Dynamic Web Programming. (3 Units)**

The goal of the course is to provide instruction to the design and implementation of dynamic web applications. Topics include origins of Internet, TCP/IP basics, Standard Generalized Markup Language SGML, XML and XSL languages, client-side and server-side languages: Perl and PHP; interactivity in website design, front-end interface to databases, website access control, confidentiality, integrity, accessibility and their applicability in developing dynamic and distributed client/server web applications.

Offered All terms, Fall, Spring

**CSC 281. Discrete Structures. (3 Units)**

This course introduces fundamental structures and logical principles that form the foundation of computer science. Topics will be introduced with emphasis on applications in computer science. Students will be required to write programs to deepen their understanding about the topics.

Offered Fall, Spring

**CSC 295. Sel. Topics in Computer Sci. (1-4 Units)**

Prerequisite: Consent of Instructor. Content varies. Topics in computer science not covered by current course offerings. May be used for elective credit in departmental programs. Subject to approval.

Offered As needed

**CSC 300. Software Development. (3 Units)**

Prerequisites: CSC 123 is required. This is an advanced Java programming course. Students are expected to have a much deeper understanding about major aspects of Java and OOP, and significantly enhance their programming and problem-solving ability. Several data structure and algorithms will be introduced.

Offered Fall, Spring

**CSC 301. Computers And Society. (3 Units)**

Prerequisites: CSC 101 or CSC 111 or CSC 115 or CSC 121 or CSC 272 or consent of instructor. Ethical, legal, psychological, economic, and theoretical implications and limitations of the uses of digital computers. Oral and written presentations required.

Offered Fall, Spring

**CSC 311. Data Structures. (3 Units)**

Prerequisites: CSC 123 and CSC 281 or MAT 281. More advanced and detailed treatment of concepts of data organization introduced in CSC 123. Includes lists, trees, graphs and storage allocation and collection. Applications to such areas as symbol tables, string search and optimization.

Offered Fall, Spring, Summer

**CSC 321. Programming Languages. (3 Units)**

Prerequisite: CSC 123. A comparative study of programming languages. Characteristics of languages and formal description of languages. Assignments in several languages.

Offered Fall, Spring

**CSC 331. Computer Organization. (3 Units)**

Prerequisites: CSC 221 and MAT 281. Structure of the modern digital computer. Introduction to Boolean algebra and design of digital circuits. Arithmetic, control, storage and input/output systems.

Offered Fall, Spring, Summer

**CSC 337. Microcomputers. (3 Units)**

Prerequisite: CSC 221, CSC 331, and MAT 281. The architecture, programming and interfacing of microcomputers. Topics include input/output, instruction sets, subroutines, interrupts and control. In-class use of microcomputer hardware. Repeatable course. Two hours of lecture and three hours of laboratory per week.

Offered Infrequent

**CSC 341. Operating Systems. (3 Units)**

Prerequisites: CSC 311, CSC 331, and MAT 321. Overall structure of batch and time-shared operating systems. Scheduling of jobs, CPU and I/O devices. Paged and segmented memory management. I/O programming and file handling. Synchronization of concurrent processes.

Offered Fall, Spring

**CSC 353. File Processing. (3 Units)**

Prerequisite: CSC 123 and CSC 251 are required; CSC 311 is recommended. Characteristics of secondary storage media. Logical vs. physical organization. Sequential, direct, and indexed access methods. Tree structure of indices; hashing.

Offered Infrequent

**CSC 361. Systems Programming. (3 Units)**

Prerequisite: CSC 311, CSC 331, and CSC 341. Design and construction of systems programs such as assemblers, macro processors and linking loaders. Introduction to software engineering.

Offered As needed

**CSC 371. Finite Automata. (3 Units)**

Prerequisite(s): CSC 311 is required. Introduces the formal foundations of computer science, the limits of computation, and the limits of efficient computation. The goal is to provide computer science students with a broad understanding of various models of computation and their power.

Offered Fall, Spring, Summer

**CSC 395. Sel Topics in Computer Science. (1-4 Units)**

Prerequisite: Consent of Instructor and upper division standing in major. Content varies. Advanced topics in computer science not covered by current course offerings. May be used for elective credit in departmental programs. Subject to approval.

Offered As needed

**CSC 401. Analysis Of Algorithms. (3 Units)**

Prerequisite: CSC 311. Mathematical study of non-numeric computer algorithms. Topics include combinatorial techniques, algorithm proof, and program complexity.

Offered Fall, Spring

**CSC 411. Artificial Intelligence. (3 Units)**

Prerequisites: CSC 311 and CSC 321. Introduction to the use of computers to simulate intelligent behavior; includes game playing, problem solving, use of natural languages and pattern recognition. Offered Fall

**CSC 421. Advanced Programming Languages. (3 Units)**

Prerequisites: CSC CORE. Continuation of CSC 321. Methods of formal specification of syntax and semantics of programming languages and special purpose language features for such areas as simulation and systems programming. Offered Infrequent

**CSC 431. Advanced Computer Organization. (3 Units)**

Prerequisites: CSC 221, CSC 331, CSC 341, MAT 271, and MAT 281. Alternate computer architectures and features of large scale systems. Microprogramming, parallel processing, memory organization, input/output systems, interprocessor communications and multiprocessing. Offered Infrequent

**CSC 441. Advanced Operating Systems. (3 Units)**

Prerequisite: CSC CORE. Theoretical study of important topics in operating system design. Substantial individual and group programming projects. Offered Infrequent

**CSC 451. Computer Networks. (3 Units)**

Prerequisite: CSC 311 and MAT 281. An introduction to computer networks including both long haul and local area networks. Topics include network topology, network access methodology, transmission media, protocols and applications. Offered Fall, Spring

**CSC 453. Data Management. (3 Units)**

Prerequisite: CSC 311. Fundamental concepts in design, analysis and implementation of computerized database systems. Database models, user and program interfaces and database control. Offered Fall, Spring

**CSC 455. WWW Design and Management. (3 Units)**

Prerequisites: CSC 251, CSC 311 and CSC 321. An introduction to the design, implementation and management of World Wide Web over the Internet and Intranet networks. Topics include Internet overview, web authoring, web programming, server setting and maintenance. Offered Infrequent

**CSC 459. Security Engineering. (3 Units)**

The goal of the course is to provide introduction to the design, implementation and management of systems that remain dependable in the face of malice, error or mischance. Topics include the tools, processes and methods needed to design, implement and test complete systems and to adapt existing systems as their environment evolves. Specifically, it includes cryptography, privacy, hardware tamper resistance, firewalls, intrusion detection and prevention and security policies. Offered Fall, Spring

**CSC 461. Computer Graphics I. (3 Units)**

Prerequisite: CSC 311. Fundamental concepts of programming for computer graphics. Graphics devices, languages and algorithms. Substantial graphics programming projects. Offered Spring

**CSC 463. Computer Graphics II. (3 Units)**

Prerequisite: CSC 461. Advanced topics in computer graphics. Interactive graphics, animation, color and three dimensional modeling. Offered Infrequent

**CSC 471. Compiler Construction I. (3 Units)**

Prerequisites: CSC 221, CSC 311 and MAT 361. Introduction to the theory and practice of compiler construction. Overall structure of compilers. Lexical and syntactic analysis, code generation for block structured languages and code optimization. Offered Infrequent

**CSC 481. Software Engineering. (3 Units)**

Prerequisites: CSC 301, CSC 311 and CSC 321. Introduction to software engineering, with emphasis on software design and specification. Oral and written presentations required. Offered Fall, Spring

**CSC 490. Senior Seminar. (3 Units)**

Prerequisite: CSC 301, CSC 311 and CSC 321. Intense, structured seminar. Exposure to current areas of research in Computer Science. Students will attend department colloquia; conduct research; present individual and group projects; and, prepare a written proposal for a senior project. Offered Infrequent

**CSC 492. Senior Design. (3 Units)**

Prerequisites: CSC 301, CSC 321 and CSC 481. Intensive study under the guidance of a member of the Computer Science faculty which continues and expands the research carried out in Senior Seminar. Students will study system design and total project planning and management. A formal written report and oral presentation are required. Offered Fall, Spring, Summer

**CSC 495. Selected Topics. (3 Units)**

Prerequisite: CSC 311 is required. Content varies. Advanced topics in computer science not covered by current course offerings. May be used for elective credit in departmental programs. Subject to approval. Offered Fall, Spring

**CSC 497. Directed Study In Computer Science. (1-3 Units)**

Prerequisite: CSC CORE or consent of instructor. A project in computer science carried out on an independent study basis. Repeatable course. Offered Infrequent

**CSC 498. Directed Research. (1-3 Units)**

Offered Infrequent

**CSC 500. Research Methods. (3 Units)**

Prerequisite: Graduate standing and consent of instructor. Series of lectures given by faculty and visiting computer scientists. Offered Summer

**CSC 501. Design and Analysis of Algorithms. (3 Units)**

Prerequisite: CSC 401. Methods for the design of efficient algorithms: divide and conquer, greedy method, dynamic programming, backtracking, brand and bound, problem in string matching, polynomials and matrices, graph theory, NP-problems. Offered Fall, Spring, Summer

**CSC 511. Artificial Intelligence and Expert Systems. (3 Units)**

Prerequisite: CSC 411. Introduction to in-depth engineering approach to the field of artificial neural networks. Topics include different types of network architectures and applications, and their properties and behavior. Offered Fall

**CSC 521. Fundamentals and Concepts of Programming Languages. (3 Units)**

Prerequisite: CSC 321. Study of the principles that form the basis of programming language design. Research topics in high-level languages including : data abstraction, parameterization, scoping, generics, exception handling, parallelism and concurrency; alternative language designs; imperative, functional, descriptive, object-oriented and data flow; overview of interface with support environments.

Offered Spring

**CSC 531. Advanced Computer Architecture. (3 Units)**

Prerequisite: CSC 331. Covering new technological developments, including details of multiprocessor systems and specialized machines. The main focus is on the quantitative analysis and cost-performance tradeoffs in instruction-set, pipeline, and memory design. Description of real systems and performance data are also presented. Topics covered: quantitative performance measures, instruction set design, pipeline, vector processing, memory organization, input/output, and an introduction to parallel processing.

Offered Fall even

**CSC 541. Advanced Operating Systems. (3 Units)**

Prerequisite: CSC 341. Theoretical and practical aspects of operating systems: overview of system software, time-sharing and multiprogramming operating systems, network operating systems and the Internet, virtual memory management, inter-process communication and synchronization, file organization, and case studies. Giving advanced topics and examples, and simulation techniques used in performance evaluation.

Offered Fall

**CSC 546. Human Computer Interaction and Interface Design. (3 Units)**

Prerequisite: CSC 481. Research-oriented course; in-depth analyses of selected current topics with emphasis on problems related to computer systems, artificial intelligence, and human computer information interaction and interface design.

Offered Spring

**CSC 551. Data Communications and Computer Networks. (3 Units)**

Prerequisite: CSC 451. Topics related to the development of client-server based application, including two-tiers and multi-tiers Client-Server concepts and programming. Concurrency issues in the design of client and server programs. Trade-off of different architectures and usage of remote procedure calls. Broadcasting and multicasting.

Offered Fall odd

**CSC 552. Distributed Computing and Parallel Processing. (3 Units)**

Prerequisites: CSC 451, CSC 401. Comprehensive introduction to the field of parallel and distributed computing systems: Algorithms, architectures, networks, systems, theory and applications. The distributed parallel computation models, design and analysis of parallel algorithms will be discussed.

Offered Infrequent

**CSC 553. Advanced Database Management Systems. (3 Units)**

Prerequisite: CSC 453. Provides an in-depth treatment of one or more advanced topics in the management of information systems. The field of information systems consists of three major components: information systems technology, information systems development and information systems management. Deals with the latter area. Because of the many advances in information technology and the corresponding development techniques, new business opportunities are constantly emerging and with them the need to manage these applications effectively. Explores these new application areas and the management approaches needed to make them successful.

Offered Spring odd

**CSC 555. Information Assurance and Network Security. (3 Units)**

Prerequisites: CSC 451, CSC 401 and/or consent of instructor. Topics related to communications and IT infrastructures, their vulnerabilities as well as the size and complexity of security threats faced by enterprises, development of security practices, policies, awareness and compliance programs, and legal and regulatory issues will be examined. Fundamental encryption algorithms and systems supported in today's IT and secure communications networks Virtual Private Networks, Tunneling, Secure Socket Layer, SSH, and PGP will also be examined.

Offered Spring even

**CSC 561. Advanced Computer Graphics. (3 Units)**

Prerequisite: CSC 461. Solid modeling Euler operators, finite element methods. Rendering: filling, shading, ray tracing. Natural modeling: L-systems, fractals. Image processing: filtering anti-aliasing, enhancement. Color: physics, graphics, physiology.

Offered Spring

**CSC 564. Numerical Analysis. (3 Units)**

Prerequisite: MAT 361. Topics include numerical solution of partial differential equations by finite difference and finite element algorithms. Focus on direct and iterative methods for solving large, sparse linear systems and related eigenvalue and vector problems. Emphasis is placed on robust mathematical software and its interaction with computer hardware and languages.

Offered Infrequent

**CSC 565. Theory of Computation. (3 Units)**

Prerequisites: CSC 401 and MAT 361. Models of computation, complexity theory, intractable problems, complete problems, recursive function theory, incompleteness, formal theory of program semantics and correctness, logics of programs.

Offered Infrequent

**CSC 581. Advanced Software Engineering. (3 Units)**

Prerequisite: CSC 481. This course focuses on defining software requirements and provides an overview of advanced analysis and design techniques that can be used to structure applications. Topics of software requirements include interacting with end-users to determine needs and expectations, identifying functional requirements and identifying performance requirements. Analysis techniques include prototyping, modeling and simulation. Design topics include design in the system lifecycle, hardware vs. software trade-offs, subsystem definition and design, abstraction, information hiding, modularity and reuse.

Offered Spring

**CSC 582. Object-Oriented Analysis and Design. (3 Units)**

Prerequisite: CSC 481. Object-oriented analysis and design is essential in developing high-quality object-oriented systems. Topics will include object-oriented classes, attributes, methods and relations to other classes, objects, classifications and inheritance, encapsulation, polymorphism, object-oriented analysis, design and programming. Offered Fall

**CSC 583. Software Engineering Processes. (3 Units)**

Prerequisite: CSC 581. The course focuses on the engineering of complex systems that have a strong software component. Topics include deriving and allocating requirements, system and software architectures, system analysis and design, integration, interface management, configuration management, quality, verification and validation, reliability, and risk. Offered Fall

**CSC 584. Software Project. (3 Units)**

Prerequisite: CSC 581. The main topics of this course address the successful management of a software development project. This includes planning, scheduling, tracking, cost and size estimating, risk management, quality engineering, and process improvement. The course is centered on the concept of a software engineering process and includes discussion of life cycle models for software development. Offered Spring

**CSC 585. Advanced Software Quality Assurance. (3 Units)**

Prerequisite: CSC 581. The relationship of software testing to quality is examined with an emphasis on testing techniques and the role of testing in the validation of system requirements. Topics include module and unit testing, integration, code inspection, peer reviews, verification and validation, statistical testing methods, preventing and detecting errors, selecting and implementing project metrics and defining test plans and strategies that map to system requirements. Testing principles, formal models of testing, performance monitoring and measurement also are examined. Offered Fall odd

**CSC 590. Master's Project. (3 Units)**

Prerequisite: Graduate standing and consent of the graduate adviser. Offered on the letter-grade basis only. The equivalent of three lecture hours a week. Offered Fall, Spring

**CSC 594. Independent Study. (3 Units)**

Prerequisites: Graduate standing and consent of instructor. Individual studies in advanced computer science and technology. Offered Infrequent

**CSC 595. Special Topics in Computer Science. (3 Units)**

Prerequisite: Graduate standing and consent of instructor. Exposes students to new and emerging concepts and technologies. Offered Infrequent

**CSC 597. Directed Reading. (3 Units)**

Offered As needed

**CSC 599. Master's Thesis. (3 Units)**

Prerequisite: Graduate standing and consent of the graduate adviser. Computer research writing of thesis for a master's degree. CR/NC grading. Offered Fall, Spring

**CSC 600. Graduate Continuation Course. (1 Units)**

Prerequisite: Signature of graduate program coordinator required. Graduate students, who have completed their course work but not their thesis, project, or comprehensive examination, or who have other requirements remaining for the completion for their degree, may attain continuous enrollment by enrolling in this course. Offered Fall, Spring

## Computer Technology (CTC)

**CTC 195. Special Topics. (1-3 Units)**

Topics in computer technology not covered by current course offerings. May be used for elective credit in departmental programs. Subject to approval. Offered As needed

**CTC 218. Digital Logic Design. (3 Units)**

Provides students with a basic understanding of digital device and circuit fundamentals. The students should be able to analyze and design both combinational and sequential circuits after completing this course. Offered Fall, Spring

**CTC 228. Introduction to Operating Systems and Networks. (4 Units)**

Course acquaints students with basic networking concepts such as TCP/IP, local/wide area networking as well as emerging industry topics such as Radio Frequency Identification (RFID), Global Information Systems (GIS), Networked Attached Storage (NAS), and WiMAX. Offered Fall, Spring

**CTC 295. Special Topics. (1-3 Units)**

Topics in computer technology not covered by current course offerings. May be used for elective credit in departmental programs. Subject to approval. Offered As needed

**CTC 305. Introduction to Game and Mobile Programming. (3 Units)**

This course teaches students through lectures, discussions, demonstrations, and classroom labs. Students learn the knowledge, skills, and abilities necessary to create games in the C# programming language using the Microsoft XNA framework and Silver light. Offered Fall

**CTC 310. Software Project Management. (3 Units)**

Course will focus on the critical aspects of project management, including software project management concepts and case studies, and discuss software project management roadmap, and especially address linear, incremental, iterative, adaptive and extreme effective software project management from the perspectives of project scoping, planning, launching, monitoring, controlling and closing phases. Offered Fall, Spring

**CTC 316. Operating Systems and Networks Support. (3 Units)**

Course provides an introduction to OS and networking support. Topics include user engineering, risk management, mission assurance, software process management, enterprise management tools and processes, disaster recovery, business continuity and information life cycle management. Offered Fall, Spring

**CTC 328. Computer Forensics and Investigation. (4 Units)**

Course presents methods to properly conduct a computer forensics investigation, beginning with a discussion of ethics while mapping to the objectives of the International Association of Computer Investigative Specialists (IACIS) certification. Offered Fall, Spring

**CTC 362. Communication Systems Security. (3 Units)**

Course provides the foundation for understanding the key issues associated with protecting information assets, determining the levels of protection and response to security incidents, and designing a consistent, reasonable information security system, with appropriate intrusion detection and reporting features.

Offered Fall, Spring

**CTC 385. Introduction to Programming. (3 Units)**

Introduces computing practice first, and then the concept of programming using block-based and visual (drag-and-drop) programming language such as Scratch. Students will also be exposed to pseudocode and algorithm design.

Offered Fall, Spring, Summer

**CTC 386. Computational Thinking and Programming. (3 Units)**

Prerequisite: CTC 385 is required. Restricted to majors. Introduces computational thinking and problem-solving frameworks first, and then uses Python to teach programming concepts and problem-solving skills. Ethics in computing is also discussed.

Offered Fall, Spring, Summer

**CTC 387. Computer Networks, Communication Devices and Methods. (4 Units)**

Prerequisites: CTC 386 is required. Restricted to majors. Introduces computer system, network and communication devices first, and then introduces how to identify hardware and software failures, and use tools to perform diagnosis. Social and legal issues in computing, and pedagogy in computer science are also discussed.

Offered Fall, Spring, Summer

**CTC 389. Data Structures and Software Design. (3 Units)**

Prerequisite: CTC 387 is required. Restricted to majors. Introduces different data structures and algorithm design principles first, followed by different software design models. Advanced Python programming techniques are also discussed.

Offered Fall, Spring, Summer

**CTC 395. Special Topics. (1-3 Units)**

Advanced topics in computer technology not covered by current course offerings. May be used for elective credit in departmental programs. Subject to approval.

Offered As needed

**CTC 399. IT Practicum. (3 Units)**

The technology internship program allows students to gain hands on experience in a technology environment by spending one semester as an intern in the Information Technology Department at CSUDH. The Internship program provides students with the opportunity to gain technical experience related to their studies, and to prepare for future career opportunities. CR/NC grading

Offered Fall, Spring

**CTC 405. Advanced Game Development. (3 Units)**

Prerequisites: Prerequisites: CTC 305 or CSC 123 Students learn the advanced knowledge in game development including Skills, and the abilities necessary to create #D games on multiple platforms. The course includes lectures, discussions, demonstrations, and classroom labs.

Offered Spring

**CTC 428. Operating Systems Security. (3 Units)**

Prerequisites: CTC 316 is required. Course takes an in depth look at operating system security concepts and techniques. It examines theoretical concepts that make the world of security unique. Also, this course will adopt a practical hands-on approach when examining operating system security techniques.

Offered Fall, Spring

**CTC 435. Fundamentals of Information Technology. (2 Units)**

This course focuses on the introduction to Python programming language, handling data, database, operating systems, and network and security. Students are expected to gain significant theoretical knowledge of information technology, and know how to write Python programs.

Restricted to students in the major.

Offered Fall, Spring, Summer

**CTC 436. Fundamentals of Networking and Hardware. (2 Units)**

This course focuses on the introduction of computer hardware systems, computer network, and wireless networking. Students who enroll and complete this course are expected to gain significant theoretical knowledge and hands-on experience of computer hardware and networking. Restricted to students in the major.

Offered Fall, Spring, Summer

**CTC 437. Fundamentals of Information Security. (2 Units)**

Introduces students to security, network monitoring and access control, malicious activity detection, cryptography and security function. Students who enroll and complete the course are expected to gain significant theoretical knowledge and hands-on experience of information security. Restricted to students in the major.

Offered Fall, Spring, Summer

**CTC 452. Network Security and Hacking Prevention. (3 Units)**

Prerequisite: CTC 228 or consent of instructor is required. Course takes an in depth look at network defense concepts and techniques. It examines theoretical concepts that make the world of networking unique. This course also adopts a practical hands-on approach when examining network defense techniques and strategies.

Offered Fall, Spring

**CTC 454. Wireless Security & Forensics. (3 Units)**

Examines fundamental topics in wireless technology in wireless technology, such as planning, designing, installing, securing, using tools, and forensics. Students will also examine the maintenance, security, and business applications for wireless Local Area Networks.

Offered Spring

**CTC 456. Enterprise System Security. (3 Units)**

Prerequisite: CTC 228 is required. Students learn to identify and fix enterprise level network vulnerabilities through the use of existing defense tools. Students also learn the essential skills and techniques needed to develop enterprise level network security skills to protect enterprise's information.

Offered Spring

**CTC 458. Network Security Through Penetration Testing. (3 Units)**

Prerequisite: CTC 228 is required. Students learn how to determine the feasibility of a particular set of attack vectors and identify higher-risk vulnerabilities. Students learn through performing penetration tests against the setup environment using existing tools, techniques, and programming languages.

Offered Fall

**CTC 492. Senior Project. (3 Units)**

Intensive study under guidance of a member of the Computer Science Department to complete a project from start to end. Students will study system design and total project planning and management. A formal written report and oral presentation will be required.

Offered Fall, Spring

**CTC 495. Special Topics. (1-3 Units)**

Advanced topics in computer technology not covered by current course offerings. May be used for elective credit in departmental programs. Subject to approval.

Offered Fall, Spring

**CTC 496. Internship in Computer Technology. (3 Units)**

Offered As needed

**CTC 497. Directed Studies. (3 Units)**

Software Project Management (CTC 310)

Offered As needed

## Criminal Justice (CJA)

**CJA 339. Research Methods and Communication in Criminal Justice Administration. (3 Units)**

Presents an overview of the fundamentals of research design in criminal justice. Students will learn how to design, conduct, and communicate ethical scientific research. A focus will be placed on academic writing and oral communication as an iterative process. A grade of C or better in this course fulfills the GWAR requirement for all Criminal Justice majors and minors.

Offered Fall, Spring

**CJA 340. Crim Justice & Community. (3 Units)**

Political, cultural, and social environment of criminal justice administration; police community relations; accountability of criminal justice agencies to the political and legal order.

Offered Fall, Spring

**CJA 341. Statistics in Criminal Justice Administration. (3 Units)**

Prerequisites: MAT 105, MAT 131, MAT 132 or MAT 195 is required.

Explores statistical procedures used for the analysis of data by criminal justice professionals. Instruction on the most commonly used applications of statistical analysis in the administration of justice, including review of mathematics and statistical functions and the use of statistics by criminal justice decision makers. An introduction to computer applications will also be provided.

Offered Fall, Spring

**CJA 342. Legal and Ethical Foundations of Justice in Criminal Justice Administration. (3 Units)**

Local, state, and federal judicial systems; constitutional, judicial and legislative influences on the administration of justice.

Offered Fall, Spring

**CJA 344. Theories of Crime and Criminal Justice Policy. (3 Units)**

Examines theories of crime and criminal justice policy. Covers definitions of crime, its measurement, and patterns across time and place. This is used to evaluate historical and contemporary politics in criminal justice administration.

Offered Fall, Spring

**CJA 423. Administrative Law. (3 Units)**

Role and nature of administrative law, procedural requirements and judicial review of administrative actions, safeguards against arbitrary action, delegation of legislative power, legal principles and trends in the development of public administration.

Offered Fall, Spring

**CJA 443. Criminal Law & Justice Admin. (3 Units)**

Examination of the law of criminal culpability, parties to crime, defenses, and sentencing issues. Critical analysis of types of crime, elements of specific crimes, theories of criminal law, and issues pertaining to its application by the criminal justice system.

Offered Fall, Spring

**CJA 444. Juvenile Justice Process. (3 Units)**

Examination of the administration of juvenile justice, including juvenile justice policies and procedures, and components of the juvenile justice system. Critical analysis of the theory and dynamics of how the juvenile justice system responds to juvenile issues, including delinquent behavior.

Offered Fall, Spring

**CJA 445. Policing & Admin. of Justice. (3 Units)**

Examination of policing in the United States. Critical analysis of theories of policing, police administration, and police obligations and responsibilities under the law. Analysis of historical and contemporary approaches to police-community relations.

Offered Fall, Spring

**CJA 446. Terrorism & Extremism. (3 Units)**

Examination of contemporary terrorism and extremism. Critical analysis of terrorist behavior, typologies of terrorism, and extremism as a foundation for terrorist behavior. Analysis of the role of law enforcement and other public administrative agencies.

Offered Fall, Spring

**CJA 447. Corrections Administration and Policy. (3 Units)**

Explores the history, organization, administration and effects of institutional and community corrections in the United States and abroad. Critically examines the development and implementation of correctional administration through analysis of policy and practice at each level.

Offered Fall, Spring

**CJA 448. Forensic Science. (3 Units)**

Examines the scientific basis of forensic science techniques. Students will learn to think critically about forensic science, and the legal and ethical considerations that come with relying on forensic science evidence in the courtroom

Offered Fall, Spring

**CJA 449. Investigative Interviewing, Interrogation and Lie Detection. (3 Units)**

Scientific research is informing and transforming the practice of investigative interviewing, interrogation, and lie detection. This course reviews this research and the ethical considerations and legal decisions of this work as applied to the practice of criminal justice administration.

Offered Fall, Spring

**CJA 450. Eyewitness Evidence and the Law. (3 Units)**

Criminal Justice administrators are commonly tasked with collecting and assessing eyewitness evidence. Course focuses on the scientific research of eyewitness testimony and the legal decisions on eyewitness evidence as applied to the practice of criminal justice administration.

Offered Fall, Spring

**CJA 451. Intelligence and National Security. (3 Units)**

Explores the history, function, principles, policy guidelines and methods of collecting intelligence. Central to this course is the use of intelligence in the United States regarding homeland security, cybersecurity, terrorism, and organized crime investigations.

Offered Fall, Spring

**CJA 452. Homeland Security. (3 Units)**

Introduces students to the homeland security environment in the United States. Emphasis is placed on policies and systems designated to prevent, respond to, and mitigate incidents. Discussions critically assess how governments and homeland security agencies respond to domestic threats.

Offered Fall, Spring

**CJA 460. Gender, Race and the Administration of Justice. (3 Units)**

Examines the relationship between race/ethnicity, gender, crime, and the criminal justice system, including resulting disparities. We analyze traditional and critical theories of crime, system policies and practices, and the system as a place of work.

Offered Spring

**CJA 490. Capstone in Criminal Justice Administration. (3 Units)**

Prerequisites: CJA 339, CJA 340, CJA 342, and CJA 344 are required.

CJA 341, CJA 443, CJA 444 and CJA 447 are recommended. The capstone experience synthesizes the CJA student's experience at CSUDH. Integrates CJA coursework with a 120-hour semester-long internship in criminal justice administration. The course provides students with an opportunity to directly apply the knowledge gained in the CJA program to the criminal justice system. Department consent required.

Offered Fall, Spring

**CJA 495. Special Topics in Criminal Justice Administration. (1-3 Units)**

Prerequisite: Consent of instructor. An intensive study of an issue, concept or technique that is related to criminal justice administration. Repeatable course.

Offered Fall, Spring

**CJA 496. Internship in Criminal Justice. (1-3 Units)**

Under the direction of a faculty of the discipline, students work in a government or bureaucratic agency of the criminal justice system, applying the skills and knowledge learned in the classroom.

Offered Fall, Spring

**CJA 540. Adv. Criminal Justice Issues. (3 Units)**

This course will introduce students to advance issues relating to the administration of justice from the perspective of the American criminal justice system. Emphasis will be placed on policy concerns, crime and its causes, the structure of the criminal justice system, and criminal justice procedures. Special issues in criminal justice will also be reviewed.

Offered Infrequent

**CJA 563. Administrative Law, Policy and Analysis. (3 Units)**

This course shall define the scope and boundaries of administrative law within the context of public policy. It will introduce students to major constitutional issues underlying administrative law bodies at the federal, state, and local levels of government.

Offered Fall, Spring

**CJA 565. Issues in Police Administration and Ethics. (3 Units)**

Examination of policing in the US. Critical analysis of theories of policing, police administration, police obligations, ethics, and responsibilities under the law. Analysis of historical / contemporary approaches to ethical community relations.

Offered Fall, Spring

**CJA 566. Issues in Homeland Security and Terrorism. (3 Units)**

This course will introduce students to contemporary issues in homeland security and terrorism. Emphasis will be placed on foundations of homeland security, threats and vulnerabilities, preparedness / response / recovery, and evolving issues.

Offered Fall, Spring

**CJA 595. Special Topics in Criminal Justice Administration. (1-3 Units)**

Prerequisite: Graduate standing. Intensive study of a specialized area or contemporary issues in Criminal Justice Administration (e.g. Homeland Security, Emergency Management, CJA Debates). Three hours of seminar per week. Repeatable course.

Offered Fall, Spring

**CJA 596. Internship Practicum. (3 Units)**

Prerequisite: Consent of MPA program coordinator. Supervised internship working with a cooperating government agency in a function germane to public administration. Sessions are held to discuss and analyze the problems with which interns are concerned. A written project related to the internship is required. CR/NC grading.

Offered Fall, Spring

## Curriculum & Instruction (CUR)

**CUR 510. Process of Curriculum Development. (3 Units)**

Prerequisite: TED 505 or GED 501 is required. Designed to review contemporary developments in curriculum theory and practice through a framework centered in Critical Theory and Social Justice Education. Will include experience in the development of units of instruction and the evaluation of published curriculum materials.

Offered Fall, Spring

**CUR 513. Literature for Child & Adolesc. (3 Units)**

Principles of instructional and curricular theory as they apply to the teaching of literature in preschool and grades K-12. Analysis of literary devices and sequential development of ability to analyze and appreciate good literature. Emphasizes development of critical and analytic skills in diverse school environments.

Offered Infrequent

**CUR 514. Trauma and Healing Informed Pedagogy. (3 Units)**

Prerequisite: CUR 510 is recommended. Designed to review contemporary developments in the theory and practice of trauma and healing-informed pedagogies. Includes research, reflection, and innovative design of curriculum and/or school policies to address adverse childhood experiences in diverse school environments.

Offered Spring

**CUR 515. Seminar in Curriculum Development in Reading and the Language Arts. (3 Units)**

Review of current developments in curriculum theory and practice for Reading and the Language Arts. Includes development of instructional units and use of evaluation criteria for published materials. Three hours of seminar per week.

Offered Fall

**CUR 516. Sem Curr Dev Science Math. (3 Units)**

Review of current developments in curriculum theory and practices for science and math. Includes development of instructional units and use of evaluation criteria for published materials. Three hours of seminar per week.

Offered Fall

**CUR 517. Sem Curr Dev Hum Soc Sci. (3 Units)**

Review of current development in curriculum theory and practice for the humanities and social sciences. Includes development of instructional units and use of evaluation criteria for published materials. Three hours of seminar per week.

Offered Infrequent

**CUR 518. Research for the Teacher Scholar. (3 Units)**

Development of conceptual and practical understanding of designing and conducting research and evaluation for education research in a classroom and education settings. Topics include critical qualitative and quantitative research, action research, research design, and research proposal writing.

Offered Fall, Spring

**CUR 519. Adv Stud in Curric Practices. (3 Units)**

Prerequisite: CUR 510. Intensive study and evaluation of research in selected curriculum areas. Emphasizing designing and implementing innovative curricular and related instructional improvements. Requires student to demonstrate effective instructional leadership and problem solving skills in multiethnic school environments. May be repeated up to six units.

Offered Fall, Spring, Summer

**CUR 520. Seminar in Ethnic Studies in Education. (3 Units)**

Prerequisite: CUR 510 is recommended. Designed to review contemporary developments in the curriculum theory and instructional practices through an interdisciplinary lens at the nexus between the fields of Ethnic Studies and Education. Seminar will provide a comparative analysis of issues of pedagogy and curriculum and the development of tools to support educators praxis.

Offered Spring odd

**CUR 521. Seminar in Critical Race Praxis in Education. (3 Units)**

Prerequisite: CUR 510 is recommended. Designed to review contemporary developments in the curriculum theory and instructional practices through an analytical framework called Critical Race Theory in Education. Seminar will provide an overview of critical race theory as it developed in the field of education and will include research, reflection, and practical applications through curricular and pedagogical development.

Offered Fall even

**CUR 555. Intro to National Board Prep. (3 Units)**

This course specifically targets candidates applying for certification by the National Board for Professional Teaching Standards. These standards will be utilized throughout the course in establishing what accomplished teachers should know and be able to do. Students will develop clear and convincing evidence that Standards are being employed in their own practice.

Offered Infrequent

**CUR 556. Advan Prep for National Board. (3 Units)**

Prerequisite: CUR 555 with grade of A or B. This course specifically provides ongoing, advanced preparation for candidates applying for certification by the National Board for Professional Teaching Standards. Students complete portfolio entries based on rigorous standards published by the Board, including videos, action research and documentation of effective and reflective practice. Students should be preparing to take National Board exam during semester in which they take CUR 556.

Offered Infrequent

**CUR 595. Special Topics in Curriculum & Instruction. (1-3 Units)**

An examination of a specific topic and/or subject area of the critical study of education, curriculum, and instruction, language and learning.

Offered Fall, Spring

## Cyber Security (CYB)

**CYB 501. Foundation of Information Security. (3 Units)**

An overview of information security concepts; a basic introduction to information assurance principles and information security systems and specific issues pertaining to risk assessment and cyber threats; a brief examination of the laws governing information security including public policy and ethical standards.

Offered Fall, Spring

**CYB 505. Practical Cyber Security. (3 Units)**

Prerequisite: Restricted to majors. To understand and deal with real-world cyber threats, this course explores the latest development in the area of cyber security, and provides theory and hands-on practice in playing with cyber security software and network systems in a laboratory environment.

Offered Fall, Spring, Summer

**CYB 525. Cybersecurity System Analytics and Automation. (3 Units)**

Provides theory and hands-on practice in data analytics and threat intelligence in cybersecurity systems. Explores way to perform analytical tasks automatically, and solve cryptography, intrusion detection, automation, log creation, log management and other problems in cybersecurity.

Offered Fall, Spring, Summer

**CYB 528. Foundations of Cyber Forensics. (3 Units)**

Presents a high level introduction of Cyber Forensics including the different approaches in computer forensics investigation. Covers the ethics as it is mapped to the objectives of the Center of Academic Excellence in Cybersecurity.

Offered Spring

**CYB 529. Advanced Cyber Forensics. (3 Units)**

Prerequisite: CYB 528 is required. Provides advanced case examples in digital forensics. Provides understanding of everyday issues in real investigations such as technical, logistical, and legal challenges. Presents advanced methodologies and proven practices applied in digital investigations.

Offered Infrequent

**CYB 535. CyberOps and Cloud DevSecOps. (3 Units)**

Prerequisite: restricted to majors. Provides theory and hands-on practice on day-to-day, tactical knowledge and skills that Security Operations Center teams need to detect and respond to cybersecurity threats.

Main topics include security monitoring, host-based analysis, intrusion analysis, and security policies and procedures.

Offered Fall, Spring, Summer



**CYB 538. Information Security Policy and Procedure. (3 Units)**

Examines the legal concepts, principles and theories of public policy as they apply to information technology. A review of the American system with its federal and state levels will be studied to provide students with the necessary legal background in which the world of Information Technology functions. A special emphasis will be placed on compliance issues, Cyber laws, and regulations.

Offered Fall

**CYB 548. Advanced OS Security. (3 Units)**

A study of the challenges involved in the design and implementation of a secure operating system. Identify security threats and monitor operating system security implementations; learn how to configure operating systems to meet security standards using best practices.

Offered Summer

**CYB 551. Data Communications and Computer Networks. (3 Units)**

A comprehensive survey of the computer communication and field including data communication concepts and categories, communications switching and routine, network configuration and management. Topics also include layered network models and protocol.

Offered Spring

**CYB 552. Advanced Hacking Prevention. (3 Units)**

To evaluate advanced hacks and methods of defense fortification. Provides more advanced network defense concepts and techniques. Covers more detailed theoretical concepts in networking. State-of-the-art techniques and tools will be used to learn how to protect network.

Offered Fall

**CYB 555. Information Assurance and Network Security. (3 Units)**

Students will examine the concepts and topics in network security and information assurance. Through this course, students will conduct a CRT (Capture The Flag) exercise, and learn more about security threats, secure socket layer, SSH, Tunneling, PGP, encryption algorithm, vulnerabilities and other related topics.

Offered Spring

**CYB 562. Advanced Communication System Security. (3 Units)**

The course covers more advanced security life-cycle of products and services; it will go beyond requirements and policy development and progressing through the actual development, deployment and operations. This course will also provide advanced methods regarding the issues associated with protecting information assets.

Offered Infrequent

**CYB 572. Secure Cloud Computing. (3 Units)**

Students will learn four cloud service models: IaaS-Infrastructure as a Service, PaaS-Platform as a Service, SaaS-Software as a Service and BaaS-Business Process as a Service. This course will also cover topics related to big data, and challenges resulting from the implementation of high computing performances.

Offered Summer

**CYB 584. Software Project Planning and Management. (3 Units)**

Students will learn to build a software project and manage it professionally. Additionally, they will be expected to devise a plan with a schedule of finished products, a tracking system to monitor the building process of the project, and a risk management assessment.

Offered Fall

**CYB 590. Graduate Project. (3 Units)**

Capstone course. Students are required to submit and present a semester long project. Students will develop their own cyber security project, devise hypotheses related to their study, gather data to support their hypotheses, and present the results.

Offered Fall, Spring

**CYB 595. Special Topics in Cyber Security. (3 Units)**

Advanced topics in cyber security not covered by current course offerings. May be used for elective credit in departmental programs. Subject to approval. Consent required.

Offered Fall, Spring

**CYB 600. Graduate Continuation Course. (1 Units)**

Prerequisite: Signature of graduate program coordinator required. Graduate students, who have completed their course work but not their thesis, project, or comprehensive examination, or who have other requirements remaining for the completion for their degree, may attain continuous enrollment by enrolling in this course.

Offered Fall, Spring

## Dance (DAN)

**DAN 110. Dance of World Cultures. (1 Units)**

Introduction to a variety of ethnic and social dance forms; and appreciation of their historical and cultural origins. Repeatable for credit. Two hours of activity per week.

Offered Fall, Spring

**DAN 120. Tap Dance. (1 Units)**

Development of proficiency in performing elementary tap technique with emphasis on skills, steps, combinations and terminology. Appreciation of the origin and evolution of tap dance. Repeatable for credit. Two hours of activity per week.

Offered Fall

**DAN 125. Tap Dance II. (1 Units)**

Prerequisites: DAN 120 or permission from instructor. Develop proficiency in performing beginning intermediate tap technique with emphasis on skills, steps, combinations and terminology. Be able to speak and write appropriate vocabulary steps when necessary, and gain a further appreciation of the origin and evolution of tap dance and current tap trends.

Offered As needed

**DAN 130. Global Dance Perspectives. (3 Units)**

Global Dance Perspectives provides an understanding and appreciation of dances from all cultures of the world as an expression of people's imaginative and creative urges/ Diversity in dance is explored through a global perspective addressing social, cultural, and historical topics.

Offered Fall, Spring, Summer

**DAN 200. Jazz I. (2 Units)**

Development of proficiency in performing beginning jazz dance technique. Emphasis on theory, terminology, steps and combinations in a variety of jazz styles. Appreciation of origin and evolution of jazz.

Repeatable for credit. Four hours of activity per week.

Offered Fall

**DAN 205. Jazz II. (2 Units)**

Prerequisite: DAN 200 or consent of instructor. Continuing development of proficiency in performing beginning jazz dance technique. Emphasis on theory, terminology, steps and combinations in a variety of jazz styles. Appreciation of origin and evolution of jazz. Repeatable for credit. Four hours of activity per week.

Offered Fall

**DAN 210. Ballet I. (2 Units)**

Development of proficiency in performing elementary ballet technique. Emphasis on basic theory, positions, steps, combinations and French terminology. Appreciation of ballet as an art form. Repeatable for credit. Four hours of activity per week. Offered Fall, Spring

**DAN 215. Ballet II. (2 Units)**

Prerequisite: DAN 210 or consent of instructor. Continuing development of proficiency in performing elementary ballet technique. Emphasis on basic theory, positions, steps, combinations and French terminology. Appreciation of ballet as an art form. Repeatable for credit. Four hours of activity per week. Offered Fall, Spring

**DAN 220. Modern Dance I. (2 Units)**

Development of proficiency in performing beginning modern dance technique. Emphasis on basic technical development, movement theories, movement phrasing and terminology. Appreciation of basic movement discoveries of early pioneers in modern dance, and of modern dance as an art form. Repeatable for credit. Four hours of activity per week. Offered Fall

**DAN 225. Modern Dance II. (2 Units)**

Prerequisite: DAN 220 or consent of instructor. Continuing development of proficiency in performing beginning modern dance technique. Emphasis on basic technical development, movement theories, movement phrasing and terminology. Appreciation of basic movement discoveries of early pioneers in modern dance, and of modern dance as an art form. Repeatable for credit. Four hours of activity per week. Offered Fall

**DAN 230. Dance Touring Ensemble. (1 Units)**

Co-requisite: Enrollment in a Dance Technique class. Dance Touring Ensemble members will discover and cultivate their own talents as performers and educators. Multiple performances will be held during the semester. Auditions and an Interview will be required. Offered All terms

**DAN 300. Jazz III. (2 Units)**

Prerequisite: DAN 205 or consent of instructor. Development of proficiency in performing intermediate jazz dance technique. Emphasis on theory, terminology, steps and combinations in a variety of jazz styles. Appreciation of the origin and evolution of jazz. Repeatable for credit. Four hours of activity per week. Offered Spring

**DAN 305. Jazz IV. (2 Units)**

Prerequisite: DAN 300 or consent of instructor. Continuing development of proficiency in performing intermediate jazz dance technique. Emphasis on theory, terminology, steps and combinations in a variety of jazz styles. Appreciation of the origin and evolution of jazz. Repeatable for credit. Four hours of activity per week. Offered Spring

**DAN 310. Ballet III. (2 Units)**

Prerequisite: DAN 215 or consent of instructor. Development of proficiency in performing intermediate ballet technique. Emphasis on theory, positions, steps, combinations and French terminology. Appreciation of ballet as an art form. Repeatable for credit. Four hours of activity per week. Offered Fall, Spring

**DAN 315. Ballet IV. (2 Units)**

Prerequisite: DAN 310 or consent of instructor. Continuing development of proficiency in performing intermediate ballet technique. Emphasis on theory, positions, steps, combinations and French terminology. Appreciation of ballet as an art form. Repeatable for credit. Four hours of activity per week. Offered Fall, Spring

**DAN 320. Modern Dance III. (2 Units)**

Prerequisite: DAN 225 or consent of instructor. Development of proficiency in performing intermediate modern dance technique. Emphasis on intermediate technical development, movement theories, movement phrasing and terminology. Appreciation of intermediate movement discoveries of early pioneers in modern dance, and of modern dance as an art form. Repeatable for credit. Four hours of activity per week. Offered Spring

**DAN 325. Modern Dance IV. (2 Units)**

Prerequisites: Upper division class standing; KIN 448 is recommended. Planned internship in alternative dance careers at a cooperating institution, agency, organization or company under professional supervision. Application of principles and skills acquired in student's chosen professional preparation program. Offered Spring

**DAN 330. Dance Composition I. (2 Units)**

Use of improvisation in choreography as an introduction to structural form; individual and group problems. Offered Fall

**DAN 335. Dance Composition II. (3 Units)**

Prerequisites: DAN 330 Co-requisite: Concurrent enrollment in a dance technique class. Theory and practice in the immediate elements of dance composition. Offered Spring

**DAN 340. Dance Production. (1 Units)**

Prerequisites: DAN 330 and DAN 335 or consent of instructor. Designed to teach students how to coordinate and produce a dance concert. Emphasis on technical aspects of dance production such as lighting design, costume design and construction, recording sound, applying dance makeup, staging dances, and concert publicity and promotion. Repeatable for credit. Three hours of activity per week. Offered Spring

**DAN 345. Rhythmic Analysis. (3 Units)**

Prerequisites: DAN 330. Basic music exploration of simple and complex rhythmic patterns, time, styles, and a brief survey of the historical periods and styles of music used in western and non-western cultures. Offered Fall even

**DAN 355. Forces and Figures in Dance. (3 Units)**

Prerequisite: DAN 130 required. Survey of the historical development of dance from the 18th century to the 21st centuries. Offered Spring even

**DAN 375. Dance Kinesiology & wellness. (1 Units)**

Investigation of the kinesiology and physiology of the human body as it relates to dance. Students will develop a basic understanding of human anatomy, the biomechanics of human movement, and wellness concerns as they relate to dance. Offered Spring

**DAN 385. Somatics and Conditioning. (3 Units)**

The discipline of somatic studies emphasizing the unity of mind and body, and an integrated experience from within, through conscious guided movement and opportunities for increased self-awareness.

Offered As needed

**DAN 395. Dance Pedagogy. (3 Units)**

Prerequisites: DAN 205, DAN 315, DAN 325, DAN 335 or permission of instructor, Dance Pedagogy explores the art and instructional methods of teaching dance technique and choreography.

Offered As needed

**DAN 410. Ballet V. (2 Units)**

Prerequisite: DAN 315 or consent of instructor. Development of proficiency in performing intermediate-advanced ballet technique. Emphasis on intermediate-advanced theory, positions, combinations and French terminology. Appreciation of ballet as an art form. Repeatable for credit. Four hours of activity per week.

Offered Spring

**DAN 415. Ballet VI. (2 Units)**

Prerequisite: DAN 410 or consent of instructor. Continuing development of proficiency in performing intermediate- advanced ballet technique. Emphasis on intermediate-advanced theory, positions, combinations and French terminology. Appreciation of ballet as an art form. Repeatable for credit. Four hours of activity per week.

Offered Spring

**DAN 420. Modern Dance V. (2 Units)**

Prerequisite: DAN 325 or consent of instructor. Development of proficiency in performing intermediate-advanced modern dance technique. Emphasis on intermediate-advanced technical development, movement theories, movement phrasing and terminology. Appreciation of movement discoveries of contemporary modern dancers, and of modern dance as an art form. Repeatable for credit. Four hours of activity per week.

Offered Spring

**DAN 425. Modern Dance VI. (2 Units)**

Prerequisite: DAN 420 or consent of instructor. Continuing development of proficiency in performing intermediate-advanced modern dance technique. Emphasis on intermediate-advanced technical development, movement theories, movement phrasing and terminology. Appreciation of movement discoveries of contemporary modern dancers, and of modern dance as an art form. Repeatable for credit. Four hours of activity per week.

Offered Spring

**DAN 430. Dance Composition III. (3 Units)**

Prerequisites: DAN 330, and DAN 335 required. Co-requisites: Concurrent enrollment in a dance technique class. Development of theme and style in a dance technique class.

Offered Fall

**DAN 440. Dance for Children. (3 Units)**

Study of developmentally appropriate creative movement experiences for children. Examination of teaching methodology designed to develop foundational movement skills, artistic exploration of movement elements, improvisational techniques, imagination and creativity, and how these learning activities can be taught across the curriculum.

Offered Fall, Spring, Summer

**DAN 450. Musical Theatre Studies. (3 Units)**

Prerequisites: DAN 203, DAN 315, DAN 325, DAN 335 or permission of instructor, Musical Theatre Studies is an exploration of American Musical Theatre, Students will study the work of the actor/singer/dancer and develop as performers.

Offered As needed

**DAN 480. Dance Rehearsal & Performance. (2 Units)**

Prerequisites: DAN 200, DAN 205, DAN 210, DAN 215, DAN 220, DAN 225 are recommended. Participation as a performer and/or choreographer in a Dance Program approved, University sponsored production. Concert participation is by audition only. Repeatable for credit. Four hours of activity per week.

Offered Fall, Spring

**DAN 494. Independent Study. (1-3 Units)**

Advanced study in dance, with each student participating in a special project mutually agreed upon by student and instructor.

Offered Fall, Spring

**DAN 495. Special Topics:. (1-3 Units)**

Intensive study of a dance topic of current interest. May be repeated for credit to a maximum of 6.0 units.

Offered Infrequent

**DAN 496. Internship in Dance. (1-3 Units)**

Prerequisite: Consent of instructor. Collaborative production activity on various projects in the digital media arts curriculum. Repeatable for credit for up to three units. Two hours of activity per week.

Offered Infrequent

**DAN 499. Senior Dance Thesis. (2 Units)**

Prerequisites: Dan 430 or permission of instructor. Co-requisite: DAN 340 A capstone course culminating in the production of a final, collaborative project. Selected in consultation with and evaluated by a faculty panel. Restricted to seniors.

Offered Spring

## Design (DGN)

**DGN 110. Intro to Design Applications. (3 Units)**

Introduction to digital imaging using Adobe Photoshop and to vector based art using Adobe Illustrator. Six hours of activity in-class and online per week.

Offered Fall, Spring

**DGN 310. Graphic Design 1. (3 Units)**

Prerequisite: DGN 110. Introduction to graphic design as a form of visual communication through the use of type, image and form. Projects explore design processes, creative problem solving, and the basic design practices of critiques and discussion. Six hours of activity per week. Fee required.

Offered Fall

**DGN 320. Typography 1. (3 Units)**

Prerequisites: ART 160 and ART 170. Introduction to basic aspects of letterforms and typography through a variety of projects. Introduction to the historical background, technical considerations, and aesthetic issues of typography. Six hours of activity per week.

Offered Fall

**DGN 330. Motion Design 1. (3 Units)**

Prerequisite: DGN or DMA 310 or consent of instructor. Introduction to the principles and or elements of motion design. Emphasis on the relationship between typographic principles and fundamentals of animation. Software: Introduction to Adobe After Effects. Six hours of activity per week. Fee required.

Offered Fall

**DGN 340. Web Design 1. (3 Units)**

Prerequisites: DGN 310 or consent of instructor. Introduction and exploration of the concepts and technologies in web design. Individual and team projects address navigational structures, systems, identity, audience and intent in the design of website prototypes. Six hours of activity per week.

Offered Fall

**DGN 345. Illustration 1. (3 Units)**

Prerequisites: ART 179 is required; DGN 110 is recommended. Introduction to illustration, with an emphasis on craftsmanship, as well as learning and employing the illustration process. Explores many aspects of the illustration field, giving students a broad view of the discipline. The skills studied will provide a foundation for work in both illustration and animation. Students will explore personal artistic voice, techniques, design, and visual narrative.

Offered Fall

**DGN 410. Graphic Design 2. (3 Units)**

Prerequisite: DGN 310 is required. Advanced study of graphic design principles and their application to more complex and comprehensive solutions. Course examines the integration of design with civic engagement, through the completion of an awareness campaign addressing social issues. Students work collaboratively on semester long campaign. Six hours of activity per week. Fee required.

Offered Spring

**DGN 420. Typography 2. (3 Units)**

Prerequisite: ART 347 is required. Advanced analysis and study of typographic design through projects based on the setting of words, sentences and paragraphs. Projects will gradually increase in scope and complexity dealing with multiple levels of hierarchical meaning. Six hours of activity per week. Fee required.

Offered Spring

**DGN 430. Motion Design 2. (3 Units)**

Prerequisite: DGN 330. Advanced concepts of motion design as they relate to the use of Adobe After Effects and Cinema 4D. Students will work independently on individual projects from concept to final output. Repeatable course. Six hours of activity per week. Fee required.

Offered Spring

**DGN 440. Web Design II. (3 Units)**

Prerequisites: DGN 340 is required. Intermediate to advanced course in web design, offering in-depth investigation of the planning, design and building of web sites. This course is structured around projects that combine creative exploration and comprehensively learning industry-standard software programs. Six hours of activity per week.

Offered Spring

**DGN 445. Illustration 2. (3 Units)**

Prerequisite: DGN 345 is required. DGN 110 is recommended. Intermediate elective in illustration focuses on craftsmanship. Reinforces the illustration process learned in level 1. Students will explore multiple areas within illustration, creating several advanced projects, with an emphasis on narrative in illustration as it relates to editorial, publishing, and visual development for animation. Students will build their portfolios and refine their personal artistic voice. Repeatable for credit.

Offered Spring, Summer

**DGN 450. Interactive Design. (3 Units)**

Prerequisite: DGN 440 is required. This class will show how to build apps and user base responsive design (UX). Students will gain an understanding of the javascript programming language and explore the most current technologies available. Six hours of activity per week. Fee required.

Offered Spring

**DGN 460. Portfolio 1 and Internship. (3 Units)**

Prerequisite: Senior standing and consent of instructor required. Students will identify and research their career objectives, design their visual identity, start working on their professional portfolio and find and confirm an internship of a minimum of 70 hours to be completed by the end of Portfolio part II. Six hours of activity per week. Fee required.

Offered Fall

**DGN 470. Portfolio 2 and Internship. (3 Units)**

Prerequisites: Senior standing and consent of instructor. Capstone course involving preparation of essential material for seeking a position in graphic design. Emphasizes the preparation of a graphic design portfolio and resume. Six hours of activity per week. Fee required.

Offered Spring

**DGN 494. Independent Study. (1-3 Units)**

Individual students will consult with a Design faculty to conduct an independent project in Design. Restricted to juniors and seniors. Department consent required.

Offered As needed

**DGN 495. Selected/Variable Topics in Design. (3 Units)**

Detailed study Design. Repeatable course.

Offered As needed

**DGN 496. Internship. (1-3 Units)**

Internship in a Design related field, both on campus and externally. Restricted to juniors and seniors. Department consent required.

Offered As needed

## Digital Media Arts (DMA)

**DMA 195. Special Topics in Music. (1-3 Units)**

Offered As needed

**DMA 300. Digital Technology, Culture and the Arts. (3 Units)**

Prerequisite: HUM 200 or consent of instructor. Survey of the impact of digital technology on culture and the arts including but not limited to the visual arts, music, dance, video, film, literature, and theatre.

Offered Fall

**DMA 310. Tools and Techniques in Digital Media Production. (3 Units)**

Prerequisite: Must have junior standing or consent of instructor. Introduction and examination of the fundamental software and hardware tools used in the production of media for digital delivery. Emphasis on creative production techniques and the development of skills required in the digital media industry. Restricted to majors. Offered Fall, Spring

**DMA 320. TV Directing I. (3 Units)**

Co-requisites: Concurrent enrollment in DMA 323 and DMA 328. Fundamental techniques in producing and directing multi-camera television productions in the studio, and single-camera, film-style programs on location. Emphasis on producer/director skills for performance-based productions in the studio and on location. Six hours of activity per week. Restricted to majors. Offered Fall

**DMA 322. TV Directing II. (3 Units)**

Prerequisites: DMA 310, DMA 320, DMA 323, and DMA 328 are required. Advanced techniques in producing and directing multi-camera television productions and single-camera, film-style programs in the studio and on location. Emphasis on producer/director skills for drama-based productions. Six hours of activity per week. Restricted to majors. Offered Spring

**DMA 323. TV Crew Production. (3 Units)**

Co-requisite: Concurrent enrollment in DMA 328 and either DMA 320 or DMA 322. Participation in a variety of crew assignments on production projects in the studio and on location. Repeatable for credit. Six hours of activity per week. Offered Fall, Spring

**DMA 324. TV Titling and Animation. (3 Units)**

Prerequisite: DMA 310 is required. Introduction to computer-generated titles and basic, two-dimensional animation for television production. Students will explore the aesthetics of graphic design elements for the screen and related software programs. Six hours of activity per week. Restricted to majors. Offered Spring

**DMA 325. EFP Videography. (3 Units)**

Prerequisites: DMA 310, DMA 320, DMA 323, and DMA 328 are required. Restricted to majors. Application of professional-format videotape recording techniques used in location shooting. Emphasis on using portable lighting systems, reflectors, and location sound recording techniques. Experience in technical aspects of equipment setup, system trouble shooting, and preventative maintenance. Six hours of activity per week. Offered Spring

**DMA 326. TV Sound Design. (3 Units)**

Prerequisites: DMA 310, DMA 320, DMA 323, and DMA 328 are required. Use of synthesizers, samplers, and MIDI for music scoring, sound effects drop-ins, ADR, and foley in television and stage productions. Six hours of activity per week. Restricted to majors. Offered Spring

**DMA 327. Independent TV Production. (3 Units)**

Prerequisite: DMA 322 and DMA 323. Aspects of producing television features on an independent-producer basis. Practice in pre-production coordination, location shooting, directing, and editing techniques in the production of a broadcast-quality feature segment for public airing on the University cable TV channel. Repeatable for credit. Six hours of activity per week. Offered Spring

**DMA 328. DSLR Video Production. (3 Units)**

Co-requisites: DMA 320 and DMA 323 are required. Introduction to the theory and practice of using DSLR photo cameras for video production. Students will learn fundamental techniques for lighting, proper exposure, camera movement, audio recording, and video editing. Offered Fall

**DMA 330. Audio Recording. (3 Units)**

Prerequisite: Junior standing or consent of instructor. Theory and practice of sound recording. Acoustics, psychoacoustics, microphones and microphone techniques, consoles, mixers, signal processing and multi-track recording techniques. Offered Fall

**DMA 331. Audio Recording Lab. (1 Units)**

Prerequisite: Previous or concurrent enrollment in DMA 330. Hands-on experience in studio recording using Pro Tools HD. Live mix to stereo techniques and fundamentals of studio flow path. Three hours of laboratory per week. Offered Fall

**DMA 335. Music Synthesis. (3 Units)**

Prerequisite: Junior standing or consent of instructor. Production techniques, equipment, theory, and history of electro-acoustic music with an emphasis on MIDI. Psychoacoustics and a conceptual approach to electronic music production using a variety of MIDI-based software. Offered Fall

**DMA 336. Music Synthesis Lab. (1 Units)**

Prerequisite: Previous or concurrent enrollment in DMA 335. Hands-on experience in production using hardware and software synthesizers and MIDI in conjunction with Pro Tools, Digital Performer, Reason, and various sequencers for a variety of musical styles. Three hours of laboratory per week. Offered Fall

**DMA 346. Digital Media Prod Workshop. (1 Units)**

Prerequisite: Consent of instructor. Investigation of a single topic, chosen in consultation with a faculty member, culminating in a paper, presentation, or creative project. Repeatable for credit for up to six units. Offered Fall, Spring, Summer

**DMA 400. Strategies for Digital Media Delivery. (3 Units)**

Prerequisite: DMA 310. Advanced exploration into the methods and mechanics of informational and entertainment design and delivery. Evaluation of media production strategies including linear and non-linear scripting, conditional branching, and virtual reality via online, optical disc, and hybrid formats. Offered Fall, Spring

**DMA 410. Media Arts Projects. (3 Units)**

Prerequisites; DMA 320 required. Experience in producing client-based projects for a variety of campus, corporate, or community organizations. Students participate in a variety of activities ranging from video coverage and live sound reinforcement of campus events to writing, filming, recording and editing client-based projects. Offered Spring

**DMA 430. Advanced Audio Recording. (3 Units)**

Prerequisite: DMA 330 and consent of instructor. A continuation of DMA 330 incorporating digital audio workstations and associated peripheral equipment, signal processing and mastering for optical disc and web delivery, console automation, 5.1 surround mixing techniques, and DVD audio. Offered Spring

**DMA 431. Advanced Audio Recording Lab. (1 Units)**

Prerequisite: Previous or concurrent enrollment in DMA 430 and consent of instructor. Practical multi-track session work featuring increased access to studio facilities for individual and group recording projects using Pro Tools HD in conjunction with analog console and Digidesign Command 8 control surface. Three hours of laboratory per week. Offered Spring

**DMA 432. Recording Studio Maintenance. (2 Units)**

Prerequisites: PHY 331 and concurrent enrollment in DMA 433 is recommended. Installation, maintenance, trouble shooting, and repair of professional audio equipment in a studio environment. Repeatable course. Offered Fall, Spring

**DMA 433. Recording Studio Maintenance Lab. (1 Units)**

Prerequisites: PHY 331 and previous or concurrent enrollment in DMA 432. Installation, maintenance, trouble shooting, and repair of professional audio equipment in a studio environment. Repeatable course. Three hours of laboratory per week. Offered Fall, Spring

**DMA 435. Advanced Music Synthesis. (3 Units)**

Prerequisite: DMA 335 and consent of instructor. A continuation of DMA 335. Synthesizer and sampler sound design using a variety of synthesis strategies and concepts. Direct software and hardware sound synthesis theory using software synthesizers such as Tassman and Reason, modular synthesizers and MIDI. Offered Spring

**DMA 436. Advanced Music Synthesis Lab. (1 Units)**

Prerequisite: Previous or concurrent enrollment in DMA 435 and consent of instructor. Experience in programming a variety of digital synthesizers including Tassman, Reason, FN-7, and Motu software synthesizers. Three hours of laboratory per week. Offered Spring

**DMA 438. Music Production. (3 Units)**

Prerequisite: DMA 330, DMA 331 and DMA 431 are required. Analysis of recordings in music production. Spatial and timbral ear-training techniques for recording engineers and producers. Access to Pro Tools HD 5.1 surround system and a variety of engineering and production topics which include surround mixing techniques, advanced microphone techniques, DVD Audio specifications, and DVD authoring. Restricted to majors. Offered Fall, Summer

**DMA 439. Music Production Lab. (1 Units)**

Prerequisites: DMA 330, DMA 331, DMA 430 and DMA 431 are required. Practice in the production of studio recordings. Responsibility for music composition and arrangements, rehearsal, performance, studio and musician bookings, artist promotion, engineering assistance and artistic direction and management. Interdisciplinary projects involving video or theatre are also possible. Repeatable course. Three hours of laboratory per week. Restricted to majors. Offered Fall, Summer

**DMA 447. Audio Projects Lab. (1 Units)**

Prerequisite: DMA 331 and DMA 431. Advanced studio session work culminating in passing the Audio Recording Proficiency Exam. Offered Infrequent

**DMA 450. Computer Music. (3 Units)**

Prerequisite: DMA 435 and consent of instructor. Advanced studies in computer applications in music. Course concentrates on CSOUND and new technologies. Topics will vary with new innovations in the field. Students will have access to Pro Tools LE workstations for individual projects. A-C/NC grading. Offered Summer

**DMA 452. Audio Production. (3 Units)**

Prerequisite: DMA 430 and DMA 431 are required. Advanced skills in integrating audio production components of voice over, music, and sound effects with graphics, motion graphics and video on multi-media projects that include proposal, interactive design, audio recording, music mixing, mastering, and encoding and authoring to optical disc. Offered Fall

**DMA 456. Mixing and Mastering. (3 Units)**

Prerequisites: DMA 438 and DMA 439 are required. Theory and practice in various styles of mixing and mastering popular music. Application of panning, equalization, dynamics processing, spatial effects, modulation effects, automation, song sequencing and methods for final delivery. Hardware-based instruction. ITB digital methods and hybrid workflows. Offered Spring

**DMA 460. Digital Audio Workstation Concepts. (3 Units)**

Prerequisites: DMA 435 and DMA 436 are required. Theory and practice of operating a Digital Audio Workstation using a variety of software programs. Experience in recording session set-ups, grouping, touting techniques, MIDI composition and editing, song structuring, an editing and mixing scenarios for outputting stereo stem mixes. Offered Fall

**DMA 490. Senior Seminar. (3 Units)**

Prerequisite: DMA 331 and DMA 431. Research projects, chosen in consultation with the instructor, culminating in a paper, presentation, or creative project. Offered Infrequent

**DMA 494. Independent Study. (1-3 Units)**

Traditional and modern approaches to the study of language. Fundamentals of phonology and grammar. Offered Fall, Spring

**DMA 495. Special Topics in DMA. (3 Units)**

Study of a single topic or contemporary issue in the entertainment industry of television, film, music, or digital media to be determined by the instructor. Repeatable for credit. Repeatable 3 times for a maximum of 9 units. Offered Infrequent

**DMA 496. Internship in the Media. (1-3 Units)**

Directed work experience in the television, film, music, or digital media industry under the supervision of a professionally-qualified mentor. CR/NC grading only. Repeatable for credit. Ten hours of work experience per week. Offered Fall, Spring, Summer

**DMA 499. Senior Proj Digital Media. (2 Units)**

Prerequisite: Senior standing or consent of instructor. A capstone course culminating in the production of a final, collaborative project in conjunction with students from other program options in Digital Media Arts. Selected in consultation with and evaluated by a faculty panel. Offered Fall, Spring

## Dual Language Learning (DLL)

### **DLL 520. Foundations of Critical (Bi) Literacy in Dual Language & Immersion Education. (3 Units)**

Explores critical approaches to (bi)literacy instruction in dual language classrooms with attention to literacy learning experiences of LatinX students in U.S. PreK-12 schools. Students will develop a research study to disentangle the sociocultural aspects of literacy learning. Course taught in Spanish.

Offered Fall

### **DLL 521. Contrastive Linguistics and Assessment for Dual Language Educators. (3 Units)**

Focuses on the contrastive analysis of the structures of the Spanish and English languages through the disciplines of Phonology, Morphology, Semantics and Syntax to address issues related to (1) dialectal variation in Spanish and English and (2) linguistic and educational assessments of levels of language acquisition of Spanish and English.

Offered Fall

### **DLL 523. Academic Discourse and Socio-Emotional Learning. (3 Units)**

Course is designed to prepare teachers to think deeply and critically as to how content is taught using academic/professional Spanish as instructors in dual language programs in elementary and secondary schools. The course will also examine issues and interventions related to the social-emotional growth and development of children and youth and encourage reflection on school and community practices. Course taught in Spanish.

Offered Spring

### **DLL 524. Emergent Learning for Young Dual Language Learners. (3 Units)**

To foster leadership skills in elementary bilingual teachers in dual language instruction, research-based practices in dual immersion programs, curriculum design, culturally responsive instructional practice and assessment appropriate for young children. Course taught in Spanish.

Offered Spring

### **DLL 525. Practices and Strategies for Bi-Literacy Development in Bilingual/Dual Settings. (3 Units)**

Course is designed to prepare teachers to be leaders in the field of curriculum design and professional development in dual language instruction in elementary and secondary schools. The focus of the course is on the best practices that develop bi-literacy. Participants will plan and develop curricula both in Spanish and/or sheltered English based on the principles of dual language. Course taught in Spanish.

Offered Spring

## Early Start English (ESE)

### **ESE 1. Early Start English. (1 Units)**

Provides students with an opportunity to: practice critical reading and writing necessary for success in college-level classes; engage in discussions in an academic discourse; strengthen grammatical and mechanical skills; and learn appropriate resources and standards important to success in English classes.

Offered Summer

### **ESE 88. Early Start Developmental Reading. (3 Units)**

Intensive work in basic reading and writing skills with emphasis on college-level reading and writing. CSU English Placement Test scores of T-141 or below are required to complete this course prior to enrolling in ENG 110. May be taken concurrently with ESE 099. Graded CR/NC.

Offered Summer

### **ESE 95. Special Topics in Writing. (1 Units)**

Co-Requisite: ESE 195 is required. Workshop model classes provide additional instruction and practice in course content and objectives.

Offered Summer

### **ESE 99. Early Start Basic Writing Workshop. (3 Units)**

English Placement Test T-scores of T-141 or lower. Focus on clear, correct sentences, with an introduction to paragraphing in the context of the essay. Essays concentrate on narrative and personal experience leading to critical exposition. May be taken concurrently with ESE 088. Graded CR/NC.

Offered Summer

### **ESE 195. Special Topics in Writing. (2 Units)**

Co-requisite: ESE 095 is required. CSU Placement Category III and IV. Intensive six-week course introduces students to college writing terms, concepts, and practices.

Offered Summer

## Early Start Mathematics (ESM)

### **ESM 3. Early Start Beginning Algebra. (3 Units)**

Integers, rational and real numbers, basic algebraic expressions, ratio, percent, solutions and graphs of linear equations, inequalities, polynomials, applications. Does not count for Bachelor's degree. CR/NC grading.

Offered Summer

### **ESM 11. Early Start Algebra Review Part 1. (1 Units)**

Units of measurement, arithmetic with signed numbers and fractions, word problems, linear equations, applications. Does not count for Bachelor's degree. CR/NC grading.

Offered Summer

### **ESM 95. Selected Topics. (3 Units)**

A course in a topic of special interest to both faculty and students for which no current course exists. Topic will be announced in schedule of classes. Repeatable for credit. CR/NC grading

Offered As needed

## Earth Sciences (EAR)

### **EAR 100. Physical Geology. (3 Units)**

Prerequisite: Concurrent enrollment in EAR 101 is recommended. Volcanoes, earthquakes, oceanic processes and continental drift. Rock and mineral identification is enhanced by concurrent enrollment in EAR 101. Meets certain general studies requirements, is fundamental to the Geology major, and has wide-ranging applications in art, commerce, public policy, and science. Field Trip.

Offered Fall, Spring

**EAR 101. Physical Geology Laboratory. (1 Units)**

Prerequisite: Concurrent enrollment in EAR 100 is recommended. Nature and origin of rocks and minerals through determination of physical properties of specimens. Topographic and geologic map analysis. Geological features from stereoscopic air photos. Recommended elective for students interested in the outdoors, archaeology, mineral deposits, land use, and natural hazards.  
Offered Fall, Spring

**EAR 200. Earth History and Evolution. (3 Units)**

Prerequisite: EAR 100, EAR 101, and concurrent enrollment in EAR 201. This course covers the evolution of the Earth's dynamic systems and their record through geologic time. Emphasizes interactions between the physical, chemical, and biological components of the Earth system. Includes development of the geologic time scale, origin of the planet, early life, biological evolution, the fossil record, mass extinctions, and climate change.  
Offered Spring even

**EAR 201. Earth History Lab. (1 Units)**

Prerequisite: Concurrent enrollment in EAR 200. Laboratory analysis of depositional processes and ancient environments. Topics include radiometric dating, geologic maps, facies analysis, fossil records, and stratigraphic correlations. Three hours of laboratory per week  
Offered Spring even

**EAR 312. Natural Disasters. (3 Units)**

Prerequisite: Completion of lower division General Education. Examines the impact of natural events on human activities and vice versa. Mankind's uneasy relationship with atmosphere, oceans and not-so-solid Earth. Examines the study of earthquakes, volcanoes, floods, landslides, tsunamis, climate change, hurricanes, tornadoes, and wildfires.  
Offered Fall, Spring, Summer

**EAR 370. The World Ocean. (3 Units)**

Prerequisite: EAR 100 or GEO 200 is recommended. This course introduces global oceanographic phenomena and emphasizes the interdisciplinary nature of ocean processes, including the ocean's role in regulating Earth's climate. Topics include the physical and chemical characteristics of seawater, and the vertical and spatial distributions of temperature, salinity, gases, and density; surface and deep-water circulations  
Offered Spring odd

**EAR 376. Field Mapping. (3 Units)**

Prerequisites: EAR 100 and EAR 101 are required, or consent of instructor. Introduction to geological and environmental field mapping. Techniques include working with topographic maps and remotely-sensed images, use of Brunton compass traverse methods, and interpretation of sedimentary rocks and geological structures (faults, folds). Applications to geotechnical work, resource management, environmental and archaeological surveys, and outdoor education activities. Eight hours of laboratory and one-half hour of lecture per week.  
Offered Spring even

**EAR 410. Environmental Geology. (3 Units)**

Study of human interaction with the geologic environment. Mitigating exposure to geological hazards (earthquakes, volcanic eruptions, landslides); environmental consequences of geological resource (fossil fuels, minerals, water) extraction and consumption; surface and groundwater contamination; acid rain; climate change; waste burial.  
Offered Spring odd

**EAR 416. Earth Science for Teachers. (3 Units)**

Prerequisites: Completion of lower division General Education. Study of planet Earth featuring units in geology, oceanography, weather, and astronomy, as appropriate for elementary and secondary school teachers. Two hours of lecture and three hours of laboratory per week  
Offered Fall, Spring, Summer

**EAR 450. Plate Tectonics and the Rock Cycle. (4 Units)**

Prerequisites: EAR 100 and EAR 101 are required. Study of plate tectonic processes and how they relate to the formation of rocks and the rock cycle. Includes earthquakes, volcanic activity, hot spots and plate boundary types.  
Offered Fall even

**EAR 460. Global Change. (3 Units)**

An interdisciplinary introduction to the science of understanding global change natural as well as anthropogenically induced. Key topics include the physical climate system and its variability, the carbon cycle, land and water issues, and the impact of global change on society.  
Offered Fall even

**EAR 476. Groundwater. (3 Units)**

Prerequisites: EAR 100 and EAR 101 are required. CHE 108 or CHE 110 is recommended. Study of the movement of underground water through geological layers. Topics include the geological characteristics of aquifers, wells, and connectivity with surface water resources. Includes groundwater chemistry and contaminant transport, plus considerations for the management of groundwater resources.  
Offered Fall even

**EAR 478. Engineering Geology. (3 Units)**

Prerequisite: EAR 450. Evaluation and abatement of geologic hazards affecting construction projects and land use. Landslides, groundwater pollution, subsidence, flooding, and earthquake effects. Mechanical properties of rocks and soils. Case histories and site investigations. Application to business, law, construction engineering and environmental studies. Two hours of lecture and three hours of laboratory per week.  
Offered Infrequent

**EAR 490. Sr Sem In Earth Sciences. (1 Units)**

Prerequisite: Senior standing in Earth Sciences or consent of instructor. Study and discussion of current research in Earth Sciences. Techniques of oral presentation, library research and preparation of audiovisual materials. One hour of seminar per week.  
Offered Infrequent

**EAR 494. Independent Study. (1-3 Units)**

Prerequisite: Consent of instructor. Independent study of a particular earth science or environmental topic under the supervision of an Earth Science faculty member.  
Offered Fall, Spring

**EAR 495. Advanced Top In Ear Sci. (3 Units)**

Selected topics in Earth Science with course content to be determined by instructor. Repeatable course.  
Offered Spring

**EAR 496. Internship In Earth Sci. (1-3 Units)**

Prerequisite: Consent of instructor. Employment as an assistant or volunteer in an earth sciences-related firm or government agency. Course may run at time convenient to student and employers, including summer. Student should contact Department faculty three months prior to enrollment. CR/NC grading. Repeatable course.  
Offered Fall, Spring



**EAR 498. Directed Research. (1-3 Units)**

Prerequisite: Consent of instructor. Research of a particular earth science or environmental problem under the direction of an Earth Science faculty member.

Offered Fall, Spring

## Economics (ECO)

**ECO 110. Economic Theory 1A. (2.7 Units)**

Offered All terms

**ECO 200. Contemporary Econ Issues. (3 Units)**

An examination of contemporary economic institutions, issues, and problems as they affect various groups in our society. Familiarization with basic analytical tools and techniques necessary for studying current issues.

Offered Infrequent

**ECO 210. Economic Theory 1A Micro. (3 Units)**

Introductory microeconomic theory; resource allocation, output determination; production theory, income distribution.

Offered Fall, Spring, Summer

**ECO 211. Economic Theory 1B Macro. (3 Units)**

Introductory macroeconomic theory; national income accounting, national income determination, monetary and fiscal policy.

Offered Fall, Spring, Summer

**ECO 230. Statistics For Economists. (3 Units)**

Introduction to probability theory, estimation of population proportions, means, variances, hypothesis tests, statistical inference and decision-making using multivariate analysis, basic regression analysis, and Bayesian techniques; computer assisted workshops/studies.

Offered Infrequent

**ECO 310. Intermed Microeconomics. (3 Units)**

Prerequisite: ECO 210. Role of prices in product and factor markets, principles of production and costs, business behavior under various types of market structure, general equilibrium and welfare economics.

Offered Infrequent

**ECO 311. Intermed Macroeconomics. (3 Units)**

Prerequisite: ECO 211. Measurements and analysis of the determinants of national income, employment and the general price level. Theoretical foundations of contemporary monetary and fiscal policies.

Offered Infrequent

**ECO 315. American Economic History. (3 Units)**

Development of the American economy, organizational patterns and institutions, from settlement to the present, with emphasis on the interaction of social, political, and economic phenomena.

Offered Infrequent

**ECO 322. Money And Banking. (3 Units)**

Prerequisites: ECO 210 and ECO 211. Nature and functions of money and its relation to prices; the monetary system of the United States; the functions of banks, bank-credit, foreign exchange and monetary control.

Offered Infrequent

**ECO 327. Public Finance. (3 Units)**

Prerequisites: ECO 210 and ECO 211. Economic principles underlying public administration. Concepts of socially efficient resource allocation and provision of public goods. Emphasis on fiscal functions of federal, state and local governments, the allocation of resources between government and private use.

Offered Infrequent

**ECO 330. Labor Economics. (3 Units)**

Prerequisite: ECO 210 or consent of instructor. Analysis of supply and demand for labor, wage determination, investment in human capital, minimum wage laws and the economics of collective bargaining. Taught with either general focus or special focus; e.g., women, disadvantaged groups and unions.

Offered Infrequent

**ECO 340. International Trade Thry. (3 Units)**

Prerequisites: ECO 210 and ECO 211. Classical and modern theories of international trade, theory and practice of protection, commercial policies, balance of payment adjustments and regional trade organizations.

Offered Fall

**ECO 341. International Finance. (3 Units)**

Prerequisites: ECO 210 and ECO 211. Analysis of international financial transactions, capital movements, international financial organizations, balance of payments, key currencies and exchange rates. Comparison of alternative international monetary systems.

Offered Spring

**ECO 345. Economic Development. (3 Units)**

Prerequisites: ECO 210 and ECO 211. Theories of economic development. Contemporary economic structure of low income countries. Causes of limited economic growth. Policy alternatives.

Offered Fall

**ECO 350. Quantitative Analysis. (3 Units)**

Prerequisites: ECO 210 and ECO 310. Construction and application of mathematical models to economic and business decision-making. Modeling techniques including the Lagrange multiplier technique, optimal control theory, and differential game theory. Two hours of lecture and two hours of technical activity.

Offered Infrequent

**ECO 351. Intro To Econometrics. (3 Units)**

Prerequisites: ECO 230. Application of statistical techniques to the problem of testing the validity of behavioral relationships suggested by economic theory. Topics include regression analysis, time series models, forecasting, and decision making. Applications performed on the computer. Two hours of lecture and two hours of technical activity.

Offered Infrequent

**ECO 375. Industrial Organization. (3 Units)**

Prerequisites: ECO 210 and ECO 211. Current issues of industrial organization, concentration, and diversification. Anti-trust policy.

Offered Infrequent

**ECO 380. Economics Of Urban Areas. (3 Units)**

Economic factors underlying and following from the urbanization of modern societies. Current problems such as urban decay, air and water pollution, transportation construction, education, racial concentration, and city-state and city-federal relationships.

Offered Infrequent

**ECO 384. Economics Of Health. (3 Units)**

Prerequisite: ECO 210 or consent of instructor. Deals with topics such as supply and demand for health services, prices and cost of health care, fiscal resources and allocations, health insurance and methods of reimbursement, and influences of Medicaid and Medicare and health care consumption and delivery.

Offered Infrequent

**ECO 494. Independent Study. (1-3 Units)**

Prerequisites: ECO 210 and ECO 211, and consent of instructor are recommended. Individual study of some topic or problem under the supervision of a member of the Economics Department. Repeatable course.

Offered Infrequent

**ECO 495. Special Topics In Econ. (3 Units)**

A course focusing on selected topics in economics, such as economics of inflation, health, education, ecology, oil spills, and risk and insurance. Repeatable course.

Offered Infrequent

## Education (EDU)

**EDU 470. Individual Learning Plan Development. (3 Units)**

Induction candidates gain the knowledge and skills to develop a professional individualized Learning Plan that focuses on improving teacher performance via inquiry and formative assessment of their teaching practice to improve student learning.

Offered Fall, Spring

**EDU 474. Individual Learning Plan Completion. (3 Units)**

Prerequisite: EDU 470 is required. Induction candidates complete a professional Individualized Induction Plan that focuses on teacher performance via inquiry and includes a comparison of formative and summative assessment of their teaching practice to improve student learning.

Offered Fall, Spring

## Educational Leadership Justice (ELJ)

**ELJ 700. Leadership for Justice (Self). (3 Units)**

Introduces candidates to the program and the liberatory/justice leadership framework providing the foundation Exploration of leadership models, positionality, intersectionality, purpose and leadership identity for enacting leadership using a justice lens begins for each candidate.

Offered Summer

**ELJ 705. Leadership for Justice (Organizations). (3 Units)**

Focuses on candidates identifying key aspects of their organization that are critical to justice leadership. Data driven decision-making, utilization of all sources of data and information and the identification of actions to promote justice will be addressed.

Offered Summer

**ELJ 710. Leadership for Systems Thinking. (3 Units)**

Takes candidates deeper into the context of their own organization to analyze their systems and the framing that guides them. In addition, focuses on the implications identified as structural, social and psychological barriers.

Offered Fall

**ELJ 715. Leadership for Praxis. (3 Units)**

Focuses on the identification of justice focused relational obligations, accountability, governance and communication within organizations.

Offered Fall

**ELJ 720. Leadership for Participatory Liberation. (3 Units)**

Designed to build candidates' knowledge and capacity to address systemic racism in their organization. Focuses on aspects of racism and its manifestation in beliefs, values and inequitable stances present in their workplace

Offered Spring

**ELJ 725. Leadership for Supportive and Inclusive Communities. (3 Units)**

Asks candidates to focus on themselves, their organization, and the larger community that they serve. Utilizing the mindset and moves of liberatory leadership, candidates examine their values, principles, and ethics using supportive, inclusive and humanizing practices.

Offered Spring

**ELJ 730. Assessments, Evaluation, and Design Thinking. (3 Units)**

This course will introduce candidates to program evaluation and the cyclical of assessing processes and structure to investigate organizations' areas of strength and challenges for internal change and improvement.

Offered Summer

**ELJ 735. Politically Intelligent Leadership. (3 Units)**

The course will teach candidates how to interpret and utilize laws and policies to better understand political structures( organizations), Justice Leadership, and their responsibility as a justice leader (self).

**ELJ 740. Leadership for Learning, Development, and Organizational Transformation. (3 Units)**

This course focuses on the human potential within organizations for sustainable growth based on rational aspects and formulating a plan for individual and collective growth.

**ELJ 745. Cosmopolitan Leadership. (4 Units)**

Candidates revisit their positionality as researchers, leaders, and members of the global community ensuring that they foster a culture of authenticity and liberation in their organizations. Candidate will self-interrogate to clarify their leadership growth and experience in the program.

**ELJ 760. Research Design. (3 Units)**

Examination of research methodologies including ethical and foundational aspects of educational research as applied in justice-focused leadership practices. Topics include research skills, identifying educational problems, evaluating research, understanding qualitative and quantitative research literature, and IRB. The CITI is completed.

Offered Fall

**ELJ 762. Advanced Quantitative Research methods. (3 Units)**

Advanced hypothesis testing using quantitative methods, including research designs used to dismantle inequities. Statistical analyses using t-test, analysis of variance, factorial analysis of variance, multiple regression, and chi-square, with an emphasis on research questions addressing justice focused interpretations of results

**ELJ 764. Advanced Qualitative Research Methods. (3 Units)**

In- depth study of qualitative research methods, analysis and interpretation for understanding and application to advance the change in leadership to support equity and justice will be the focus for this course. Ethnographic interviews, participant and naturalistic observation, document analysis and other qualitative data analyses will be emphasized.

**ELJ 766. Action Research design & Mixed Methods. (3 Units)**

Exploration of the principle and methods used in participatory action research, including using mixed methods, review of current research, full participatory of research participants, validity, ethical issues, data collection, and social action for social justice.

**ELJ 771. Research Seminar I. (1 Units)**

A seminar-format course designed to introduce students to the academic and reflective writing skills needed for dissertation proposals.

Offered Spring

**ELJ 772. Research Seminar II. (1 Units)**

A seminar-format courses designed to develop students' academic and reflective writing skills for doctoral student preparing to write their dissertation proposals.

Offered Summer

**ELJ 773. Research Seminar III. (1 Units)**

A seminar- format Course designed to advance doctoral students' academic and reflective writing, skills, following American Psychological Association (APA) guidelines.

**ELJ 774. Research Seminar IV. (1 Units)**

A seminar-format course designed to advance doctoral students' academic and reflective writing skills, including their writing, and their proposed data collection plan for their proposed data collection plan for their dissertation following American Psychological Association guidelines.

**ELJ 775. Research Seminar. (1 Units)**

A seminar-format course designed to enhance students' skills in critiquing theirs and others academic writing for their dissertation proposal, and explaining research for justice in leadership.

**ELJ 780. Dissertation Seminar I. (0 Units)**

In this course candidates develop a dissertation that identifies and educational issue or practice within a particular community; review professional literature from multiple disciplinary perspectives; design appropriate research to investigate the issue; and begin data collection.

**ELJ 781. Dissertation Seminar II. (3 Units)**

In this course candidates develop their dissertation with ongoing, supported advising on data analysis implications, and conclusions. This course will also support their oral and written dissertation defense.

**ELJ 785. Dissertation Writing I. (3 Units)**

This course is designed for dissertation chairs and their candidates to work together to engage in dissertation development and writing.

**ELJ 786. Dissertation Writing II. (3 Units)**

The course is designed for dissertation chairs and their candidates to work together to engage in dissertation development and writing.

**ELJ 800. EdD Continuation Course. (1 Units)**

EdD candidates who have completed their course work but not their dissertation. Signature of EdD Program Director required.

## English (ENG)

**ENG 101. Oral & Wrtn Expression II. (2.7 Units)**

Offered All terms

**ENG 107. Reading & Writing LA. (3 Units)**

Through reading and writing about place and identity, students are introduced to threshold concepts in writing studies to increase their metacognitive skills, deepen their sense of belonging, and strengthen their growing academic identities.

Offered Summer

**ENG 108. Freshman Composition I: Stretch 1. (3 Units)**

College-level reading and writing taken over two terms (ENG 108/109) that incorporates additional instruction and support to develop rhetorical knowledge and critical thinking and engage students in writing processes, research and practice of conventions. CR/NC grading.

Offered Fall

**ENG 109. Freshman Composition I: Stretch 2. (3 Units)**

College-level reading and writing taken over two terms (ENG 108/109) that incorporates additional instruction and support to develop rhetorical knowledge and critical thinking and engage students in writing processes, research and practice of conventions. Graded A-C-/NC.

Offered Spring

**ENG 110. Freshman Composition Accelerated. (3 Units)**

College-level reading and writing that develops rhetorical knowledge and critical thinking and engages students in writing processes. Graded A-C-/NC.

Offered Fall, Spring

**ENG 111. Freshman Composition II. (3 Units)**

Prerequisite: ENG 110 or equivalent. Reinforcement of basic writing skills with emphasis on persuasion and argumentation, including a documented essay. Aids in writing convincing arguments and assembling, organizing, and documenting evidence supporting a thesis. Graded A-C-/NC.

Offered Fall, Spring, All terms

**ENG 112. Freshman Composition Supported. (3 Units)**

College-level reading and writing that incorporates additional instruction and support to develop rhetorical knowledge and critical thinking and engage students in writing processes, research, and observation of conventions. A-C-/NC grading.

Offered Infrequent

**ENG 150. Languages of the World. (3 Units)**

Introduction to linguistics as a social science. Includes an overview of the world's languages and language families, with an investigation of how social issues and language impact each other. Not open for credit toward the English major.

Offered Fall, Spring

**ENG 194. Independent Study in English. (1-3 Units)**

Offered As needed

**ENG 195. Special Topics in Composition. (1-4 Units)**

Offered Infrequent

**ENG 202. English Literature to 1642. (3 Units)**

Survey of British poetry, drama, and prose to 1642.

Offered All terms, Fall, Spring

**ENG 203. English Literature: 1642-1832. (3 Units)**

Survey of British poetry, drama, and prose from 1642-1832.

Offered Fall, Spring, Summer

**ENG 204. English Literature: 1832-Present. (3 Units)**

Survey of British poetry, drama, and prose, 1832-present.

Offered Fall, Spring, Fall, Spring, Summer

**ENG 205. Literary Genres and Devices. (3 Units)**

Prerequisite: Completion of GE Area A2: Written Communication. Introduces a series of literary genres including stories, poems, plays, essays, and the novel, with characteristic devices including point of view, symbol, plot and imagery.

Offered Fall

**ENG 210. Study of Language. (3 Units)**

Prerequisite: Completion of G.E. Area A2. Forms of prose fiction from different periods and national literatures. Written exercises required.

Offered Fall, All terms

**ENG 230. Literature and Popular Culture. (3 Units)**

Ways of reading literature and popular culture to enhance understanding, appreciation, and enjoyment. Requires frequent writing assignments.

Offered Fall, Spring

**ENG 240. American Literature to 1865. (3 Units)**

Intensive study of selected American works to 1865, with readings across periods, genres, and traditions, including texts by underrepresented and marginalized groups.

Offered All terms, Fall

**ENG 241. American Literature after 1865. (3 Units)**

Intensive study of selected American works after 1865, with readings across periods, genres, and traditions, including texts by underrepresented and marginalized groups.

Offered All terms, Spring

**ENG 271. Introduction to Creative Writing. (3 Units)**

Experiences in creative writing through encounters with selected literary works.

Offered Fall, Spring, Summer

**ENG 302. English Literature to 1642. (3 Units)**

Prerequisite: Completion of G.E. Area A2 Written Communication . Survey of British poetry, drama, and prose to 1642.

Offered Fall, Spring

**ENG 303. English Literature: 1642-1832. (3 Units)**

Prerequisite: Completion of G.E. Area A2: Written Communication. Survey of British poetry, drama, and prose, 1642-1832.

Offered Fall, Spring

**ENG 305. Critical Reading of Literature. (3 Units)**

Prerequisite: Completion of G.E. Area A.1. Analysis of literature to develop critical reading skills. Intended for students in Liberal Studies and Linguistics; may not be counted toward major/minor in English with Literature option. Written exercises required.

Offered Fall, Spring, Summer

**ENG 306. Backgrounds of Literature. (3 Units)**

Prerequisite: Completion of G.E. Area A.1. Survey of traditional sources of world literature, including Greek and Roman mythology, Old and New Testaments, and early traditions of Asia, Africa, and the Americas

Offered Spring

**ENG 307. Practice in Literary Criticism. (3 Units)**

Prerequisite: Completion of G.E. Area A2: Written Communication. Practice in literary criticism from contemporary theoretical perspectives. For Literature majors and minors in English. Written exercises regularly required.

Offered Fall, Spring

**ENG 308. Critical Approaches to Children's Literature. (3 Units)**

Prerequisite: Completion of G.E. Area A2. Critical analysis of children's literature from its inception to the present including the concept of the child as a historical, social, cultural, and political construct. Examines genre and form in literary and visual works from various perspectives. 3 hours lecture.

Offered Fall, Spring, Summer

**ENG 311. Phonology. (3 Units)**

Prerequisite: Completion of G.E. Area A2. The phonetics of a variety of languages and the phonetic phenomena that occur in natural languages. Practice in the perception and transcription of such phenomena. Introduction to the traditional and current views of phonological theory.

Offered Fall, All terms

**ENG 312. Morphology. (3 Units)**

Prerequisite: Completion of G.E. Area A2. Descriptive and historical (etymological) analysis of the structure of words in English and other languages: common roots, base forms, and affixes; rules of word formation; semantic change.

Offered Spring

**ENG 314. English Syntax: Traditional. (3 Units)**

Prerequisite: Completion of G.E. Area A2. The structure and meaning of sentences, approached through traditional models of grammar; the role of syntax in writing and composition.

Offered Fall, Spring, All terms

**ENG 315. Theoretical Syntax. (3 Units)**

Prerequisite: Completion of G.E. Area A.1. The structure and meaning of sentences approached through any current theoretical model of syntax.

Offered Fall

**ENG 317. Black English Language and Culture. (3 Units)**

This course examines the linguistic features and the cultural, social, historic, and communicative aspects of Black English in the US and across the African and African American diaspora. Students will learn how to create community-based research to explore the past, present and future of Black English in a globalized society and in educational discourse. Students will then learn the writing conventions of sociolinguistics research and critically reflect on our own intersectional experiences and interactions with Black English, in order to position ourselves as sociolinguists within the broader scholarly and academic community. A grade of C or better in this course fulfills the GEAR requirement for Linguistics majors.

Offered Spring, All terms

**ENG 320. Literacy, Power, and Identity. (3 Units)**

Prerequisite(s): Completion of GE Area A Composition. . Exploration of literacy as a sociocultural practice. Connections between literacies, individual and social identities, social and political power structures, and their pedagogical implications.

**ENG 325. Poetry. (3 Units)**

Prerequisite: Completion of G.E. Area A2. Analysis of various forms of poetry, with an emphasis on American and British writers from various eras. Students will learn and apply conventions of oral poetry. Written exercises required.

Offered Fall, Spring

**ENG 326. Prose Fiction. (3 Units)**

Offered Fall

**ENG 327. Drama. (3 Units)**

Prerequisite: Completion of G.E. Area A2. Forms of drama by major playwrights from different periods and national literatures. Written exercises required.

Offered Spring

**ENG 335. Readings in World Literature. (3 Units)**

Prerequisite: Completion of G.E. Area A2. Intensive study of selected major writers from the world's literature, read in translation.

Offered Fall, Spring

**ENG 340. American Literature to 1865. (3 Units)**

Prerequisite: Completion of G.E. Area A2. Composition. Intensive study of selected American works.

Offered Fall, Spring

**ENG 341. American Literature: 1865-Present. (3 Units)**

Prerequisite: Completion of G.E. Area A2. Composition. Intensive study of selected American works.

Offered Fall, Spring

**ENG 342. African American Literature. (3 Units)**

Study of works by African American authors. Historical development of the tradition from its beginnings to the present. Genres include poetry, drama, fiction, and autobiography. Key themes include connections to folk and oral traditions and the role of literature in social protest.

Offered Fall, Spring

**ENG 343. African-American Poetry and Drama. (3 Units)**

Prerequisite: ENG 111. Historical development of African-American poetry from its roots. Study of major African-American plays. Focus on poetry and drama as media informing particular aspects and textures of the Black American experience.

Offered Infrequent

**ENG 344. African-American Prose. (3 Units)**

Prerequisite: ENG 111. Selected African-American works of fiction and non-fiction. Analysis of themes, techniques and symbols. Special attention given to folkloric elements; i.e., blues, dozens, folktales, etc., as they are employed in the literature.

Offered Infrequent

**ENG 345. Latino/a Literature. (3 Units)**

Prerequisite: ENG 111. Study of works by U.S. Latino/a authors. Attention to historical and cultural contexts. Comparative analyses of themes such as identity and community with respect to race, class, gender, sexuality, migration and citizenship.

Offered Fall, Spring

**ENG 346. Native American Literature. (3 Units)**

Prerequisite(s): Completion of G.E. Area A.1. Composition.. Study of works by indigenous writers of North America in their historical, cultural, and tribal contexts. Readings across periods and multiple genres (fictions, poetry, memoir, oral traditions). Key topics include race, gender, sexuality, class nationality and sovereignty.

Offered Fall

**ENG 347. Literature of Ethnicity and Gender. (3 Units)**

Prerequisite: Completion of first year composition. Readings in such areas as Latino American, Asian American, and women's literature. Topic will vary. May be repeated up to six units for the major or minor in English.

Offered Fall, Spring

**ENG 350. Advanced Composition. (3 Units)**

Prerequisite: Completion of GE Area A2 Written Communication. Continued study of writing processes and rhetorical communication, with emphasis on literacy within and across disciplinary contexts and how to negotiate the attitudes and conventions of various discourse communities. May not be counted toward major/minor in English. Satisfies Graduation Writing Assessment Requirement (GWAR). Graded A-C/NC.

Offered Fall, Spring, Summer

**ENG 351. Composition for Elementary School Teachers. (3 Units)**

Prerequisite: Satisfaction of the GWAR. Advanced writing course. Focus on children's writing development, writing process and techniques for teaching composition, and further development of writing abilities of prospective elementary school teachers.

Offered Infrequent

**ENG 352. Writing and Speaking Skills for Management. (3 Units)**

Prerequisites: Satisfaction of the GWAR. Principles and skills of effective communication within organizational management. This course concentrates on eliciting desired responses through various types of business communication in writing. May be counted only once toward major/minor and twice for elective credit. Graded A-C/NC. Repeatable course.

Offered Infrequent

**ENG 360. Heroes and Antiheroes. (3 Units)**

Prerequisite: Completion of G.E. Area A2. Composition. Students will investigate the cultural assumptions and implications lying behind the archetypes of heroism and anti-heroism. Texts will be drawn from mythology, literature, stage drama, and film, with side glances at philosophy and psychology.

Offered As needed

**ENG 362. Environment in Literature & Culture. (3 Units)**

Prerequisite: Completion of G.E. Area A2 Composition. Analysis of the influence of environment on literature with attention to rural vs. urban spaces, nature vs. culture, climate change and environmental justice.

Offered As needed

**ENG 364. Literary Utopia. (3 Units)**

Prerequisite: Completion of G.E. Area A2. Composition. Critical study of traditions of utopian and dystopian literature, with emphasis on genre definitions and intersections with science fiction, fantasy, history, philosophy, and politics.

Offered As needed

**ENG 398. Directed Research. (1-3 Units)**

Prerequisites: Senior standing and consent of instructor. Investigations in the historical and/or theoretical foundations of modern linguistics.

Repeatable course. Three hours of seminar per week.

Offered Infrequent

**ENG 413. History of the English Language. (3 Units)**

Prerequisite: Completion of G.E. Area A2. Composition. The evolution of English from its Indo-European origins, through Old and Middle English, to the rise and spread of Modern English.

Offered Fall, All terms

**ENG 414. American English. (3 Units)**

Prerequisite: Completion of G.E. Area A2. Composition. American English from colonial times to the present. Contacts with native, colonial, and immigrant languages and regional, social, and ethnic dialects.

Offered Spring

**ENG 419. Psycholinguistics. (3 Units)**

Prerequisite: Completion of G.E. Area A2. ENG 210 or ENG 314 or one course in psychology. Current theory and research in the psychology of language and its historical background, including experiments on speech production and comprehension, acquisition of language by children, and disorders of speech and language.

Offered Infrequent

**ENG 420. Linguistic Analysis. (3 Units)**

Prerequisite: Completion of G.E. Area A2. ENG 311 or ENG 314. Descriptive and formal analysis of phonological, syntactic, and/or historical data from a variety of human languages. Repeatable for credit.

Offered Fall

**ENG 433. Thematic Approaches to Literature. (3 Units)**

Prerequisite: Completion of G.E. Area A2. An exploration of literature organized around such themes as Women Writers or Death and Dying, using works from a variety of cultures and historical periods. Repeatable course.

Offered Infrequent

**ENG 451. Advanced Creative Writing. (3 Units)**

Prerequisites: ENG 111 and consent of instructor. Practice in various forms of imaginative writing. Repeatable course.

Offered Spring

**ENG 457. Advanced Composition for Teachers. (3 Units)**

Prerequisite: Satisfaction of the G.W.A.R. Advanced writing course for prospective secondary school teachers, designed to develop understanding of writing process and techniques for teaching composition. Course also stresses development of students' own strengths as writers.

Offered Fall

**ENG 465. Chaucer. (3 Units)**

Prerequisite: Completion of G.E. Area A2. Composition. Chaucer's major poetry, its historical and literary background.

Offered Fall

**ENG 467. Shakespeare. (3 Units)**

Prerequisite: ENG 307 is required. Literary analysis of selected comedies, histories, and tragedies. Students will learn and apply performative aspects of Shakespeare's plays.

Offered Fall, Spring, All terms

**ENG 472. Creative Nonfiction Workshop. (3 Units)**

Practice in various forms of contemporary creative nonfiction, such as memoir, essay, literary journalism. Analysis of a wide range of models, exercises in invention techniques, discussion of writing processes, and workshopping of students' drafts and revisions. Repeatable for credit.

Offered Fall

**ENG 473. Writing Center Theory and Practices. (3 Units)**

Prerequisite(s): Completion of GE Area A Written Communication.

The history and theoretical foundations of writing centers and writing tutoring. Frequent writing assignments as well as best practices in the teaching of writing.

**ENG 476. Individual Authors and Topics Pre-1700. (3 Units)**

Prerequisite: Completion of G.E. Area A2. Composition. Intensive study of a major author, group of authors, or focused topic from the pre-1700 period.

Offered Fall

**ENG 477. Individual Authors and Topics Post-1700. (3 Units)**

Prerequisite: Completion of G.E. Area A.1. Composition. Intensive study of a major author, group of authors, or focused topic from the post-1700 period.

Offered Spring

**ENG 478. Current Issues in Rhetoric and Composition. (3 Units)**

Prerequisite(s): Completion of GE Area A Written Communication. Intensive study of selected topics in rhetoric and composition such as invention and the teaching of writing, issues in literacy instruction, rhetoric and contemporary culture, composition and cognitive development, the composing process in a rhetorical framework, linguistic approaches to rhetoric. Three hours of seminar per week.

**ENG 485. Literary, Media and Culture Studies. (3 Units)**

Prerequisite: Completion of G.E. Area A.1. Composition. Practice in devising strategies appropriate to the needs of students in grades 7-12. Emphasis on techniques of developing textual, media, and cultural literacies, of analyzing genres, of making literature, media, and popular culture accessible, and of generating essay topics from these sources.

Offered Spring

**ENG 486. ESL Teaching Methods. (3 Units)**

Prerequisite: Completion of G.E. Area A2. Composition. Investigation of approaches, methods, and techniques used in second language instruction.

Offered Spring

**ENG 487. Introduction to Second-Language Learning and Teaching. (3 Units)**

Prerequisite: Completion of G.E. Area A.1. Composition. Focus on linguistic, social, and cultural factors in schooling language-diverse students. Areas of concentration include first and second-language acquisition, history of second-language teaching, current second-language theoretical frameworks, and dual language teaching strategies.

Offered Fall, Spring

**ENG 490. Seminar in Literature. (3 Units)**

Prerequisite: Consent of instructor. Intensive study of one or more authors, a single historical period, a literary movement or genre, or an aspect of literary criticism. This course examines disciplinary discourse through formal and informal written assignments that stress the importance of literary analysis, research, and revision. Repeatable course. A grade of C or better in this course fulfills the G.W.A.R. requirement for all English Literature and English Education majors and minors.

Offered Fall, Spring

**ENG 492. Seminar in Linguistics. (3 Units)**

Prerequisite: Graduate Standing or Consent of instructor. Study of American writers, texts and topics primarily before 1900. Repeatable course. Three hours of seminar per week.

Offered Spring, All terms

**ENG 494. Independent Study. (1-4 Units)**

Prerequisites: Consent of instructor and department chair. Intense reading or an original research project or creative writing under faculty supervision. Arrangements must be made a semester in advance of registration. Repeatable course.

Offered As needed, All terms

**ENG 495. Special Topics in English. (3 Units)**

Variable authors and texts, literary periods, or analytical approaches and methodologies. Uses upper-division research techniques to produce sustained critical arguments.

Offered As needed

**ENG 496. Internship. (1-3 Units)**

Prerequisite: Consent of Instructor, restricted to majors. Under the direction of the internship faculty associate, students work in various approved internship opportunities. Repeatable course. Credit/no credit grading.

Offered As needed

**ENG 497. Directed Reading. (1-3 Units)**

Prerequisites: Consent of instructor and department chair. Extensive reading in selected areas under faculty supervision. Repeatable course.

Offered Infrequent

**ENG 498. Directed Research. (1-3 Units)**

Offered Infrequent

**ENG 501. Advanced English Studies. (3 Units)**

Prerequisites: Graduate Standing or Consent of instructor. Introduces students to the interdisciplinary fields of English studies, including literature, rhetoric and composition, and linguistics. This course fulfills the Oral Requirement of the MA in English: Literature Option and MA in English: Literature Option with Rhetoric and Composition.

Offered Fall

**ENG 513. History of English Language. (3 Units)**

Prerequisite: Graduate Standing or Consent of instructor. The evolution of English from its Indo-European origins, through Old and Middle English, to the rise and spread of Modern English.

Offered Fall odd

**ENG 514. American English. (3 Units)**

Prerequisite: Graduate Standing or Consent of instructor. American English from colonial times to the present. Contacts with native, colonial and immigrant languages and regional, social and ethnic dialects. Offered Fall even

**ENG 530. Seminar: Studies in Medieval Literature. (3 Units)**

Prerequisite: Graduate Standing or Consent of instructor. A study of major works in English literature before 1500. Some focus on major continental analogues and critical methodology. Majority of the texts read in translation. Repeatable course. Three hours of seminar per week. Offered Spring

**ENG 535. Seminar: Studies in Renaissance Literature. (3 Units)**

Prerequisite: Graduate Standing or Consent of instructor. Major works in English literature from 1500-1660. Emphasis on such representative writers as More, Spenser, Shakespeare, Marlowe, Jonson, Donne, Bacon and Milton. May include continental contemporaries such as Montaigne and Machiavelli. Repeatable course. Three hours of seminar per week. Offered Fall

**ENG 540. Seminar: Studies in Restoration and Eighteenth-Century Literature (1660-1798). (3 Units)**

Prerequisite: Graduate Standing or Consent of instructor. Consent of instructor and department chair. Literature of the Restoration, Neoclassic, and Sensibility eras. May include readings that provide historical, philosophical, or cultural content. Repeatable course. Three hours of seminar per week. Offered Spring even, All terms

**ENG 543. Seminar: Studies in Romantic Literature (1798-1832). (3 Units)**

Prerequisite: Graduate Standing or Consent of instructor. Consent of instructor and department chair. Selected studies in the Romantic movement in English literature, including such precursors as Burns and Blake. Repeatable course. Three hours of seminar per week. Offered Fall odd

**ENG 545. Literary Criticism. (3 Units)**

Prerequisite: Graduate Standing or Consent of instructor. Major works in literary criticism selected from Plato to the present. Offered Spring, All terms

**ENG 546. Seminar: Studies in Victorian Literature (1832-1901). (3 Units)**

Prerequisite: Graduate Standing or Consent of instructor. A study of major writers from the Great Reform Bill to the fin de siècle with an emphasis on literary responses to emerging scientific thought, social consciousness, and religious issues. Repeatable course. Three hours of seminar per week. Offered Fall even

**ENG 549. Seminar: Modern British Literature. (3 Units)**

Prerequisite: Graduate Standing or Consent of instructor. Selected literary study of the modern period in England, Ireland, and the Commonwealth, as typified by such novelists and poets as Conrad, Yeats, Lawrence, Joyce, Woolf, Forster, Eliot, Auden, Thomas, Greene, and Lessing. Repeatable course. Three hours of seminar per week. Offered Spring

**ENG 552. Sem: Studies In American Literature to 1900. (3 Units)**

Prerequisites: Consent of instructor and department chair. Comparative study of genres, literary movements, or authors over more than one period. Repeatable course. Three hours of seminar per week. Offered Spring odd

**ENG 555. Seminar: Studies in American Literature After 1900. (3 Units)**

Prerequisite: Graduate Standing or Consent of instructor. Study of American writers, texts, and topics primarily after 1900. Repeatable course. Three hours of seminar per week. Offered Fall

**ENG 570. Seminar in Writing. (3 Units)**

Prerequisite: Graduate Standing or Consent of instructor. Intensive training in writing. Advanced study of techniques of prose discourse. Frequent writing assignments. Repeatable course. Three hours of seminar per week. Offered Fall

**ENG 571. Discourse Analysis. (3 Units)**

Prerequisite: Graduate Standing or Consent of instructor. Analysis and description of structures and functions of language beyond the sentence level. May include textual and conversational analysis; classical rhetorical canons; speech acts; scripts/information structures; cohesion, coherence, deixis; spoken and written discourse. Three hours of seminar per week. Offered Spring

**ENG 572. Creative Nonfiction Workshop. (3 Units)**

Practice in various forms of contemporary creative nonfiction, such as memoir, essay, literary journalism. Analysis of a wide range of models, exercises in invention techniques, discussion of writing processes, and workshopping of students' drafts and revisions. Repeatable for credit. Offered Fall

**ENG 573. Writing Center Theory and Practices. (3 Units)**

Prerequisite(s): Graduate standing or consent of instructor. The history and theoretical foundations of writing centers and writing tutoring. Frequent writing assignments as well as best practices in the teaching of writing.

**ENG 574. Research Methods and Discourses in Composition and Rhetoric. (3 Units)**

Advanced study in research methodologies, scholarly discourses, and means of knowledge production in composition/rhetoric and writing studies. Frequent writing and hands-on practice in text-based and empirical approaches to inquiry. Three hours of seminar per week.

**ENG 575. Teaching Of Composition. (3 Units)**

Prerequisite: Graduate Standing or Consent of instructor. Theory and practice in teaching composition. Three hours of seminar per week. Offered Fall

**ENG 576. History and Theories of Rhetoric. (3 Units)**

Prerequisite: Graduate Standing or Consent of instructor. Major theories of rhetoric from ancient Greece to the present. Role of rhetoric in the history of ideas. Emphasis on multiple notions of rhetoric and attitudes toward it. Three hours of seminar per week. Offered Spring

**ENG 577. Current Issues in Rhetoric and Composition. (3 Units)**

Prerequisite: Graduate Standing or Consent of instructor. Intensive study of selected topics in rhetoric and composition such as invention and the teaching of writing, issues in literacy instruction, rhetoric and contemporary culture, composition and cognitive development, the composing process in a rhetorical framework, linguistic approaches to rhetoric. Repeatable course. Three hours of seminar per week. Offered Fall

**ENG 581. Semantics, Pragmatics and Discourse. (3 Units)**

Overview of semantics and the major approaches to pragmatics and discourse analysis. Three hours of seminar per week. Offered Spring

**ENG 582. Seminar: Linguistic Analysis. (3 Units)**

Seminar in the descriptive and formal analysis of phonological, syntactic, and/or historical data from a variety of human languages. Repeatable course. Three hours of seminar per week.

Offered Fall

**ENG 583. Seminar: Psycholinguistics. (3 Units)**

Seminar in current theory and research in the psychology of language and its historical background, speech production and comprehension, acquisition of language, disorders of speech and language. Three hours of seminar per week.

Offered Infrequent

**ENG 584. Seminar: Sociolinguistics. (3 Units)**

Examinations of varieties of English and social aspects of language use. Topics include dialectology, pidgin and creoles, bilingualism, code-switching, and intercultural communication. Three hours of seminar per week.

Offered Fall, Spring

**ENG 585. Second Language Acquisition. (3 Units)**

Prerequisites: Consent of instructor and department chair. Theories of second-language acquisition second-language learning, bilingualism, and sociocultural variables of language uses, with particular emphasis on the young adult and adult learner. Three hours of seminar per week.

Offered Fall

**ENG 586. ESL Teaching Methods. (3 Units)**

Prerequisites: Graduate standing. Investigation of approaches, methods, and techniques used in second language instruction.

Offered Spring

**ENG 587. Seminar: Current Issues in TESL/Applied Linguistics. (3 Units)**

Intensive study of selected topics in TESL/Applied Linguistics such as ESL Writing/Composition, Reading and Vocabulary Acquisition, Pedagogy of Spoken English, Curriculum and Program Design, Testing/Evaluation. Repeatable course. Three hours of seminar per week.

Offered Fall

**ENG 588. Sem:Pedag Gram For TESOL. (3 Units)**

Examination of areas of English grammar typically taught to non-native speakers. To familiarize prospective ESL teachers with classroom terminology, techniques and materials. Develop ability to analyze and explain grammatical phenomena in terms accessible to ESL students.

Offered Spring

**ENG 590. Seminar In Literature. (3 Units)**

Prerequisite: Consent of chair. Study of a writer, period, genre, theme, or problem in literature. Repeatable course. Three hours of seminar per week.

Offered Infrequent

**ENG 591. Integrative Seminar in Literature. (3 Units)**

Prerequisite: FRE 220 or equivalent. A reading, composition, and discussion course concerned with elements of style and syntax, with emphasis on creative writing by students.

Offered Infrequent

**ENG 592. Seminar:Topics in Linguistics. (3 Units)**

Prerequisites: Consent of instructor and department chair. Advanced topics in phonological, syntactic, historical-comparative or contrastive theory and analysis. Repeatable course. Three hours of seminar per week.

Offered Spring

**ENG 593. Research Methods in Applied Linguistics. (3 Units)**

Prerequisites: Consent of instructor and department chair. Survey of research methods in applied linguistics, including problem description, data collection and analysis, interpretation of results. Preparation of Final Project. Three hours of seminar per week. Repeatable but may count only once toward the MA degree.

Offered Infrequent

**ENG 594. Independent Study. (1-3 Units)**

Prerequisites: Consent of instructor and department chair. In consultation with a faculty member, the student will investigate in detail current scholarship in some area, or will undertake a project involving original research or creative writing. Repeatable course.

Offered As needed

**ENG 595. Special Topics:. (3 Units)**

An intensive study of a selected issues in literature or linguistics. Repeatable course. Three hours of seminar per week.

Offered Infrequent

**ENG 597. Directed Reading. (1-3 Units)**

Prerequisites: Consent of instructor and department chair. Extensive reading in selected areas under the guidance of a faculty mentor. Repeatable course.

Offered Infrequent

**ENG 600. Grad Continuation Course. (1 Units)**

Graduate students who have completed their coursework but not their thesis, project, or comprehensive examination, or who have other requirements remaining for the completion of their degree, may maintain continuous attendance by enrolling in this course. Signature of graduate program coordinator required.

Offered Fall, Spring

## Environmental Science (ENV)

**ENV 590. Graduate Seminar. (1-3 Units)**

Prerequisite: Graduate standing in the M.S. in Environmental Science Program or approval by the Program Coordinator. Presentation and discussion of selected topics in environmental science. One to two hours of seminar per week. Repeatable course. A maximum of four units may be applied to the master's degree.

Offered Fall, Spring

**ENV 596. Internship in Environmental Science. (3 Units)**

Supervised internship, in the student's area of interest, with a participating agency or company. The internship will be chosen in consultation with the Program Coordinator. A minimum of nine hours per week of internship activity and a final written report are required.

Offered Fall, Spring

**ENV 598. Directed Research. (1-3 Units)**

Laboratory and/or field research on a specific subject in environmental science. The research is to be approved and directed by the instructor. Repeatable course. A maximum of three units may be applied to the master's degree.

Offered Fall, Spring

**ENV 599. Thesis. (3 Units)**

Research and writing of a thesis to fulfill the thesis requirement for the master's degree. The topic of the thesis to be approved and supervised by the Graduate Advisor, in consultation with the student's Graduate Thesis Committee. Repeatable course. A maximum of three units may be applied to the master's degree.

Offered Fall, Spring



**ENV 600. Graduate Continuation Course. (1 Units)**

Graduate students who have completed their course work but not their thesis may maintain continuous attendance by enrolling in this course. Offered Fall, Spring

## Finance (FIN)

**FIN 200. Personal Finance for Non-Finance Majors. (3 Units)**

A survey of concepts and tools that can help consumers improve the management of their personal finances. The course may help students identify psychological and social processes used to influence how we spend our money in ways that benefit those institutions, but may conflict with their self-interest. Offered Fall, Spring

**FIN 360. Business Finance. (3 Units)**

Prerequisite: ACC 230, ECO 210, and one of the following, MAT 105, MAT 131, MAT 153, MAT 171, MAT 191, or MAT 193. A survey of the decision framework for financial management; forecasting and planning, major investment and financing decisions, control and interaction with capital markets. Offered Fall, Spring, Summer, All terms

**FIN 375. Personal Financial Planning. (3 Units)**

Prerequisite: Consent of instructor. Provides an understanding of personal finance issues relating to budgeting, planning credit, retirement planning, insurance investments, and estate planning. Students will be able to adopt principles studied to their personal lives and make better decisions. Offered Fall, Spring

**FIN 382. Financial Analysis. (3 Units)**

Required Prerequisite: FIN 360. Readings and case studies in financial theory and practice relating to financial statement analysis, capital budgeting, short-term financial management; computer applications. Offered Fall, Spring

**FIN 426. Portfolio Management. (3 Units)**

Prerequisite: FIN 360 is required. Basic procedures and analytical tools necessary to construct, analyze, evaluate and revise investment portfolios or groups of assets, including computerized portfolio models. Offered Fall, Spring

**FIN 427. Financing E-Business. (3 Units)**

Prerequisite: FIN 360. An overview of financing options available to E-Business operations. Emphasis will be placed on analyzing financing alternatives specific to E-Business, and issues in raising financing at all stages of operations. Course includes reading assignments, case studies, and Internet applications. Offered Spring

**FIN 467. Real Estate Finance and Investment. (3 Units)**

Prerequisite: FIN 360. Practical analysis of financial techniques and investment opportunities and procedures for real property; investigation of costs, returns, profitability, tax implications, depreciation, financial institutions, markets, instruments, agencies of real estate finance, uses of computerized analysis. Offered Spring

**FIN 468. Seminar in Investment Analysis. (3 Units)**

Prerequisite: FIN 360. Security analysis, valuation and portfolio management; emphasis on investment criteria, sources of information, types of financial investments. Three hours of seminar per week. Offered Fall, Spring

**FIN 480. Economics Of The Firm. (3 Units)**

Prerequisites: ECO 210, ECO 211 and OMG 321. Applications of economic theory to management decisions; emphasis on analysis and quantitative techniques appropriate for solving forecasting, production, cost and pricing problems under various market conditions; computer applications when appropriate. Offered As needed

**FIN 481. Financial Inst & Mgmt. (3 Units)**

Prerequisite: FIN 360. Management of financial institutions, including principles, practices and procedures financing, international capital asset pricing model and ethical concerns. Case analysis, oral/written presentation and computer usage required. Offered Fall, Spring, Summer

**FIN 484. Financial Forecasting & Modeling. (3 Units)**

Required Prerequisite: FIN 360. Techniques for estimation of sales, investment, and other financial variables. Emphasis will be on modeling using statistical software and spreadsheets. Offered Fall, Spring

**FIN 485. Entrepreneurial Finance. (3 Units)**

Prerequisite: FIN 360. This course focuses on the unique financing issues as they relate to starting and managing a new business venture or a small business. The course covers topics such as sources of capital for start-ups, financial planning for growing businesses, venture capital, and Initial Public Offerings. Offered Fall, Spring

**FIN 487. Fixed Income Securities and Valuation. (3 Units)**

Prerequisite(s): FIN 360 required. Students will master the concepts of yield, duration, factors influencing interest rates and bond prices. Identify bond market segments and explain common-characteristics and differences. Construct bond portfolios, measure portfolio risk and return, and manage a \$1 million virtual bond portfolio. Offered Fall, Spring

**FIN 488. Multinatl Financial Trans. (3 Units)**

Prerequisite: FIN 360. Short term export and import financing, including the fundamentals of foreign exchange, commercial drafts, and letters of credit; international banking procedures, private and public sources, and problems of risk and security. Offered Fall, Spring

**FIN 494. Independent Study in Finance. (3 Units)**

Independent study of particular topics in Finance under the direction of a full time member of the Finance Department. CR/NC grading. Offered Fall, Spring

**FIN 496. Internship in Finance. (3 Units)**

Under the direction of the Internship Coordinator, students work in a business organization applying the skills and knowledge learned in the classroom. CR/NC grading. Offered Fall, Spring

**FIN 500. Advanced Topics in Finance. (3 Units)**

Prerequisite: FIN 360. Analysis of decisions in financial management. Includes financial planning, working capital management, capital budgeting, valuation analysis, portfolio management, capital structure, ethical and multinational concerns. Case analysis, oral/written presentation and computer usage required. Offered Infrequent

**FIN 502. Adv Topics in Internatl Bus. (3 Units)**

Prerequisite: FIN 360. Exploration of issues related to all functional areas within a global business environment. Emphasizes the additional opportunities, risks, uncertainties and difficulties of conducting business across national boundaries. Case analysis, oral/written presentation and computer usage required.

Offered Infrequent

**FIN 503. Advan Topics in Multinatl Fin. (3 Units)**

Prerequisite: FIN 502. Financial decision making in global setting: financial systems, Euro-currency markets, balance of payments, foreign exchange markets, risk measurement, hedging, trade.

Offered Infrequent

**FIN 504. Corp. Fin-Valuation Approach. (3 Units)**

Prerequisite: FIN 500. Principles of valuation; projecting earnings; discounting future cash flows; the price/earnings method; dividend discount model; market value vs. replacement value; the role of premiums when buying public companies; financing alternatives.

Offered Infrequent

**FIN 505. Adv. Mgt of Fin Institutions. (3 Units)**

Prerequisite: FIN 500. An examination of the nature and role of financial institutions in the economy, money markets, and capital markets, the Federal Reserve System and monetary policy, the commercial banking system, thrift institutions, insurance companies, pension funds, investment companies, and other major financial institutions.

Offered Infrequent

**FIN 506. Invest & Portfolio Management. (3 Units)**

Prerequisite: FIN 500. An overview of the investment environment for the institutional money manager. The market mechanism, market equilibrium, the relationship between risk and return and the valuation of various investment instruments are investigated. Analyzes contemporary theories and techniques of security selection and management available to the institution portfolio manager.

Offered Infrequent

**FIN 507. Derivatives & Future Markets. (3 Units)**

Prerequisite: FIN 500. Futures markets; mechanics of buying and selling futures; options; pricing of options; hedging; regulation of futures markets; stock index futures; interest rate futures; interest rate and other swaps.

Offered Infrequent

**FIN 508. Financial Forecast and Modeling. (3 Units)**

Students will gain a deep understanding of modern forecasting theories and methodologies widely used in industry that will allow them to forecast relevant business and economic variables that are vital for decision makers in companies and governments.

Offered Infrequent

**FIN 595. Selected Topics in Finance. (3 Units)**

Prerequisites: Graduate standing and FIN 500. Intensive study of a specialized area of Finance on a selected topic of particular interest to faculty and students. Three hours of seminar per week. Specific topic listed in class schedule. Repeatable course.

Offered Infrequent

## French (FRE)

**FRE 110. Beginning French I. (3 Units)**

Basic instruction in French. Training in speaking, listening, reading, and writing for students who have had no previous work in French.

Offered Fall, All terms

**FRE 111. Beginning French II. (3 Units)**

Prerequisite: FRE 110 or consent of instructor. A continuation of French 110.

Offered Spring, All terms

**FRE 220. Second Year French. (3 Units)**

Prerequisite: At least one year of college French or consent of instructor. Individualized instruction in French language, life and letters for second-year and advanced first-year students in French. This course taken successfully twice completes lower division requirements for the major and minor. Repeatable course.

Offered Infrequent

**FRE 305. Advanced Composition, Syntax, & Stylistics. (3 Units)**

Major political, intellectual, socio-economic and cultural developments in Europe from the sixteenth century to the Enlightenment. Key topics include absolutism, mercantilism, colonialism, constitutionalism, the Scientific Revolution and the Enlightenment.

Offered Infrequent

**FRE 310. The Study Of Language. (3 Units)**

Traditional and modern approaches to the study of language; fundamentals of phonology and grammar (same as SPA 310).

Offered Infrequent

**FRE 450. French Culture. (3 Units)**

Prerequisite: FRE 220 or equivalent. An area studies course focusing on patterns of French civilization and culture.

Offered Infrequent

**FRE 452. French Literature I. (3 Units)**

Prerequisite: FRE 220 or equivalent. French literature from the Middle Ages to the Revolution.

Offered Infrequent

**FRE 453. French Literature II. (3 Units)**

Prerequisite: FRE 220 or equivalent. Prose and poetry of the nineteenth and twentieth centuries.

Offered Infrequent

**FRE 494S. Independent Study. (1-3 Units)**

Prerequisites: B average in French, upper division standing, and consent of instructor and department chair. Independent study of a literary or linguistic problem, author, or movement. Repeatable course.

Offered Infrequent

## GED Multicultural Option (MUL)

**MUL 505. Assessmnt Sec Lang Lnrs. (3 Units)**

Prerequisite: Preliminary teaching credential or consent of instructor. Study of basic concepts, principles and practices associated with the assessment of second language learners' linguistic proficiency and subject-matter knowledge. Topics include: standardized test score interpretation, evaluation of state-mandated tests, student placement, test construction and authentic assessment.

Offered Fall, Spring

**MUL 508. Lang Acquisit in Urban Setting. (3 Units)**

Study of current theory and research in language acquisition including an introduction to linguistic subsystems, developmental stages, and factors impacting first and second language acquisition. Emphasis will be placed on the relevance of theory and research in an urban setting.

Offered Spring

**MUL 511. Cultural Diversity in America. (3 Units)**

Examines contemporary diverse populations in America and their influence on American educational institutions. The analysis of historical contributions and cultural influences on the macro-culture provide insight into our multicultural society.

Offered Spring

**MUL 520. Tchng Eng Spkr Othr Lang. (3 Units)**

Issues and problems, techniques, procedures, and materials for teaching the dominant language (standard English) to the bilingual and to the bi-dialectal.

Offered Fall, Spring

**MUL 521. Sem Mexi Amer His Educ. (3 Units)**

Explores the socio-cultural basis for the past, present and future status of Mexican Americans and Hispanics with emphasis on legal and political issues. Content and methodological innovation as well as judicial and legislative actions will be analyzed in depth. Issues relating specifically to education will be analyzed in this course. Three hours of seminar per week.

Offered Fall

**MUL 522. Read/Literacy In Spanish. (3 Units)**

Designed to prepare bilingual teachers to use effective methodology to teach literacy and reading to Spanish-speaking bilingual (Spanish-English) children. It includes examination of youngsters' readiness skills in Spanish, and the analysis of different methods to teach reading in Spanish.

Offered Fall, Spring

**MUL 525. Bil/Mult Teaching Methods. (3 Units)**

The study of selected bilingual approaches to, and methods of, teaching social studies, science, mathematics, and language arts. Techniques for developing bilingual and multicultural teaching materials.

Offered Fall, Spring

**MUL 533. Action Res Urban Educators. (3 Units)**

Prerequisite: GED 500 is recommended. Development of research skills needed to conduct both quantitative and qualitative action research in an urban multicultural setting. Topics include research question formation, research design identification, data gathering techniques, display and analysis of data, creating an action plan, dissemination of information.

Offered Spring

**MUL 544. Urban Materials Design & Dev. (3 Units)**

Development of skills necessary to design effective instructional materials for urban learners. Using principles of the systems approach and building upon research, theory, and best practices, students will create materials to meet the needs of ethnically and linguistically diverse learners.

Offered Infrequent

**MUL 591. Adv Multicult Studies. (3 Units)**

Designed for students completing the MA in Education, Multicultural Option. Students will synthesize and interrelate diverse areas of study which comprise the masters degree by conducting bibliographic research, writing critical essays and development training sessions for school, staff and community individuals.

Offered Fall, Spring

## Geography (GEO)

**GEO 100. Human Geography. (3 Units)**

Cultural, physical, and biological earth systems. Emphasizes human geography and adaptation to physical habitats.

Offered Fall, Spring, All terms

**GEO 200. Physical Geography. (3 Units)**

Classical natural systems, including earth-sun relationships, atmospheric flows, terrestrial biogeography, landforms, and processes of change; introduction to modern monitoring methods using maps, satellite reconnaissance, and geographic information systems.

Offered Fall, Spring

**GEO 305. Cartography. (3 Units)**

Principles, techniques, design and production of maps and graphs for data presentation. One hour of lecture and six hours of lab per week.

Offered Spring even

**GEO 310. Geomorphology. (3 Units)**

Prerequisite: EAR 100 or GEO 200 is required. Study of landforms created by geologic, volcanic, weathering, fluvial, karst, coastal and other processes acting on the land surface and ocean floor.

Offered Fall odd

**GEO 315. The Weather. (3 Units)**

Structure of the atmosphere, planetary circulations, and storms of all latitudes. Types of clouds, radiation, humidity, precipitation, and optical phenomena. El Niño-Southern Oscillation and global teleconnections.

Two hours of lecture and three hours of laboratory per week.

Offered Fall odd

**GEO 318. Cultural Pluralism The Human Environment: Methods of Knowledge and Truth. (3 Units)**

Prerequisites: Completion of Lower Division General Education. Analysis of cultural diversity and the process of cultural interaction, inter-ethnic relations and social integration on the community, national and international levels with emphasis on people's knowledge of the natural world.

Offered Fall, Spring

**GEO 336. Land Use. (3 Units)**

Sequential, compatible, and conflicting land uses. Zoning and regulation. Impacts of public and private uses. Social and economic benefits from alternative land use.

Offered Infrequent

**GEO 350. World Geography. (3 Units)**

Study of the world's regions: population distribution, landforms and natural resources, urban and non-urban relationships, connections of trade and transportation, plus selected case studies involving water resources, boundaries and environmental impacts.

Offered Fall, Spring

**GEO 357. Urban Environmental Geography. (3 Units)**

A survey of key environmental issues affecting Los Angeles and other cities with special emphasis on environmental policy and local ordinances designed to mitigate urban environmental issues including air pollution, water resources, park and waste management.

Offered Fall even

**GEO 359. Geography Of California. (3 Units)**

The physical, cultural and regional geography of California. The land and its modifications. Spatial distribution of resources. Population, migration and urbanization. Problems and prospects.

Offered Infrequent

**GEO 360. North America. (3 Units)**

Physical, regional and cultural geography of the United States, Canada and Mexico. Emphasizes human-environment interaction, contemporary patterns of population distribution, resource exploitation, transportation, and agricultural and industrial production.

Offered Infrequent

**GEO 370. Numerical Methods in Geography. (3 Units)**

Prerequisites: CSC 101 and MAT 009 (or equivalents). Principles of data reduction and analysis in the natural sciences. Practical techniques to understand spatial data sets using computer software. Topics include matrices, summary statistics, distributions, transformations, hypothesis testing, contouring, regression and curve-fitting.

Offered Spring odd

**GEO 380. Biogeography. (3 Units)**

The distribution of plant and animal species with emphasis on native plant and animal populations in Southern California and recent changes to the region's flora and fauna.

Offered Fall odd

**GEO 405. Advanced Cartography. (3 Units)**

Prerequisite: GEO 305 or equivalent is recommended. Planning and preparing maps, graphics, photographs, and models. One hour of lecture and six hours of lab per week.

Offered Spring even

**GEO 408. Remote Sensing and Image Processing. (3 Units)**

Interpretation of physical and cultural features, resources, environmental factors from photographic and specific sensor imagery. One hour of lecture and six hours of activity per week.

Offered Spring odd

**GEO 412. Rivers and Streams. (3 Units)**

Geographic inventory of global, state and national water resources. Drainage networks, streamflow measurements and flooding. Waterfalls, rapids, river conservation and dam case studies. Features field trip.

Offered Spring even

**GEO 415. Geographic Information Systems. (3 Units)**

Prerequisites: Basic computer knowledge, CSC 101 or equivalent. Techniques of data acquisition, processing, analysis and display as pertain to geographic information systems. Includes practical applications based on various forms of geographically referenced data. One hour of lecture and six hours of laboratory per week.

Offered Fall

**GEO 416. Earth's Climates. (3 Units)**

Prerequisite: GEO 200 is required. Characteristics and classifications for Earth's climates, with emphasis on the physical geographic reasons for their distribution patterns, as well as the biomes associated with each climate zone. The influence of climate zones on agriculture, diet, dress, and lifestyle. Physical and biological proxies for climate data, and historical and current trends in global climate.

Offered Spring odd

**GEO 420. Natural Resources. (3 Units)**

Atmospheric, hydrologic, ecologic and geologic principles; economic and environmental considerations in air, water, soil, food, timber, wildlife, nonmetallic and metallic resources.

Offered Fall even

**GEO 433. Environmental Analysis and Planning. (3 Units)**

Federal and State requirements, required inputs, presentation formats, procedures for review and acceptance of environmental reports. Methods of assessing air quality, noise, water pollution and traffic problems.

Offered Spring even, All terms

**GEO 494. Independent Study. (1-3 Units)**

Prerequisite: Consent of instructor. Independent study of a particular geographic or environmental problem under the supervision of a Geography faculty member

Offered Fall, Spring

**GEO 495. Special Topics In Geography. (3 Units)**

Selected topics in Geography with course content to be determined by instructor. Repeatable course.

Offered As needed

**GEO 498. Directed Research. (1-3 Units)**

Prerequisite: Consent of instructor. Research of a particular geographic or environmental problem under the direction of a Geography faculty member. CR/NC grading.

Offered Fall, Spring

## Gerontology (GRN)

**GRN 514. Intro to Social Gerontology. (3 Units)**

Offered Infrequent

**GRN 541. The Older Woman. (3 Units)**

Offered Infrequent

**GRN 543. Lesbian and Gay Aging. (3 Units)**

Offered Infrequent

**GRN 550. Theories Of Gerontology. (3 Units)**

Offered Spring

**GRN 552. Seminar in Organiz Admin. (3 Units)**

Offered Fall

**GRN 555. Soc Pol Econ of Aging. (3 Units)**

Offered As needed

**GRN 558. Life Opt & Ret Plan. (3 Units)**

Offered As needed

**GRN 562. counseling the Older Adult. (3 Units)**

Offered Infrequent

**GRN 563. The Older Adult. (3 Units)**

Offered Fall

**GRN 564. Nutrition and the Mature Adult. (3 Units)**

Offered Infrequent

**GRN 565. Long-Term Care For Elder. (3 Units)**

Offered Summer

**GRN 567. Death & Dying. (3 Units)**

Offered As needed

**GRN 595. Special Topics in Gerontology. (1-3 Units)**

Offered As needed

**GRN 596. Internship in Gerontology. (3 Units)**

Offered Infrequent

**GRN 597. Directed Reading. (3 Units)**

Offered Spring

**GRN 598. Directed Research. (3 Units)**

Offered Fall, Spring

**GRN 599S. Thesis or Project. (3 Units)**

Offered Fall, Spring

**GRN 600S. Graduate Continuation. (1 Units)**

Offered Fall, Spring

## Graduate Education (GED)

### GED 500. Research Methods in Education. (3 Units)

Examination of assumptions and techniques of educational research. Review of pertinent research studies emphasizing their applicability to educational problems. Statistical concepts, research methodology and computer applications are included.

Offered Fall, Spring

### GED 501. Seminar in Learning and Development. (3 Units)

Theory, research and practice related to learning and development. Emphasis on biological and psychological factors in individual differences. Includes study of affective and cognitive development. Three hours of seminar per week.

Offered Fall, Spring

### GED 503. Socio-Cultural Issues in Education. (3 Units)

Examines the total process of socialization and the effects of cultural determinants on human development and learning. Considers the school as an agent of socialization. Change agent role of school personnel is explored.

Offered Fall, Spring

### GED 512. Values And Teaching. (3 Units)

Exploration of philosophical literature as it relates to values in education. Development of values from early childhood to adolescence. Exploration of personal values. Methods and procedures for teaching values in the classroom.

Offered Infrequent

### GED 548. Effective College Teaching. (3 Units)

Study of research, theory, and practices associated with teaching and learning processes within the community college system. Topics include course planning and organization, student diversity, teaching and student retention, and instructional technology. Required Text: Tools for Teaching

Offered Infrequent

### GED 549. The Community College. (2 Units)

An overview of the history, mission and function of the community college. Topics include this history of higher education, the role of the community college, student characteristics, curriculum, finance, governance, articulations and the California Master Plan. Required Text: The American Community College

Offered Infrequent

### GED 550. Leadership in Higher Education. (3 Units)

Corequisite: GED 551 is recommended. Focuses on leadership theory, models, practices, governance, and management processes, leadership perspectives and theory applicable to higher education; addresses the complex social and political landscape and current and future trends of higher education.

Offered Fall

### GED 551. Legal Issues in Higher Education. (3 Units)

Co-requisite: GED 550 is recommended. Addresses laws, policies, and legal issues pertaining to teaching, learning, and administrative environments in higher education and discusses ethical and legal principles applicable to their resolution; considers the policy issues which impact the application of law in higher education.

Offered All terms, Fall

### GED 552. Higher Education Finance. (3 Units)

Prerequisites: GED 550 and GED 551 are recommended. Co-requisite: GED 553 is recommended. Examines current financial, economic, regulatory, and budget issues within higher education. Primary political, regulatory, economic and social influences on higher education, as well as revenue/expenditure streams, financial planning, analysis, and management are explored at national, state, and institutional levels.

Offered All terms, Spring

### GED 553. Diversity and Inclusion in Higher Education. (3 Units)

Prerequisites: GED 550 and GED 551 are recommended. Corequisite: GED 552 is recommended. Explores issues of diversity, inclusion, equity, and social justice in higher education; focuses on theory, major concepts, and best practices as they inform policy, practice and leadership within higher education.

Offered All terms, Spring

### GED 592. Education Coursework Synthesis. (3 Units)

Designed to assist the graduate student completing the M.A. in education to integrate previous course work and to research new material in preparation for the master's exam. For all options. May not be used as credit toward the M.A. CR/NC grading. Three hours of seminar per week.

Offered Infrequent

### GED 594. Independent Study. (1-3 Units)

Independent study undertaken under the supervision of a faculty member. Repeatable course.

Offered Fall, Spring

### GED 595. Special Top:. (1-3 Units)

Topics vary by section and semester. See class schedule for title and prerequisites. Repeatable course. Three hours of seminar per week.

Offered Infrequent

### GED 599. Thesis. (1-6 Units)

Prerequisite: Consent of Advisor. The student will execute an individually planned research effort or a creative project. Students work under individual supervision with assigned faculty. May be repeated up to six units.

Offered Infrequent

### GED 600. Grad Continuation Course. (1 Units)

Graduate students who have completed their course work but not their thesis, project, or comprehensive examination, or who have other requirements remaining for the completion their degree, may maintain continuous attendance by enrolling in this course. Signature of graduate program coordinator required.

Offered Fall, Spring, Summer

## Health Science (HEA)

### HEA 100. Health & Lifestyles. (3 Units)

To familiarize the student with relationships among the physical, social and psychological aspects of health, which include: self-care, prevention and analysis of personal health problems through participation in self-assessment techniques. Topics include the relationship of lifestyles to nutrition, stress, physical fitness, death and dying, and mental illness.

Offered Fall, Spring, All terms

### HEA 104. Food, Health and Environment. (3 Units)

Explores the links among food, the environment and health. Contributions of social trends and government policies to the current state of health, disease and environmental impact of food systems will be examined.

Offered Fall, Spring

**HEA 195. Special Topics Health Science. (1-3 Units)**

Study of special interest for students in the selected area of study. Topic and content will vary as announced.

Offered Infrequent

**HEA 201. Healthcare Systems and Perspectives. (3 Units)**

Examination of healthcare delivery systems and personal health as integrated physiological, social, psychological processes. Topics include role of healthcare providers; major healthcare organizations; contemporary healthcare issues; interactions of healthcare and physical environmental changes which influence health of the whole person.

Offered Fall, Spring

**HEA 280. Orientation and Elementary Radiation Protection. (1 Units)**

Prerequisite: Admission to the Radiologic Technology Option. Orientation to applied medicine, hospitals and radiology departments. Introduces students to overall view of radiology and ethical principles. Basic radiation protection instruction to allow students to begin the clinical practicum.

Offered Fall

**HEA 281. Medical Terminology: Radiology. (1 Units)**

Prerequisite: Admission to the Radiologic Technology Option. Programmed approach to general medical terminology with emphasis on radiology and applied specialties. Review of common medical terms, prefixes, suffixes and roots.

Offered Fall

**HEA 287. Clinical Practicum I. (1 Units)**

Prerequisite: Admission to the Radiologic Technology Option. Supervised Clinical rotations through support areas of radiology department: filerooms, darkrooms, patient transport and scheduling. Introduction to hospital environment and health care team. Film critiques. Practicum 280 hours.

Offered Fall

**HEA 300. Health in Public Education. (3 Units)**

Prerequisite: HEA 100 or equivalent is recommended. Health education required course for the professional multiple or single-subject, clear credential teaching applicants. Covers all topics designated in the Health Framework for California, including personal health, family health, nutrition, the physiological and sociological effects of substance abuse, cardiopulmonary resuscitation and child abuse.

Offered Fall, Spring

**HEA 309. Mapping Public Health. (3 Units)**

Introduction to Geographic Information Systems using ArcGIS Online for Healthcare Professionals. The course allows students to interpret geographic patterns/address public health problems for policy planning. Basic concepts include population demographics, health services, analyzing environmental factors, data interpretation, and data analysis.

Offered Fall, Spring

**HEA 312. Intro To Public Health. (3 Units)**

Prerequisite: HEA 201 or concurrent enrollment is required. Nature, transmission, and control of disease from a public health perspective: Historical background, current problems, trends in prevention and control, and applications to health care planning. Students must demonstrate proficiency in the English language by successfully completing oral and written assignments.

Offered Fall, Spring

**HEA 313. Introduction to Biostatistics. (3 Units)**

Prerequisite: HEA 201 (or concurrent enrollment) and MAT 131/132 are required. Introduction to the basic concepts of biostatistics and their application and interpretation. Topics include descriptive statistics, graphics, diagnostic tests, probability distributions, inference, tests of significance, association, linear and logistic regression, and life tables.

Offered Fall

**HEA 314. Health Behavior. (3 Units)**

Prerequisite: HEA 201 (or concurrent enrollment) is required. Current concepts of the behavioral sciences in the health field with specific application to ethnically and culturally diverse urban communities. Students must demonstrate proficiency in the English language by successfully completing oral and written assignments.

Offered Fall, Spring

**HEA 315. Interpersonal Skills in Health Communication. (3 Units)**

Prerequisite: HEA 201 (or concurrent enrollment) is required. Fundamentals, principles, and skills of interpersonal and group processes in health related occupations. Special emphasis on theory and techniques of interviewing, small group dynamics, crisis intervention and interpersonal management skills in ethnically and culturally diverse urban settings. Students must demonstrate proficiency in the English language by successfully completing oral and written assignments.

Offered Fall, Spring

**HEA 316. Introduction to Epidemiology. (3 Units)**

Prerequisite: HEA 201. Principles of epidemiology are introduced in the context of interpreting studies of health in human populations within their socio-cultural setting and diverse environments. Concepts addressing the design, implementation, analysis and interpretation of epidemiological studies are covered.

Offered All terms, Fall, Spring

**HEA 318. Health Services Management. (3 Units)**

Prerequisite: HEA 201 is required. Concepts, issues, and skills in administration and management of a health care unit, including personnel, finances, equipment, supplies, and facilities. Students must demonstrate proficiency in the English language by successfully completing oral and written assignments.

Offered Fall, Spring

**HEA 319. Leadership in Healthcare. (3 Units)**

Prerequisite: HEA 201 is required. Focuses on leadership theory and its application to the healthcare setting. Leadership concepts include traits, situations, communication, power, vision, integrity, emotional intelligence, and courage. Provides an understanding of theory and research, as well as skills and self insight to become effective leaders.

Offered Spring

**HEA 320. Contemporary Health and Disease. (3 Units)**

Prerequisites: HEA 201 and BIO 102 are required. Through the natural and social sciences, addresses infectious and non-infectious diseases across the lifespan, their causative factors, disease occurrence patterns, risk factors, symptoms, prevention, control, and treatment methods as well as educational implications for achieving optimal community health.

Offered Spring

**HEA 371. Radiologic Technology Legal Perspectives Review. (1 Units)**

Prerequisite: Admission to Radiologic Technology Option - CRT. Explores the foundations of the radiologic technology profession from legal perspective and coordinates study of current issues, theories and techniques related to health care delivery; principles of dark room technology and radiation protection, and medical terminology.

Offered Fall, Spring

**HEA 372. Radiologic Technology History, Philosophy, Review. (1 Units)**

Prerequisite: Admission to Radiologic Technology Option - CRT. Explores the foundations of the radiologic technology profession from historical and philosophical perspectives and coordinates study of current issues, theories and techniques related to concepts and practice of fundamental patient care, radiologic exposure and routine radiologic procedures. Offered Fall, Spring

**HEA 373. Radiologic Technology Ethical Perspectives and Professional Review. (1 Units)**

Prerequisite: Admission to Radiologic Technology Option - CRT. Explores the foundations of the radiologic technology profession from an ethical perspective and coordinates study of current issues, theories and techniques related to radiographic procedures using contrast media, topographic anatomy and positioning, and routine fluoroscopic procedures. Offered Fall, Spring

**HEA 374. Radiologic Technology Political and Social Perspectives and Professional Review. (1 Units)**

Prerequisite: Admission to Radiologic Technology Option - CRT. Explores the foundations of the radiologic technology profession from a political and social perspective and coordinates study of current issues, theories and techniques related to radiation protection and federal and state regulations, radiologic physics, topographic anatomy and positioning, and routine exams in pediatrics, surgery and genitourinary room. Offered Fall, Spring

**HEA 375. Radiologic Technology Future Perspectives and Professional Review. (1 Units)**

Prerequisite: Admission to Radiologic Technology Option - CRT. Explores the future of the radiologic technology profession from a technological, as well as professional perspective and coordinates study of current issues, theories and techniques related to special radiologic procedures, sub-specialties, and departmental and administrative procedures, and senior research topics. Offered Fall, Spring

**HEA 380. Darkroom Chemistry and Techniques. (1 Units)**

Prerequisite: Admission to the Radiologic Technology Option. Darkroom construction, hand and automatic processing, film artifacts, processing aspects, and prevention. Quality control and darkroom chemistry. Offered Fall

**HEA 381. Patient Care Procedures Related to Radiology. (2 Units)**

Prerequisite: Admission to the Radiologic Technology Option. Introduction to fundamental patient care procedures and principles in radiology departments: patient care/handling, body mechanics, aseptic technique, emergency procedures and use/care support equipment in preparation for patient contact. Offered Fall

**HEA 382. Principles of Radiographic Exposure. (3 Units)**

Prerequisite: Admission to the Radiologic Technology Option. Basic radiographic principles: image formation, intensifying screens, factors affecting quality, calibration, equipment design/function, filters, electromagnetic radiation and exposure factors. Teaches mechanics of performing examinations. Offered Fall

**HEA 383. Common Radiographic Procedures Using Contrast Media. (2 Units)**

Prerequisite: Admission to the Radiologic Technology Option. Positioning and exposure techniques for contrast studies (esophograms, barium enemas, etc.) fluoroscopic techniques. Introduction to the uses, contraindications, and pharmacology of contrast media. Offered Spring

**HEA 384. Topogr Anatomy & Position I. (3 Units)**

Prerequisite: Admission to the Radiologic Technology Option. Introduces topographic anatomy and positioning procedures necessary to produce diagnostic radiographs of the entire body (except the skull). Exposure control techniques and exam indications. Offered Spring

**HEA 385. Radiation Protection. (3 Units)**

Prerequisite: Admission to the Radiologic Technology Option. Principles of radiation safety, biological effects, x-ray production, and radiation detection devices. Emphasis on federal and state regulations. Offered Fall

**HEA 387. Clinical Practicum II. (3 Units)**

Prerequisite: Admission to the Radiologic Technology Option. Supervised rotations through routine diagnostic rooms. Perform radiologic examinations on patients under direct supervision of a technologist. These will include x-rays and film critiques of the thoracic and appendicular skeleton. Rotation through emergency rooms, orthopedics, and portable radiography. Practicum 580 hours. Offered Fall

**HEA 388. Clinical Practicum III. (3 Units)**

Prerequisite: Admission to the Radiologic Technology Option. Supervised rotation through routine radiographic/fluoroscopic rooms, including surgery. Perform routine diagnostic examinations (except skull), fluoroscopic and intra-operative exams. Weekend rotations begin. Film critiques. Practicum 580 hours. Offered Spring

**HEA 395. Special Topics in Health Science. (1-3 Units)**

Prerequisite: Consent of instructor. Study of a topic of interest to students pursuing a career in the health professions. Topic will vary as announced. One to three hours of lecture per week. Offered Fall, Spring

**HEA 410L. Coding Procedures I Lab. (0 Units)**

Offered Infrequent

**HEA 411L. Coding Procedures II Lab. (0 Units)**

Offered Infrequent

**HEA 412L. Alternative Hlth Record Sys. (0 Units)**

Offered Infrequent

**HEA 413L. Computerized Hlth Info Systems. (0 Units)**

Offered Infrequent

**HEA 414L. Hlth Info Dept Mgmt. (0 Units)**

Offered Infrequent

**HEA 435. Orthotics Soft Goods Fitters Course. (1 Units)**

Prerequisites: BIO 250 and BIO 251 are required. Comprehensive study of short-term, custom-fitted orthoses for the management of the spine, upper and lower limbs. It includes evaluation, assessment, treatment plan formulation, implementation of the plan and follow-up. Fittings of selected orthoses are included. Offered As needed

**HEA 445. Material Science and Laboratory Skills. (2 Units)**

Prerequisites: BIO 250 and BIO 251 are required. Study of various chemical and physical properties of materials and the relationship and implications of those properties in orthotic-prosthetic design and fabrication. Development of specific laboratory competencies on O & P tools, techniques, and materials.

Offered As needed

**HEA 455. Applied Anatomy. (1 Units)**

Prerequisites: BIO 250 and BIO 251 are required. A focused course in human anatomy that uses a combined regional and systemic approach to examine the relationships and organization of the major structures within the body as they relate to Orthotic and Prosthetic application and design.

Offered As needed

**HEA 460. Comm Health Agencies. (3 Units)**

Prerequisite: HEA 201 is required. Examination and evaluation of state, federal, local and community health agencies and programs. Survey and analyze community level drug, alcohol, communicable disease, and mental health problems and programs. Students must demonstrate proficiency in the English language by successfully completing oral and written assignments.

Offered Fall

**HEA 461. Community Health Needs Assessment and Program Planning. (3 Units)**

Prerequisites: HEA 314, HEA 316, HEA 462, and HEA 479 are required. Examination of approaches for conducting community health needs assessments and planning of health intervention programs.

Offered Spring

**HEA 462. Methods in Community Health Education. (3 Units)**

Prerequisite: HEA 201 is required. Introduces principles and theories of learner-centered education to promote community health. Includes assessment of learning environment; development of curriculum and teaching plans; teaching/learning strategies, methodologies, resources; selection of aids and materials; evaluation of effectiveness. Students will plan and present lessons.

Offered Spring

**HEA 463. Health Program Implementation and Evaluation. (3 Units)**

Prerequisite: HEA 461 is required. Focuses on strategic approaches to implementation of community health promotion and disease prevention programs and evaluation of program processes and outcomes.

Offered Spring

**HEA 464. Health Educator as Community Resource and Advocate. (3 Units)**

Prerequisite: HEA 201 is required. Emphasizes role of community organizing in engaging diverse communities to advance conditions in which people can be healthy. Examines role of health educators, grassroot activists, and others in stimulating social, political, and economic approaches to promote community health.

Offered Spring

**HEA 465. Introduction to Global Health. (3 Units)**

Prerequisite: HEA 201 is required. Introduces approaches used by various countries in solving their health and medical care problems, and the role of major international health organizations. Analyzes some of the current important issues in international health.

Offered Spring

**HEA 466. Environmental Health Problems. (3 Units)**

Prerequisite: HEA 201 is required. Impact of human activities on environmental quality and resulting environmental health problems, especially local issues, public and private responses to them. Design, carry out, and analyze a study and prepare a written report of results. Students must demonstrate proficiency in the English language by successfully completing oral and written assignments.

Offered Fall

**HEA 467. Health Policy Issues and Analysis. (3 Units)**

Prerequisite: HEA 201 is required. Examination of the major current health policy issues in the U.S. with emphasis on the application of conceptual and procedural policy analysis tools useful for defining policy problems, assessing alternative solutions, and examining effects of health policies.

Offered Fall

**HEA 468. Multicultural Health. (3 Units)**

Prerequisite: SOC 101 and ANT 101 are recommended. Study of social, cultural, psychological, and biological factors affecting the distribution of health, wellness, and illness in various ethnic, cultural, and racial groups. Special attention is given to health issues of groups with special physical and mental health needs, including underserved and immigrant populations residing in California.

Offered Fall, Spring

**HEA 469. Management Sciences in Healthcare Organizations. (3 Units)**

Prerequisites: ECO 210, HEA 313 and HEA 318 are required. Drawing on economics, statistics, operations research, decision analysis, systems analysis, and operations management, provides an introduction to selected quantitative techniques and analytical tools applicable to improvement of management problem solving and processes, and the organizational delivery of health services.

Offered Fall, Spring

**HEA 470. Legal Issues in the Health Sciences. (3 Units)**

Examination of new legislation, exploration of various health law issues that impact hospitals, individuals and groups within the health care sector; including informed consent, regulation/antitrust, licensure and credentialing, and medical ethics. Students must demonstrate proficiency in the English language by successfully completing oral and written assignments.

Offered Spring

**HEA 471. Law, Ethics and Social Values in Healthcare. (3 Units)**

Prerequisite: HEA 201 is required. Overview of legal and ethical issues faced by society, healthcare consumers, providers, and administrators within the context of social values. Introduction to legal and ethical decision-making at the governmental, institutional, and practitioner levels.

Offered Fall, Spring

**HEA 472. Survey of Healthcare Finance. (3 Units)**

Prerequisites: HEA 201, ACC 230 and ECO 210 are required. Concepts and issues in financial management of healthcare organizations. Use of tools for cost effective decision-making and learn to recognize and deal with financial components of decision-making in healthcare organizations. Students must demonstrate proficiency in the English language by successfully completing oral and written assignments.

Offered Fall



**HEA 474. Health Care Ethics. (3 Units)**

Prerequisites: HSC 201; HEA 470 and HEA 472 are recommended. Intensive study of ethical issues raised in provision of health care and health care administration. Current and historical arguments surrounding ethical issues will be discussed and analyzed. Students will learn to recognize ethical dilemmas, apply ethical principles and resolve the dilemmas.

Offered Infrequent

**HEA 475. Human Resources Management in Healthcare. (3 Units)**

Emphasis on key concepts of human resources management, identifying importance of human resources in healthcare organizations, establishing need for relating strategic planning of organizations to their human resource planning, and on examining role of organizational culture in behavior and productivity.

Offered Spring

**HEA 476. Managing Health Information Systems. (3 Units)**

Prerequisites: HEA 201 and HEA 318 are required. Conceptual and practical aspects in the analysis, development, and utilization of health information technology and systems having clinical and business applications with the focus being on improving organizational performance.

Offered Spring

**HEA 477. Long-Term Care Administration. (3 Units)**

Prerequisite: HEA 201 is required. History, development, trends; major policy issues; organization of systems; principles and techniques of administration, including managing the environment of care and client/resident care services; management of institutional and community-based programs.

Offered Spring

**HEA 478. Strategic Management in Health Care. (3 Units)**

Prerequisites: HEA 318 and HEA 472 are required. Methods for strategic planning and marketing of health services organizations. Techniques for determining strategies for unique services, integration of strategy, structure, and administrative systems.

Offered Spring

**HEA 479. Research Methods in Health Sciences. (3 Units)**

Prerequisite: HEA 313 is required. Overview of research methods in health sciences, including study design, sampling, data collection and analysis, statistical techniques, and report writing. Application of research methods to development of research proposal. Critical analysis of literature. Examination of relevance of data to decision making.

Offered Fall, Spring

**HEA 480. Radiological Physics. (2 Units)**

Prerequisite: Admission to the Radiologic Technology Option. Emphasis of health and safety on electric circuits, generators, x-ray circuits, x-ray physics.

Offered Fall, Spring

**HEA 481. Topographic Anatomy and Positioning II. (3 Units)**

Prerequisite: Admission to the Radiologic Technology Option. Introduces topographic anatomy and positioning procedures necessary to produce diagnostic radiographs of the skull. Exposure control techniques and exam indications included.

Offered Fall

**HEA 482. Special Radiographic Procedures. (2 Units)**

Prerequisite: Admission to the Radiologic Technology Option or consent of instructor. Radiographic anatomy and physiology, positioning, film evaluation and specialized equipment applying to highly technical exams (interventional radiography, tomography, CT and MRI). Management of acutely ill patients. Fee required.

Offered Spring

**HEA 483. Sub-Specialties in Radiology. (2 Units)**

Prerequisite: Admission to the Radiologic Technology Option. Introduction to principles of pediatric radiography, intraoral radiography, radiation therapy and nuclear medicine. Image formation, equipment, techniques and handling of radiation and radionucleotides.

Offered Spring

**HEA 485. Departmental Administrative and Office Procedures, Computer Literacy. (1 Units)**

Prerequisite: Admission to the Radiologic Technology Option. Introduction to organization and budgeting of a radiology department; use of computers in radiology and basic computer principles.

Offered Spring

**HEA 487. Clinical Practicum IV. (1 Units)**

Prerequisite: Admission to the Radiologic Technology Option. Supervised rotations through routine radiographic/fluoroscopic, pediatric, surgical and genitourinary rooms. Performs routine exams and film critiques (except skull) in all areas. Practicum 280 hours.

Offered Fall

**HEA 488. Clinical Practicum V. (3 Units)**

Prerequisite: Admission to the Radiologic Technology Option. Supervised rotations through all areas of routine radiography, with student performing all routine diagnostic fluoroscopic and radiographic exams and film critiques, including skull radiography. Student will be able to perform radiologic procedures independently. Practicum 580 hours.

Offered Fall

**HEA 489. Clinical Practicum VI. (3 Units)**

Prerequisite: Admission to the Radiologic Technology Option. Supervised rotations through special radiographic procedures, radiation therapy, magnetic resonance imaging, nuclear medicine, mammography and ultrasound. Continued application in routine radiography, fluoroscopy and film critique. Perform radiologic procedures independently. Practicum 580 hours.

Offered Spring

**HEA 490. Health Science Senior Seminar. (1-3 Units)**

Prerequisites: Senior standing and HEA 479 are required of all majors. For Community Health Option: HEA 461, HEA 463 and HEA 468 are required. For Health Care Management Option: HEA 467 and HEA 478 are required. Undertake in-depth study employing concepts and principles learned in Health Science core and options. Must demonstrate analytic thinking skills and ability to synthesize disparate area knowledge in the development of an original research project. Proficiency in written and oral English language required.

Offered Fall, Spring

**HEA 491. Res Sem Orth/Prosth I. (1 Units)**

Prerequisites: HEA 440 and HEA 450. Background literature review, hypothesis formation, study design, development of data collection instruments and data collection as phase one of orthotic/prosthetic research project. Students must demonstrate proficiency in the English language by successfully completing oral and written assignments. One hour of seminar per week. Fee required.

Offered Fall, Spring

**HEA 492. Research & Seminar in O&P. (2 Units)**

Prerequisite: MAT 131, or consent of instructor. Overview of the principles and applications of research. Examination of testing and improving patient outcomes. Basic concepts in research design, including literature review, identification of research question, development of data collection instruments, data analysis. Write and present a research proposal. Offered Fall, Spring

**HEA 493S. Preceptorship in O&P. (3 Units)**

Prerequisite: Consent of instructor. 125 hour placement in a private sector or institutional facility. Repeatable for credit up to 8 units. Fee required. Offered Fall, Spring

**HEA 494. Independent Study in Health Science. (1-3 Units)**

Prerequisite: Consent of instructor. In-depth study of a health sciences topic under the supervision of a health sciences instructor. Requires independent study contract to be completed before enrollment. Repeatable course. Offered All terms, Fall, Spring

**HEA 495. Spec Topics in Health Sciences. (1-3 Units)**

Prerequisites: HEA 201; Consent of instructor. Intensive study of a Health Sciences topic of special interest to students pursuing a career in the health professions. Topic will vary as announced. One to three hours of lecture per week. Offered All terms, Fall, Spring

**HEA 496. Internship in Health Sciences. (1-6 Units)**

Must be Health Science major; must be a senior; must be accepted in the internship program; consent of instructor required. Corequisite: HEA 497. Students will be directed to health care facilities to serve as interns. Regular meetings are scheduled with a faculty internship supervisor to assess student progress. Up to forty hours per week. Offered Fall, Spring

**HEA 497. Internship Seminar. (1 Units)**

Corequisite: HEA 496 is required. Consent of instructor is required. Students discuss and conduct in-depth analysis of their personal and professional growth and problem-solving skills in relation to their internship experiences. Offered Fall, Spring

**HEA 498. Dir. Research in Hlth. Sci.. (1-3 Units)**

Prerequisites: HEA 201 and consent of instructor. Advanced topics and research on specific subjects in Health Sciences. Topics of research to be approved and directed by an instructor. Offered Fall, Spring

**HEA 499. Senior Project Radiology. (1 Units)**

Prerequisite: Admission to the Radiologic Technology Option. Individual research in radiology with student class presentation: learn presentation skills, use of A-V methods, oral skills, and written presentation. Students must demonstrate proficiency in the English language by successfully completing oral and written assignments. One hour of seminar activity per week. Repeatable for credit for up to one unit. Offered Fall, Spring

**HEA 508. Clinical Pathology for Orthotics and Prosthetics. (3 Units)**

Prerequisites: HEA 455 or consent of instructor. Examination of the etiology, clinical signs and symptoms, treatment, prognosis and social implications of pathological conditions associated with numerous diseases and traumatic injuries that require orthotic and/or prosthetic intervention. Includes introductory Neuroscience and neural disorders encountered in practice. Offered Fall

**HEA 516. Clinical Evaluation Tools in Orthotics and Prosthetics. (2 Units)**

Prerequisite: HEA 455 or consent of instructor is required. Examines the variety of standardized clinical assessment tools to be appropriately used in concert with the clinical examination, as well as evidence from literature, to determine the need for orthotic-prosthetic services and design optimal intervention strategies. Offered Fall

**HEA 535. Practice Management for Orthotics and Prosthetics. (1 Units)**

Prerequisite: HSC 500 is required. Addresses general business practice within orthotic-prosthetic practice, including its role in clinical decision making, documentation, time management and compliance with regulatory agencies, reimbursement and human resource management. Offered Summer

**HEA 536. Psychological Aspects of Disability. (1 Units)**

Prerequisite: HSC 500 is required. Application of psychological concepts to illness and disability. Awareness of social supports and constraints, activities across the lifespan, and integration of these factors into clinical practice. Strategies for dealing with patients in distress, and symptoms requiring referral to other professionals. Offered Summer

**HEA 540. Orthotic Management of the Upper Limb. (3 Units)**

Prerequisites: HEA 508, HEA 516 and HEA 545 are required. Comprehensive study of short-and long-term upper limb orthotic management. Includes evaluation; assessment; treatment plan formulation; implementation and follow-up. Fabrication and fitting of: finger, hand, wrist, forearm, elbow, humeral and shoulder orthoses. Offered Spring

**HEA 541. Orthotic Management of the Lower Limb I. (4 Units)**

Prerequisites: HEA 508, HEA 516 and HEA 545 are required. Comprehensive study of lower limb orthotic management distal to the knee. Includes evaluation and assessment; treatment plan formulation, follow-up and patient education; biomechanics; gait analysis and motor disability. Fabrication and fitting of foot and ankle-foot orthoses. Offered Spring

**HEA 542. Orthotic Management of the Lower Limb II. (5 Units)**

Prerequisite: HEA 541 is required. Comprehensive study of lower limb orthotic patient management proximal to the knee. Includes evaluation and assessment; treatment plan formulation, follow-up and patient education; as well as biomechanics, gait analysis and motor disability. Fabrication and fitting of selected orthoses. Offered Fall

**HEA 544. Orthotic Management of the Spine. (4 Units)**

Prerequisites: HEA 508, HEA 516 and HEA 545 are required. Comprehensive study of spinal orthotic management. Includes evaluation, assessment, treatment plan formulation, implementation of the plan, and follow-up. Fabrication and fitting of selected orthoses is included. Also, presentation of Wheelchair Seating and Cranial Remolding Helmets. Offered Fall

**HEA 545. Normal Gait and Biomechanics of Movement. (2 Units)**

Prerequisites: HEA 455 or consent of instructor. Primary areas of study will include applied anatomy, anthropometry, kinematics, and kinetics, normal human locomotion, force vectors, observational and instrumented gait analysis. Offered Fall

**HEA 547. Gait Analysis and Pathomechanics for O & P. (1 Units)**

Prerequisite: HEA 545 or consent of instructor. Examination and assessment of how and why an individual's gait deviates from normal human locomotion when they are utilizing an orthotic or prosthetic device designed for application distal to the knee.  
Offered Fall

**HEA 551. Prosthetic Management of the Upper Limb. (3 Units)**

Prerequisites: HEA 508, HEA 516 and HEA 545 are required.  
Comprehensive study of upper limb prosthetic management, including transradial, transhumeral, partial hand, elbow and shoulder disarticulation amputations. Includes evaluation; assessment; treatment plan formulation, implementation and follow-up to promote positive outcomes using evidence-based practice.  
Offered Spring

**HEA 552. Prosthetic Management of the Lower Limb I. (4 Units)**

Prerequisites: HEA 508, HEA 516, and HEA 545 are required. Management of amputations distal to the knee, including Transtibial, Symes and Partial Foot. Patient assessment, formulation of treatment plans, and implementation through measurement, casting, fabrication, and fitting of patients. Pathologies, surgical procedures, components, biomechanics, gait and outcome measures.  
Offered Spring

**HEA 554. Prosthetic Management of the Lower Limb II. (5 Units)**

Prerequisite: HEA 552 is required. Management of amputations proximal to the knee, including Knee Disarticulation, Trans Femoral and Hip Disarticulation. Includes all aspects of patient assessment, formulation of treatment plans, and implementation through measurement, casting, fabrication and fitting to promote positive outcomes.  
Offered Spring

**HEA 580. Applied Technologies in Orthotics and Prosthetics. (1 Units)**

Prerequisite: HSC 500 is required. Integration of non-traditional techniques in the measurement, fabrication, and delivery of devices in contemporary O & P practice. This includes knowledge of computer aided design, electrical circuitry, and biomechanical and biomedical engineering concepts.  
Offered Summer

**HEA 592. Subspecialties in Orthotics and Prosthetics. (2 Units)**

Prerequisites: HEA 541, HEA 542, HEA 551 and HEA 552 are required, or consent of instructor. Student driven course in areas of advanced skills, infrequently used devices, or unique goals in O & P. Lecture and demonstration with pediatric, geriatric, recreational and special use clients. Development of evaluation, assessment, and treatment plans through case studies and live interaction.  
Offered As needed

**HEA 593. Culminating Activity in Orthotics and Prosthetics. (3 Units)**

Prerequisites: Advancement to Candidacy MS in Health Science: Orthotics and Prosthetics Option requires a portfolio as the culminating experience. The portfolio is an accumulation of a direct research paper, practical exams, written and written simulation exams, oral exams, gait analysis and clinical patient scenarios.  
Offered As needed

**HEA 596. Clinical Practicum in Orthotics and Prosthetics. (1-4 Units)**

Prerequisites: HEA 508 and HEA 516 are required. Fieldwork and in-depth study of discipline related topics under the direction of Division of Health Sciences faculty member. Repeatable for credit for a maximum of eleven (11) units.  
Offered Fall, Spring, Summer

## Health Sciences (HSC)

**HSC 491. Management in Health Sciences. (3 Units)**

Prerequisite: HEA 201. Presentation and discussion of current concepts and trends in the administration and management of the health sciences. Educational/instructional methodologies. Student projects, written and oral.  
Offered Fall, Spring

**HSC 500. Health Care Leadership & Mgt. (3 Units)**

Examines the structure, management and interrelationship of health care organizations across the spectrum of care in light of classical and contemporary management theory, and provides understanding of the unique relationship within and between health care organizations and professionals.  
Offered Fall

**HSC 501. Advanced Research Methods in Health Science. (1-3 Units)**

Prerequisites: HEA 479 or equivalent and MAT 131 or equivalent. Theory and practice of experimental, correlation and descriptive research. Computer application of statistical packages to data sets. Two hours of lecture and two hours of laboratory per week.  
Offered Fall, Spring

**HSC 502. Principles of Epidemiology. (3 Units)**

Overview of principles and methods of epidemiology and application to distribution of health and illness in society. Examines risk factors associated with incidence and prevalence of acute and chronic diseases in diverse populations.  
Offered Spring

**HSC 503. Health Prom & Disease Prev. (3 Units)**

Study of health behaviors and evaluation of community intervention strategies for the promotion of health and prevention of disease in diverse populations.  
Offered Fall, Spring

**HSC 504. Hea Policy & Adm for Hea Prof. (3 Units)**

Examination of current health policy issues and health care administrative practices for health professionals. Emphasis on health care reform, managed care, case management, personnel management, financial management, the health care team, Patient Focused Care, Continuous Quality Improvement.  
Offered Fall

**HSC 505. Teac Strat for Health Prof. (3 Units)**

Prerequisite: HSC 500. Study of effective teaching and evaluation methods in health sciences, including principles of teaching and learning, curriculum development, problem-based learning, competency-based outcomes assessment, group dynamics, and instructional media.  
Offered Fall

**HSC 506. Critical Assess of Hea Sci Lit. (3 Units)**

Prerequisites: HSC 501, or completion of HEA 479 or equivalent and MAT 131 or equivalent, and consent of instructor. Critical assessment of health literature in terms of research methods, application of research findings, and policy implications.  
Offered Fall, Spring

**HSC 507. Meas & Assess in HP Educ. (3 Units)**

Prerequisite: HSC 500. The course focuses on issues of measurement and assessment in teaching in the health professions. Emphasis is placed on approaches to testing, types of instruments, validity, reliability, and item analysis. Examines methods and approaches to evaluation of scientific research.  
Offered Fall, Spring

**HSC 508. Ethical Issues in HC Mgt. (3 Units)**

Prerequisite: HSC 500 is recommended. Review of ethical decision-making theories and moral principles related to health care organizational management, biomedical advances, end-of-life criteria, access to care, and the establishment, composition, and responsibilities of medical ethics committees and ethical codes of conduct.

Offered Spring

**HSC 509. Commun & GP Dyn in HC. (3 Units)**

Prerequisite: HSC 500 is recommended. Assists students in understanding and improving interpersonal communication skills through structured exercises in professional presentations, scientific writing, skill development in health information technologies, and interacting with health personnel and practitioners in healthcare organizations.

Offered Fall, Spring

**HSC 512. Principles of Managed Care. (3 Units)**

Prerequisite: HSC 500. Analyzes the implications to providers, consumers, and payers of managed care including the financial and operational values of capitation and other reimbursement mechanisms, medical group formation and valuation, risk assessment, and contractual issues of price, service, and payment.

Offered Fall, Spring

**HSC 515. Org Theory & Behavior in HS. (3 Units)**

Prerequisite: HSC 500; completion of core requirements is recommended. Reviews organizational design, behavior and theory as an interdisciplinary approach to understanding health service organizations. Issues of workforce diversity, organizational development, reengineering and the use of teams to improve efficiency are analyzed.

Offered Fall

**HSC 518. Fin & Cost Accounting. (3 Units)**

Prerequisite: HSC 500. Presents principles and perspectives of financial and cost management of profit and not-for-profit health care organizations with specific emphasis on the integration of contractual allowance, capitation management, cost-center accounting and reimbursement policy impact on financial management.

Offered Fall, Spring

**HSC 521. Compl Hea Law & Res. (3 Units)**

Prerequisite: HSC 500. Covers legal theories, issues, and government regulations as they pertain to management of and compliance with recognized standards of medical research and clinical trials.

Offered Fall, Spring

**HSC 524. HS Res & Funded Projects. (3 Units)**

Prerequisite: HSC 500. Analysis of funded research projects in the health sciences, including study design, sampling, data analysis and significance of the research proposal in preparing a grant application. Critical analysis of the literature and identification of appropriate funding opportunities for grant projects.

Offered Fall, Spring

**HSC 530. HC Strat Plan & Market. (3 Units)**

Prerequisite: HSC 500. Presents the principles and theoretical foundation of health care strategic and tactical planning, marketing, business development, managed care contract maximization, and financial analysis and modeling of alternative short and long-range strategies across the continuum of health care.

Offered Fall, Spring

**HSC 594. Ind Study in Health Science. (1-3 Units)**

Independent study, including research or field experience under supervision of a faculty member. Independent study contract required.

Repeatable course.

Offered Fall, Spring

**HSC 595. Special Topics. (1-3 Units)**

Advanced course of interest to graduate students in the health sciences. Specific topic and content will vary as announced. Repeatable course.

Offered Fall, Spring

**HSC 596. Pract in Prof Studies. (3 Units)**

Prerequisite: Completion of core courses. Fieldwork and in-depth study of a discipline related topic under the direction of Division of Health Sciences faculty member. Graded CR/NC only. Nine hours of laboratory per week. Repeatable for credit for up to a maximum of six units.

Offered Fall, Spring

**HSC 598. Directed Research. (1 Units)**

Research on a subject related to the option which is suitable for professional presentation or publication. Specific topic of the research must be approved and directed by an instructor. A maximum of 2 units may be applied toward the master's degree. Repeatable course.

Offered Spring, Summer

**HSC 599. Graduate Capstone Activity. (1 Units)**

Prerequisites: Advancement to Candidacy and completion of all core courses and HEA 598. Writing and presentation of a research project under supervision with assigned faculty.

Offered Fall, Spring

**HSC 600. Project Continuation Course. (1 Units)**

Students who have completed all coursework except HSC 599 Graduate Capstone Activity may maintain continuous attendance by enrolling in this course. Signature of graduate coordinator is required.

Offered Fall, Spring

## History (HIS)

**HIS 101. History Of United States. (3 Units)**

A study of the ideals, creeds, institutions, and behavior of the peoples of the United States. Meets the State requirement in U.S. History.

Offered Fall, Spring, Summer, All terms

**HIS 120. World History I. (3 Units)**

Explores the early development of societies around the world and their increasing interactions to 1500. Reviews the rise of cities and empires, and major political, social, economic and cultural developments prior to the modern period.

Offered Fall, Spring

**HIS 121. World History II. (3 Units)**

Explores the regional and global interactions and exchanges that have shaped the world since 1500. Treats the major demographic, socio-economic, cultural and political patterns and changes that distinguish the modern period in world history.

Offered Fall, Spring

**HIS 300. Theory and Practice of History. (3 Units)**

Introduces students to the theory and practice of history. Explores the major philosophies of history and reviews current trends in the field. Introduces students to disciplinary research, thinking and writing skills, including the use of library resources, the analysis and interpretation of primary and secondary sources, the forms of disciplinary composition, and documentation standards.

Offered Fall, Spring

**HIS 301. Individual, Family, and Community in Historic Perspective. (3 Units)**

Concentrates upon factors that contribute to shaping of individual, family, community, and regional history. Emphasis upon personal histories and individual relationships to immediate environment. Includes ethnic settlements, historic sites, oral histories, generations.  
Offered Fall, Spring

**HIS 302. Practicum In Applied History. (3 Units)**

Offered Fall, Spring

**HIS 305. World History for Teachers. (3 Units)**

Prerequisite: HIS 120 and HIS 121 are required. Topics in world history is taught in grades 6, 7 and 10 in California schools. Emphasizes growth of world history as a field, regional and global patterns of continuity and change, and cross-cultural exchange as a source of historical development.  
Offered Fall

**HIS 310. The Ancient World. (3 Units)**

The survey of the history of the ancient world with emphasis on the earliest civilizations of the Near East, classical Greece, and the rise and fall of the Roman Empire.  
Offered Fall

**HIS 311. Medieval Europe. (3 Units)**

Europe from the decline of Rome in the West to the fourteenth century. Political, economic, institutional, religious, and cultural changes. The fortunes of Empire and Papacy, early Islam, the Byzantine Empire, and the renaissance of the twelfth century.  
Offered Infrequent

**HIS 312. Renaissance and Reformation. (3 Units)**

The Italian Renaissance through the Thirty Years' War; the rise of national states, the Protestant revolt, the Counter-Reformation, the hegemony of Spain, and the attendant commercial revolution of the Atlantic World.  
Offered Spring

**HIS 313. The Age of Absolutism and Enlightenment. (3 Units)**

Course examines the African American experience from African slave trade through emancipation. Themes include the Atlantic Slave Trade; slavery and slave resistance; the emergence of African American culture; free black communities; black abolitionism; and black participation in the military.  
Offered Fall

**HIS 314. Emergence Modern Europe. (3 Units)**

The dissolution of traditional societies in Europe and the emergence of modern ideology, from the Enlightenment through the French and Industrial revolutions to the period of internal strife and power politics at the end of the 19th century.  
Offered Fall

**HIS 315. 20th Century Europe. (3 Units)**

The formation of present-day Europe amid continued industrialization, war, social and political ferment from the opening of the century to the present.  
Offered Spring

**HIS 318. History of Medieval Russia. (3 Units)**

Prerequisites: HIS 120 and HIS 121 are recommended. This course surveys the history of Russia from the founding of Kievan Rus' to the end of the seventeenth century. Topics include migrations of the Eastern Slavs; state formation; Russia under the Golden Horde; the history of Tsardom of Muscovy.  
Offered Fall

**HIS 319. History of Imperial Russia, 1689-1917. (3 Units)**

Prerequisite: HIS 121 is recommended. This course surveys the history of Russia from 1689 to the Russian Revolution. Topics include the impact of Peter the Great; imperial responses to revolution, nationalism, and industrialization; the birth of the Russian intelligentsia; and the origins of the Revolution.  
Offered Spring

**HIS 320. History of the USSR and Post-Soviet Russia. (3 Units)**

Prerequisite: HIS 121 is recommended. This course explores Russian history from 1917 to the present. Major topics include the origins of the Revolution; the rise of Bolshevism; the Russian Civil War; Stalinism; World War II; post-Stalin reforms; the dissolution of the USSR; and major Post-Soviet developments.  
Offered All terms, Fall

**HIS 330. US Colonial Period. (3 Units)**

The discovery, founding and expansion of colonial settlements to 1740. The relation of European institutions and plans to American ideas, experience, and reality.  
Offered Fall

**HIS 331. United States: Revolutionary and Constitutional Period. (3 Units)**

Evolution of the revolutionary movement in the North American colonies. Anglo-American imperial problems, culminating in the Confederation period and the drafting of the American Constitution, 1740 to 1789.  
Offered Spring

**HIS 332. US Early National Period. (3 Units)**

A study of the national experience from the Constitution through the era of sectional conflict. Includes expansion of the Union westward, the emergence of a national character, and sectional rivalries leading to conflict at mid-century.  
Offered Spring

**HIS 333. United States: Civil War and Reconstruction. (3 Units)**

Social, political, and economic origins of sectionalism and breakup of the Union; military campaigns and the home front in wartime; reconstruction in the South. Focus on the years 1849-1877 and their legacy to later generations.  
Offered Fall

**HIS 334. Emergence of Modern America. (3 Units)**

The triumph of the industrial revolution in the post-Civil War period and the response of agrarian and progressive protest. The rise of the United States to world power and involvement in international affairs prior to World War I.  
Offered Fall

**HIS 335. United States: War and Depression. (3 Units)**

Major developments in American life and institutions from the beginning of World War I to the end of World War II. Consideration of the social, economic, and political implications of prosperity, depression, and two world wars.  
Offered Fall

**HIS 336. United States: Recent Period. (3 Units)**

Major developments in American life and institutions since World War II. Consideration of domestic politics from Truman to Reagan, effects of mass technology, the civil rights struggle, and confrontations with the communist world.  
Offered Spring

**HIS 340. American West. (3 Units)**

Evaluates successive American wests from the pre-Columbian era to the present. Major themes include the Turner thesis, socio-economic, cultural, and political consequences of American colonization, and ways in which women, African Americans, Hispanics, and American Indians shaped the American West.

Offered Infrequent

**HIS 341. California. (3 Units)**

The social, political, and cultural history of California, from the period of Spanish exploration to the present; emphasis on adjustments of differing ethnic groups.

Offered Fall, Spring

**HIS 342. Native American History. (3 Units)**

Prerequisite: HIS 101 OR Equivalent. Survey of Native American history from the pre-contact period to the present. Examines Native histories and cultures, inter-tribal relations, European colonial and U.S. federal Indian policies, identity policies, tribal sovereignty, and modern self-determination movements.

Offered All terms, Fall

**HIS 343. African American History from Africa to Reconstruction. (3 Units)**

Traces principle economic, political and social trends in Latin America, post-independence. Considers the wide variety of local, regional, and national responses to questions about modernity, development, and social justice. Special attention paid to issues of class, race and gender.

Offered Infrequent

**HIS 344. African American History: Reconstruction to the Present. (3 Units)**

Course explores African American history from Emancipation to the present. Themes include Reconstruction; the Great Migration; the Harlem Renaissance; the Great Depression; the New Deal; World War II; the Civil Rights Movement; the Black Power Movement; and contemporary racial politics.

Offered Infrequent, All terms

**HIS 345. History of the Mexican American People I. (3 Units)**

Mexican American life to 1900, stressing the evolution of economic and political thought, social institutions, and cultural expressions.

Offered Infrequent

**HIS 346. History of the Mexican American People II. (3 Units)**

The Mexican American's contributions to the building of the Southwest; the clash between Mexicans and North Americans; the emergence of the urban Mexican American.

Offered Infrequent

**HIS 348. Labor In American Society. (3 Units)**

The role of labor in the political, economic, and social life of the U.S. , including growth of organized labor, rival ideologies, legal decisions, and contributions of various ethnic groups, from the colonial period to the present.

Offered Spring

**HIS 352. Topics in United States Foreign Relations History. (3 Units)**

Prerequisite: HIS 101 or equivalent is required. Topics in United States foreign relations history. Courses emphasize interaction of strategic, political, economic and cultural factors in policy making and implementation, as well as, impact of major international events on American and global society, economy, and government.

Offered Fall

**HIS 353. Terrorism and Totalitarianism. (3 Units)**

Prerequisite: HIS 121 is required. Introduction to history, definitions, tactics, uses, philosophical and socio-political origins of terrorism and terrorist organizations, and to political systems such as fascism and Marxism which have adopted elements of terrorism as a means of controlling populations and the political process.

Offered Infrequent

**HIS 354. History of American Immigration. (3 Units)**

Historical trends, movements, and patterns of global immigration to the United States . Topics of study include: motives for immigration; anti-immigration sentiments and activities; legal and political responses; role of distinctive cultural groups; assimilation and nonconformity.

Offered Spring

**HIS 355. American Civil Rights History. (3 Units)**

Prerequisite: ENG 110 or ENG 108/109 is required. Junior status is required. Covers the long history of civil rights in the United States from the antebellum to the present with special emphasis on the non-violent movements of the Cold War era.

Offered Fall, Spring

**HIS 356. American Environmental History: American Environment from Pre-Contact (prior to 1500) to the Present. (3 Units)**

Prerequisite: HIS 101 is required. Explores the environmental history of the continental United States from the pre-contact period (prior to 1500) to the present. Examines how humans have altered the American environment and how environmental factors have shaped the course of American history.

Offered Fall

**HIS 360. African History to the 1880's. (3 Units)**

African historiography and history to the 1880's, covering themes such as human origins, environment, trade, cultural exchanges and migrations in the Indian Ocean, Mediterranean and Atlantic Worlds, and Arab/Asia/European conquest and settlement in shaping diverse societies.

Offered Infrequent

**HIS 361. African History from the Colonial Era to the Present. (3 Units)**

African history from the 1180's to the present, including topics on European conquest, the invention of tribalism, and the creation of new settler states, nationalist movements leading to independence, and the challenges faced by post-colonial states.

Offered Infrequent

**HIS 362. Traditional China. (3 Units)**

The origins and evolution of Chinese civilization and the influence of China on East Asia prior to the 19th century Western impact.

Offered Infrequent

**HIS 363. Modern China. (3 Units)**

China from 1840 to the present. Western impact on traditional China and the Chinese response. Analysis of attempts to modernize China . A history of the Chinese communist movement since 1921 . Society, politics and culture of the People's Republic of China focusing on the era of Mao Zedong (1949-1976).

Offered Infrequent

**HIS 364. Traditional Japan. (3 Units)**

Origins and evolution of Japanese social, cultural, intellectual, and political traditions until the 19th Century Western impact. Foundation for comparison and contrast of Japan before and after the Meiji Restoration.

Offered Infrequent

**HIS 365. Modern Japan. (3 Units)**

Japan from the late Tokugawa period to the present. Western impact on traditional Japan and the Japanese response; the development of a modern state, economy, and society.

Offered Infrequent

**HIS 366. Colonial Latin America. (3 Units)**

Latin America from conquest to independence movements of the early nineteenth century. A general overview of colonial society, culture, economics, and politics. Special attention paid to issues of gender, race, and ethnicity, and questions of history and memory.

Offered Fall

**HIS 367. Modern Latin America. (3 Units)**

Offered Spring

**HIS 368. Mexico: Colonial. (3 Units)**

Explores pre-Columbian Mexican civilizations, especially the Mexica; examines Spanish conquests and the influence of race, class, and gender on the development of colonial Mexican society; contrasts northern, central and southern regions; investigates Mexican independence.

Offered Fall

**HIS 369. Mexico: National Period. (3 Units)**

Traces colonial legacies, including those of race, class and gender in post-independence Mexico; analyzes the Mexican liberal tradition, nationalism, the Mexican Revolution and late 20th Century neo-liberalism; examines US-Mexican relations; investigates socio-cultural, economic and political issues.

Offered Spring

**HIS 370. History of Early Monotheism. (3 Units)**

The origins and development of Judaism, Christianity, and Islam through 1000 C.E. Examines key historical theories and controversies, and the mutual cultural, political, economic impacts of these religions and their societies. Explores key beliefs and practices of each faith.

Offered Spring

**HIS 373. The City In History. (3 Units)**

The rise of the city from earliest times to the present tracing the establishment and growth of cities as institutions and the development of the process of urbanization; comparison of selected cities.

Offered Infrequent

**HIS 375. Pop Culture in History. (3 Units)**

Course examines how cultural producers have used various popular mediums including art, music, theater, literature, oral traditions, and televisions to articulate identities and to challenge hegemonic discourses of class, race, ethnicity, and gender as well as the structural inequalities they support. Repeatable for credit.

Offered Spring

**HIS 376. Film As History. (3 Units)**

The historical analysis of films as manuscripts and source materials for social and intellectual thought in the twentieth century. Emphasis to vary from semester to semester, for example: Film as History: The Great Depression; or Film as History: Latin America.

Offered Fall

**HIS 379. The Family In History. (3 Units)**

Family relationships, sexual attitudes, patterns of growing up and growing old in various societies, and minority groups, as they have evolved with social and economic changes in various historical contexts.

Offered Spring

**HIS 380. Women In History. (3 Units)**

Changing role of women in the family, political economy and culture of various societies. Topics vary, for example, Women in History: Sex Roles in North and South America; Women in History: Women in China ; Women in History: Sex roles and Feminism in the United States.

Offered Fall

**HIS 395. Special Topic In History.. (3 Units)**

Intensive study of a single period, area, figure, movement, or idea in history. Topic may be either departmental or interdisciplinary, but focus is historical, and may be single instructor or team taught. Example: Special Topics: Revolution.

Offered Infrequent

**HIS 400. Proseminar in History. (3 Units)**

Prerequisites: C or better in HIS 300 is required. Provides advanced disciplinary training designed to prepare students to undertake independent historical research. Offers advanced instruction in historical research and writing through exercises in historiographic analysis based on intensive collective studies of important events or themes in history. A grade of C or better in this course fulfills the GWAR requirement for all History majors and minors.

Offered All terms, Fall, Spring

**HIS 490. Senior Seminar In History. (3 Units)**

Prerequisite: HIS 400 with grade of C or better. Collective examination of a topic in depth. Students will undertake a major research project utilizing historical skills. Three hours of seminar per week.

Offered Fall, Spring

**HIS 494. Independent Study. (1-3 Units)**

Prerequisite: HIS 300, HIS 400. Independent study of a particular problem under the direction of a faculty member of the History Department.

Offered Fall, Spring

**HIS 498. Directed Research in History. (1-3 Units)**

Prerequisite: Consent of instructor. The student develops and completes an individual study under faculty supervision. Repeatable course.

Offered As needed

**HIS 500. Colloq Community History. (3 Units)**

Offered Infrequent

**HIS 502. Systems/Thry/Res In His. (3 Units)**

Offered Infrequent

**HIS 520. Sem In Hist Preservation. (3 Units)**

Prerequisites: Courses in art history and appreciation are recommended. An in-depth study of such subjects as a single artist, a period, or a movement or theme in art history. Student should have a sufficient background in art vocabulary and concepts to participate. Three hours of seminar per week.

Offered Infrequent

**HIS 540. Sem In Mus & Matrl Cult. (3 Units)**

Offered Infrequent

**HIS 550. Sem Archives. (3 Units)**

Offered Infrequent

## Human Resources Management (HRM)

### HRM 313. Human Resources Management. (3 Units)

Current theory and practice of the personnel function in organizations. Includes job analysis, recruiting, selection, training and development, compensation, performance evaluation and contemporary quality of work life issues and job redesign; uses case analysis, lecture and role-playing. Offered Fall, Spring, Summer

### HRM 316. Labor & Industrial Relations. (3 Units)

The Labor/Management process in private sector organizations; development of employee organizations; collective bargaining; contract administration; labor law, labor economics; role of the NLRB and the FMCS; case analysis and role-playing. Offered Fall, Spring

### HRM 318. Training and Development. (3 Units)

Practical skills needed to design and facilitate effective training programs in organizations. This highly interactive course focuses on strategies for assessing, designing, and implementing training and development efforts that positively impact the performance of the individual and the work group. Offered Fall

### HRM 321. Compensation and Benefits. (3 Units)

Prerequisite: MGT 310. Focuses on best practices in compensation, particularly how to design effective compensation systems. Topics will include legal aspects of compensation and design of base pay systems, incentive plans, and benefit packages. Offered Fall, Spring

### HRM 425. Seminar in Strategic HRM. (3 Units)

Prerequisite: MGT 310, HRM 313 and HRM 321 (or concurrent enrollment). Integrates human resource management functions from the strategic perspective, dealing with environments, Human Resources Management (HRM) strategies, HR planning, legal issues, and labor relations in combination with basic HRM functions. Focuses on both theoretical and practical aspects. Offered Fall, Spring

### HRM 520. Essentials of HRM. (3 Units)

Prerequisites: MGT 500 or concurrent enrollment. Focuses on best practices in essential areas of human resource management: job analysis, recruiting, selection, training and development. Students learn how to develop effective HR selection practices, as well as training programs and career paths that motivate employees. Offered Infrequent

### HRM 521. Compensation and Benefits. (3 Units)

Prerequisites: HRM 520 and MGT 500. Focuses on best practices in compensation. Students will learn how to design effective compensation plans and policies, as well as laws regarding pay and benefits. Offered Infrequent

### HRM 525. Strategic HRM. (3 Units)

Prerequisites: HRM 520 and HRM 521 (HRM 521 may be taken concurrently). Focuses on strategic aspects of human resource management, including strategic perspectives on human resources, labor relations, legal issues and global human resource management. Uses both a theoretical approach and real work-setting case application. Offered Infrequent

## Human Services (HUS)

### HUS 195. Special Topics in Human Services. (1-3 Units)

Study of special interest for students in the selected area of study. Topic and content will vary as announced. Offered Infrequent

### HUS 295. Special Topics in Human Services. (1-3 Units)

Study of special interest for students in the selected area of study. Topic and content will vary as announced. Offered Infrequent

### HUS 300. Introduction To Human Services. (3 Units)

Introduction to human services as a profession. Exploration of social forces that contribute to human needs, issues and problems related to planning, delivering and evaluating programs. Some site visits are required. Offered Fall, Spring

### HUS 307. Principles of Mental Health Recovery. (3 Units)

Prerequisite: HUS 300. Co-requisites: HUS 380 and HUS 381. Examines the history of mental health treatment and the disparity between recent research findings and current treatment modalities. The concept of recover from mental illness will be presented with a focus on psychiatric rehabilitation (PSR) as a treatment modality support recovery. Offered Fall, Spring

### HUS 310. Helping and Professional Relationships. (3 Units)

Prerequisites: HUS 300. Co-requisites: HUS 380 and HUS 381. Course will focus on developing professional helping skills with and emphasis on ethical and professional behavior. Through research and writing in the disciplinary genres, students will develop verbal and non-verbal communication skills commonly used in the helping professions. A grade of C or better in this course fulfills the GWAR requirement for all Human Services majors. Offered Fall, Spring

### HUS 311. Interventions and Strategies of Mental Health Recovery I. (3 Units)

Prerequisites: HUS 300. Co-requisites: HUS 380 and HUS 381. Examines interventions and strategies that enhance recovery from mental illness. Tools and skills needed as a mental health practitioner will be introduced, explored and practiced during the course. Offered Fall, Spring

### HUS 315. Intercultural Communication for Human Services. (3 Units)

Prerequisite: HUS 300 is required. Course is designed to facilitate students' communication skills including becoming more sensitive to intercultural communication differences, and to provide them with the knowledge and skills that will help them interact successfully with clients, coworkers, supervisors and communities who are from different cultures. Offered Fall, Spring

### HUS 330. Human Behavior and the Social Environment. (3 Units)

Prerequisite: HUS 300. Critically applies human services theories on the assessment of human behavior in the biological, psychological and social development of people over the lifespan with special focus on diversity such as race, gender, class and disabilities. Offered Fall, Spring, Summer



**HUS 368. Interventions and Strategies of Mental Health recovery II. (3 Units)**

Prerequisites: HUS 300, HUS 307 and HUS 311. Co-requisites: HUS 484 and HUS 485. This course will focus on the three major evidenced based therapies (Cognitive Behavior-CBT, Dialectical Behavioral-DBT, and Motivational Interviewing- MIT) that help people with severe and persistent mental illness.

Offered Spring

**HUS 380. Fieldwork Practicum in Human Services I. (2 Units)**

Corequisite: HUS 381 is required. This is the first of three supervised fieldwork experience with an emphasis on human services and educational settings. students will examine structure and functioning, observe professional relationships and discover interagency network. Students will then begin to apply their knowledge to basic level helping skills with agency clients. May not be taken concurrently with any other fieldwork courses.

Offered Fall, Spring

**HUS 381. Seminar in Human Services I. (1 Units)**

Corequisite: HUS 380 is required. First of three fieldwork seminar courses in Human Services, which is structured to facilitate integration of Human Services knowledge and theory with practical fieldwork application. Students will be able to examine and integrate personal and professional values and understand their personal selves as participants in professional roles. Each weekly seminar will include time to problem solve and share field experiences.

Offered Fall, Spring

**HUS 390. Field Practicum in HUS II. (2 Units)**

Prerequisites: HUS 300, HUS 380 and HUS 381. Co-requisites: HUS 391 and HUS 400 required. Second of three supervised fieldwork experiences with an emphasis on human services and educational settings. Students will apply their knowledge of human services theory and skills to intermediate level of helping with agency clientele. This course is taken concurrently with HUS 391 Seminary in Human Services II. May not be taken concurrently, however, with any other field work courses. CR/NC grading.

Offered Fall, Spring, Summer

**HUS 391. Seminar in Human Services II. (1 Units)**

Prerequisites: HUS 300, HUS 380 and HUS 381. Co-requisites: HUS 390 and HUS 400 required. Second of three fieldwork seminar courses in Human Services with is structured to facilitate integration of Human Services knowledge and theory with practical fieldwork application. Students will be able to examine and integrate personal and professional values and understand their personal selves as participants in professional roles. Each weekly seminar will include time to problem solve and share field experiences.

Offered Fall, Spring, Summer

**HUS 395. Spc Topics in Human Services. (1-3 Units)**

Study of a topic of interest to the Human Services profession. Topics will vary as announced but generally focus on the delivery of human services by examining theories, policies, advocacy, and methods. Three hours of lecture per week.

Offered As needed

**HUS 396. Practicum in Human Services. (3 Units)**

Prerequisite: HUS 300. May not be taken concurrently with any other field course. Supervised field experience, with an emphasis on human services and educational settings. Supervision emphasizes training and application of clinical, interviewing, and other helping skills, didactic methods, group techniques, methods of evaluation and/or other skills specific to fieldwork needs.

Offered As needed

**HUS 400. Case Management. (3 Units)**

Prerequisite: HUS 300. Co-requisites: HUS 390 and HUS 391. Models of institutional service delivery and case management systems. Principles of and critical issues in case management, including collaborative and interagency services.

Offered Fall, Spring, Summer

**HUS 410. Advanced Case Management - Working with Special Populations. (3 Units)**

Prerequisites: HUS 300, HUS 310, HUS 380, HUS 381, HUS 390, and HUS 400 are required. Co-requisite: HUS 480 and HUS 481 are required. Focuses on introducing students to different populations commonly seen in human services agencies. Course will address theoretical underpinnings for human services and contain the basic description of best practice that will focus the student's attention on how to carry out certain functions ethically and competently.

Offered Fall, Spring

**HUS 460. Research Methods for Human Services. (3 Units)**

Prerequisite: HUS 300. Elementary statistics. This course is an overview of research methods in human services, including study design, sampling data collection and analysis, statistical techniques and report writing. Also included is a critical analysis of published research and examination of relevance of data to decision making.

Offered Fall, Spring, Summer

**HUS 480. Fieldwork Practicum in Human Services III. (2 Units)**

Prerequisites: HUS 300, HUS 380, HUS 381, HUS 390 and HUS 391 are required. Co-requisites: HUS 410 and HUS 481 are required. Third of three supervised fieldwork experiences with an emphasis on human services and educational settings. Students will apply their knowledge of human services theory and skills at an intermediate level of helping with agency clientele. This course is taken concurrently with HUS 481 Seminar in Human Services III. May not be taken concurrently, however, with any other fieldwork courses. Students complete 180 hours in their fieldwork placement.

Offered Fall, Spring

**HUS 481. Seminar in Human Services III. (1 Units)**

Prerequisites: HUS 300, HUS 380, HUS 381, HUS 390 and HUS 391 are required. Co-requisites: HUS 410 and HUS 481 are required. This is the third of three fieldwork seminar courses in Human Services which is structured to facilitate integration of Human Services knowledge and theory with practical fieldwork application. Students will be able to examine and integrate personal and professional values and understand their personal selves as participants in professional roles. Each weekly seminar will include time to problem solve and share field experiences. Students must also do an oral case presentation with one of their clients. This course is taken concurrently with HUS 480 and cannot be taken concurrently with any other fieldwork course. Students complete 180 hours in their fieldwork placement.

Offered Fall, Spring

**HUS 484. Practicum in MHR. (2 Units)**

Prerequisites: HUS 307 and HUS 311. Co-requisites: HUS 368 and HUS 485. Supervised field experience with an emphasis on mental health recovery and working with the severely and persistently mentally ill. Students are placed in a community mental health agency where they will apply their knowledge and skills of mental health recovery. CR/NC grading.

Offered Spring

**HUS 485. Seminar in Mental Health Recovery. (1 Units)**

Prerequisites: HUS 307 and HUS 311. Co-requisites: HUS 368 and HUS 484. Weekly seminar course structured to facilitate the integration of mental health recovery knowledge and skills with practical field application. The seminar is designed to allow students to achieve integration of classroom learning with direct experiences in the agency setting.

Offered Spring

**HUS 490. International Studies in HUS. (3 Units)**

Prerequisite: HUS 300 required. The course focuses on the comparative analyses of human services policies and service between the U.S. and the host country (varies). Students will travel abroad to experience first-hand knowledge of the influences of social welfare policy on service delivery.

Offered All terms

**HUS 494. Independent Study in Human Services. (1-4 Units)**

Prerequisite: Consent of Instructor. A course of study designed cooperatively by student and instructor to accomplish individualized learning objectives that are appropriate to the human services profession.

Offered As needed

**HUS 495. Special Topics in Human Services. (1-3 Units)**

Prerequisite: Consent of instructor. Advanced course of special interest for students in the selected area of study. Topic and content will vary as announced.

Offered As needed

**HUS 496. Internship in Human Services. (3-6 Units)**

Prerequisites: HUS 396 Or PSY 396. May not be taken concurrently with any other fieldwork course. Survey of professional and ethical issues in the helping professions. Supervised internships in human services settings.

Offered Fall, Spring, Summer

## Humanities (HUM)

**HUM 204. Introduction to the Humanities. (3 Units)**

An examination of the interrelationships among the humanities (literature, art, music, and philosophy) in Western and global culture from the early modern period to the contemporary period.

Offered Fall, Spring, Summer

**HUM 300. Health Humanities. (3 Units)**

Health Humanities bridges the arts, humanities, and sciences in studying representations of health and illness. Students will gain a multicultural understanding of perceptions of health practices and practitioners. Topics include self-mutilation (cutting), race and medicine, cancer, music therapy, cloning, aging, and poetry and healing.

Offered Fall, Summer

**HUM 301. Mind/Brain and the Arts. (3 Units)**

Mind/Brain and the Arts bridges the arts, humanities, and the sciences in examining human creativity, embodied reception of the arts, and creative representations of mental states, including mental health disorders, in relation to the science of the mind/brain.

Offered Spring, Summer

**HUM 302. Lives of Faust: Deals with the Devil. (3 Units)**

Deals with the devil exert an extraordinary grip on imagination, inspiring creativity and provocative social criticism. This cross-cultural approach to the magician Faust's devil bargain explores its deployment in critique of consumerism, racism, sexism, colonialism, nuclear weapons, and environmental issues.

Offered Spring, Summer

**HUM 303. All Creatures Great & Small: Animals from Sacred to Endangered. (3 Units)**

Animals have inspired many works in the arts and humanities around the world. This cross-cultural course explores creative representations of species in relation to the sacred, social criticism and humor, commodification, and consumption, in visual culture, literature, music and dance.

Offered Fall

**HUM 304. Vampires. (3 Units)**

Course takes a cross-cultural approach to the concept of the vampire around the world. Students get their teeth into representations of vampires in the arts and humanities examined from critical and scientific perspectives.

Offered Spring, Summer

**HUM 305. Never Lose Infinite Hope: Imagining Justice, Cultivating Mental Wellness. (3 Units)**

"[N]ever lose infinite hope.": Martin Luther King, Jr.'s advice inspires this exploration of socially engaged works/practices (art, music, literature, theatre, media) from psychotherapeutic wellness perspectives applying critical race theory in addressing mental wellness of people of color in the US.

Offered Fall, Spring, Summer

**HUM 310. Key Concepts. (3 Units)**

Prerequisite: HUM 200 or equivalent. Analysis of a major concept in humanistic thought and expression, e.g. the individual and society, success and values in the U.S., death and dying, war and society, global popular music, etc. Repeatable with different topics for credit.

Offered Fall, Spring, Summer

**HUM 312. Key Movements. (3 Units)**

Prerequisite: HUM 200 or equivalent. Analysis of a major historical movement from a humanistic perspective, e.g. Harlem Renaissance, Modernism, the Jazz Age, African Literature and Culture, Medieval Japan and Europe, etc. Repeatable with different topics for credit.

Offered Fall, Spring, Summer

**HUM 314. Key Issues. (3 Units)**

Prerequisite: HUM 200 or equivalent. Analysis of major contemporary issues from a humanities perspective. Examples include the role of the arts in society, literature and the rights of women, romantic love, visions of Los Angeles, etc. Repeatable with different topics for credit.

Offered Fall, Spring, Summer, All terms

**HUM 490. Seminar In Humanities. (3 Units)**

Prerequisites: Completion of 9 units selected from 300 and 400 level Humanities courses. A multidisciplinary synthesis emphasizing cultural, historical, or aesthetic-perceptual insights in the humanities. Topics vary. Three hours of seminar per week.  
Offered Infrequent

**HUM 496. Internship in Arts and Humanities. (3 Units)**

Prerequisites: Senior standing and/or approval of the student's major department is required; completion of a minimum of 27 upper division units in the major is recommended. Directed work experience in fields across the arts and humanities. Ideally, such work provides a practical bridge linking the student's academic studies with the world of work. A minimum of 8 hours per week of supervised work experience under the direction of a professionally-qualified mentor.  
Offered Fall, Spring, Summer

**HUM 500. The Humanities in the City. (3 Units)**

An introduction to graduate level study in the humanities using the theme of the humanities in the city. Three hours of seminar per week.  
Offered Fall, Spring, Summer

**HUM 512. Texts and Language. (3 Units)**

Examination of contemporary issues addressing what we read, how we read, and why we read. Examples from literature and philosophy. Includes the refining of skills in research and writing. Three hours of seminar per week.  
Offered Fall

**HUM 520. Seminar In Art. (3 Units)**

Analysis of visual culture with emphasis upon modern and contemporary models approached through a range of theoretical approaches including those relevant to the cohort theme.  
Offered Fall

**HUM 522. Seminar In Literature. (3 Units)**

Prerequisites: Courses in literary interpretation and history are recommended. Advanced work in a variety of topics in literature; assumes a working knowledge of the basic concepts and vocabulary of the discipline. Three hours of seminar per week.  
Offered Fall

**HUM 523. Seminar In Music. (3 Units)**

Prerequisites: Courses in music history, theory, and appreciation are recommended. Advanced work in a variety of topics including study of a period, a cluster of composers, a movement, or music of a single country. Three hours of seminar per week.  
Offered Fall

**HUM 524. Seminar In Philosophy. (3 Units)**

Prerequisites: Previous courses in philosophy are recommended. Offers advanced work in a variety of topics such as the work of individual philosophers, or specific problems of epistemology or metaphysics. Assumes working knowledge of the basic vocabulary and concepts of the discipline. Three hours of seminar per week.  
Offered Spring

**HUM 528. Images and Artifacts. (3 Units)**

Examination of art, artifacts, architecture, murals, masks and other objects that are carriers of social, cultural, and aesthetic values. Three hours of seminar per week.  
Offered Spring

**HUM 535. Seminar in Film. (3 Units)**

Advanced work in a variety of topics in film studies; assumes a working knowledge of the basic concepts and vocabulary of the discipline.  
Offered Spring

**HUM 540. Sem His: Moments Crisis. (3 Units)**

Prerequisites: Previous courses in history are recommended. The study of a period or theme in history through the lens of the humanities. Assumes a working knowledge of the basic concepts and vocabulary of the discipline. Three hours of seminar per week.  
Offered Spring

**HUM 582. Performance & Criticism. (3 Units)**

A systematic examination of the theory, practice, and aesthetics of formal and informal criticism applied to performances in music, theatre, dance, and art films.  
Offered Spring

**HUM 594. Independent Study. (3 Units)**

Prerequisites: Previous courses in the humanities are required. A special project involving research or creative work. Also extensive reading in consultation with a faculty member. Repeatable course.  
Offered Fall, Spring

**HUM 595. Special Topics in Humanities. (3 Units)**

An intensive study of selected issues in the arts and humanities. Three hours of seminar per week.  
Offered Fall

**HUM 598. Comprehensive Examination. (3 Units)**

Comprehensive examination over coursework and set texts. The degree candidate taking the exam must have either completed all coursework or be planning to complete it in the semester the exam is taken. Preparatory session required.  
Offered Fall, Spring

**HUM 599. Final Project. (3 Units)**

Prerequisites: Advancement to candidacy and consent of program coordinator. Thesis or creative project related to the student's particular combination of humanities studies. If creative project, extensive prior preparation required.  
Offered Fall, Spring

**HUM 600. Grad Continuation. (1 Units)**

Graduate students who have completed their course work but not their thesis, project, or comprehensive examination, or who have other requirements remaining for the completion of their degree, must maintain continuous attendance by enrolling in this course. Signature of graduate program coordinator required.  
Offered Fall, Spring

## Humanities External Degree (HUX)

**HUX 345. The Non-Western World: China and Japan. (3 Units)**

Interdisciplinary study of the non-western world by focusing on some of the art, philosophy and music of China and Japan.  
Offered Infrequent

**HUX 346. Alienation, Estrangement, and Subcultures. (3 Units)**

Survey of the elements and historical implications of alienation. Examination of Hispanic and African American cultures.  
Offered Fall, Infrequent

**HUX 347. Images of Humanity: World Religious Perspectives. (3 Units)**

Survey of ancient and modern religious systems focusing upon general characteristics of religious belief.  
Offered Spring

**HUX 448. Val & Morality 20th Century. (3 Units)**

Offered Infrequent

**HUX 472. Key Persp: Phil. (3 Units)**

Offered Infrequent

**HUX 474. Age Of Revolution. (3 Units)**

Offered Infrequent

**HUX 500. Foundations of the Humanities. (3 Units)**

Provides an overview of core ideas, research, and writing in the humanities. Traces the historical origins of humanistic ideals and examines the influence of these cultural ideals on human life across time, place and history.

Offered Fall

**HUX 506. Introduction to the Humanities. (3 Units)**

Provides a non-comprehensive overview of human culture, particularly literature, history, music and philosophy, with an emphasis on diverse cultural and national traditions as well as social justice and morality.

Offered Fall, Spring

**HUX 507. Graduate Writing in the Humanities. (3 Units)**

Teaches students how to communicate in the humanities through academic writing that is supported by primary and secondary sources. Students will explore a variety of subjects, including art, gender, labor, music and race, to understand the humanities.

Offered Fall

**HUX 512. History and the Human Endeavor. (3 Units)**

Explores how historians use a variety of documents to understand human thought and behavior. Students analyze and contextualize documents, find sources for their own projects and draw conclusions about the human experience in relation to cohort theme.

Offered Fall

**HUX 513. Literature and the Human Experience. (3 Units)**

Examines key literary works across a range of genres. Uses various literary methodologies such as structuralism, Marxism, cultural studies and postcolonial theory to explore the multiple ways literature impacts humanity.

Offered Fall

**HUX 514. Music and Hearing Humanity. (3 Units)**

Presents music as fundamental to human identity. Engaging hey works, students examine composers, popular movements, and music's rich meaning located through focused topics.

Offered Fall, Spring, Summer

**HUX 515. Visual Expression and Humanity. (3 Units)**

Special Topics course using nonstandard times and/or days to explore issues in the human behavior and attitudes. Repeatable course.

Offered Fall

**HUX 516. Philosophy and Human Being. (3 Units)**

Offers a philosophical examination of fundamental questions about being human, such as the good life, human nature, the mind/body relation, and the basis of personal identity. Specific attention will be devoted to the current cohort theme.

Offered Fall

**HUX 521. Humanities Encounter: The Living Theatre. (3 Units)**

How to recognize, appreciate and evaluate a variety of dramatic experiences. Requires extensive notebook of descriptions and analyses of five different types of theatrical performances. Three additional theatrical encounter descriptions and analyses required.

Offered Fall

**HUX 522. Humanities Encounter: Concert Music. (3 Units)**

Attendance and analysis of several concerts representing the general categories of symphonic, vocal and chamber music. Critical reviews required for each of four musical encounters. Reviews of two additional musical encounters required.

Offered Spring

**HUX 523. Humanities Encounter: Historical Sites. (3 Units)**

Exploring the historical roots of one's own community. Requires papers (including photographs) involving descriptions and analyses of three different historical sites. Papers on two additional sites required.

Offered Summer

**HUX 524. Humanities Encounter: Film. (3 Units)**

Watching and analyzing several films with special focus on the techniques and content of the medium. Requires extensive notebook of descriptions and analyses of five different film experiences. Three additional film experience descriptions and analyses required.

Offered Fall, Spring

**HUX 525. Philosophy of Punishment. (3 Units)**

Explores the theme of incarceration, including its historical roots, within advanced capitalist societies. We will study the writings of Foucault, Bentham, Gramsci, and other prominent commentators who focus critically on incarceration and living in a carceral society.

Offered Fall

**HUX 526. Punishment and Popular Culture. (3 Units)**

Students will reflect on an array of media sources to more deeply and critically understand popular culture's engagement with criminality and the justice system and to think about popular culture as a possible resource for criminal justice reform.

Offered Fall

**HUX 527. History of American Punishment. (3 Units)**

Covers the history of punishment in the United States from the 17th century through the present. Emphasizes historiography and the interconnection of different historical narratives and variables in creating the modern penal system.

Offered Fall

**HUX 528. Modern Discipline. (3 Units)**

Explores the contemporary manifestations of discipline through an interrogation of the diffuse nature of power. The interdisciplinary humanities texts here offer a reflection on the origins of disciplinary relationality (between the state, sovereign, and subject) and how their evolving relations are revealed in technologies of surveillance and security.

Offered Fall, Spring, Summer

**HUX 533. Prisoner Movement and Theory. (3 Units)**

An in-depth study of transnational social justice oriented prisoner movements. All assigned texts are written by incarcerated or formerly incarcerated peoples. Students will consider systemic roots of carceral violence while studying how incarcerated peoples have resisted and strategized for abolition.

Offered Fall, Spring, Summer

**HUX 534. Race, Class and Gender. (3 Units)**

Modeled after the traditional Ethnic Studies and Women's Studies course, this course offers an intersectional analysis of the law, policing, incarceration, and their function in stifling marginalized people from building together.

Offered Fall, Spring, Summer

**HUX 535. Criminalization, Colonization, and Counterinsurgency. (3 Units)**

Offers a historical perspective on the fluidity of criminalization and how it coalesces around specific bodies at different times to justify oppressive systems from colonization to gentrification.

Offered Fall, Spring, Summer

**HUX 536. Abolitionist Futures. (3 Units)**

Teases out the differences between liberal reform and abolition of prisons while exploring transformative justice, mutual aid, and how people are already working to eliminate the prison industrial complex.

Offered Fall, Spring, Summer

**HUX 537. Building and Reforming the Industrial City in the United States. (3 Units)**

An interdisciplinary study of cities in the United States from 1880-1920s, with a focus on the history, literature, art, and social movements of the time period. Topics include poverty, housing, labor, and legal reform, and the start of urban planning.

Offered Fall

**HUX 538. Whose House Is It Anyway?: Settler Colonialism, Racial Capitalism, and the U.S. Housing Market. (3 Units)**

Explores the settler colonial and racial capitalist roots of the U.S. housing market. Students will explore historical and contemporary housing policies and practices, examine empirical data on communities, and imagine how we can build an equitable housing market.

Offered Fall

**HUX 539. Creating Communities: Contemporary Urban Planning and Community Development. (3 Units)**

Critically assesses the role of urban planning in shaping communities. Students will examine how the regulation of the use of space impacts community formation and inequality, and how it can be used to create more equitable cities.

Offered Fall

**HUX 541. The Rational Perspective. (3 Units)**

The meaning of rationality from the perspectives of philosophy, history, literature, music, and art. Special emphasis on the possible differences between scientific and humanistic rationality.

Offered Summer

**HUX 542. The Para-rational Perspective. (3 Units)**

Interdisciplinary exploration of non-rational alternatives in modern culture, focusing on the nonlogical, the visionary, and the religious/mystical.

Offered Fall

**HUX 543. The Autonomous Individual. (3 Units)**

Interdisciplinary study of the nature of the creative act, including the following: the artist's vision of self; the defenses of personalism; notions of aesthetics and of symbolic thought.

Offered Infrequent

**HUX 544. The Individual and Society. (3 Units)**

Exploration of the position of the individual in the classic and modern models of social and political organization; conservatism, liberalism, socialism, anarchism; study of the Utopian tradition; and study of aesthetic theories that connect the artist with society.

Offered Infrequent

**HUX 545. The Non-Western World. (3 Units)**

Interdisciplinary examination of the non-western world by focusing on cultural characteristics of China and Japan.

Offered Infrequent

**HUX 547. World Religious Perspectives. (3 Units)**

A survey of ancient and modern religious systems, focusing upon an exploration of the general characteristics of religious beliefs.

Offered Summer

**HUX 548. Values and Morality in Twentieth Century Thought. (3 Units)**

An examination of values and morality in modern culture against a backdrop of seemingly amoral scientific and technological progress.

Offered Fall

**HUX 556. Nobel Laureates: Studies in Modern World Literature. (3 Units)**

Examination of representative major works by recent Nobel Laureates whose art epitomizes diverse cultural, literary, and social viewpoints. Authors include Mann, Pirandello, Camus, Kawabata, Solzhenitsyn, Neruda and Bellow.

Offered Spring, All terms

**HUX 570. Key Periods and Movements, Art: Contemporary. (3 Units)**

Exploration of the complex cultural development known as modern art by investigation of six major artistic movements: Cubism, Expressionism, Dada/Surrealism, Pop Art, Conceptual Art and Technological Art.

Offered Spring

**HUX 572. Key Periods and Movements, Philosophy: The Biblical Movement. (3 Units)**

Examination of modern scholarship on the Bible and its impact on Christianity; analysis of 3 types of Bible interpretation: Fundamentalism, liberalism and humanism.

Offered Spring

**HUX 579. The Arab World: 600 AD to Present. (3 Units)**

Prerequisite: HUX 501 is recommended. Political and cultural history of the Arab World from the 7th century to the present. Consideration of historiographic problems such as the "Great Man," cycles, and the influence of ideas on events.

Offered Spring

**HUX 582. Seminar in History. (3 Units)**

Students will learn and use historical practicum skills, including the proper use of primary sources and secondary source texts, to improve their understanding, to create sound argument, and to communicate thoughtfully about the past.

Offered Fall

**HUX 586. Seminar in Philosophy. (3 Units)**

Examines and evaluates a range of philosophical arguments on the current HUX cohort theme, giving students an opportunity to develop coherent positions on such philosophical issues as the nature of human existence, knowledge, ethical responsibility and human flourishing.

Offered Fall

**HUX 590. Humanities Capstone. (3 Units)**

This course is designed to enable students to demonstrate the integration of knowledge from various fields in the Humanities. In addition, the course launches students into their larger communities and offers them a deeper knowledge about the connection between systems of oppression, incarceration, and societal re-entry. This course is taken in the student's final semester.

Offered Fall, Spring

**HUX 594A. Independent Study: Literature. (1-3 Units)**

Prerequisites: Consent of instructor and program coordinator, via signed contract. Individually designed faculty-guided study of a topic in Literature, History, Philosophy, Music, Art, and Interdisciplinary topics. Repeatable for credit. A maximum of 9 units may be taken as Independent Study. No more than 6 units of Independent Study may be taken in one term.

Offered Fall, Spring

**HUX 594B. Independent Study: History. (1-3 Units)**

Prerequisites: Consent of instructor and program coordinator, via signed contract. Individually designed faculty-guided study of a topic in Literature, History, Philosophy, Music, Art, and Interdisciplinary topics. Repeatable for credit. A maximum of 9 units may be taken as Independent Study. No more than 6 units of Independent Study may be taken in one term.

Offered Spring

**HUX 594C. Independent Study: Philosophy. (1-3 Units)**

Prerequisites: Consent of instructor and program coordinator, via signed contract. Individually designed faculty-guided study of a topic in Literature, History, Philosophy, Music, Art, and Interdisciplinary topics. Repeatable for credit. A maximum of 9 units may be taken as Independent Study. No more than 6 units of Independent Study may be taken in one term.

Offered Spring, Summer

**HUX 594D. Independent Study: Music. (1-3 Units)**

Prerequisites: Consent of instructor and program coordinator, via signed contract. Individually designed faculty-guided study of a topic in Literature, History, Philosophy, Music, Art, and Interdisciplinary topics. Repeatable for credit. A maximum of 9 units may be taken as Independent Study. No more than 6 units of Independent Study may be taken in one term.

Offered Summer

**HUX 594E. Independent Study: Art. (1-3 Units)**

Prerequisites: Consent of instructor and program coordinator, via signed contract. Individually designed faculty-guided study of a topic in Literature, History, Philosophy, Music, Art, and Interdisciplinary topics. Repeatable for credit. A maximum of 9 units may be taken as Independent Study. No more than 6 units of Independent Study may be taken in one term.

Offered Spring, Summer

**HUX 594F. Independent Study: Interdisc Topic. (1-3 Units)**

Prerequisites: Consent of instructor and program coordinator, via signed contract. Individually designed faculty-guided study of a topic in Literature, History, Philosophy, Music, Art, and Interdisciplinary topics. Repeatable for credit. A maximum of 9 units may be taken as Independent Study. No more than 6 units of Independent Study may be taken in one term.

Offered Fall

**HUX 595. Special Topics in the Humanities. (3 Units)**

Prerequisite: Consent of program coordinator. Concentrated study of a specialized area in the Humanities on a selected topic of particular interest to faculty and students.

Offered As needed

**HUX 598S. Final Project Proposal. (1 Unit)**

Prerequisites: Completion of Phases I and II; consent of instructor and program coordinator via signed contract. Required of all HUX M.A. students. Must be passed with grade of A-B before registering for Final Project (HUX 599).

Offered Fall, Spring, Summer

**HUX 599A. Final Project: Thesis. (4-6 Units)**

Prerequisites: Completion of Phases I and II; consent of instructor and program coordinator via signed contract. An individually planned project based on course work taken in the program and involving basic research in a single discipline or an interdisciplinary topic. Supervised Thesis (599A) or Creative Project (599B).

Offered Fall, Spring, Summer

**HUX 599B. Final Proj: Creative Project. (4-6 Units)**

Prerequisites: Completion of Phases I and II; consent of instructor and program coordinator via signed contract. An individually planned project based on course work taken in the program and involving basic research in a single discipline or an interdisciplinary topic. Supervised Thesis (599A) or Creative Project (599B).

Offered Fall, Spring, Summer

**HUX 600. Graduate Continuation Course. (1 Unit)**

Graduate students who have completed their course work but not their thesis or project, or who have other requirements remaining for the completion of their degree, must maintain continuous attendance by enrolling in this course. May be taken only after Advancement to Candidacy and for a maximum of 3 times.

Offered Fall, Spring, Summer

## Information Technology (ITC)

**ITC 101. Introduction to Information Technology. (3 Units)**

Designed to introduce the fundamentals of information technology. This includes, introduction to a variety of computer tools and computer concepts with an emphasis on information technology

Offered Fall, Spring

**ITC 251. System Programming in C and Unix. (3 Units)**

Prerequisite: CSC 121 is required. Provides a substantial exposure to the C programming language and the Unix programming environment for students with some prior programming experience but minimal exposure to C.

Offered Fall, Spring

**ITC 300. Security in a Digital Society. (3 Units)**

This course provides students with an understanding of what is involved in the journey of positioning the computer, security, privacy, internet, and cloud as a valuable service provide to the business and personal life of the digital society.

Offered Fall, Spring

**ITC 310. IT Project Management. (3 Units)**

Prerequisite: CSC 301 is required. Aims to provide students with the basic skills, knowledge and competence to effectively understand and manage information technology projects. This course prepares students to gain a practical and theoretical foundation for managing IT projects.

Offered Fall, Spring

**ITC 395. Selected Topics in Information Technology. (1-3 Units)**

Prerequisite: Consent of Instructor. Content varies. Topics in computer technology not covered by current course offerings. May be used for elective credit in departmental programs. Subject to approval.

Offered As needed

**ITC 399. IT Practicum. (3 Units)**

Prerequisite: Consent of instructor is required. The information technology internship program allows students to gain hands-on experience in a technology environment by spending one semester as an intern in the Information Technology Division or a related area. The internship program provides students with the opportunity to gain technical experience related to their studies and to prepare them for future career opportunities in the field. CR/NC grading only.

Offered Fall, Spring

**ITC 453. Database Management Systems (DBMS). (3 Units)**

Prerequisite: CSC 311 is required. Covers the design methodology process for databases and how to verify its structural correctness. Students will learn how to implement databases and applications software, primarily in the relational model. This is through using querying languages, primarily SQL, and other database supporting software; and applying the theory behind various database models and query languages. It also includes implementing security and integrity policies relating to databases working in group settings during design.  
Offered Fall, Spring

**ITC 459. IT Security. (3 Units)**

Prerequisite: CSC 311 or consent of instructor is required. Information Technology Security aims at securing systems that remain dependable in the face of malice, error or mischance. This course covers a number of principles, methods, tools and good practices to secure systems.  
Offered Fall, Spring

**ITC 492. Senior Design. (3 Units)**

Prerequisite: ITC 453 is required. Intensive study under the guidance of a member of the Information Technology (IT) faculty to complete a research project from start to end. Students will study system design and total project planning and management. A formal written report and oral presentation will be required.  
Offered Fall, Spring

## Interdisciplinary Studies (IDS)

**IDS 210. Introduction to Environmental Studies. (3 Units)**

Provides students with an overview of environmental philosophy, policy, and literature examining a range of interrelated social and scientific aspects of ecological, socioeconomic, political, aesthetic, and technological factors that influence the quality of life on earth.  
Offered Fall, Spring, Summer

**IDS 255. Lang & Meth Of Sci (PACE). (3 Units)**

Offered Infrequent

**IDS 295. Special Topics in Interdisciplinary Studies. (3 Units)**

A broad study of an issue or a concept in Interdisciplinary Studies that is of special interest to faculty and students. Topics vary (e.g., Special Topics: Labor and the Environment, Environmental Ethics, Global Sustainability; Environmental Literature; Water in the American West). Repeatable course. Three hours of lecture per week.  
Offered Fall

**IDS 300. Introduction to Interdisciplinary Studies. (3 Units)**

Provides an introduction to the theories and practices of interdisciplinary studies in humanities, social sciences, and natural sciences. Course includes research methods, writing for the various disciplines, and development of analytical and synthesizing skills necessary for success in Interdisciplinary Studies.  
Offered Fall

**IDS 304. Issues in Global Studies. (3 Units)**

Explores issues confronting our global community by employing multi-disciplinary, transnational, and post colonial approaches; examines how global studies is defined and its impact historically and currently; acquaints students with regional concerns as distinct from and contributing to global issues.  
Offered Fall, Spring

**IDS 310. Global Climate Change. (3 Units)**

Examines the history of climate science and how acceptance and denial of science impacts the geopolitical landscape, including personal, regional, national, and global responsibility to implement a transition to a just and sustainable future on a finite planet.  
Offered Fall, Spring

**IDS 312. Interdisciplinary Approaches to the Humanities. (3 Units)**

Each topic for this course examines an important issue in the Humanities, using a methodology incorporating multiple disciplines and placing the content in a historical and cultural context.  
Offered Fall, Spring

**IDS 316. LA Detectives. (3 Units)**

An examination of crime in Los Angeles across fiction, non-fiction, and film, especially the LA noir tradition. Particular attention is paid to gender, race, and class and their accompanying disclosures and how crime stories mediate these discourses.

**IDS 317. Race and Popular Culture. (3 Units)**

From an interdisciplinary perspective, this class will examine the intersections of race and popular culture. By doing so, this course will explore how popular culture is central to negotiating racial meaning in American society.

**IDS 318. Interdisciplinary Approach to Cultural Pluralism. (3 Units)**

Each topic for this course examines an important social issue in the Social Sciences, using a methodology incorporating multidisciplinary approaches, cultural diversity, and social interaction. Repeatable for credit with different topics.  
Offered Fall, Spring

**IDS 320. Interdisciplinary Topics in Human Studies. (3 Units)**

Provides an in-depth study of a topic in human behavior and attitudes. The topic will be examined using interdisciplinary perspectives. Examples of topics include class and careers, immigration and cultural impact and poverty. Repeatable course. Three hours of seminar per week.  
Offered Fall, Spring, All terms

**IDS 321. Global Los Angeles. (3 Units)**

How does a locality - Los Angeles - become identifiable as a global city? One aspect of LA's global status is its diverse population, but other influences include international trade, economic interests, popular culture, environmental entanglements, among many interrelated globalizing factors.  
Offered Fall, Spring

**IDS 322. Transnational Stories. (3 Units)**

Using literature, film, and other visual narrative forms, course explores the differences and commonalities of representation in the works of the human imagination in a global and historical context.  
Offered Fall, Spring

**IDS 324. Consumerism in the US. (3 Units)**

This course examines the key issues that are tied to American consumerism including advertising, class identity, globalization, the impact on the environment. Additionally, this course will pay close attention to how race, gender, and class intersect with consumerism.

**IDS 325. Global Gender and Sexuality. (3 Units)**

Examines the emergence and development of lesbian, gay, bisexual, transgender rights movements around the world. Course themes include the intersectionalities of race/ethnicity and class with gender and sexuality; the dynamic nature of identity; and cultural, political, religious, and historical contexts.  
Offered Fall, Spring

**IDS 326. Perspectives In Human Studies. (3 Units)**

Special Topics course using nonstandard times and/or days to explore issues in the human behavior and attitudes. Repeatable course.

Offered Fall, Spring, All terms

**IDS 330. Interdisciplinary Topics in Civilizations. (3 Units)**

Provides an in-depth analysis of a major topic in the history of ideas and institutions through the study of the topic in relation to the disciplines relevant to the topic. Sample topics include archetypal patterns in literature and history of modern thought. Repeatable course.

Offered Fall, Spring, Summer, All terms

**IDS 332. Global Conflict and Cooperation. (3 Units)**

Using social science methods and providing an historical context, course explores ways in which globalization may generate social, political, economic, or environmental pressures and conflicts as well as elicit and even enable cooperation among individuals, localities, regions, and nations.

Offered Fall, Spring

**IDS 336. American Studies in the Humanities. (3 Units)**

Provides an in-depth analysis of an issue, region, perspective, or historical era of the United States from a comparative, multidisciplinary humanities perspective. Courses incorporate some of the following disciplines: literature, history, film, philosophy, art, and drama. Repeatable with different topics.

Offered Fall, Spring, All terms

**IDS 340. Interdisc Perspectives. (3 Units)**

Offered Infrequent

**IDS 341. Developing a Digital Professional Identity. (1 Units)**

Introduces writing concepts critical to transitioning into a professional writing an practice. Students will learn to recognize and apply patterns of writing in professional settings. Students will assess and synthesize organizational information and compose digital compositions for public facing content.

Offered Fall, Spring

**IDS 350. Interdisciplinary Topics in Environmental Studies. (3 Units)**

Provides an in-depth examination of major concepts in environmental science, including ecology, evolution, diseases, loss of biodiversity, global warming, and the public policies needed to address complex contemporary problems. Courses involve methods of scientific inquiry. Repeatable with different topics.

Offered Fall, Spring

**IDS 360. Special Studies in Civilizations. (1-3 Units)**

Prerequisites: Upper division status and permission of instructor. This course will investigate one or more special topics in Western and/or Non Western civilizations. Instruction will usually include off-campus activity such as, but not limited to, foreign travel. Repeatable course

Offered Infrequent

**IDS 395. Special Topics. (1-3 Units)**

Intensive study of a particular aspect of interdisciplinarity. Topic may provide the opportunity to pursue a creative endeavor in a seminar setting. Repeatable for credit. Exact topic will be listed in the class schedule.

Offered As needed

**IDS 397. Writing Adjunct. (2 Units)**

Prerequisites: ENG 108/109 or ENG 110 required. IDS 397 and IDS 398 are two linked courses that provide the opportunity for students to develop a writing practice that allows them to situate themselves as writers, readers, and students within broader disciplinary conversations. Students will become fluent readers and writers across a variety of disciplines as they establish a writing practice. Students will learn and apply theories and scholarship from a variety of disciplines in order to write original essays and/or research projects. At the end of the IDS 397, students will create a writing portfolio to document the transformation of their writing. Students are welcome to take IDS 397 as a stand-alone course for writing support. To fulfill the GVAR requirement, students must take IDS 397 and IDS 398.

Offered Fall, Spring

**IDS 398. Writing Adjunct (Competency Certification). (2 Units)**

Prerequisite: IDS 397. IDS 397 and IDS 398 are two linked courses that provide the opportunity for students to develop a writing practice that allows them to situate themselves as writers, readers, and students within broader disciplinary conversations. Students will become fluent readers and writers across a variety of disciplines as they establish a writing practice. Students will learn and apply theories and scholarship from a variety of disciplines in order to write original essays and/or research projects. At the end of the IDS 398 students will create a writing portfolio to document the transformation of their writing. When both IDS 397 and IDS 398 are taken, the two courses fulfill GVAR.

Offered Fall, Spring

**IDS 490. Interdisciplinary Studies Senior Seminar. (3 Units)**

Students draw from their interdisciplinary perspectives and methodologies to address contemporary issues and review and apply theories and information from previous classes. A grade of C or better in this course fulfills the GVAR requirement for all Interdisciplinary Studies majors.

Offered Infrequent

**IDS 491. Thematic Proj Proposal. (1 Units)**

Prerequisite: Consent of instructor. Supervised development of a proposal which describes the Thematic Project. Proposal will define a problem, outline means to solve problem and describe the final product resulting from the project. Completed proposal contain advisor's justification and will be approved by committee. CR/NC grading.

Offered Fall, Spring

**IDS 492. Thematic Proj Fieldwork. (1-4 Units)**

Prerequisite: Consent of instructor. Supervised activity in fieldwork and/or research necessary to carry through a thematic project. Repeatable course.

Offered Infrequent

**IDS 493. Them Proj:Final Product. (1-4 Units)**

Prerequisite: Consent of instructor. Supervised activity in preparation of the final product necessary to carry through a thematic project. Repeatable course.

Offered Infrequent

**IDS 494. Independent Study. (2-15 Units)**

Independent pursuit of a topic or project which is proposed by the student. Study must be interdisciplinary and must be approved, in advance, by faculty member supervising study. Repeatable course.

Offered Infrequent



**IDS 498. Directed Research. (1-3 Units)**

Prerequisite: Consent of instructor. The student develops and completes an individual study under faculty supervision. Repeatable course.  
Offered Infrequent

## Italian (ITA)

**ITA 110. Beginning Italian I. (3 Units)**

Basic instruction in Italian. Training in speaking, listening, reading and writing for students who have no previous work in Italian.  
Offered Fall

**ITA 111. Beginning Italian II. (3 Units)**

Prerequisite: ITA 110 is required. Continuation of basic instruction in Italian (ITA 110). Training in speaking, listening, reading, and writing for students with prior course in Italian.  
Offered Spring

## Japanese (JPN)

**JPN 110. Beginning Japanese I. (3 Units)**

An intensive audio-lingual approach to modern spoken Japanese for students who have no previous work in Japanese (with Japanese progressively replacing English as the medium of classroom communication).  
Offered Fall, All terms

**JPN 111. Beginning Japanese II. (3 Units)**

Prerequisite: JPN 110 or equivalent. A continuation of Japanese 110. Introduction of Hiragana and Kanji (characters) gradually during the semester; elementary reading exercises accompany the spoken language materials.  
Offered Spring

**JPN 230. Japanese Conversation. (3 Units)**

Prerequisite: One year of Japanese or consent of instructor. Speaking proficiency in standard modern Japanese. Practice through dialogue and individual presentations to develop fluency for personal, commercial, and cultural activities. May be repeated to a maximum of 6 units. Repeatable course.  
Offered Infrequent

## Kinesiology (KIN)

**KIN 100. Adapt Phys Fit. (1 Units)**

Physical fitness evaluation, exercise prescription and individualized programs designed for disabled students and any student with a temporary or permanent fitness need. Repeatable course. Two hours of activity per week.  
Offered As needed

**KIN 111. Aerobics. (1 Units)**

Participation in competitive intramural activities. Tournaments conducted in sports such as basketball, badminton, tennis, volleyball and additional activities based upon student interest. Repeatable course. Two hours of activity per week.  
Offered Fall, Spring

**KIN 112. Aerobics: Step. (1 Units)**

Participation in competitive intramural activities. Tournaments conducted in sports such as basketball, badminton, tennis, volleyball and additional activities based upon student interest. Repeatable course. Two hours of activity per week.  
Offered As needed

**KIN 113. Social and Folk Dance Activity. (1 Units)**

Participation in competitive intramural activities. Tournaments conducted in sports such as basketball, badminton, tennis, volleyball and additional activities based upon student interest. Repeatable course. Two hours of activity per week.  
Offered Fall, Spring

**KIN 114. Badminton. (1 Units)**

Participation in competitive intramural activities. Tournaments conducted in sports such as basketball, badminton, tennis, volleyball and additional activities based upon student interest. Repeatable course. Two hours of activity per week.  
Offered Fall, Spring

**KIN 116. Baseball. (1 Units)**

Participation in competitive intramural activities. Tournaments conducted in sports such as basketball, badminton, tennis, volleyball and additional activities based upon student interest. Repeatable course. Two hours of activity per week.  
Offered As needed

**KIN 118. Basketball. (1 Units)**

Participation in competitive intramural activities. Tournaments conducted in sports such as basketball, badminton, tennis, volleyball and additional activities based upon student interest. Repeatable course. Two hours of activity per week.  
Offered Fall, Spring

**KIN 125. Bicycling/All Levels/Velo. (1 Units)**

Participation in competitive intramural activities. Tournaments conducted in sports such as basketball, badminton, tennis, volleyball and additional activities based upon student interest. Repeatable course. Two hours of activity per week.  
Offered As needed

**KIN 130. Golf. (1 Units)**

Participation in competitive intramural activities. Tournaments conducted in sports such as basketball, badminton, tennis, volleyball and additional activities based upon student interest. Repeatable course. Two hours of activity per week.  
Offered Fall, Spring

**KIN 132. Gymnastics. (1 Units)**

Participation in competitive intramural activities. Tournaments conducted in sports such as basketball, badminton, tennis, volleyball and additional activities based upon student interest. Repeatable course. Two hours of activity per week.  
Offered Fall, Spring

**KIN 134. Jogging. (1 Units)**

Participation in competitive intramural activities. Tournaments conducted in sports such as basketball, badminton, tennis, volleyball and additional activities based upon student interest. Repeatable course. Two hours of activity per week.  
Offered As needed

**KIN 140. Lifeguard Training. (1 Units)**

Participation in competitive intramural activities. Tournaments conducted in sports such as basketball, badminton, tennis, volleyball and additional activities based upon student interest. Repeatable course. Two hours of activity per week.  
Offered As needed

**KIN 141. Martial Arts. (1 Units)**

Participation in competitive intramural activities. Tournaments conducted in sports such as basketball, badminton, tennis, volleyball and additional activities based upon student interest. Repeatable course. Two hours of activity per week.  
Offered Fall, Spring

**KIN 142. Physical Conditioning. (1 Units)**

Participation in competitive intramural activities. Tournaments conducted in sports such as basketball, badminton, tennis, volleyball and additional activities based upon student interest. Repeatable course. Two hours of activity per week.  
Offered Fall, Spring

**KIN 145. Relaxation Techniques. (1 Units)**

Participation in competitive intramural activities. Tournaments conducted in sports such as basketball, badminton, tennis, volleyball and additional activities based upon student interest. Repeatable course. Two hours of activity per week.  
Offered As needed

**KIN 148. Soccer/Indoor. (1 Units)**

The following courses are designed to promote active lifestyles and are open to all university students. Prerequisites for intermediate level classes are beginning level or equivalent. Prerequisites for advanced level classes are intermediate level or equivalent. Students assume responsibility for satisfactory health status appropriate for activity classes. The courses are repeatable. Two hours of activity per week. Fee required for KIN 116-180.  
Offered As needed

**KIN 150. Soccer/Outdoor. (1 Units)**

Participation in competitive intramural activities. Tournaments conducted in sports such as basketball, badminton, tennis, volleyball and additional activities based upon student interest. Repeatable course. Two hours of activity per week.  
Offered Fall, Spring

**KIN 152. Softball. (1 Units)**

Participation in competitive intramural activities. Tournaments conducted in sports such as basketball, badminton, tennis, volleyball and additional activities based upon student interest. Repeatable course. Two hours of activity per week.  
Offered Fall, Spring

**KIN 154. Stretch & Flex. (1 Units)**

Participation in competitive intramural activities. Tournaments conducted in sports such as basketball, badminton, tennis, volleyball and additional activities based upon student interest. Repeatable course. Two hours of activity per week.  
Offered As needed

**KIN 156. Swimming/All Levels. (1 Units)**

Participation in competitive intramural activities. Tournaments conducted in sports such as basketball, badminton, tennis, volleyball and additional activities based upon student interest. Repeatable course. Two hours of activity per week.  
Offered Fall, Spring

**KIN 158. Swimming/Conditioning. (1 Units)**

Participation in competitive intramural activities. Tournaments conducted in sports such as basketball, badminton, tennis, volleyball and additional activities based upon student interest. Repeatable course. Two hours of activity per week.  
Offered As needed

**KIN 162. Tennis. (1 Units)**

Participation in competitive intramural activities. Tournaments conducted in sports such as basketball, badminton, tennis, volleyball and additional activities based upon student interest. Repeatable course. Two hours of activity per week.  
Offered Fall, Spring

**KIN 164. Volleyball. (1 Units)**

Participation in competitive intramural activities. Tournaments conducted in sports such as basketball, badminton, tennis, volleyball and additional activities based upon student interest. Repeatable course. Two hours of activity per week.  
Offered Fall, Spring

**KIN 168. Walking For Health. (1 Units)**

Participation in competitive intramural activities. Tournaments conducted in sports such as basketball, badminton, tennis, volleyball and additional activities based upon student interest. Repeatable course. Two hours of activity per week.  
Offered As needed

**KIN 170. Weight Training. (1 Units)**

Participation in competitive intramural activities. Tournaments conducted in sports such as basketball, badminton, tennis, volleyball and additional activities based upon student interest. Repeatable course. Two hours of activity per week.  
Offered Fall, Spring

**KIN 171. Yoga. (1 Units)**

Participation in competitive intramural activities. Tournaments conducted in sports such as basketball, badminton, tennis, volleyball and additional activities based upon student interest. Repeatable course. Two hours of activity per week.  
Offered Fall, Spring

**KIN 180. Intramurals. (1 Units)**

Participation in competitive intramural activities. Tournaments conducted in sports such as basketball, badminton, tennis, volleyball and additional activities based upon student interest. Repeatable course. Two hours of activity per week.  
Offered Fall, Spring

**KIN 190. Intercollegiate Athletics - Sports Men. (1 Units)**

Instruction and participation in selected major team sports such as basketball, baseball, golf, and soccer that comprise the intercollegiate athletic program. Repeatable course.  
Offered Fall, Spring

**KIN 191. Intercollegiate Athletics - Sports Women. (1 Units)**

Instruction and participation in selected major team sports such as basketball, softball, volleyball, cheerleading, soccer, and cross country that comprise the intercollegiate athletic program. Repeatable course.  
Offered Fall, Spring

**KIN 218. First Aid And Cpr. (3 Units)**

Provides opportunity to qualify for American Red Cross certification in Standard First Aid and CPR. Students study and practice administering first aid techniques; examine accident and injury prevention measures; and train to master cardiopulmonary resuscitation techniques. Fee required.  
Offered As needed

**KIN 223. Intro To Pe. (3 Units)**

Examination of bodies of knowledge that make up the fields of Physical Education and Dance Education. Analysis of how disciplinary theories translate into workable practices in a diverse culture. Course includes career guidance and overview of career options. (Students entering the Physical Education major are required to enroll in this course their first semester of study.)

Offered Fall, Spring

**KIN 233. Prac.in Phys.Act.Instruction. (3 Units)**

Designed to provide initial instruction in a variety of pedagogical knowledge related to teaching physical education for grades K-12. Students will be provided with opportunities to learn and demonstrate current best teaching practices. Emphasis is placed on learning and practicing effective planning, teaching, and reflective behaviors.

Offered Fall, Spring

**KIN 235. Lifetime Fitness. (3 Units)**

Examination of components of fitness; training principles, energy sources; nutrition and weight control research; stress reduction techniques; and fitness programs. Fitness assessment and development of personalized fitness program. Meets General Education requirement for Whole Person.

Offered Fall, Spring

**KIN 250. Analysis of Aquatics. (2 Units)**

Analysis and refinement of skill requirements; examination of concepts, rules, strategies, history and appreciations; and adaptations for special populations related to swimming, diving, synchronized swimming, aqua aerobics, water games and water safety. One hour of lecture and two hours of activity per week. Fee required.

Offered As needed

**KIN 251. Analysis of World Dance. (0 Units)**

Analysis and refinement of skill requirements; examination of concepts, movement theories, history, culture and appreciations; and adaptations for special populations related to modern dance, jazz, ballet, social dance, folk dance, ethnic dance and dance-exercise. One hour of lecture and two hours of activity per week. Fee required.

Offered As needed

**KIN 252. Analysis Artistic & Rhyth Gym. (2 Units)**

Analysis and refinement of skill requirements; examination of concepts, movement theories, judging, history and appreciations; and adaptations for special populations related to stunts, tumbling, floor exercise; apparatus work and object manipulation required of artistic and rhythmic gymnastics. One hour of lecture and two hours of activity per week. Fee required.

Offered As needed

**KIN 253. Analysis Archery Bowling & Golf. (2 Units)**

Analysis and refinement of skill requirements; examination of concepts, rules, strategies, history and appreciations; and adaptations for special populations related to the individual sports of archery, bowling and golf. One hour of lecture and two hours of activity per week. Fee required.

Offered As needed

**KIN 254. Analysis Cond & Martial Arts. (2 Units)**

Analysis and refinement of skill requirements; examination of concepts, rules, strategies, underlying principles, history, culture and appreciations; and adaptations for special populations related to all components of physical conditioning, weight training and martial arts. One hour of lecture and two hours of activity per week. Fee required.

Offered As needed

**KIN 255. Anlys Tennis Pad Ten & Racball. (2 Units)**

Analysis and refinement of skill requirements; examination of concepts, rules, strategies, history and appreciations; and adaptations for special populations related to tennis, paddle tennis, racquetball and non-traditional racquet games. One hour of lecture and two hours of activity per week. Fee required.

Offered As needed

**KIN 256. Anly Badminton & Team Handball. (2 Units)**

Analysis and refinement of skill requirements; examination of concepts, rules, strategies, history and appreciations; and adaptations for special populations related to individual and dual sports of badminton and team handball. One hour of lecture and two hours of activity per week. Fee required.

Offered As needed

**KIN 257. Anly Softball & Track & Field. (2 Units)**

Analysis and refinement of skill requirements; examination of concepts, rules, strategies, history and appreciations; and adaptations for special populations related to softball, track and field, and non-competitive diamond games. One hour of lecture and two hours of activity per week. Fee required.

Offered As needed

**KIN 258. Anlys Basketball & Volleyball. (2 Units)**

Analysis and refinement of skill requirements; examination of concepts, rules, strategies, history and appreciations; and adaptations for special populations related to team sports of basketball and volleyball. One hour of lecture and two hours of activity per week. Fee required.

Offered As needed

**KIN 259. Anlys Flag Football & Soccer. (2 Units)**

Analysis and refinement of skill requirements; examination of concepts, rules, strategies, history and appreciations; and adaptations for special populations related to the field sports of flag football and soccer and non-traditional field activities. One hour of lecture and two hours of activity per week. Fee required.

Offered As needed

**KIN 260. Sports Officiating. (2 Units)**

Rules, mechanics and officiating procedures for men's and women's sports at the interscholastic and intercollegiate levels.

Offered As needed

**KIN 290. Human Anatomy & Physiology I. (4 Units)**

Introduction to human anatomy and physiology I. Structure and function of the body systems are covered, with special emphasis on body orientation and anatomic position, basic physio-chemistry, musculoskeletal, and nervous systems. Tailored majors in kinesiology and pre-allied health professions.

Offered Fall, Spring, Summer

**KIN 291. Human Anatomy & Physiology II. (4 Units)**

A continuation of Human Anatomy & Physiology I. Body systems covered in this part are the cardiopulmonary, digestive, renal and reproductive systems. Tailored majors in kinesiology and other health professions.

Offered Fall, Spring, Summer

**KIN 295. Special Topics in Kinesiology. (4 Units)**

Intensive study of a physical education topic of current interest. Repeatable course. Three hours lecture and three hours lab. Consent required.

Offered Fall, Spring

**KIN 300. Tests and Measurements in Physical Education. (3 Units)**

Analysis, evaluation, interpretation, and use of tests and other assessment methods in physical education. Application of statistical procedures. Fee required.

Offered Fall, Spring, Summer

**KIN 301. Kinesiology. (3 Units)**

Prerequisites: BIO 250 and BIO 251 and either high school or college physics. Examination of anatomical structure, function, and mechanical principles relating to human motion, including analytical and practical application of concepts. Two hours of lecture and three hours of laboratory per week. Fee required.

Offered Fall, Spring

**KIN 302. Technology Methods in Physical Education and Recreation. (3 Units)**

Provides students with information on, training in, and experience with various technology methods and applications related to the Physical Education and Recreation professions. One hour of lecture and two hours of laboratory activity per week.

Offered As needed

**KIN 303. Exercise Physiology. (4 Units)**

Prerequisites: KIN 300; BIO 250 and BIO 251 and either high school or college chemistry. Study of human function under the stress of muscular activity per week. Investigation of acute and chronic effects of exercise on the muscular, pulmonary, cardiovascular, nervous and energy systems. Examination of principles of training and nutrition. Three hours of lecture and three hours of laboratory per week. Fee required.

Offered Fall, Spring, Summer

**KIN 304. Introduction to Adapted Physical Education. (3 Units)**

Prerequisite: KIN 301. Study of prevalent disabilities with implications for adapted physical education program development, implementation and evaluation at the elementary and secondary levels.

Offered Fall, Spring

**KIN 305. Motor Learning. (3 Units)**

Prerequisite: KIN 300. Study of human development and learning in the motor domain. Examination of factors such as growth and maturation, instructional procedures, sensory and perceptual systems, motor control, and assessment of motor development.

Offered Fall, Spring

**KIN 306. Biometric of Human Movement. (3 Units)**

Prerequisites: Bio120/120L, KIN291, CHE 110, PHY 120, KIN 223, Degree 300's:KIN 300, 301. This course provides students with the knowledge of movements as it relates to physics. Students will learn biomedical principles and concepts as they relate to human movement, exercise, and sports.

**KIN 310. Nutrition for Peak Performance. (3 Units)**

Prerequisite: KIN 303 Presents principles of nutrition as they apply to sport, exercise, and peak performance. Topics presented include: energy release, metabolism, and substrate utilization during exercise, ergogenic aids, fluid intake, pre-game meals, and health issues related to nutrition.

Offered Fall, Spring, Summer

**KIN 320. History and Philosophy of Physical Education. (3 Units)**

Prerequisite: KIN 223. Study of historical roots and evolution of physical education, changing value systems that shape physical education philosophies, and administrative practices which lead to making informed program decisions.

Offered Fall, Spring

**KIN 330. Sport and Exercise Psychology. (3 Units)**

Prerequisite: PSY 101 is required. Through writing, this course examines psychological theories and research and their application to the sport/physical activity-related affect, behaviors, and cognitions of individuals. This course explores how the use of disciplinary knowledge assists individuals to better communicate within a healthcare framework.

Restricted to majors. A grade of C or better in this course fulfills the GVAR requirement for all Physical Education and Exercise Science majors.

Offered Fall, Spring, Summer

**KIN 360. Prev & Treat Ath Injuries. (3 Units)**

Prerequisites: BIO 250, BIO 251 and KIN 301. Prevention, examination, and treatment of athletic injuries. Includes methods of taping, bandaging, therapeutic exercises, training room equipment, protective devices and supplies. Two hours of lecture and three hours of laboratory per week.

Fee required

Offered Fall, Spring

**KIN 362. Principles of Athletic Training. (3 Units)**

Prerequisites: BIO 250 and BIO 251, KIN 301. The scientific and clinical foundation of the field of athletic training. Emphasis placed on athletic trainer's role and responsibilities. In depth study of risk management, prevention, evaluation, recognition, treatment, and rehabilitation of athletic injuries.

Offered Fall, Spring

**KIN 363. Principles of Athletic Training Laboratory. (1 Units)**

Prerequisite(s): KIN 290 or equivalent. Co-requisite(s): KIN 362. Emphasis on knowledge, skills, and taping techniques for common athletic injuries and related evaluation procedures.

Offered Fall, Spring

**KIN 375. Clin Exp I. (1 Units)**

Prerequisites: BIO 250, BIO 251, and KIN 218. Corequisites: KIN 362, KIN 363. Introduction to clinical experience in athletic training settings. Basic understanding of clinical aspect of the training profession. Students in this class are required a minimum 50 hours of observation and 150 hours of clinical experience (a minimum of 10 per week) in athletic training settings.

Offered As needed

**KIN 376. Clinical Experience II. (1 Units)**

Prerequisites: KIN 362, KIN 363, KIN 375. Application of taping, wrapping, bracing, and padding skills; risk management; assessment and evaluation; pharmacology and nutrition; therapeutic modalities; therapeutic exercise; specific injury management. Requires a minimum of 250 clinical experience hours (a minimum of 16 hours a week) in an athletic training setting.

Offered As needed

**KIN 377. Clinical Experience III. (1 Units)**

Prerequisites: KIN 376, KIN 461, and KIN 463. Corequisites: KIN 462 and KIN 464. The application of therapeutic exercise; surgery observation; specific injury management; clinical experience in various sports teams. Requires a minimum of 250 clinical experience hours (a minimum of 16 hours a week) in an athletic training setting.

Offered As needed

**KIN 425. Pe In The Elementary Sch. (3 Units)**

Prerequisite: In order to begin the hours for fieldwork in this course, you will need a valid Certificate of Clearance (fingerprints) and proof of a negative TB (within 4 months of the fieldwork course beginning). For information on submitting these documents, contact the Center for Teaching Careers. Overview of bodies of knowledge in the field of physical education and their application to elementary physical education. Analysis of educational theories and practices as they relate to effectively teaching physical education to elementary school children. Course includes peer teaching lessons. Two hours of lecture and two hours of activity per week. Fee required.  
Offered Fall, Spring

**KIN 426. Directed Teaching in Elementary Physical Education. (2 Units)**

Prerequisites: KIN 425. In order to begin the hours for fieldwork in this course, you will need a valid Certificate of Clearance (fingerprints) and proof of a negative TB (within 4 months of the fieldwork course beginning). For information on submitting these documents, contact the Center for Teaching Careers. Planned directed teaching in elementary physical education at a cooperating elementary school under professional supervision. Repeatable course.  
Offered Fall, Spring

**KIN 447. Dan Educ in the Elem School. (3 Units)**

Prerequisite: In order to begin the hours for fieldwork in this course, you will need a valid Certificate of Clearance (fingerprints) and proof of a negative TB (within 4 months of the fieldwork course beginning). For information on submitting these documents, contact the Center for Teaching Careers. Study of developmentally appropriate dance education activities for children. Examination of and practice in blending pedagogical content knowledge with subject matter knowledge to optimize teaching and learning. Course culminates in peer teaching lessons, reflections and self-assessment.  
Offered Fall, Spring

**KIN 448. Tchg Effect Sec PE. (3 Units)**

Prerequisite: See lower division requirements for major. In order to begin the hours for fieldwork in this course, you will need a valid Certificate of Clearance (fingerprints) and proof of a negative TB (within 4 months of the fieldwork course beginning). For information on submitting these documents, contact the Center for Teaching Careers. Analysis and application of recent advances in teaching methodology, observation techniques, organization and management strategies, and skill and knowledge acquisition as they relate to effectively teaching secondary physical education. Course includes peer teaching lessons. Two hours of lecture and two hours of activity per week.  
Offered Fall, Spring

**KIN 449. Dir Tchg In Sec PE. (2 Units)**

Prerequisites: KIN 448. In order to begin the hours for fieldwork in this course, you will need a valid Certificate of Clearance (fingerprints) and proof of a negative TB (within 4 months of the fieldwork course beginning). For information on submitting these documents, contact the Center for Teaching Careers. Planned directed teaching in secondary physical education at a cooperating secondary school under professional supervision. Repeatable course.  
Offered Fall, Spring

**KIN 450. Teaching Dance. (1 Units)**

Prerequisite: Intermediate level technique class. Analysis and application of recent advances in teaching methodology, observation techniques, organization and management strategies, and skill and knowledge acquisition as they relate to effectively teaching elementary, secondary and college dance. Course includes peer teaching experience.  
Offered As needed

**KIN 461. Therapeutic Modalities. (3 Units)**

Prerequisites: BIO 250, KIN 362, KIN 363, and KIN 375. A theoretical clinical basis for using therapeutic modalities, providing knowledge regarding the scientific basis and physiological effects of modalities in the treatment and rehabilitation of athletic injuries. Fee required.  
Offered Fall, Spring

**KIN 462. Therapeutic Exercise. (3 Units)**

Prerequisites: BIO 250, KIN 362, KIN 363, KIN 375. A theoretical and clinical basis for implementation and intervention of therapeutic exercise; understanding the basic principles and effects of the variety of therapeutic exercise techniques; and designing therapeutic exercise programs.  
Offered Fall, Spring, Summer

**KIN 463. Lower Extremity Assessment. (3 Units)**

Prerequisites: KIN 375. Recommended corequisite: KIN 461. Recognition and evaluation of orthopedic and athletic injuries; identifying signs, symptoms and mechanisms of injuries; performing special tests for specific orthopedic pathologies related to the lower extremity.  
Offered Fall, Spring

**KIN 464. Upper Extremity Assessment. (3 Units)**

Recommended prerequisite(s): KIN 290 or equivalent. Recommended co-requisite(s): KIN 462. Recognition and evaluation of orthopedic and athletic injuries; identifying signs, symptoms and mechanisms of injuries; performing special tests for specific orthopedic pathologies related to the upper extremity.  
Offered Fall, Spring

**KIN 465. Administration of Athletic Training Programs. (3 Units)**

Prerequisites: KIN 461, KIN 462, KIN 463, and KIN 464. Administration and management strategies of the field of athletic training and sports medicine. Organization planning ideas including principles and knowledge of program, human, financial, and information management: facility design and planning; legal aspects and ethical issues.  
Offered As needed

**KIN 470. Coaching Techniques for Selected Sports. (2 Units)**

Prerequisites: KIN 253, KIN 256, KIN 257, KIN 258 and KIN 259; three out of five are recommended. Analysis and practical application of techniques for coaching selected sports. Emphasis on organization and conduct of athletic programs, including program development, coaching strategies, practice sessions, academic advisement, recruiting and scouting.  
Offered As needed

**KIN 471. Fitness Assessment and Exercise Prescription. (3 Units)**

Prerequisites: Lower division requirements: Bio 120/120L, KIN 290, KIN 291, CHE 110, PHY 120, KIN 223, Degree 300s: KIN 300, 301,303,305,306,310,330,360. This course provides student with the knowledge to conduct physical fitness tests and develop an exercise prescription for different populations. Emphasis will be placed on testing and prescription for the major component of physical fitness.

**KIN 473. Principles of Sport Performance Training. (3 Units)**

Prerequisites: Lower division requirements: BIO 120/120L, KIN 290,291, CHE 110, PHY120,KIN 223. Degree300s: KIN 300, 301, 305, 306, 310, 330,360. This course provides student with the knowledge of sports performance assessments and program design for different athletic populations. Emphasis will be placed sports specific testing, periodizing programming, and training techniques for specific sports and athletes.

**KIN 475. Complementary and Integrated Healthcare. (3 Units)**

Lower division requirements: Bio 120/120L, KIN 290, KIN 291, CHE 110, PHY 120, KIN 223 Degree 300s: KIN 300, 301,302,305,310,330,360. This course will provide student with the knowledge regarding complimentary and alternative healthcare. Student will learn about different eastern and western therapeutic treatment such as acuoncture, cupping, energy medicine, yoga and more.

**KIN 476. Clinical Experience IV. (1 Units)**

Prerequisites: KIN 377, KIN 462, KIN 463, and KIN 464. Corequisite: KIN 465. The application of specific injury management; clinical experience in various sports teams. A minimum of 250 clinical experience hours (a minimum of 16 hours a week) in an athletic training setting are required.

Offered As needed

**KIN 477. Clinical Experience V. (1 Units)**

Prerequisites: KIN 476. The application of specific injury management; clinical experience in various sports teams; peer teaching and supervision. A minimum of 250 clinical experience hours (a minimum of 16 hours a week) in an athletic training setting are required.

Offered As needed

**KIN 480. Athletic Training Seminar. (2 Units)**

Prerequisites: KIN 465 and KIN 476. Course is designed for senior students who are preparing for he NATA BOC examination. Students in this course are senior level students who have either completed all necessary NATA competencies or are in their last semester and currently completing the necessary competencies.

Offered As needed

**KIN 490. Senior Seminar in Physical Education. (1 Units)**

Prerequisite: Senior year. For Physical Education majors. Practice writing and presentation skills through self-reflection, evaluation, and connecting subject matter areas. Peer and faculty evaluation of student portfolios, resume writing, curriculum development, mock interviews and program assessment will be included in the curriculum. One hour of seminar per week.

Offered Fall, Spring

**KIN 493. Clinical Experiences in PT/AT. (3 Units)**

Planned internship in Pre-PT at a cooperative institution, agency or clinical setting under professional supervision. Application of the principles and skills acquired in the Pr-PT program. Repeatable Course

Offered Fall, Spring

**KIN 494. Physical Education: Independent Study. (1-3 Units)**

Prerequisites: Physical Education Major or Minor; upper division standing. Independent study in physical education, with each student participating in a special project mutually agreed upon by student and instructor. Repeatable course.

Offered Fall, Spring

**KIN 495. Special Topics:. (1-3 Units)**

Intensive study of a physical education topic of current interest. May be repeated for credit to a maximum of 6.0 units. Repeatable course. One to three hours of lecture per week.

Offered As needed

**KIN 496. Internship. (1-3 Units)**

Prerequisites: Physical Education Major or Minor and upper division standing are required. KIN 448 is recommended. Planned internship in physical education at a cooperating institution, agency or company under professional supervision. Repeatable course.

Offered Fall, Spring

**KIN 498. Directed Research. (1-3 Units)**

Prerequisite: Consent of instructor. The student develops and completes an individual study under faculty supervision. Repeatable course.

Offered As needed

**KIN 500. Seminar in Contemporary Issues/Topics and Trends in Physical Education. (3 Units)**

Analysis of current trends, issues, and problems in Physical Education academic and athletics programs; examination and analysis of literature and research findings. Three hours of seminar per week.

Offered As needed

**KIN 504. Physical Fitness Evaluation and Exercise Prescription. (3 Units)**

Prerequisites: KIN 303 is required; KIN 218 is recommended. Evaluation of cardiovascular fitness, respiratory capacity, body composition, strength, muscular endurance and flexibility. Exercise prescription based upon individual needs, interests and preliminary health and fitness evaluations. Overview of American Psychological Association's research methodology.

Offered As needed

**KIN 514. Seminar in Curriculum Development in Physical Education. (3 Units)**

Intensive study, evaluation, and application of current developments in curriculum theory and practice for Elementary-Secondary School Physical Education. Includes designing an innovative physical education/wellness curriculum project. Three hours of seminar per week.

Offered As needed

**KIN 516. Public Relations and Development. (3 Units)**

The study of public relations and development issues related to the fields of physical education and athletics in K-16 school settings. The student will develop news releases, design promotional public information, develop mediated presentations addressing programs and development

Three hours of seminar per week.

Offered As needed

**KIN 593. Fieldwork in Physical Ed Admin. (3 Units)**

Prerequisites: GED 571 and KIN 500 are required; KIN 514 and KIN 516 are recommended. Supervised field experiences at the school level to include actual job performance in both supervision and administrative in Physical Education or Athletics. Students will demonstrate competencies required by the Educational Administration approved program. CR/NC grading.

Offered As needed

**KIN 595. Special Topics in Kinesiology. (3 Units)**

Prerequisite: Consent of instructor. Advanced course of special interest to graduate students. Topic and content will vary as announced.

Offered As needed

**KIN 599. Thesis/Creative Project. (3 Units)**

Prerequisites: KIN 500, KIN 514, KIN 516, KIN 593 are required. Student will execute an individually planned research effort or creative project. Students work under individual supervision with assigned faculty. May be repeated up to 6 units.

Offered As needed

**KIN 600. KIN Grad Continuation Course. (1 Units)**

Graduate students who have completed their course work but not their thesis, project, or comprehensive examination, or who have other requirements remaining for the completion of their degree, may maintain continuous attendance by enrolling in this course.

Offered Fall, Spring

## Labor Studies (LBR)

### **LBR 101. Introduction to Labor Studies: Work, Wealth and Power. (3 Units)**

Explore questions including: What is work's purpose? What are our rights on the job? How have labor struggles uplifted working class communities and shaped the global political economy? How can unions fight for social, racial, and gender justice across borders?

Offered Fall

### **LBR 200. Labor and the Environment. (3 Units)**

The course will pursue an understanding of the consequences of climate policies for different categories of workers, identified by economic sector, geographic location, gender, migration and immigration, and national status.

Offered Fall, Spring

### **LBR 201. Work/Life: Purpose, Power, and Identity. (3 Units)**

Explore: What is the role of work in a life well-lived? How do various cultures view work? should we pursue work we love? That society needs? How do we handle workplace stress, occupational health, and integrating careers with other commitments?

Offered All terms

### **LBR 202. Class Struggles in Film and Popular Culture. (3 Units)**

How are workers' lives portrayed in popular culture? We examine media in global context, discussing how image, text, and sound are used to tell workers' stories across gender, race, and sexual orientation as they stand up for dignity and justice.

Offered Spring

### **LBR 310. Success and Values. (3 Units)**

Explores the various ways people and institutions in the Americas define success, with the underlying question, does one have to sacrifice one's values to achieve success.

Offered Fall, Spring

### **LBR 312. Decade of the Sixties. (3 Units)**

Explores the sociopolitical milieu that incited the unrest of the Sixties, with the war in Vietnam at the center. Focuses on the interaction between writers, musicians, activists, labor and religious leaders, and the social movements of the time.

Offered Fall, Spring

### **LBR 313. The Future of Workers and Work. (3 Units)**

Will the robots take our jobs? Course explores how automation, climate change, labor unions, and precarious work arrangements will affect the workplace in decades to come, and outcomes for women, immigrants and workers of color

Offered Fall, Spring

### **LBR 314. Key Issues: American Dream. (3 Units)**

Explores the concept of the American Dream as it is expressed through literature, art, film, etc. and how people interpret the meaning of the concept in their own lives in a multiracial society.

Offered Fall, Spring

### **LBR 316. Working Class and Education. (3 Units)**

What is the purpose of education? What functions does it perform and whose interests does it advance? Investigation of education as a network of institutions operating differently on different classes, races and genders. Evaluation of its position in relation with economy and governance.

Offered Fall, Spring

### **LBR 350. Research Methods for Social Change. (3 Units)**

Research methods developed by social movements to guide organizing and advocacy for social, economic, and political change. Proficiency in a range of illuminating statistical survey, interview, and mapping techniques used to expose and challenge exploitation and injustice.

Offered Spring

### **LBR 365. Racial Capitalism. (3 Units)**

Prerequisite: Upper division integrative coursework must be taken after 60 semester units and the lower division components of General Education (or their equivalent) have been completed. Focuses on the ways in which race and racism have been central to the political economic development of the U.S., with a particular focus on understanding how they were used to develop capitalism and how it impacts workers in our society.

Offered Fall, Spring

### **LBR 395. Special Topics in Labor Studies. (1-4 Units)**

Prerequisite: Consent of instructor. Course of special interest for students in the selected area of study. Topic and content will vary as announced.

Offered As needed

### **LBR 411. Contracts & Negotiations. (3 Units)**

The process of negotiating, writing and enforcing a labor contract.

An overview of the historical events that have affected contemporary negotiation practices. A survey and analysis of labor contracts in various sectors of industry, including a workshop in contract writing and negotiation.

Offered Fall

### **LBR 412. Labor Law. (3 Units)**

Legal history of the American labor movement. Survey of federal and state laws regulating employment, collective bargaining, contract clauses, arbitration, collective actions, lockouts, unfair labor practices and fair employment practices.

Offered Spring

### **LBR 490. Seminar In Labor Studies. (3 Units)**

Prerequisite: Senior standing or consent of instructor. An integrative course to study selected topics, to develop an overview of the field and to relate theory and practical application. Students will develop seminar papers as they complete an internship in a labor organization or research an area of labor studies. Three hours of seminar per week.

Offered Infrequent

### **LBR 494. Independent Study. (1-3 Units)**

Prerequisites: Consent of the instructor Independent study of particular topics in the subject area under the direction of a member of the subject department faculty. Repeatable course.

Offered Fall, Spring, Summer

### **LBR 495. Special Topics. (1-4 Units)**

Prerequisite: Consent of instructor. Advanced course of special interest for students in the selected area of study. Topic and content will vary as announced.

Offered Fall, Spring

### **LBR 496. Practicum Labor Studies. (3 Units)**

Prerequisites: Consent of instructor is required. Directed field research or supervised internship. Training and research in the practice and policies of a labor organization or labor-related governmental agency. Repeatable course.

Offered Spring

**LBR 590. Graduate Seminar. (3 Units)**

Co-requisite: MUS 180 is required. Studio instruction in an applied area that complements and provides additional depth to that which is offered in MUS 180. In depth study of Etudes, scales, arpeggios, and supplemental solo repertoire.  
Offered As needed

**LBR 594. Independent Study. (3 Units)**

A special project involving research or creative work in consultation with a faculty member. Repeatable for credit.  
Offered As needed

**LBR 595. Special Topics in Labor Studies:. (3 Units)**

Prerequisite: Consent of Instructor required. An intensive study of an issue or a concept in Labor Studies of special interest to faculty and students. Topics vary. Repeatable course  
Offered As needed

**LBR 598. Directed Research. (1-3 Units)**

Independent research under direction of supervising faculty member in Labor Studies or related field. A-B/NC grading only.  
Offered As needed

**LBR 599. Graduate Capstone. (1-3 Units)**

Supervised thesis or special project in Labor Studies.  
Offered As needed

## Law (LAW)

**LAW 240. Legal Environment of Business. (3 Units)**

Analysis of the legal process; functions and operations within a federal system; contracts; sales; tort liability as it impacts business; government regulation of business.  
Offered Fall, Spring, Summer

**LAW 340. Law Of Bus Organizations. (3 Units)**

Legal consequences of selection of one form of business organization over another; analysis of the law of corporations, partnerships, and agencies; law of the workplace; corporate ethics and social responsibilities.  
Offered Fall, Spring, Summer

**LAW 342. Employment Law. (3 Units)**

Prerequisites: LAW 240 is recommended. Overview of the laws impacting the workplace; anti-discrimination law; employee safety, health and privacy; the employer-employee contract; labor law; regulatory agencies; retirement compensation; other statutory rights.  
Offered Fall, Spring

**LAW 440. Legal Issues in E-Commerce. (3 Units)**

Prerequisites: LAW 240. This course covers the legal aspects of doing business on-line. Topics covered will include: on-line contracts, e-crimes, privacy, intellectual property, e-commerce taxation and e-payment systems.  
Offered Infrequent

**LAW 495. Special Topics in Law. (1-4 Units)**

Study of current topics in Law. Repeatable course  
Offered Infrequent

**LAW 595. Selected Topics in Law. (3 Units)**

Prerequisites: Graduate Standing. Intensive study of a specialized area of Law on a selected topic of particular interest to faculty and students. Three hours of seminar per week. Specific topic listed in class schedule. Repeatable course.  
Offered Infrequent

## Liberal Studies (LBS)

**LBS 203. Intersectional and Critical Foundations of Schooling and Teaching. (3 Units)**

Students will critically consider the historical and philosophical foundations of education by analyzing the purposes, structures, and functions of schools whilst centering the intersectional standpoints of various placed-at risk groups. Students will develop the knowledge and dispositions to empower themselves as reflective, creative, and transformative educators (3 units).  
Offered Fall, Spring, Summer

**LBS 205. Child and Adolescent Development. (3 Units)**

Overview of physical, cognitive, social and emotional development from conception through adolescence. Students will explore and reflect on conceptual and theoretical theories and methods as well as best practices for working with children and families in diverse/pluralistic communities.  
Offered Fall, Spring, Summer

**LBS 212. Service Learning in Urban Elementary Schools. (3 Units)**

Introductory course utilizes a service-learning approach to explore culturally and linguistically responsive teaching and learning environments in urban elementary schools. Students will observe, participate and reflect throughout the course with linkages to learning outcomes. Requires 30 hours of service.  
Offered Fall, Spring

**LBS 300. Early Field Experience. (3 Units)**

Prerequisite: California Commission on Teacher Credentialing Certificate of Clearance, current negative TB documentation and scores for all three sections of the CBEST. Provides Liberal Studies majors with planned, structured field experiences in classrooms at the elementary school level (K-6). A minimum of 30 hours of structured, documented observation/participation in public elementary schools (K-6) is required. CR/NC grading.  
Offered Infrequent

**LBS 301. Schooling in a Multicultural Society. (3 Units)**

Prerequisite: LBS 203 is required. Students will explore the themes of social justice education including the complex relationship between education and the multicultural society of the U.S. They will analyze social identities and how discrimination based on these factors translates into school structures, policies and practices.  
Offered All terms, Infrequent

**LBS 302. Responsive Teaching and Classroom Management. (3 Units)**

Prerequisites: LBS 301 and CCTC Certificate of Clearance, Negative TB Documentation and scores from all 3 sections of CBEST are required. Restricted to majors. Corequisite: LBS 303 is recommended. Students observe and think critically about culturally and linguistically responsive teaching and learning environments to develop knowledge of teaching and classroom management strategies and create inclusive, productive and well-structured learning environments. Requires 30 hours of observation in a public school.  
Offered All terms, Fall, Spring

**LBS 303. Teaching and Learning in Diverse Classrooms. (3 Units)**

Prerequisite: LBS 301 Co-requisite: LBS 302 is recommended. Restricted to majors. Examine theory, research and practice on teaching and learning in diverse classrooms. Using knowledge of educational research, child and adolescent development, and data on students and their communities, students analyze, design, and differentiate instruction to engage and support all learners.  
Offered Infrequent



**LBS 330. Bridging Cultures Through Literacy and Learning. (3 Units)**

Cultural dimensions of literacy and language acquisition in early years. Strategies for supporting heritage language, teaching comprehensive family literacy, English language development, and valuing culture in home and school. 10 hours of fieldwork in an urban setting with English learners.

Offered Fall, Spring

**LBS 340. Early Mathematical Concepts. (3 Units)**

Practice, principles and strategies in mathematics ages 0-5. Number sense, classification, measurement and geometry, patterning, mathematical reasoning; tools and manipulatives for teaching mathematics and pre-numeracy; planning, teaching, and evaluating a lesson. 10 hours of fieldwork in an urban preschool setting.

Offered Fall, Spring, Summer

**LBS 355. Writing in Education. (3 Units)**

Advanced grammar and composition for students preparing to be elementary school teachers. Focuses on professional writing modes and tasks for educators, including analytical educational writing, literature reviews, case studies, classroom observations, and school communications.

Offered Infrequent

**LBS 360. Blended Math Methods. (5 Units)**

Prerequisite: Admittance to the Integrated Option Program. Designed to develop students' mathematical content knowledge and pedagogical skills necessary for the effective teaching of elementary mathematics in the urban classroom.

Offered Infrequent

**LBS 370. Multicultural Studies. (4 Units)**

Prerequisite(s): LBS 203. Students will critically analyze the experiences of diverse students in U. S. PreK-12 schools by examining the structural and pedagogical implications on students' inter-sectional identities. They will draw on theories about child/adolescent development, learning, and differentiation to design instruction to effectively teach diverse students using the principles of social justice education.

Offered Fall, Spring

**LBS 375. The California Experience. (3 Units)**

Examination of the California experience through three interrelated social science disciplines: history, geography, and government. Specifically focuses upon academic content which prepares students to teach the broad range of K-8 California Content Standards.

Offered Fall, Spring

**LBS 380. Blended Science Methods. (4 Units)**

Prerequisite: Admittance to the Integrated Option Program. Students develop content knowledge and pedagogical methods in the natural sciences and technologies with an emphasis on astronomy, geology, meteorology, and oceanography. Inquiry-based teaching, disciplinary skills (including the scientific method), and interdisciplinary knowledge (crosscutting concepts) will be explored and students will reflect on the impact of science and technology on society.

Offered Fall, Spring

**LBS 400. Senior Seminar in Liberal Studies. (3 Units)**

Prerequisite: LBS 302; must have senior standing. Students will investigate key ideas from the California Curriculum Frameworks and Academic Content Standards. They will demonstrate competence in each of the major multiple subject matter content areas by creating a website portfolio, substantiating their learning each area. Students will also demonstrate an understanding of lesson planning and complete 10 hours of observation and participation in urban school setting.

Offered Fall, Spring

**LBS 402. Liberal Studies Integrated Capstone. (2 Units)**

Prerequisite: Admittance to Phase 3 of the Credential. Co-requisite: TED 437 is required. This capstone is designed to link theory and practice; students reflect on their learning, connecting subject matter knowledge and teaching. Students substantiate their learning with a philosophy of education paper, website portfolio, and an instructional planning and teaching cycle in an elementary classroom.

Offered Fall, Spring

**LBS 405. Engineering and the Arts in the Elementary. (3 Units)**

Co-requisite: LBS 400 is recommended. Restricted to majors. Must be a senior. Students will build the theoretical background and practical skills needed to design interdisciplinary, problem-based learning lessons with a focus on engineering and the arts. This will include inquiry teaching, STEAM and the K-8 Standards for Visual and Performing Arts.

Offered Fall, Spring, Summer

**LBS 410. Early Language and Literacy. (3 Units)**

Concepts and theories of language development and literacy from birth through age five. Topics include language development, play, emergent literacy, and age-appropriate literature. Emphasis on urban, diverse and inclusive preschool settings; second language learners and exceptional learners.

Offered Fall, Spring

**LBS 430. STEAM for Young Learners. (3 Units)**

Science, Technology, Engineering, Arts, and Math (STEAM) for Young Learners introduces future pK-3 educators to developmentally-appropriate curricula and experiences. A focus is placed on equitable, critical, and accessible approaches that are student-centered and holistically integrated across disciplines.

Offered Fall, Spring

**LBS 494. Independent Studies in Liberal Studies. (1-3 Units)**

Prerequisite: Consent of instructor and Liberal Studies Department Chair. Independent study in a topic related to the Liberal Studies Program.

Offered Infrequent

**LBS 495. Special Topics in Liberal Studies. (1-4 Units)**

Prerequisite: Consent of instructor and Liberal Studies Department Chair. A course in a topic related to the Liberal Studies Program of special interest to faculty and students for which no current course exists.

Offered As needed

**LBS 496. Special Fieldwork in Liberal Studies. (1-3 Units)**

Prerequisite: Consent of instructor and Liberal Studies department Chair. Fieldwork experience related to the Liberal Studies Program in settings other than public schools. CR/NC grading.

Offered Infrequent

## Library (LIB)

**LIB 150. Library Skills and Strategies. (2 Units)**

Designed to acquaint students with the use of academic libraries. Practical exercises will develop skills for effectively utilizing library resources to fulfill research needs. One hour of lecture and two hours of activity per week.

Offered As needed

**LIB 151. Fundamentals of Information Literacy. (3 Units)**

Explores how we seek, use, acknowledge, and transform information. Critically examines our behaviors and the information systems embedded in society. Focuses on psychological, sociological, and physiological relationships to information. Topics: information privilege, publishing, privacy, research practices, etc.

Offered Fall, Spring

**LIB 494. Independent Studies. (1-3 Units)**

Prerequisites: Consent of the instructor. Independent study of particular topics in the subject area under the direction of a member of the subject department faculty. Repeatable course.

Offered As needed

**LIB 495. Special Topics in Library Research. (1 Units)**

Prerequisite: Consent of instructor. In-depth study of information retrieval in a particular format or discipline, e.g. government documents, on-line databases, business resources. One hour of lecture per week.

Offered As needed

## Management (MGT)

**MGT 200. Global Organizational Ethics and Social Responsibility. (3 Units)**

Covers key issues involving ethics and social responsibility in global organizations. The course will focus on the interdependencies between people and their organizations. Will study historical ethical perspectives of major Eastern, Middle Eastern, and Western philosophies.

Offered Fall, Spring

**MGT 212. Small Business Management. (2.7 Units)**

Offered All terms

**MGT 213. Personnel Management. (2.7 Units)**

Offered All terms

**MGT 214. Advanced Management. (2.7 Units)**

Offered All terms

**MGT 216. Labor and Industrial Relns.. (2.7 Units)**

Offered All terms

**MGT 310. Management Theory. (3 Units)**

Focuses on the management processes of planning, organizing, leading, and controlling; includes discussions of social and ethical issues in business; case studies and written reports.

Offered Fall, Spring, Summer, All terms

**MGT 312. Organizational Behavior. (3 Units)**

Prerequisite: MGT 310. Causes and consequences of individual and group behavior in business, organizational communications, interpersonal relations, and conflict resolution; cases and role-playing.

Offered Fall, Spring, Summer

**MGT 330. New Venture Entrepreneurship. (3 Units)**

Prerequisites: ACC 230, MGT 310 and MKT 350 are required. Role of small business in America; project-oriented activities include establishing, financing, and operating independent business; designed to develop entrepreneurial skills and insights into beginning and managing a small startup business. This includes how to write a business plan.

Offered Fall, Spring

**MGT 412. Small Business Management. (3 Units)**

Prerequisites: ACC 230, MGT 310 and MKT 350. Role of small business in America; project-oriented activities include establishing, financing and operating independent businesses; designed to develop entrepreneurial skills and insights into managing a small business.

Offered Fall, Spring

**MGT 416. Leadership. (3 Units)**

Prerequisite: MGT 310 is required. An in-depth analysis of theories and practice of leadership. Course is designed to give the student an understanding of the leadership skills, styles, and behavior in a variety of managerial roles.

Offered Fall, Spring, Summer

**MGT 418. International Management. (3 Units)**

Prerequisite: MGT 310. Study of management processes such as planning, organizing, staffing, directing and controlling under conditions other than those found today in the United States. Countries studied vary from year to year; case analysis and class projects. Three hour of seminar per week.

Offered Fall, Spring, Summer

**MGT 419. Managing an E-Business. (3 Units)**

Prerequisite: MGT 310, senior status, completion of E-Commerce core or consent of instructor. The managerial implications of conducting E-Business. Introduces new business models and strategies used by E-Business and their impacts on organizational culture. Group exercises, case studies, and team projects required.

Offered Fall, Spring

**MGT 430. Strategic Communication. (3 Units)**

Development of effective strategic communication plans, including identification of key audiences and issues. Formulation of key messages, tactics, timeline, budget and evaluation. Exploration of the changing environment for business, reputation, corporate advertising, media, internal communications, government relations, and crisis communication.

Offered Infrequent

**MGT 490. Strategic Management Seminar. (3 Units)**

Prerequisites: Completion of all business core courses; BUS 445 and OMG 322 may be taken concurrently (priority will be given to graduating seniors). An integrating capstone course dealing with problems of business management; uses actual business cases for analysis and decision-making.

Offered Fall, Spring, Summer

**MGT 491. Bus Consulting Practicum. (3 Units)**

Prerequisites: Senior Status and completion of all business core courses. BUS 445, FIN 480, and OMG 423 may be taken concurrently (priority will given to graduating seniors). Business capstone courses offered in conjunction with Small Business Administration. Student teams participate in solution of actual business problems; field work required.

Offered Infrequent

**MGT 492. E-Commerce Practicum. (3 Units)**

An integrating practicum course dealing with all aspects of E-Commerce management; cases, lectures, and projects.

Offered As needed

**MGT 494. Independent Study in Mgt.. (3 Units)**

Prerequisite: Completion of at least two management concentration courses and approval of the Department Chair. Independent study of particular topics in Management under the direction of a full-time faculty member of the Business Administration Program. CR/NC grading.

Offered Infrequent

**MGT 495. Special Topics in Management. (3 Units)**

Prerequisites: MGT 310. Study of a current topic in Management. Repeatable course.

Offered As needed

**MGT 496. Internship in Management. (3 Units)**

Prerequisite: Completion of at least two management concentration courses and approval of the Department Chair. Under the direction of the Internship Coordinator, students work in a business organization applying skills and knowledge learned in the classroom. CR/NC grading. Repeatable course.

Offered Fall, Spring, Summer

**MGT 500. Human Behavior in Orgs. (3 Units)**

Prerequisite: MGT 310. An experiential course designed to teach management skills such as conflict resolution, motivation, leadership, and communication, as well as the functioning of groups. Case analysis and oral/written presentations required.  
Offered Fall

**MGT 503. Adv Topics in Internatl Mgt. (3 Units)**

Prerequisite: Graduate Standing. Applies international management practices and managerial behavior to decision making. Topics will include national differences in culture, strategies for communicating, cooperating across cultures, and managing global operations. Case analysis and oral/written presentations required.  
Offered Infrequent

**MGT 512. Seminar in Entrepreneurship. (3 Units)**

Prerequisite: MGT 500. Provides an understanding of the entrepreneur and the entrepreneurial process. Emphasis on new venture planning and establishment of new firms. The distinctive focus is enterprise creation. Case studies and live discussions with small business owners and successful entrepreneurs are featured.  
Offered Infrequent

**MGT 516. Leadership. (3 Units)**

Prerequisite: MGT 500. Builds on knowledge of leadership provided in the human behavior course, expands the scope and depth of knowledge of leadership theories, provides practice in basic leadership skills, and develops the student's self-knowledge of his or her preferred leadership styles.  
Offered Infrequent

**MGT 526. Leadership in the Service Industry. (3 Units)**

This course examines the major theories and practices of leadership in the service industry. Students will explore their own leadership abilities and engage in skill development activities in this course.  
Offered Infrequent

**MGT 590. Strategic Management. (3 Units)**

Prerequisite: Must be taken during the last semester in residence. Strategy, leadership from middle to top management perspective. Use of cases, readings, simulations to integrate functional fields of business. Requires team activities, strategy formulation/implementation, serving purpose of comprehensive project. Case analysis, oral/written presentation and computer usage required.  
Offered Infrequent

**MGT 594. Independent Study in Mgt.. (3 Units)**

Prerequisite: Graduate standing and completion of MGT 500. Independent study of particular topics in management under the direction of a full-time faculty member of the Business Administration Program. CR/NC grading. Repeatable course.  
Offered Infrequent

**MGT 595. Special Topics. (3 Units)**

Prerequisite: Graduate standing and completion of MGT 500. Intensive study of a specialized area in management on a selected topic of particular interest to faculty and students. Intended for students with senior or graduate standing. Specific topic listed in class schedule. Repeatable course.  
Offered Infrequent

## Marital & Family Therapy (MFT)

**MFT 400. Foundations to Marital Family Therapy. (3 Units)**

Course examines the theoretical underpinnings and fundamental concepts to marriage and family therapy. Focus will address a breadth of foundational information in Marital and Family Therapy in the following areas: Research methods, theories, and psychopathology.  
Offered Fall, Spring

**MFT 495. Special Topics in MFT. (1-4 Units)**

A course designed of special interest topics. Topic of content will vary as announced. Repeatable course  
Offered As needed

**MFT 496. Internship: Practicum Training Management. (0 Units)**

Practicum Training Management 0-unit course allows students to prepare, collect, manage and store essential MFT experience/information required for clinical training and proficiencies. Students will use the program's management system to document their academic knowledge and clinical skill in practical activities.  
Offered Fall, Spring, Summer

**MFT 515. Pre-Practicum I: Therapy Skills. (2 Units)**

Prerequisites: Admission to MFT program. Co-requisite: MFT 566, MFT 570, MFT 576 Instructional seminar and demonstration of supervised basic clinical skills, clinical interviewing, assessment, and clinical intervention in the classroom. Emphasis is placed on the therapeutic alliance, the self-of-the-therapist, and collaboration.  
Offered Fall

**MFT 520. Group Therapy. (3 Units)**

Prerequisites: MFT 525, MFT 572, MFT 584, MFT 586. Co-requisites: MFT 575, MFT 578, MFT 580. Course provides students with practical instruction and seminar in theory, therapy process and the use of empirically supported practice in group therapy. Attention is paid to group and contextual factors including age, ability, gender, sexual orientation, culture, and economic status.  
Offered Fall

**MFT 525. Pre-Practicum II Advanced Therapy Skills. (2 Units)**

Prerequisites: MFT 515, MFT 570, MFT 566, MFT 576. Co-requisites: MFT 572, MFT 584, MFT 586. Instructional seminar and demonstration of supervised advanced therapy skills in the classroom and in mental health settings with individuals, couples and families. Include assessments, diagnosis, treatment planning, case management, safety planning, clinical documentation, and assessment of legal and ethical issues.  
Offered Spring

**MFT 530. Community Mental Health. (3 Units)**

Prerequisites: MFT 520, MFT 575, MFT 578, MFT 580. Co-requisites: MFT 560, MFT 565, MFT 582. Instruction, seminar and activity in community mental health and case management skills. Emphasis includes competencies in mental health recovery-oriented care and resiliency in community mental health from both traditional and non-traditional MFT practices applying case management and systems of care.  
Offered Spring

**MFT 541. Practicum in MFT Fieldwork IV. (2 Units)**

Prerequisites: MFT 500, MFT 520, MFT 521, MFT 530, MFT 531, MFT 570, MFT 572, MFT 584. Fourth practicum required for program, concurrent with field placement and training experience. 8 hours per week required. CR/NC grading.  
Offered As needed

**MFT 560. Life Span, Family Development, and Aging. (3 Units)**

Prerequisite: MFT 520, MFT 575, MFT 578, MFT 580. Co-requisites: MFT 530, MFT 565, MFT 582. Instruction in family development and human sexuality across the lifespan; includes contextual factors (age, ability, gender, sexual orientation, culture, race/ethnicity, gender, class, socioeconomic). Addresses elder and dependent adults including biopsychosocial impacts of aging, long-term care, and treatment of abuse/neglect.

Offered Fall

**MFT 565. Assessment & Mental Health Treatment. (3 Units)**

Prerequisites: MFT 520, MFT 575, MFT 578, MFT 580. Co-requisites: MFT 530, MFT 560, MFT 582. A survey and supervised practice in empirically supported assessment to treat primary mental health conditions and common presenting problems in individuals, couples, and families. Includes six-hours hours on suicide prevention, evidence-based suicide risk assessments, treatments, and interventions.

Offered Spring

**MFT 566. Mental Health, Diagnosis, and Systemic Treatment. (3 Units)**

Required Prerequisite: Admission to MFT program. Required Co-requisites: MFT 515, MFT 570, MFT 576. Studies and analysis of human mental health as it affects the individual, couple, and family functioning. Development, identification, assessment, diagnosis, treatment planning, and techniques of common any and serious mental illness will be explored.

Offered Fall, Spring

**MFT 570. Theories and Techniques of Marital and Family Therapy I. (3 Units)**

Required Prerequisite: Admission to MFT program. Required Co-requisite: MFT 515, MFT 566, MFT 576. Major Marital and Family theories, research and practice used in the treatment of individual, couples and families from a systemic and biopsychosocial perspective.

Offered Fall

**MFT 572. Theories and Techniques of Marital Family Therapy II. (3 Units)**

Required Prerequisites: MFT 515, MFT 566, MFT 570, MFT 576. Required Co-requisites: MFT 525, MFT 584, MFT 586. A continuation of the major MFT theories, this course includes postmodern and evidence-based practices and techniques in marriage and family counseling applied to treatment of individual, couples and family.

Offered Spring

**MFT 574. Human Sexual Behavior. (3 Units)**

Advanced study of the psychological, physiological, and sociological aspects of human sexual behavior, with attention to the origin and treatment of sexual dysfunction in its environmental context. Examinations and/or papers used in evaluation.

Offered As needed

**MFT 575. Relational Therapy: Treatment of Couples and Partners. (3 Units)**

Prerequisites: MFT 525, MFT 572, MFT 584, MFT 586. Co-requisites: MFT 520, MFT 580, MFT 578. Instruction in treatment and assessment strategies necessary to treat couple/partner problem or sexual issues in conjoint therapy. Addresses issues related to age, ability, gender, sexual orientation, culture, race/ethnicity, socioeconomic, and spousal or partner dynamics associated with abuse assessments and interventions.

Offered Fall

**MFT 576. Human Communication, Theory, and Skill. (2 Units)**

Prerequisites: Admission to MFT program. Co-requisites: MFT 515, MFT 566, MFT 570. Instruction in the purposes, theory, and skills of communication applied to intrapersonal and interpersonal experience. The course addresses personal awareness, self-of-the-therapist, bias, and stereotyping to promote equity and diversity in clinical treatment.

Offered As needed

**MFT 578. Treatment Approaches with Children and Adolescents. (3 Units)**

Prerequisites: MFT 525, MFT 572, MFT 584, MFT 586. Co-requisites: MFT 520, MFT 575, MFT 580. Treatment focuses on diagnostic and treatment needs of children and adolescents from a systemic perspective to include familial and sociocultural considerations. Emphasis is placed on empirically supported and evidence-based treatment modalities.

Includes seven-clock hours on child abuse assessment and reporting.

Offered Fall

**MFT 580. Sociocultural Diversity & Marginalized Communities. (3 Units)**

Prerequisite: MFT 525, MFT 572, MFT 584, MFT 586. Co-requisite: MFT 520, MFT 575, MFT 578. Diversity factors (age, ability, gender, sexual orientation, culture, race/ethnicity, religion, spirituality, socioeconomic,) affecting human behavior in family and the larger community situated in complex societies. Additional emphasis is placed on clinical competency with diverse, marginalized and under-served populations in California.

Offered Fall

**MFT 582. Psychopharmacology and Mental Health Treatment. (3 Units)**

Prerequisite: MFT 520, MFT 575, MFT 578, MFT 580. Co-requisite: MFT 530, MFT 560, MFT 565. The impact of psychotropic medications on the behavioral and emotional states of individuals and on their relationships is addressed. Emphasis is placed on the development of vocabulary, basic knowledge of medications, how to assess effects and consultation/collaboration with prescribing physicians.

Offered Spring

**MFT 583. Research Methods in Marital Family Therapy. (3 Units)**

Prerequisites: MFT 530, MFT 560, MFT 565, MFT 582. Co-requisites: MFT 585, MFT 588, MFT 589. Emphasis will focus developing competencies in critical analysis and evaluation of published research, examining evidence-based research to improve practice, and conducting independent research. Generating hypothesis, research design, data collection, interpretation and utilization of findings in clinical practice will be summarized.

Offered Spring

**MFT 584. Law, Ethics, and Professional Practices. (3 Units)**

Prerequisites: MFT 515, MFT 566, MFT 570, MFT 576. Co-requisites: MFT 525, MFT 572, MFT 586. Current legal and ethical professional issues in marital and family therapy. Examination and application of BBS and AAMFT ethics and legal responsibilities.

Offered Fall

**MFT 585. Treatment of Substance Use, Addiction, and Dependence. (3 Units)**

Prerequisites: MFT 530, MFT 560, MFT 565, MFT 582. Co-requisites: MFT 583, MFT 588, MFT 589. Studies of the theories of substance use as they effect and relate to the family system. Explore advanced interviewing techniques, assessment procedures, recovery and relapse prevention, and implementation of evidence-based treatment modalities in family therapy.

Offered Fall

**MFT 586. Current Issues in Marital Family Therapy. (3 Units)**

Prerequisites: MFT 515, MFT 566, MFT 570, MFT 576. Co-requisites: MFT 525, MFT 572, MFT 584. Current and emerging issues in the field of MFT relevant to advancements in practice and influences on family, local and larger global community. Emphasis in contextual factors such as an economic status, culture, gender, race, ethnicity, sexual orientation, and ability.

Offered Spring

**MFT 588. Treatment of Trauma with Individuals, Couples, and Families. (3 Units)**

Prerequisites: MFT 530, MFT 560, MFT 565, MFT 582. Co-requisite: MFT 583, MFT 585, MFT 589. Treatment of trauma with individuals, couples, and family. Beginning and advanced techniques in assessment, diagnosis, treatment, and crisis intervention of child and elder abuse, domestic violence, rape, disaster, crime, and other trauma will be explored.

Offered Fall

**MFT 589. Advanced Therapeutic Approaches and Application. (2 Units)**

Prerequisites: MFT 530, MFT 560, MFT 565, MFT 582. Co-requisites: MFT 583, MFT 585, MFT 588. An inclusive survey of major theoretical approaches, integrative psychotherapies, evidenced-based practice, research, legal and ethical issues applied to individuals, couples and families. Case conceptualization, diagnosis, assessment, treatment planning and interventions are demonstrated utilizing vignettes, role play, and video demonstration.

Offered Spring

**MFT 590. Career Development, Theory, and Practice. (3 Units)**

Emphasis will focus on career development throughout life, to include theory, techniques and counseling practice. The interrelationship among social relationships, diversity including gender, culture, ethnicity, social class, sexual orientation, ability, and other factors, workplace, and career development will be examined.

Offered As needed

**MFT 594. Independent Study. (3 Units)**

Prerequisites: Consent of the instructor and Program Coordinator. Student must have completed at least twelve semester units. In consultation with a faculty member, the student will investigate in detail current research and scholarship in some area relevant to the field of Marital Family Therapy, or will complete a project involving original and creative research. Content of research will be specific to the program and licensure as an MFT.

Offered As needed

**MFT 595. Special Topics in MFT. (1-3 Units)**

A course designed of special interest topics. Topic of content will vary as announced. Repeatable course.

Offered As needed

**MFT 596. Practicum: Marital Family Therapy Traineeship. (3 Units)**

A multi-semester course that includes fieldwork training, on-site supervision and classroom participation. Traineeship occurs over a minimum of 12 months totaling a minimum of six semester units required for graduation.

Offered Fall, Spring, Summer

**MFT 597. Directed Reading MFT Comp Prep. (3 Units)**

In consultation with the faculty member, completion of readings to prepare for the comprehensive exam. The course is limited to students who have completed one year of courses. CR/NC grading. Course is repeatable for a total of 6 units.

Offered As needed

**MFT 599. Comprehensive Examination. (1 Units)**

Prerequisite: All Required Courses must be completed excluding Practicum: MFT Traineeship. Registration in MFT 599, Comprehensive Examination is limited to students who have advanced to candidacy and completed all degree coursework requirements with a grade of a B or better and a cumulative GPA of at least 3.0. Registration in the course is required to complete the comprehensive examination. The examination evaluates content that includes theories, assessment, diagnosis, treatment, crisis intervention, and law and ethics and requires evidence of application of theory, practice, and research.

Offered Spring

**MFT 600. Grad Continuation Course. (1 Units)**

Graduate students who have completed their course work but not their thesis, project, or comprehensive examination, or who have other requirements remaining for the completion of their degree, may maintain continuous attendance by enrolling in this course. Signature of graduate program coordinator required.

Offered As needed

## Marketing (MKT)

**MKT 350. Principles Of Marketing. (3 Units)**

Prerequisite: ECO 210 recommended. Survey of the marketing function, including the marketing environment and target markets; marketing strategy with emphasis on the marketing mix; social and ethical responsibilities of marketing.

Offered Fall, Spring, Summer

**MKT 351. Sales Mgt & Techniques. (3 Units)**

Prerequisite: MKT 350. Organizing, motivating and controlling the activities of the sales force. Developing the knowledge and skills of professional selling useful for accomplishing career objectives; cases and role playing required.

Offered Fall, Spring, Summer

**MKT 352. Advertising and Promotion MGT.. (3 Units)**

Prerequisite: MKT 350. Management and coordination of advertising, marketing public relations, and sales promotion; case analysis and presentations.

Offered Fall, Spring, Summer

**MKT 353. Retail Mktg Management. (3 Units)**

Prerequisite: MKT 350. Selecting store location, layout, merchandise goods, assortments, and selling to target market, including sales growth through direct marketing, franchising and acquisition; cases and field research required.

Offered Fall, Spring, Summer

**MKT 355. Consumer Behavior. (3 Units)**

Prerequisite: MKT 350 (may be taken concurrently). Consumer buying patterns, motivation, and search behavior; consumer decision-making process; interdisciplinary concepts from economics, sociology, psychology, cultural anthropology, and mass communications; case analysis and research projects.

Offered Fall, Spring, Summer

**MKT 358. International Marketing. (3 Units)**

Prerequisite: MKT 350. Analysis of international marketing problems including economic, social, cultural, technological, political, geographic and competitive forces; cases and projects.

Offered Fall, Spring

**MKT 445. New Product Development. (3 Units)**

Prerequisite: MKT 350. Focuses on product/service decisions and development processes. Covers the role of new products in marketing and corporate management, along with product policy concepts - product life cycle and product positioning. Case analysis, oral/written presentation and computer usage required.

Offered Infrequent

**MKT 450. Internet Marketing. (3 Units)**

Prerequisites: MKT 350. The principal focus of this course will be on understanding the marketing implications on internet marketing. Students will learn how internet marketing differs from traditional marketing and determine the role of marketing functions in internet programs; cases and projects.

Offered Fall, Spring

**MKT 451. Trade Show and Event Marketing. (3 Units)**

Prerequisite: MKT 350. How to create and manage trade shows, exhibits, and events successfully. Students will learn how to organize, plan, strategize, execute, and measure trade shows and events. Focuses on how to improve marketing productivity and effectiveness.

Offered Fall, Spring

**MKT 452. Sports & Entertainment Mkt.. (3 Units)**

Prerequisites: MKT 350. Theory and practice of the strategic marketing processes applied to sports and entertainment enterprises; planning marketing mixes; market selection decisions; distribution strategies; media mergers and acquisitions; cross platform marketing; regulation issues; sponsorships and events; readings and case studies.

Offered Fall, Spring, Summer

**MKT 454. Marketing Research. (3 Units)**

Prerequisites: MKT 350 and OMG 321. The marketing research process with an emphasis on cost versus value of information for decision-making: problem formulation, research design, sources of research data, measurement techniques and data collection, sampling techniques, data analysis, interpretation, and reporting; term research projects.

Offered Fall, Spring, All terms

**MKT 459. Sem In Marketing Mgmt. (3 Units)**

Prerequisites: Prior completion of at least four courses from the Marketing concentration; MKT 355, MKT 454, FIN 360 and OMG 322 are recommended. Comprehensive analysis of marketing management problems, functions, and the decision-making process; emphasis on the case method as related to problems of product, price, distribution and promotion.

Offered Fall, Spring

**MKT 494. Independent Study in Mkt.. (1-3 Units)**

Prerequisite: Completion of at least two marketing concentration courses and approval of the Department of Marketing Chair. Independent study of particular topics in Marketing under the direction of a full-time faculty member of the Marketing Department. CR/NC grading. Repeatable course.

Offered As needed

**MKT 495. Special Topics in Marketing. (3 Units)**

Prerequisite: MKT 350. Study of a current topic in Marketing. Repeatable course.

Offered As needed

**MKT 496. Internship in Marketing. (3 Units)**

Prerequisite: Completion of at least two marketing concentration courses and approval of the Department of Marketing Chair. Under the direction of the Internship Coordinator, students work in a business organization applying skills and knowledge learned in the classroom. CR/NC grading. Repeatable course.

Offered As needed

**MKT 500. Marketing Management. (3 Units)**

Prerequisite: MKT 350. Current topics in strategic marketing: strategic planning, market resource allocation, buying behavior, forecasting, product positioning. Social, legal, ethical and global issues in marketing will be explored. Case analysis oral/written presentations and computer usage required.

Offered Fall

**MKT 501. Marketing Information Mgt. (3 Units)**

Prerequisite: MKT 500. Learn important tools and databases needed by marketers for decision-making. The course explores the applications of marketing information as a competitive tool. Also covers marketing research tools and processes. Case analysis, oral/written presentation and computer usage required.

Offered Infrequent

**MKT 503. Intrnatl Mktg:Cases/Cur Issues. (3 Units)**

Prerequisite: MKT 500. Current topics in international marketing. Topics include strategic planning, global environmental variables, marketing research in international markets, export and import process and negotiations.

Offered Infrequent

**MKT 510. Business-to-Business Mkt. (3 Units)**

Prerequisite: MKT 501 or concurrent enrollment. Focuses on the strategies used for marketing products and services to commercial, institutional, and governmental markets. Case analysis, oral/written presentation and computer usage required.

Offered As needed

**MKT 512. Seminar in Services Marketing. (3 Units)**

Prerequisite: MKT 501 or concurrent enrollment. Examines the marketing and managerial implications of the differences between goods and services. Covers many service marketing concepts, including the relationship between the service provider and customer, the real-time process experience of services, customer satisfaction and service quality.

Offered As needed

**MKT 530. Negotiation and Presentations. (3 Units)**

Prerequisite: MKT 501 or concurrent enrollment. Introduces students to the best principles used in marketing negotiations. Students will understand characteristics of a good negotiator; critical elements in negotiations, strategies and tactics used for and against. Also includes improving communication through personal presentation.

Offered As needed

**MKT 531. Sales Management. (3 Units)**

Prerequisite: MKT 501 or concurrent enrollment. Discusses the strategic and tactical aspects of sales force management. Appropriate for students interested in careers in sales management or management positions in companies whose revenues and profits depend on a productive sales force.

Offered As needed

**MKT 545. New Product Development. (3 Units)**

Prerequisite: MKT 501 or concurrent enrollment. Focuses on product/service decisions and development processes. Covers the role of new products in marketing and corporate management, along with product policy concepts - product life cycle and product positioning. Case analysis, oral/written presentation and computer usage required. Offered As needed

**MKT 550. Internet Marketing. (3 Units)**

Prerequisite: MKT 501 or concurrent enrollment. Focuses on the marketing functions as they pertain to Internet Marketing, including the Internet marketing environment and target markets; marketing strategy with an emphasis on the marketing mix; social and ethical responsibilities. Case analysis, oral/written presentation and computer usage required. Offered As needed

**MKT 555. Seminar in Consumer Behavior. (3 Units)**

Prerequisite: MKT 501 may be taken concurrently. Focuses on managerial concerns related to the understanding of consumer buying patterns, motivations, and search behavior; consumer-decision making process; interdisciplinary concepts from economics, sociology, psychology, cultural anthropology, and mass communication. Offered Infrequent

**MKT 560. Brand Management. (3 Units)**

Prerequisite: MKT 500. The course explores the field of brand management through the use of case studies of leading marketers and their strategies for effectively building and managing brands. Topics include brand building, positioning, measuring, and managing brand equity. Offered Infrequent

**MKT 580. Strategic Marketing. (3 Units)**

Prerequisites: MKT 501 and three marketing electives; one marketing elective may be taken concurrently. Provides a comprehensive framework for the application of marketing concepts to the development and implementation of marketing strategy. Emphasizes the development of an effective marketing plan. Competitive computer simulation, case analysis, oral/written presentation and computer usage required. Offered As needed

**MKT 594. Independent Study in Mkt.. (3 Units)**

Prerequisite: Graduate standing and completion of MKT 500. Independent study of particular topics in Marketing under the direction of a full-time faculty member of the Business Administration Program. CR/NC grading. Repeatable course. Offered Infrequent

**MKT 595. Special Topics. (3 Units)**

Prerequisite: Graduate standing and completion of MKT 500. Intensive study of a specialized area in marketing on a selected topic of particular interest to faculty and students. Intended for students with a senior or graduate standing. Specific topic listed in class schedule. Repeatable course. Offered Infrequent

**MKT 596. Internship in Marketing. (3 Units)**

Prerequisite: Graduate standing and completion of MKT 500. Under the direction of the Internship Coordinator, students work in a business organization applying skills and knowledge learned in the classroom. CR/NC grading. Repeatable course. Offered Infrequent

## Masters in Social Work (MSW)

**MSW 500. Human Behavior and the Social Environment I. (3 Units)**

Co-requisites: MSW 510, MSW 520, MSW 523, and MSW 540. Focus on individual and family life span. Examine individual and family development in the context of social, political, historical, and cultural variables. Individual and family behavior is examined for its unique expressions of strength and abilities in the course of achieving psychosocial, cognitive, moral, and spiritual developmental tasks. Offered Fall

**MSW 501. Human Behavior and Social Environment II. (3 Units)**

Prerequisites: MSW 500, MSW 510, MSW 520, MSW 523, and MSW 540. Co-requisites: MSW 511, MSW 521, MSW 530, and MSW 541. HBSE II, the second of two companion courses, examines the interrelationships among social institutions, social structure and social processes, on the one hand, and the realities of the lives of individuals, families, groups, communities, organizations and societies, on the other. Offered Spring

**MSW 510. Social Welfare Policy I. (3 Units)**

Co-requisites: MSW 500, MSW 520, MSW 523 and MSW 540. The structure, functions and components of US social welfare policy are identified and critically analyzed to reveal its scope, reach and limitations; current and historically successful approaches and tools to improve policies, increase social justice and reduce inequalities are reviewed. Offered Fall

**MSW 511. Social Welfare Policy II. (3 Units)**

Prerequisites: MSW 500, MSW 510, MSW 520, MSW 523 and MSW 540. Co-requisites: MSW 510, MSW 511, MSW 530 and MSW 541. Preparation to engage in policy practices advancing social and economic well-being of individuals, families, organizations and administrative and legal aspects of policy provisions and advancing social justice. Offered Spring, Summer

**MSW 520. Generalist Social Work Practice I. (3 Units)**

Co-requisites: MSW 500, MSW 510, MSW 523, and MSW 540. Focuses on theories, models, and interventions of generalist social work practice when working with individuals and families. Emphasis is placed on effective and equitable multicultural and contextual service delivery and interventions with poor, vulnerable and oppressed populations. Offered Fall

**MSW 521. Generalist Social Work Practice II. (3 Units)**

Prerequisites: MSW 500, MSW 510, MSW 520, MSW 523, and MSW 540. Co-requisites: MSW 501, MSW 511, MSW 530, and MSW 541. Focuses on theories, models and principles for generic social work practice with groups, communities and organizations. Emphasis is placed on effective and equitable multicultural and contextual service directory and interventions with poor, vulnerable and oppressed populations. Offered Spring

**MSW 522. Clinical Interventions with Youth, Children and Families in Social Work. (3 Units)**

Prerequisites: MSW 500, MSW 501, MSW 510, MSW 511, MSW 520, MSW 521, MSW 530, MSW 540 and MSW 541 are required. Examines theories, principles and practices of family counseling, the life cycle and role of counselor in promoting change in families, utilizing CRT and Intersectionality. Ethical, legal and other professional issues related to family counseling will be covered. Restricted to Majors. Offered Fall

**MSW 524. Critical Race Studies in Social Work Practice. (3 Units)**

In-depth overview of Critical Race studies (CRS) in social work fields. Examination of the causes and symptoms of structural racism and social/racial hierarchies in underserved communities. Analysis of the history and development of CRS' application to practice issues. Restricted to MSW Program.  
Offered Fall

**MSW 530. Social Welfare Research. (3 Units)**

Co-requisites: MSW 500, MSW 510, MSW 520 and MSW 540. Critical assessment and mastery of research methodologies to systematically evaluate one's own social work practices, focusing on those used to evaluate published research studies, assess service and program delivery, and participate in conducting research as a professional social worker.  
Offered Fall

**MSW 531. Advanced Research. (3 Units)**

Required Prerequisites: MSW 500, MSW 501, MSW 510, MSW 511, MSW 520, MSW 521, MSW 524, MSW 530, MSW 540, MSW 541. Community-based participatory action (CPAR) research skills and knowledge are acquired and applied to a topic relevant to a social work organization to generate a collaborative research proposal with a client participation component.  
Offered Fall

**MSW 540. Fieldwork Practicum I. (3 Units)**

Co-requisites: MSW 500, MSW 510, MSW 520, and MSW 523. Supervised agency experience designed to develop generalist practice skills in working with individuals, families, groups and communities with emphasis on cross cultural practice. Two hours weekly seminar and 16 hours in agency placement. CR/NC grading.  
Offered Fall

**MSW 541. Fieldwork Practicum II. (3 Units)**

Prerequisites: MSW 500, MSW 510, MSW 520, MSW 523, and MSW 540. Co-requisites: MSW 501, MSW 511, MSW 521, and MSW 530. Supervised agency experience designed to apply the knowledge, skills and values learned in MSW 520 and MSW 521 and activities of MSW 540. Two hours of seminar and 16 hours in agency placement. CR/NC grading.  
Offered Spring

**MSW 550. Advanced Social Work Practice in Communities. (3 Units)**

Prerequisites: Completion of foundation year courses. Corequisite: MSW 570 and MSW 581. This course provides in depth overview of Social Work from a Community Practice perspective. It highlights contextual models of practice with communities as well as developmental, organizing, and planning approaches that are applicable to diverse populations. It will examine skills used by social workers to conduct culturally competent interventions.  
Offered Fall, Spring

**MSW 551. Social Policy III: Community Capacity Building. (3 Units)**

Prerequisites: Advanced year status and declaration of Community Capacity Building as specialization. Corequisite: MSW 570. Community Capacity Building's growing influence on social policies and achievements improving the well-being of individuals and families in poor urban neighborhoods are described and analyzed to prepare professional social workers to advance social, economic and environmental justice.  
Offered Spring

**MSW 553. Multicultural Perspectives of Practice. (3 Units)**

Prerequisites: Completion of foundation year courses. Corequisite: MSW 570. Theory and practice with ethnically, racially, religiously diverse populations utilizing a multidimensional, cross-cultural framework and case materials to analyze treatment issues and empowerment strategies.  
Offered Fall

**MSW 555. Advanced Practice in Administration and Leadership. (3 Units)**

Prerequisites: MSW 510, MSW 520, MSW 521, MSW 550, MSW 540, MSW 541, MSW 550, MSW 570. Corequisite: MSW 571. Introduces the concepts and theories involved in leadership, administration and management of a human services organization. Leadership styles will be examined, paying close attention to those who recognize diverse cultural styles and incorporate contextually competent approaches to administration.  
Offered Spring

**MSW 560. Social Welfare Policy III: Children, Youth and Families. (3 Units)**

Prerequisite: Advancement to Candidacy and completion of foundation year courses. Co-requisites: MSW 550, MSW 553, MSW 570 and MSW 598. Provides students with an advanced understanding of key issues, concepts and of key issues, concepts and skills associated with policy analysis and development of policy alternatives and political action on behalf of children, youth and families.  
Offered Spring

**MSW 561. Social Welfare Policy III: Community Health/Mental Health. (3 Units)**

Prerequisite: Advancement to Candidacy and completion of foundation year courses. Co-requisites: MSW 550, MSW 553, MSW 570 and MSW 598. Community mental health policies, programs, services and initiatives identified and critically assessed for quality, utilization, social justice considerations, and social work impact, using specialized policy analyses, professional activities and political actions focusing on populations-at-risk within and across affiliated organizations.  
Offered Spring

**MSW 570. Fieldwork Practicum III. (3 Units)**

Prerequisites: Completion of foundation year courses. Co-requisites: MSW 550 or MSW 551. Continued supervised agency experience at an advanced level in both direct and administrative program development areas within the student's area of concentration, with an emphasis on cross-cultural practice. One hour weekly seminar and 20 hours in agency placement. CR/NC grading.  
Offered Fall

**MSW 571. Fieldwork Practicum IV. (3 Units)**

Prerequisites: Completion of foundation year courses and MSW 550 or MSW 551, MSW 553, MSW 570, and MSW 598. Corequisite: MSW 555. Continued supervised agency experience at an advanced level in both direct and administrative program development areas within the student's area of concentration, with an emphasis on cross-cultural practice. One hour weekly seminar and 20 hours in agency placement. CR/NC grading.  
Offered Spring

**MSW 573. Core Concepts and Skills for Trauma-Informed Practice. (3 Units)**

Prerequisite(s): MSW 521 and MSW 570. This course facilitates students' acquisition of the knowledge, skills, and attitude necessary to effectively use 12 common trauma-informed practice elements in interventions and the treatment of traumatized children and their families. The course conceptualizes a trajectory of invention that considers the impact of trauma, intervention objectives, and the practice elements needed to facilitate the intervention objectives. This course is taught using an inquiry-based learning (IBL) pedagogy to enhance students' engagement and learning using full-length cases to exemplify a range of different clients a clinician might encounter.  
Offered Spring, Summer



**MSW 574. Seminar in Health Care and Gerontology. (3 Units)**

Prerequisites: MSW 500, MSW 501, MSW 510, MSW 511, MSW 520, MSW 521, MSW 524, MSW 530, MSW 540, and MSW 541 are required. Examines advanced social work practice in health care settings with persons of varying ages and advanced social work practice with older adults.

Offered Spring

**MSW 575. Grant Research and Proposal Writing. (3 Units)**

Prerequisites: MSW 500, MSW 501, MSW 510, MSW 511, MSW 520, MSW 521, MSW 524, MSW 530, MSW 540, and MSW 541 are required. Provides students with the knowledge and skills necessary to develop the fundamental components of a grant proposal to include needs assessment, program planning and development, abstract, background and significance, goals and objectives, project design and methods, evaluation, sustainability, outreach/marketing plan, budget and justification. Students will develop skills in researching and locating private and public funding opportunities.

Offered Spring

**MSW 576. Youth Empowerment or Community Change. (3 Units)**

Prerequisites: MSW 500, MSW 501, MSW 510, MSW 511, MSW 520, MSW 521, MSW 540, and MSW 541 are required. Examines strategies or engaging and empowering young people, with an emphasis on approaches in urban, racially segregated, and economically disinvested areas. Draws upon best practices from grassroots organizing, civic engagement, youth development, and child welfare.

Offered Spring

**MSW 580. Child Welfare Issues. (3 Units)**

Prerequisite: Advancement to candidacy. Identifies and critically analyzes a broad range of welfare issues related to children, youth and families, such as child maltreatment, poverty, race, gender, sexual orientation, and gang violence, focusing on contributing factors, recent research, policies and treatment modalities.

Offered Fall

**MSW 581. Seminar in Community Capacity Building. (3 Units)**

Prerequisite: Advanced year status and declaration of Community Capacity Building as Specialization. Co-requisites: MSW 550 and MSW 570. Focus is on the collaboration, assessment, implantation and evaluations of various strategies utilized to build capacity within communities. Students will apply the tenets of Asset and Social development to support/aid in the development of families, neighborhoods and communities.

Offered Fall

**MSW 582. Seminar in MH Issues. (3 Units)**

Prerequisite: Advancement to candidacy. Examines mental health from a community perspective. Cast in the context of the recovery model, theoretical perspectives examine assessment, treatment planning and approached to recovery and wellness. Critical Race Theory, cultural implications and outcomes will be examined.

Offered Fall

**MSW 590. Graduate Seminar in Integrative Learning. (3 Units)**

Prerequisite: Completion of all foundation-level MSW courses including Foundation Year field practicum. Students integrate mastery across course work and showcases key learning experiences and social work competencies. CR/NC grading.

Offered Spring

**MSW 592. Diagnostic Assessment in Social Work Practice. (3 Units)**

Restricted to majors. Overview of assessment for contextually and culturally competent social work practice using the DSM 5. A principle goal is to address, from a social justice standpoint, issues of social hierarchies and power in the use of diagnosis of mental health disorders.

Offered Summer

**MSW 594. Independent Study in Social Work. (3 Units)**

Independent pursuit of a topic or project which is proposed by the student. Study must be interdisciplinary and must be approved, in advance, by faculty member supervising study. Repeatable course. Non-repeatable.

Offered As needed

**MSW 595. Special Topics in Social Work. (1-3 Units)**

Advanced course of special interest for Social Work graduate students. Topic and content will vary as announced.

Offered As needed

**MSW 598. Directed Research. (3 Units)**

Prerequisite: Advancement to candidacy and consent of program coordinator. Co-requisites: MSW 551 or MSW 551, MSW 553, MSW 560 or MSW 561, and MSW 570. Extensive research on a subject related to the student's area of concentration under the guidance of a faculty member. Designed to prepare students for the Project, Thesis or their Comprehensive Examination. CR/NC grading.

Offered Fall

**MSW 599. Social Work Thesis. (3 Units)**

Prerequisite: Completion of all foundation-level MSW courses, including Foundation Year field practicum. Thesis option requires the student to design, implement, analyze and write up a formal research paper about an investigation into a topic relevant to the social work profession, which includes flexibility in terms of creativity and methodology. CR/NC grading

Offered Spring

**MSW 600. Graduate Continuation Course. (1 Units)**

Students who have completed their course work but not their directed project may maintain continuous enrollment by registering for this course with permission of the program coordinator.

Offered Infrequent

## Mathematics (MAT)

**MAT 2. Beginning Algebra. (2.7 Units)**

Offered All terms, Fall, Spring, Summer

**MAT 12. Trigonometry. (1.33 Units)**

Offered Fall, Spring, Summer, All terms

**MAT 100. Calculus Success Academy. (2 Units)**

Preparation for MAT 103, MAT 153, and MAT 191. Students will strengthen their problem solving and algebra skills while working collaboratively on math problems arising from various STEM disciplines. For students majoring in Biochemistry, Chemistry, Computer Science, Mathematics and Physics.

Offered All terms, Spring, Summer

**MAT 102. Foundations of Statistics. (3 Units)**

Preparation for MAT 105 or MAT 132. Fundamental mathematical and statistical reasoning, including linear functions, measures of center and spread, representative of data, interpreting graphs, counting methods. Not intended for science and math majors that require MAT 153 or higher.

Offered All terms, Fall, Spring, Summer

**MAT 103. Introduction to College Algebra. (4 Units)**

Preparation for MAT 151 College Algebra. Graphic, numeric, analytic and applied perspectives on algebraic concepts of linear and nonlinear functions, linear programming, exponents, radicals, exponential functions and transformation of functions. Intended for science and math majors. Offered All terms, Fall, Spring, Summer

**MAT 105. Finite Mathematics. (3 Units)**

Prerequisite: Quantitative Reasoning Placement Level 2 or completion of any of MAT 131, MAT 132, MAT 134, MAT 151, MAT 153, or MAT 191. Mathematics of finance, combinatorics, probability, statistical measures of central tendency and dispersion, problem solving and mathematical reasoning, and additional topical selected by instructor e.g. linear programming, statistics, graph theory, game theory. A-C-/NC grading. Satisfies the General Education Quantitative Reasoning Requirement. Offered Fall, Spring

**MAT 107. Mathematics for Elementary School Teachers: Real Numbers. (3 Units)**

Prerequisite: Quantitative Reasoning Placement Level 2 or completion of any of MAT 105, MAT 131, MAT 132, MAT 134, MAT 151, MAT 153, or MAT 191. Sets and set theoretic operations as related to counting numbers and rational numbers and arithmetic operations. Real number system and its origins, development, structure and use. Special emphasis on problem solving, and the development and application of algorithms. Does not satisfy General Education Quantitative Reasoning Requirement. Offered Fall, Spring, All terms

**MAT 111. Discovering Mathematics. (3 Units)**

Problem solving and applications of mathematics to personal and civic life involving chance and descriptive statistics and selected additional topics. Includes use of spreadsheets and other technologies. Not intended for majors that require statistics or calculus. A-C-/NC grading. Offered Fall, Spring

**MAT 131. Elementary Statistics and Probability. (3 Units)**

Prerequisite: Quantitative Reasoning Placement Level 2 or completion of any of MAT 105, MAT 151, MAT 153, or MAT 191. A practical course in probability and statistics including such topics as the binomial and normal distributions, confidence intervals, t, F, and chi-square tests, linear regression and correlation, and conditional probability. Satisfies the General Education Quantitative Reasoning Requirement. Offered Fall, Spring

**MAT 132. Statistics and Probability with Support. (4 Units)**

Recommended prerequisite: MAT 102 or GE Math Ready with Support (Level III) Includes the binomial and normal distributions, confidence intervals, linear regression and correlation, and conditional probability. Satisfies General Education Quantitative Reasoning Requirement. Offered Fall, Spring

**MAT 134. Statistics & Probability - Supported. (4 Units)**

MAT 134 is an introduction to statistics, including the binomial and normal distributions, confidence intervals, linear regressions and correlation, hypothesis testing, and conditional probability. Satisfies General Education Quantitative Reasoning. Not for students with credit for MAT 131 or MAT 132. Recommended for students designated "GE Ready with Support (Level III)." Offered Fall, Spring

**MAT 141. Computers for Mathematics Teaching. (3 Units)**

Quantitative Reasoning Placement Level 2 or completion of any of MAT 105, MAT 131, MAT 132, MAT 134, MAT 151, MAT 153, or MAT 191. Introduction to computers for teachers of mathematics. Topics include flowcharting, programming in LOGO on microcomputers. Applications of computers to problem solving, statistics, and other areas of mathematics relevant to teachers of mathematics. Applications packages, CAI and social issues are studied. A-C-/NC grading. Does not satisfy General Education Quantitative Reasoning Requirement. Offered Infrequent

**MAT 143. Problem Solving in Mathematics. (3 Units)**

Prerequisite: be Quantitative Reasoning Placement Level 2 or completion of any of MAT 105, MAT 131, MAT 132, MAT 134, MAT 151, MAT 153, or MAT 191. Objective is to increase students abilities to use knowledge and experience when encountering new and unexpected situations. Develop higher level thinking skills, learn to formulate, analyze, and model problems. Choosing relevant information, making conjectures, devising plans and testing solutions. A-C-/NC grading. Does not satisfy General Education Quantitative Reasoning Requirement. Offered Fall, Spring

**MAT 151. College Algebra and Trigonometry. (4 Units)**

Prerequisites: MAT 103 is required. Graphic, numeric, analytic and applied perspectives on topics including linear, quadratic, exponential, logarithmic and trigonometric functions, exponents and radicals, linear and nonlinear systems of equations and inequalities. Preparation for MAT 191: Calculus I. 3 units of discussion; 1 unit lab. Offered All terms, Fall, Spring

**MAT 153. Pre-Calculus with Trigonometry with Lab. (4 Units)**

Prerequisites: Math Placement Category Level 2 or completed GE Quantitative Reasoning. Topics include functions and their graphs; linear, quadratic, rational, exponential, and logarithmic functions; composition, transformation and arithmetic of functions; inverse function; inequalities; right-triangle trigonometry and circular motion; applications to contextual problems. This course is supported with Supplemental Instruction. Preparation for MAT 191: Calculus. Offered Fall, Spring

**MAT 155. Pre-Calculus. (4 Units)**

Prerequisite(s): Designation of "GE Ready (Level II)" or with permission of department. Topics include functions and their graphs; linear, quadratic, rational, exponential, and logarithmic functions; composition, transformation, and arithmetic of functions; inverse function; inequalities; right-triangle trigonometry and circular motion; applications to contextual problems. Preparation for MAT 191 Calculus. Offered Fall, Spring

**MAT 171. Survey of Calculus for Management and Life Sciences. (4 Units)**

Prerequisite: Quantitative Reasoning Placement Level 2 or completion of any of MAT 105, MAT 131, MAT 132, MAT 134, MAT 151, MAT 153, or MAT 191. Not available for credit to students who have credit in MAT 191 or its equivalent or courses which have MAT 191 as a prerequisite. Functions, linear equations, the derivative and its applications, the integral and its applications, and partial derivatives. Satisfies the General Education Quantitative Reasoning Requirement. Offered Fall, Spring

**MAT 191. Calculus I. (5 Units)**

Prerequisite: MAT 151 or MAT 153 or equivalent with a grade of C or better. Limits, continuity, derivatives, differentiation formulas, applications of derivatives, introduction to integration, fundamental theorem of calculus, application of integration. Satisfies the General Education Quantitative Reasoning Requirement.  
Offered Fall, Spring

**MAT 193. Calculus II. (5 Units)**

Prerequisite: MAT 191 or equivalent with a grade of C or better. Differentiation and integration of transcendental function. Techniques and applications of integration. Polar coordinates. Infinite sequences and series, power series, convergence. Satisfies the General Education Quantitative Reasoning Requirement.  
Offered Fall, Spring

**MAT 195. Selected Topics in Mathematics. (1-5 Units)**

A course in a topic of special interest to both faculty and students for which no current course exists. Topic will be announced in schedule of classes. Repeatable for credit. One to four hours of lecture per week.  
Offered As needed, All terms

**MAT 207. Mathematics for Elementary School Teachers: Geometry & Statistics. (4 Units)**

Prerequisite: Quantitative Reasoning Placement Level 2 or completion of any of MAT 105, MAT 131, MAT 132, MAT 134, MAT 151, MAT 153, or MAT 191. Primarily for prospective elementary school teachers. Geometry from an intuitive problem solving standpoint. Constructions, symmetry, translations, rotations, patterns, area, volume, and the metric system. Topics from graph theory and topology. Two hours of lecture and two hours of activity per week. Does not satisfy General Education Quantitative Reasoning Requirement.  
Offered Fall, Spring

**MAT 211. Calculus III. (5 Units)**

Prerequisite: MAT 193 or equivalent with a grade of C or better. Multivariable calculus: analytic geometry, scalar and vector products, partial differentiation, multiple integration, change of coordinates, gradient, optimization, line integrals, Green's theorem, elements of vector calculus.  
Offered Fall, Spring

**MAT 213. Calculus IV. (4 Units)**

Prerequisite: MAT 211 or equivalent with a grade of C or better. Topics covered include vector calculus, line and surface integrals, and the theorems of Green, Gauss, and Stokes.  
Offered Infrequent

**MAT 241. Programming and Technology for Teaching Secondary School Mathematics. (3 Units)**

Prerequisite: MAT 193 or equivalent with a grade of C or better. Introduction to application software appropriate for the teaching of secondary school mathematics. The programs include spreadsheet, geometric modeling, and statistics modeling. Writing simple programs for graphing calculators to demonstrate and solve mathematical problems.  
Offered Fall

**MAT 247. Elements of Linear Algebra. (3 Units)**

Matrix algebra emphasizing small (2x2 and 3x3) matrices and vectors over the real numbers, solutions of systems of equations, determinants, inner product spaces, and linear transformations, with applications to other subjects, e.g. physical and computer science, economics, and operations research.  
Offered Fall, Spring

**MAT 271. Foundations Of Higher Math. (3 Units)**

Prerequisite: MAT 193 with grade of C or better. Topics include logic, methods of mathematical proof, set theory, relations and functions. Introduction to complex numbers and proof strategies using ideas of vector algebra. Meant to prepare students for mathematics program as well as concepts of computer science.  
Offered Fall, Spring

**MAT 281. Discrete Mathematics. (3 Units)**

Prerequisite: a) MAT 151 or MAT 153 and b) CSC 115 or CSC 121 or MAT 241 or equivalent with grade of C or better. Matrix algebra, graph theory, trees, combinatorics, Boolean algebra; with applications to computers and computer programming.  
Offered Fall, Spring

**MAT 295. Selected Topics In Mathematics. (1-4 Units)**

Prerequisites: MAT 193 and consent of instructor. A course in a topic of special interest to both faculty and students for which no current course exists. Topic will be announced in schedule of classes. Repeatable for credit. One to four hours of lecture per week.  
Offered As needed

**MAT 297. Independent Study. (1-4 Units)**

Prerequisites: MAT 193, consent of instructor and consent of department chair. A reading program of selected topics not covered by regularly offered courses conducted under the supervision of a faculty member.  
Offered As needed

**MAT 307. Foundations of Middle School Mathematics I. (3 Units)**

Foundations of Mathematics related to the middle school curriculum. Course 1 includes the following topics: Reasoning with numbers, basic number proofs, understanding exponents, proportional reasoning, rates, linear functions, method of finite differences, and the theory and application of these topics.  
Offered Infrequent, All terms

**MAT 308. Foundations of Middle School Mathematics II. (3 Units)**

Foundations of Mathematics related to the middle school curriculum. Course 2 includes the following topics: basic Euclidean facts, algebra-geometry connections, volume and surface area formulas, similarity, congruence, and scale factors, and the theory and application underlying these topics.  
Offered Infrequent

**MAT 309. Foundations of Middle School Mathematics III. (3 Units)**

Foundations of Mathematics related to the middle school curriculum. Course 3 includes the following topics: concept of functions, inverse functions, properties of rational, trigonometric and exponential functions and fundamental concepts in Calculus.  
Offered All terms, Infrequent

**MAT 311. Differential Equations. (3 Units)**

Prerequisite(s): MAT 211 and MAT 247 with a grades of C or better. Topics covered include first and second order linear equations including existence and uniqueness theorems, series solutions; nonlinear equations; systems of linear equations. Other topics may include the Laplace transform, qualitative theory.  
Offered Fall

**MAT 315. Introduction to Survival Analysis. (3 Units)**

Prerequisites: CSC 115 or MAT 241; MAT 193, MAT 131 or MAT 132 are required. Co-requisites: MAT 323 and MAT 327 are recommended. Survival analysis is about the analysis of time-to-event data. This course will help you understand the fundamental concepts of survival analysis. Topics include, but are not limited to, time-to-event data, Log-rank test and Cox proportional hazards regression.  
Offered Fall

**MAT 321. Probability and Statistics. (3 Units)**

Prerequisite: MAT 193 and MAT 271 or equivalent with grade C or better. A calculus based survey of topics in probability and statistics emphasizing applications.  
Offered Fall, Spring

**MAT 323. Statistical Inference. (3 Units)**

Point and interval estimation, hypothesis testing, simple linear regression, re-sampling. Method of moments, maximum likelihood, bias and variance, mean-squared error, sufficiency, likelihood ratio tests, p-value, power calculation, analysis of variance, Neymann-Pearson lemma, uniformly most powerful tests.  
Offered Fall

**MAT 327. Introduction to Machine Learning with Software. (3 Units)**

Required Prerequisites: MAT 281. Recommended Prerequisite: MAT 131 Machine learning uses methods and concepts to sift through data to create automated prediction and decision programs. This course will develop the underlying mathematical concepts and proficiency with R or similar software to understand, build, and apply machine learning.  
Offered Spring

**MAT 331. Linear Algebra. (3 Units)**

Prerequisite: MAT 247 and MAT 271 or equivalent with a grade of C or better. Linear equations, vector spaces, matrices, linear transformations, determinants, eigenvalues, eigenvectors, etc.  
Offered Fall, Spring

**MAT 333. Abstract Algebra. (3 Units)**

Prerequisite(s): MAT 247 and MAT 271 or equivalent with a grade of C or better. The theory of groups, rings, ideals, integral domains, fields and related results.  
Offered Fall

**MAT 337. Mathematical Logic. (3 Units)**

Prerequisite: MAT 191 or equivalent with a grade of C or better. Topics covered include propositional calculus, classical and intuitionistic; completeness and consistency theorems; first order predicate calculus with equality; axiomatic arithmetic; Godel's incompleteness theorem.  
Offered Infrequent

**MAT 347. Modern Geometry. (3 Units)**

Prerequisite: MAT 271 or equivalent with a grade of C or better. Topics in synthetic and analytic geometry; transformations, similarity, congruence, distance, angles, constructions; introduction to projective and/or non-Euclidean geometry.  
Offered Spring

**MAT 351. Probability Theory. (3 Units)**

Prerequisite: MAT 193 or equivalent with a grade of C or better. Probability as a mathematical system, set theory, conditional probability and independent events, random variables, distribution and density functions, covariance and correlation, limit theorems, convolutions, computer generation of random numbers.  
Offered Infrequent

**MAT 353. Stochastic Processes. (3 Units)**

Prerequisite: MAT 351 or equivalent with a grade of C or better. A selection from among several topics, including Markov chains; Markov processes; queuing, branching, Poisson, and Gaussian processes; stationary processes.  
Offered Infrequent

**MAT 361. Finite Automata. (3 Units)**

Prerequisite: MAT 281 or equivalent with a grade of C or better. Study of the abstract formalization of digital computers. Applications to computation theory and formal linguistics.  
Offered Infrequent

**MAT 367. Numerical Analysis I. (3 Units)**

Prerequisites: Experience in BASIC, FORTRAN or Pascal and MAT 211 or equivalent with a grade of C or better. Approximation of roots of functions, interpolation formulas, numerical solutions of systems of equations, numerical differentiation and integration, numerical solutions to ordinary differential equations.  
Offered Infrequent

**MAT 369. Numerical Analysis II. (3 Units)**

Prerequisite: MAT 367 or equivalent with a grade of C or better. A continuation of MAT 367, including approximation of eigenvalues and eigenvectors, approximation by splines, numerical solutions of parabolic, elliptic, and hyperbolic partial differential equations.  
Offered Infrequent

**MAT 395. Selected Topics in Math. (1-4 Units)**

Prerequisites: MAT 211 and consent of instructor. A course in a topic of special interest to both faculty and students for which no current course exists. Topic will be announced in schedule of classes. Repeatable for credit. One to four hours of lecture per week.  
Offered As needed

**MAT 396. Practicum in Mathematics. (3 Units)**

Prerequisites: Consent on Department Chair or Instructor is required. Supervised work experience, emphasizing hands-on training and application of practical and/or technical skills in mathematics, in a suitable setting. Students will submit a comprehensive report or portfolio. CR/NC grading. Repeatable course.  
Offered Fall, Spring

**MAT 398S. Directed Research. (1-3 Units)**

Offered Infrequent

**MAT 401. Advanced Analysis I. (3 Units)**

Prerequisites: MAT 211 and MAT 271, or equivalent with a grade of C or better. Elements of set theory, numerical sequences and series, continuity and differentiability of functions of one and several variables.  
Offered Fall

**MAT 403. Advanced Analysis II. (3 Units)**

Prerequisite: MAT 401 or equivalent with a grade of C or better. Integration of functions of one and several variables, sequences and series of functions, uniform convergence, power series, differentiation of functions of several variables.  
Offered Spring

**MAT 411. Mathematical Modeling. (3 Units)**

Prerequisite: MAT 211, MAT 241, and MAT 271 or CSC 121 or CSC 111. Flexible course content depending on interest of instructor and students. Possible topics are: epidemic and predator-prey models from differential equations; linear programming models; Arrow's theorem; and probability models.  
Offered Spring

**MAT 413. An Introduction to Partial Differential Equations. (3 Units)**

Prerequisites: MAT 311 with a grade of C or better is required; MAT 213 is recommended. Solutions to partial differential equations by separation of variables and Fourier series. Applications to heat flow and diffusion, wave motion, and potentials. Some discussion of existence and uniqueness of solutions.

Offered Infrequent

**MAT 415. Financial Mathematics. (3 Units)**

Financial mathematics focuses on interest theory, financial data analysis, and the application of these concepts to calculating present and accumulated values for cash flows. The course also covers various important instruments such as loans, stocks, bonds, and financial derivatives

Offered Infrequent

**MAT 417. Math Methods for Data Science. (3 Units)**

Prerequisites: MAT 211 and MAT 247 are required; CSC 115 or MAT 241 are recommended. Methods include optimization (stochastic gradient descent, alternating direction method of multipliers (ADMM), L1 minimization) with applications to Linear Regression, K-means and Expectation-Maximization (EM) algorithm; matrix decomposition (singular value decomposition (SVD), principal component analysis (PCA) and nonnegative matrix decomposition) with applications to recommendation system, image processing and computer vision.

Offered Fall

**MAT 421. Complex Analysis. (3 Units)**

Prerequisites: MAT 211 and MAT 271 with a grade of C or better. MAT 331 and MAT 401 (may be taken concurrently) are recommended. Complex numbers; point sets, sequences and mappings; analytic functions; elementary functions; integration; power series; the calculus of residues; and applications.

Offered Spring

**MAT 443. History Of Mathematics. (3 Units)**

Prerequisite: MAT 193 with a grade of C or better. Traces the growth and development of mathematics from primitive origins to present, uses methods and concepts of mathematics to present the topics.

Offered Spring

**MAT 447. Number Theory. (3 Units)**

Prerequisite: MAT 271 with a grade of C or better. Divisibility, congruencies, prime number theory, Diophantine Equations, and other topics from elementary number theory.

Offered Spring

**MAT 448. Cryptography. (3 Units)**

Prerequisites: MAT 271 with a grade of C or better is required. CSC 115 or CSC 121 with a grade of C or better is recommended. Congruencies and number theory, history and early cryptosystems, cryptographic data structures, public key cryptography, additional cryptosystems such as DES, AES, and elliptic curve cryptography. Computer implementations will also be covered, as well any needed additional mathematical topics (e.g. finite fields.)

Offered Fall

**MAT 451. Mathematical Statistics. (3 Units)**

Prerequisite: MAT 351 or equivalent with a grade of C or better. Sums of independent random variables; functions of random variables; chi-square, F, and t distributions; estimation of parameters; maximum-likelihood, unbiased, consistent, minimum-variance, and minimum-mean-square error estimators; confidence intervals; central limit theorem.

Offered Infrequent

**MAT 460. Graph Theory and Algorithms. (3 Units)**

Prerequisites: MAT 211, MAT 271, and MAT 241, or CSC 121, or CSC 115 or equivalent with a grade of C or better are required. MAT 281 with a grade of C or better is recommended. Graphs, digraphs, multigraphs, graph modeling, degrees and degree sequences, subgraphs, isomorphisms of graphs, and digraphs, distance concepts and applications, trees, and tree algorithms, Hamiltonian and Eulerean graphs. The viewpoints will be conceptual, theoretical and algorithmic.

Offered Fall

**MAT 489. Fundamental Mathematics and Teaching in Secondary Schools. (4 Units)**

Prerequisite: 9 units of 300/400-level mathematics with a grade of C or better; In order to begin the hours for fieldwork in this course, you will need a valid Certificate of Clearance (fingerprints) and proof of a negative TB (within 4 months of the fieldwork course beginning). For information on submitting these documents, contact the Center for Teaching Careers. Synthesis and analysis of secondary mathematics and its teaching.

Emphasis will be placed on algebraic thinking and its teaching in high school. Forty hours of secondary classroom observations will be a required activity in this course. A Certificate of Clearance is required.

Offered Spring

**MAT 490. Seminar in Mathematics Education. (3 Units)**

Prerequisite(s): Completion of at least one of MAT 333, MAT 447, or MAT 448 with a grade of C or better. The synthesis and analysis of the secondary mathematics curriculum from an advanced standpoint. Emphasis will be on the integration of problem solving, investigations, reasoning, and communication as recommended in state and national standards.

Offered Fall

**MAT 495. Selected Topics In Math. (1-4 Units)**

Prerequisites: Consent of instructor and MAT 271. A course in a topic of special interest to both faculty and students for which no current course exists. Topic will be announced in schedule of classes. Repeatable for credit. One to four hours of lecture per week.

Offered As needed

**MAT 497. Independent Study. (1-4 Units)**

Prerequisites: MAT 211, consent of instructor and consent of department chair. A reading program of selected topics not covered by regularly offered courses conducted under the supervision of a faculty member.

Offered As needed

**MAT 500. Mathematics Education Research Design and Statistics. (3 Units)**

Prerequisites: Students must have graduate standing and must have completed one year of full time secondary mathematics teaching. Includes topics such as normal distribution, confidence intervals, t, F, chi-squared tests, linear regression, and correlation. These topics are presented in the context of mathematics education research in typical classrooms.

Offered As needed

**MAT 501. Foundations of Geometric Thinking. (3 Units)**

Prerequisites: MAT 543 or concurrent enrollment. Students must have graduate standing and must have completed one year of full time secondary mathematics teaching. Research on Various topics in geometry. Focus on developing notions of rigorous proof and grade-appropriate explanations. Topics are chosen from the Geometry areas and standards emphasized in K-12.

Offered As needed

**MAT 505. Foundations of Mathematical Structures. (3 Units)**

Prerequisites: MAT 543 or concurrent enrollment. Students must have graduate standing and must have completed one year of full time secondary mathematics teaching. Topics include the algebraic properties of sets and operations applied to classical number systems, equivalence, modular arithmetic, Diophantine equations, decomposition of natural numbers, special families of natural numbers, current research on understanding and learning these topics.

Offered As needed

**MAT 506. Foundations of Rational Numbers. (3 Units)**

Prerequisites: MAT 543 or concurrent enrollment. Students must have graduate standing and must have completed one year of full time secondary mathematics teaching. Covers theory and applications of Rational numbers. Focus on number systems, representation of numbers, equivalence classes, rationality and irrationality, properties of the rational numbers system, central ideas of proportional reasoning, and developing intuitive models of standard rules and algorithms.

Offered As needed

**MAT 515. Topics in Advanced Finite Math. (3 Units)**

Prerequisites: Possession of a baccalaureate degree and one year of full-time secondary mathematics teaching. Topics from areas of Modern Mathematics which relate to the high school mathematics curriculum such as: algorithms, graph theory, coding theory, game theory, finite probability theory, difference equations, voting, recursion.

Offered As needed

**MAT 517. Fractals for Teachers. (3 Units)**

Prerequisites: Possession of a baccalaureate degree and one year of full-time secondary mathematics teaching. Topics from Fractal and Chaos Theory including: the Cantor Set, Koch Curve, Julia Sets, space filling curves. Brownian motion and Chaotic behavior. Selections to relate to the high school mathematics curriculum.

Offered Infrequent

**MAT 521. Geometry For Teachers. (3 Units)**

Prerequisites: MAT 543, graduate standing and one year of full time secondary mathematics teaching. Topics from Geometry including: points and lines in a triangle, properties of circles, collinearity, concurrence, transformations, arithmetic and geometric means, isoperimetric theorems, reflection principle.

Offered As needed

**MAT 522. Foundations of Algebraic Thinking. (3 Units)**

Prerequisites: Students must have graduate standing and must have completed one year of full time secondary mathematics teaching. Patterns, functions, and multiple representations; independent and dependent variables; discrete and continuous functions; linear and nonlinear relationships in context; connections to arithmetic operations; algebraic expressions and equations. Examines current research on the understanding and learning of these topics.

Offered As needed

**MAT 523. Theory of Function. (3 Units)**

Prerequisites: MAT 543, graduate standing and one year of full time secondary mathematics teaching. Topics from Function Theory including: mathematical models, linear functions, non-linear functions, transformations, limits, continuity, functions of several variables.

Offered As needed

**MAT 525. Algebraic Structures for Teachers. (3 Units)**

Prerequisites: MAT 543, graduate standing and one year of full time secondary mathematics teaching. Topics relating to the high school Algebra curriculum from an advanced standpoint including algorithms, fields, polynomials, groups, fields, and rings.

Offered As needed

**MAT 543. Advanced Problem Solving. (3 Units)**

Problem solving using non-routine strategies. Problems to be representative of several branches of mathematics and mathematically based disciplines.

Offered As needed

**MAT 545. History of Math Education. (3 Units)**

Prerequisites: Graduate standing and one year of full time secondary teaching. Traces the development of the mathematics curriculum K-12 in the United States and internationally, concentrating both on content taught at different stages and the teaching methods employed. Reviews the various mathematics reform efforts over the past 170 years.

Offered As needed

**MAT 555. Research in Mathematics Education. (3 Units)**

Prerequisites: GED 500 and consent of program. Integrates previous work and experience by emphasizing the application of theoretical models and research designs to the field of mathematics education. Special emphasis will be given to analyzing, organizing, and evaluating findings, and communicating the results.

Offered Infrequent

**MAT 557. Research in Math Education I. (3 Units)**

Prerequisites: MAT 500 and 15 units of program. Overview of the current research literature pertaining to mathematics education in elementary and secondary schools. Topics such as mathematical reasoning, communication, problem solving, algebra, and geometry will be discussed and analyzed.

Offered As needed

**MAT 559. Research in Math Education II. (3 Units)**

Prerequisite: MAT 557. Overview of the current research literature pertaining to mathematics education in elementary and secondary schools. Topics such as mathematical reasoning, communication, problem solving, algebra, and geometry will be discussed and analyzed.

Offered As needed

**MAT 590. Graduate Seminar in Mathematics Education. (1-4 Units)**

Prerequisites: Possession of a baccalaureate degree and one year of full-time secondary mathematics teaching. Presentation and discussion of selected topics in Mathematics Education. Repeatable course.

Offered Infrequent

**MAT 594S. Independent Study. (1-4 Units)**

Prerequisites: Consent of instructor and department chair. In consultation with a faculty member, the student will investigate in detail current scholarship in some area. Repeatable course.

Offered As needed

**MAT 595. Selected Topics. (1-4 Units)**

Â An intensive study of selected issues in mathematics education. Repeatable course.

Offered As needed

**MAT 597. Directed Reading. (1-4 Units)**

Prerequisites: Consent of instructor and department chair. Extensive reading in selected areas under the guidance of faculty mentor.

Repeatable course.

Offered Infrequent

**MAT 598. Directed Research. (1-4 Units)**

Prerequisite: Classified graduate standing. Students will design and conduct research projects under the direct supervision of the instructor. Repeatable course. Offered As needed

**MAT 599. Masters Project. (6 Units)**

Prerequisite: Advancement to Candidacy. Completion of classroom based project under the guidance of faculty advisor. The culminating learning experience of the program which emphasizes the application of the mathematics education curriculum in the classroom. Offered As needed

**MAT 600. Graduate Continuation Course. (1 Units)**

Graduate students who have completed their course work but not their thesis, project, or comprehensive examination, or who have other requirements remaining for the completion of their degree, may maintain continuous attendance by enrolling in this course. Signature of graduate program coordinator required. Offered Infrequent

## Military Science (MSL)

**MSL 101. Foundations of Officership. (1 Units)**

Recommended co-requisite: MSL 103. Introduces students to issues and competencies that are central to a commissioned officer's responsibilities. Establishes framework for understanding officership, leadership, and followed army values including life skills such as physical fitness and time management. Offered Fall, Spring

**MSL 102. Basic Leadership. (1 Units)**

Recommended co-requisite: MSL 104. Establishes foundation of basic leadership fundamentals such as problem solving, communications, goal setting, techniques for improving listening and speaking skills, briefings and effective writing and an introduction to effective counseling. Offered Fall, Spring

**MSL 103. Military Science and Leadership Lab for MSL 101. (1 Units)**

Co-requisite: MSL 101. Course is designed to assist students with no military background. The student will be a member of a squad and receive instruction on small unit tactics, army values, army leadership techniques and selected critical individual military skills. Lab is encouraged by optional unless contracted. CR/NC grading. Offered Fall, Spring

**MSL 104. Military Science and Leadership Lab for MSL 102. (1 Units)**

Co-requisite: MSL 102. Course is designed to assist students with no military background. The student will be a member of a squad and receive instruction on small unit tactics, army values, army leadership techniques and selected critical individual military skills. Lab is encouraged but not required unless contracted. CR/NC grading. Offered Fall, Spring

**MSL 201. Individual Leadership Studies. (2 Units)**

Recommended prerequisite: MSL 102. Recommended co-requisite: MSL 203. Students identify successful characteristics through the observation of others and through experimental learning exercises. Students record observed traits (good and bad) in a dimensional learning journal and discuss the observations in a small group setting. Offered Fall, Spring

**MSL 202. Leadership and Teamwork. (2 Units)**

Recommended prerequisite: MSL 201. Recommended co-requisite: MSL 203. Students identify successful characteristics through the observation of others and through experimental learning exercises. Students record observed traits (good and bad) in a dimensional learning journal and discuss the observations in a small group setting. Offered Spring

**MSL 203. Military Science and Leadership Lab for MSL 201. (1 Units)**

Recommended prerequisite: MSL 102, MSL 104. Recommended co-requisite: MSL 201. Students will transition into becoming a small group leader and will perform duties of military fire team leader and squad leader. Cadet will learn army values, leadership techniques and selected individual military skills. Lab is encouraged but not required unless contracted. CR/NC grading. Offered Fall, Spring

**MSL 204. Military Science and Leadership Lab for MSL 202. (1 Units)**

Recommended prerequisite: MSL 101, MSL 103. Co-requisite: MSL 202. Students will perform duties of military fire team leader and squad leader. Cadet will learn army values, leadership techniques and selected individual military skills. Students will be assessed for leadership performance. Lab is encouraged but not required unless contracted. CR/NC grading. Offered Fall, Spring

**MSL 301. Leadership and Problem Solving. (3 Units)**

Prerequisites: MSL 202 and MSL 204 or consent of instructor. Co-requisite: MSL 303. Students conduct self-assessment of their leadership style, develop personal fitness programs and learn how to plan and conduct small unit training while testing their reasoning and problem solving techniques. Students receive direct feedback on their leadership skills. Offered Fall, Spring

**MSL 302. Leadership and Ethics. (3 Units)**

Prerequisites: MSL 301 and MSL 303. Co-requisite: MSL 304. Examines the role communications, values, and ethics play in effective leadership. Topics include ethical decision-making, consideration of others, spirituality in the military, and survey Army leadership doctrine. Emphasis on improving oral and written communication abilities. Offered Fall, Spring

**MSL 303. Military Science and Leadership Lab for MSL 301. (1 Units)**

Prerequisites: MSL 202 and MSL 204, or consent of instructor. Co-requisite: MSL 301. Course teaches leadership skills, counseling, oral and written communications, supervision, and preparation and conduct of training. CR/NC grading. Offered Fall, Spring

**MSL 304. Military Science and Leadership Lab for MSL 302. (1 Units)**

Prerequisites: MSL 301 and MSL 303. Co-requisite: MSL 302. Students serve in various leadership positions including squad, platoon and company levels. Responsible for developing and executing unit plans and orders; training other students, executing small unit tactics and preparing for Advanced Camp Training/Evaluation. CR/NC grading. Offered Fall, Spring

**MSL 401. Leadership Management. (3 Units)**

Prerequisites: MSL 302 and MSL 304. Co-requisite: MSL 403. Develops the students' proficiency in planning and executing complex operations, functioning as a member of a staff and mentoring subordinates. Students explore training management, methods of effective staff collaborations and developmental counseling techniques. Offered Fall, Spring

**MSL 402. Officership. (3 Units)**

Prerequisites: MSL 401 and MSL 403. Co-requisite: MSL 404. Study includes case study analysis of military law and practical exercises on establishing an ethical command climate. Students must complete a semester long leadership project that requires them to plan, organize, collaborate, analyze and demonstrate their leadership skills. Offered Fall, Spring

**MSL 403. Military Science and Leadership Lab for MSL 401. (1 Units)**

Prerequisites: MSL 302 and MSL 304. Co-requisite: MSL 401. Accepted as a cadet in the ROTC program, cadet will serve in leadership positions at the platoon, company and battalion levels. Responsible for planning, execution, and evaluation of ROTC training activities. Cadet will also serve as mentor for junior cadets. CR/NC grading. Offered Fall, Spring

**MSL 404. Military Science and Leadership Lab for MSL 402. (1 Units)**

Prerequisites: MSL 401 and MSL 403. Co-requisite: MSL 402. Accepted as a cadet in the ROTC program, cadet will serve in leadership positions at the platoon, company and battalion levels. Responsible for planning and evaluation of ROTC training activities. Cadet will serve as mentor for junior cadets. Upon completion of course, the cadets will be prepared to serve as commissioned officers. CR/NC grading. Offered Fall, Spring

**MSL 411. United States Military History. (3 Units)**

Study of the American military establishment and the art of war with emphasis placed on the changing nature of warfare in the face of social, economic, and technological developments. Offered Fall, Spring

## Modern Languages (MLG)

**MLG 195. Special Topics in Modern Languages.. (3 Units)**

Study of special interest for students in the selected area of study. Topic and content will vary as announced. Repeatable for a credit. Offered As needed

**MLG 294. Independent Study in Modern Languages I. (1-3 Units)**

Prerequisites: Consent of instructor and chair of Modern Languages. Beginning/intermediate individual study and or credit by examination in a foreign language not regularly offered on campus. Arrangements must be made in advance of registration. Repeatable course. Offered Infrequent

**MLG 295. Special Topics in Modern Languages. (3 Units)**

Study of special interest for students in the selected area of study. Topic and content will vary as announced. Repeatable for a credit. Offered As needed

**MLG 318. New Perspectives on Language and Sex. (3 Units)**

This interdisciplinary and pluricultural course introduces students to the analysis of language and gender. Analyzes themes regarding sociolinguistic visibility and representation of gender and sex through a critical examination of the interaction and interrelation between language and gender. Offered Fall, Spring, Summer

**MLG 494. Independent Study in Modern Languages II. (1-3 Units)**

Prerequisites: Consent of instructor and chair of Modern Languages. Intermediate or advanced individual study or credit by examination in a foreign language not regularly offered on campus. Arrangements must be made in advance of registration. Repeatable course. Offered Infrequent

**MLG 498. Directed Research. (1-3 Units)**

Prerequisite: Consent of instructor. The student develops and completes an individual study under faculty supervision. Repeatable course. Offered Infrequent

## Music (MUS)

**MUS 100. Concert Music. (1 Units)**

This course provides training and support for music majors at a beginner level through in-class performances, masterclasses, music journalism essays, attendance at various music performances and department camaraderie. Required attendance in-class and at approved music performances as determined by the Department of Music. May be repeated once. CR/NC grading. Restricted to majors. Offered Fall, Spring, All terms

**MUS 101. Introducing Music. (3 Units)**

The technique of listening to music. The elements of music, musical forms, and historical styles. Concert attendance and discussion will be an integral part. Satisfies a General Education Requirement. This course is restricted to 1st time Freshman going through the First Year Experience. Offered Fall, Spring, All terms

**MUS 105. Introduction to Musicianship. (1 Units)**

Prerequisite: Concurrent enrollment in MUS 101 or MUS 110 is recommended. An activity course in which students will begin exercises in music perception skills, pitch matching, identification of musical patterns, beginning ear-training and sight-singing drills. Preparation for the Musicianship Proficiency Exam. Repeatable course. Two hours activity per week. Offered Fall, Spring

**MUS 106. Musicianship Skills. (1 Units)**

Prerequisites: MUS 105, MUS 110, and MUS 111 are recommended. Ear training, sight-singing, rhythm, keyboard harmony, and melodic and rhythmic dictation. This course is meant to parallel work in MUS 112 and MUS 113. Repeatable course. Two hours of activity per week. Offered Fall, Spring

**MUS 110. Music Fundamentals. (3 Units)**

Prerequisite: Concurrent enrollment in MUS 109 is recommended. Music rudiments taught through reading, writing, harmonizing and creating songs. Includes principles of notation, key signatures, scales, intervals, triads and chord progressions. Satisfies a General Education Requirement. Offered Fall

**MUS 111. Intro. To Music Theory. (3 Units)**

Prerequisite: MUS 110 or placement test. Elements of music taught through reading, writing and harmonizing at the keyboard. Topics include key signatures, scales, intervals and basic harmony. Offered Spring

**MUS 112. Music Theory I. (3 Units)**

Musical theory emphasizing materials from the Common Practice Period (1700-1900). The vocabulary of diatonic scales and modes, chords and their relationships, phrase structure and cadences, harmonic progressions, non-harmonic tones and the technique of harmonization. Offered Fall



**MUS 113. Music Theory II. (3 Units)**

Prerequisites: MUS 112 and concurrent enrollment in MUS 106. Chromatic Harmony of the Common Practice Period. Harmonic analysis, secondary dominants, modulation, borrowed chords, augmented sixth chords, Neapolitan sixth chords, diminished sevenths, and ninth, eleventh and thirteenth chords.  
Offered Spring

**MUS 120. Beginning Voice Class. (1 Units)**

Prerequisite: Consent of instructor. Fundamental principles of singing. Posture, breath control, tone production, diction and performance techniques and styles. Repeatable course. Two hours of activity per week.  
Offered Fall, Spring

**MUS 122. Beginning Guitar Class. (1 Units)**

Prerequisite: Previous or concurrent enrollment in MUS 101 and MUS 110 or consent of instructor is recommended. Beginning instruction in guitar technique, single string melody, and chord positions. Repeatable course. Two hours of activity per week.  
Offered Fall, Spring

**MUS 160. Repertoire. (1 Units)**

Special topics vary by section and semester. See Class Schedule for title and prerequisites. Repeatable course.  
Offered Fall, Spring

**MUS 167. Latin American Regional Music Ensemble. (1 Units)**

Students primarily focus on the performance practices of Latina American musical traditions. Through participation in varying-sized ensembles, students will demonstrate their acquired knowledge and skills in a public performance.  
Offered Fall, Spring

**MUS 168. Pep Band. (1 Units)**

Prepares students for performances at university and athletic events while providing them an opportunity to grow and improve in individual and ensemble performance.  
Offered Fall, Spring

**MUS 169. Early Music Collegium. (1 Units)**

Students primarily focus on the performance of music of the Middle Ages, Renaissance, and Baroque periods. Students will receive instructions on historically informed performance practice and present a concert at the end of each semester.

**MUS 170. Chamber Music. (1 Units)**

Prerequisite: Consent of instructor. Study of music through small instrumental ensemble rehearsal and performance. Type of group may vary. See Class Schedule for title. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.  
Offered Fall, Spring

**MUS 171. Chamber Singers. (1 Units)**

Prerequisite: Consent of instructor. Study of music through small vocal ensemble rehearsal and performance. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.  
Offered Fall, Spring

**MUS 172. Jubilee Choir. (1 Units)**

Prerequisite: Consent of instructor. Study and performance of choral music of Afro-American culture. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.  
Offered Spring

**MUS 173. Jazz Ensemble. (1 Units)**

Prerequisite: Consent of instructor. Techniques of improvisation and a study and performance of instrumental jazz repertoire. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.  
Offered Fall, Spring

**MUS 175. Band. (1 Units)**

Prerequisite: Consent of instructor. A study of music through rehearsal and performance of concert band music. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.  
Offered Infrequent

**MUS 176. Orchestra. (1 Units)**

Prerequisite: Consent of instructor. A study of music through rehearsal and performance of music for symphony orchestra. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.  
Offered Fall, Spring

**MUS 177. Chorus. (1 Units)**

Prerequisite: Consent of instructor. A study of music through rehearsal and performance of music for chorus. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.  
Offered Fall, Spring

**MUS 178. Guitar Ensemble. (1 Units)**

Prerequisite: Consent of Instructor (audition). A study of music through rehearsal and performance of music for guitar ensemble. Public performance expected. Repeatable once at each level. Three hours of activity per week plus extra rehearsal and performance times to be arranged.  
Offered Infrequent

**MUS 179. Music Theatre Workshop. (1 Units)**

Prerequisites: Audition and consent of instructor. Study of roles and representative excerpts from opera, operetta, and musical comedy and the basic musical, dramatic and language technique of the musical theater. Performance of excerpts or complete musical theatrical works. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.  
Offered Infrequent

**MUS 180. Individual Lessons. (1 Units)**

Prerequisites: Audition and consent of Department Chair and Instructor. Individual instruction in the student's major performance medium developing technique and repertoire. Individual one-half hour lesson times are arranged with the studio teacher. Public performance and jury evaluation expected. Lessons are available in voice, piano, harpsichord, organ, accordion, flute, oboe, clarinet, bassoon, saxophone, trumpet, horn, trombone, tuba, percussion, violin, viola, cello, string bass, harp, classical guitar, lute, commercial guitar, and electric bass. Primarily for performance majors. Instrument fee may be required. Repeatable course.  
Offered Fall, Spring

**MUS 182. Introduction to Piano II. (1 Units)**

Prerequisite: MUS 181 or consent of instructor. Beginning instruction in keyboard technique. Repeatable course. Two hours of activity per week.  
Offered Infrequent

**MUS 183. Piano I. (1 Units)**

Prerequisites: MUS 181 and MUS 182 are recommended. Intermediate instruction in keyboard techniques. Keyboard harmony, scales, chords and improvised accompaniments. Repeatable course. Two hours of activity per week.  
Offered Fall

**MUS 184. Piano II. (1 Units)**

Prerequisites: MUS 183 or consent of instructor. Intermediate instruction in keyboard technique. Keyboard harmony, scales, chords and improvised accompaniments. Repeatable course. Two hours of activity per week.  
Offered Spring

**MUS 195. Special Topics in Music. (1-3 Units)**

Prerequisite: Consent of instructor. Study and performance of choral music of Afro-American culture. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.  
Offered As needed

**MUS 200. Concert Music II. (1 Units)**

Prerequisite: MUS 100. Provides training and support for music majors at a beginner-intermediate level through in-class performances, masterclasses, music journalism essays, attendance at various music performances, and department camaraderie. Required attendance in-class and at approved music performances as determined by the Department of Music. May be repeated once. CR/NC grading.  
Offered Fall, Spring, All terms

**MUS 201. Music in Film: From the Silent Era to The Lord of the Rings. (3 Units)**

Prerequisite: MUS 101 is recommended. Studies film music over the past century and is open to all majors. Through readings, lectures, listening, and film viewing, students study music's continually changing relationship with film, composition styles, and musical and cultural diversity.  
Offered Fall, Spring

**MUS 206. Advanced Musicianship Skills. (1 Units)**

Prerequisites: MUS 106 is required. MUS 112 and MUS 113 are recommended. Ear training, sight-singing, rhythm, keyboard harmony, and melodic, harmonic and rhythmic dictation. This course parallels work in MUS 310 and MUS 311 and provide preparation for the Musicianship Proficiency Exam. Repeatable course. Two hours of activity per week.  
Offered Fall, Spring

**MUS 212. Advanced Music Theory I. (3 Units)**

Structural, contrapuntal and harmonic analysis of musical forms from the Medieval through the Classical periods. A study of the literature, instrumentation, and notation. Practice includes aural analysis and creative composition.  
Offered Fall

**MUS 213. Advanced Music Theory II. (3 Units)**

Prerequisites: MUS 212 or consent of instructor is required; concurrent enrollment in MUS 206 and MUS 316 is recommended. Structural, harmonic and contrapuntal analysis of musical forms from the Romantic period through the Twentieth Century. A study of the literature, instrumentation and notation. Practice includes aural analysis and creative composition.  
Offered All terms, Spring

**MUS 220. Intermediate Voice Class. (1 Units)**

Prerequisites: MUS 101, MUS 110 and MUS 120 or Consent of instructor. Singing with an emphasis on the vocal mechanism, use of the voice in ensemble singing and style in songs. Development of solo repertoire. Repeatable course. Two hours of activity per week.  
Offered Fall, Spring

**MUS 222. Intermediate Guitar Class. (1 Units)**

Prerequisites: MUS 101, MUS 110 and MUS 122 or consent of instructor. Intermediate instruction in guitar technique, scales, chords and improvised accompaniments. Repeatable course. Two hours of activity per week.  
Offered Fall, Spring

**MUS 223. Intermediate Flamenco Guitar. (1 Units)**

Provides students with an introduction to the concepts and techniques necessary to play flamenco guitar, including tonality/mode and the workings of compas (the rhythmic structures unique to flamenco). Repeatable course. Two hours of activity per week.  
Offered Fall, Spring

**MUS 250. History of Rock. (3 Units)**

Prerequisite: MUS 101 is recommended. Studies the origins and movements of rock music including blues, R&B, soul, funk, and hip hop. Includes historical development, social contexts, associated styles and sub-genres, aesthetics, meanings, and music technology. Examines influential and innovative performers, songwriters, and producers.  
Offered Fall, Spring

**MUS 260. Repertoire. (1 Units)**

Pre-requisite: MUS 160 (two semesters) is required; Co-requisite: MUS 280. Studio instruction in an applied area that complements and provides additional depth to that which is offered in MUS 280. In depth study of Etudes, scales, arpeggios, and supplemental solo repertoire.  
Offered Fall, Spring, All terms

**MUS 267. Latin American Regional Music. (1 Units)**

Students primarily focus on the performance practices of Latin American musical traditions. Through participation in varying-sized ensembles, students will demonstrate their acquired knowledge and skills in a public performance.  
Offered Fall, Spring

**MUS 268. Pep Band. (1 Units)**

Prepares students for performances at university and athletic events while providing them an opportunity to grow and improve in individual and ensemble performance.  
Offered Fall, Spring

**MUS 269. Early Music Collegium. (1 Units)**

Students primarily focus on the performance of music of the Middle Ages, Renaissance, and Baroque periods. Students will receive instructions on historically informed performance practice and present a concert at the end of each semester.  
Offered All terms

**MUS 270. Chamber Music. (1 Units)**

Prerequisite: Consent of instructor. Music study through small instrumental ensemble rehearsal and performance. Type of group may vary. See Class Schedule for title. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.  
Offered Fall, Spring

**MUS 271. Chamber Singers. (1 Units)**

Prerequisite: Consent of instructor. Study of music through small vocal ensemble rehearsal and performance. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged. Offered Fall, Spring, All terms

**MUS 272. Jubilee Choir. (1 Units)**

Prerequisite: MUS 110 or consent of instructor. An introduction to music fundamentals and techniques for dance accompaniment. Two hours of activity per week. Offered Spring

**MUS 273. Jazz Ensemble. (1 Units)**

Prerequisite: Consent of instructor. Techniques of improvisation and a study and performance of instrumental jazz repertoire. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged. Offered Fall, Spring, All terms

**MUS 275. Band. (1 Units)**

Prerequisite: Consent of instructor. Rehearsal and performance of concert band music. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged. Offered Fall, Spring

**MUS 276. Orchestra. (1 Units)**

Prerequisite: Consent of instructor. Rehearsal and performance of music for symphony orchestra. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged. Offered Fall, Spring

**MUS 277. Chorus. (1 Units)**

Prerequisite: Consent of instructor. Rehearsal and performance of music for chorus. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged. Offered Fall, Spring

**MUS 278. Guitar Ensemble. (1 Units)**

Prerequisite: Consent of Instructor (audition). A study of music through rehearsal and performance of music for guitar ensemble. Public performance expected. Repeatable once at each level. Three hours of activity per week plus extra rehearsal and performance times to be arranged. Offered Infrequent

**MUS 279. Music Theatre Workshop. (1 Units)**

Prerequisites: Audition and consent of instructor. Study of roles and representative excerpts from opera, operetta, and musical comedy and the basic musical, dramatic and language technique of the musical theater. Performance of excerpts and complete musical theatrical works. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged. Offered Infrequent

**MUS 280. Individual Lessons. (1 Units)**

Prerequisites: Audition and consent of department chair and instructor. Individual instruction in the student's major performance medium developing techniques and repertoire at a beginner-intermediate level. Individual one hour lesson times are arranged with the studio teacher. Public performance and jury evaluation expected. Lessons are available in voice, piano, harpsichord, organ, accordion, flute, oboe, clarinet, bassoon, saxophone, trumpet, French horn, Trombone, euphonium, tuba, percussion, violin, viola, cello, string bass, harp, classical guitar, lute, commercial guitar, and electric bass. Primarily for music majors. Instrument fee may be required. Repeatable course. Offered Fall, Spring

**MUS 283. Piano III. (1 Units)**

Prerequisite: MUS 184 is required. Basic principles of the early childhood music teaching methods developed by Carl Orff. Music education through movement, singing, speech and drama and use of Orff musical instruments. Two hours of lecture and two hours of activity per week. Offered Fall

**MUS 284. Piano IV. (1 Units)**

Prerequisites: MUS 283 or consent of instructor. Advanced instruction in keyboard technique. Development of solo repertoire and preparation for the Piano Proficiency Exam. Repeatable course. Two hours of activity per week. Offered Spring

**MUS 290. Music Industry I: Survey of the Music Industry. (3 Units)**

Introduces students to careers in the music industry and enhances their ability to recognize how these professions affect and impact our daily lives. Course examines the many different career fields that make the music industry profitable and progressive. Offered Fall, Spring

**MUS 294. Independent Study. (1-3 Units)**

Prerequisites: Consent of instructor and department chair. The student investigates a scholarly topic or undertakes directed research or a creative project with the assistance of a Music faculty member. Repeatable course. Offered Infrequent

**MUS 295. Special Studies In Music. (3 Units)**

Special topics vary by section and semester. See Class Schedule for title and prerequisites. Repeatable course. Offered Infrequent, All terms

**MUS 300. Concert Music III. (1 Units)**

Prerequisite: MUS 200 is required. Provides training and support for music majors at an intermediate level through in-class performances, master classes, music journalism essays, attendance at various music performances, and department camaraderie. Required attendance in class and at approved music performances as determined by the Department of Music Repeatable once. CR/NC grading. Offered Fall, Spring

**MUS 301. Music In World Cultures. (3 Units)**

Prerequisite: MUS 101 or 110 or consent of instructor. Survey of non-Western cultures from a musical point of view. Using familiar folk and popular music for comparison, students will be guided into new listening experiences, develop a vocabulary for discussing world music, and gain an appreciation of cultural pluralism. Offered Fall, Spring

**MUS 302. African American Music. (3 Units)**

Introduction to the music of African Americans from roots in African cultural practice to current day. Musical genres include blues, spirituals, gospel, jazz, classical, R&B, soul, funk, hip-hop, rap, etc. The course is designed for music and non-music majors.

Offered Spring

**MUS 305A. Music For Dance. (1 Units)**

Prerequisites: MUS 101 and MUS 110 or consent of instructor. Survey and analysis of music suitable for children. History and philosophy of American music education emphasizing influences of European systems of Kodaly, Dalcroze, and Orff. Two hours of lecture and two hours of activity per week.

Offered Infrequent

**MUS 308. Popular & Jazz Harmony. (3 Units)**

Prerequisite: MUS 210 or consent of instructor. Analysis of chords and scale patterns, chord symbols, and chord substitutions in popular music and jazz.

Offered Fall

**MUS 312. The Jazz Age. (3 Units)**

Explores the social, cultural, and historical turbulence of the 1920s with a focus on the ways jazz aesthetics in music, literature, and the arts influenced and reflected new ways of thinking about American identity.

Offered Fall, Spring

**MUS 315. Counterpoint. (3 Units)**

Prerequisite: MUS 211 or consent of instructor. Counterpoint as a linear mode of compositional technique in Western music. Modal, tonal and post-tonal practices.

Offered Spring

**MUS 316. Instrumentation. (3 Units)**

Prerequisite: MUS 211 or MUS 308. Acoustical and musical characteristics of all the major orchestral and band instruments. Written assignments will include transcriptions for combination of instruments both as families and mixed ensembles.

Offered Fall, All terms

**MUS 320. Advanced Voice Class. (1 Units)**

Prerequisites: MUS 101, MUS 110 and MUS 220 or consent of instructor. Singing with emphasis on vocal mechanism, use of the voice in ensemble singing, and style in songs. Development of solo repertoire in foreign languages. Repeatable course. Two hours of activity per week.

Offered Fall, Spring

**MUS 322. Advanced Guitar Class. (1 Units)**

Prerequisites: MUS 101, MUS 110 and MUS 222 or consent of instructor. Advanced instruction in guitar technique. Development of solo repertoire. Repeatable course. Two hours of activity per week.

Offered Fall, Spring

**MUS 323. Advanced Flamenco Guitar. (1 Units)**

Prerequisite: Mus 223 required Course follows up on the concepts and techniques introduced in MUS 223, allowing students to move closer to mastery of flamenco guitar. Repeatable course. Two hours of activity per week

Offered Fall, Spring

**MUS 325. Instrumental Conducting. (3 Units)**

Prerequisite: MUS 310 or consent of instructor. An introduction to the basic techniques of conducting both instrumental groups, score reading, baton technique and fundamentals of interpretation. Repeatable course. Two hours of lecture and two hours of activity per week.

Offered Spring

**MUS 326. Choral Conducting. (3 Units)**

Prerequisite: MUS 212 or consent of instructor is required. An introduction to the basic techniques of conducting choral groups and the international phonetic alphabet (IPA). Score reading, hand technique, study of diction, pronunciation, and fundamentals of interpretation. Repeatable course. Two hours of lecture and two hours of activity per week.

Offered Fall

**MUS 333. Foundations in Music Education. (3 Units)**

Prerequisite: MUS 180 and MUS 280; In order to begin the hours for fieldwork in this course, you will need a valid Certificate of Clearance (fingerprints) and proof of a negative TB (within 4 months of the fieldwork course beginning). For information on submitting these documents, contact the Center for Teaching Careers. A survey of the leading historical, technological, and pedagogical approaches to music education in the United States. This course contains an observation component in the field.

Offered Infrequent

**MUS 340. Music For Children. (3 Units)**

Prerequisites: MUS 282 or consent of instructor.

Offered Fall, Spring, All terms

**MUS 345. Global Popular Music: Identity and Social Change. (3 Units)**

Explores popular music and social change in Africa, Asia, South Asia, Southeast Asia, and Latin America. Students will consider social development, modernity, and political movements in relation to music and text as resistance and representing social change.

Offered Fall

**MUS 360. Repertoire. (1 Units)**

Pre-requisite: MUS 260 (two semesters); Co-requisite: MUS 380. Studio instruction in an applied area that complements and provides additional depth to that which is offered in MUS 380. In depth study of Etudes, scales, arpeggios, and supplemental repertoire. Repeatable for credit.

Offered Fall, Spring

**MUS 367. Latin American Regional Music Ensemble. (1 Units)**

Students primarily focus on the performance practices of Latina American musical traditions. Through participation in varying-sized ensembles, students will demonstrate their acquired knowledge and skills in a public performance.

Offered Fall, Spring

**MUS 368. Pep Band. (1 Units)**

Prepares students for performances at university and athletic events while providing them an opportunity to grow and improve in individual and ensemble performance.

Offered Fall, Spring

**MUS 369. Early Music Collegium. (1 Units)**

Students primarily focus on the performance of music of the Middle Ages, Renaissance, and Baroque periods. Students will receive instructions on historically informed performance practice and present a concert at the end of each semester.

Offered All terms

**MUS 370. Chamber Music. (1 Units)**

Prerequisite: Consent of instructor. Study of music through small instrumental ensemble rehearsal and performance. Type of group may vary by section and semester. See Class Schedule for title. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Fall, Spring

**MUS 371. Chamber Singers. (1 Units)**

Prerequisite: Consent of instructor. Study of music through small vocal ensemble rehearsal and performance. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged. Offered Fall, Spring, All terms

**MUS 372. Jubilee Choir. (1 Units)**

Prerequisite: Consent of instructor. Study and performance of choral music of Afro-American culture. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged. Offered Spring

**MUS 373. Jazz Ensemble. (1 Units)**

Prerequisite: Consent of instructor. Techniques of improvisation and a study of performance of instrumental jazz repertoire. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged. Offered Fall, Spring

**MUS 375. Band. (1 Units)**

Offered Infrequent

**MUS 376. Orchestra. (1 Units)**

Prerequisite: Consent of instructor. A study of music through rehearsal and performance of music for symphony orchestra. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged. Offered Fall, Spring, All terms

**MUS 377. Chorus. (1 Units)**

Prerequisite: Consent of instructor. A study of music through rehearsal and performance of music for chorus. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged. Offered Fall, Spring

**MUS 378. Guitar Ensemble. (1 Units)**

Prerequisite: Consent of Instructor (audition). A study of music through rehearsal and performance of music for guitar ensemble. Public performance expected. Repeatable once at each level. Three hours of activity per week plus extra rehearsal and performance times to be arranged. Offered Infrequent

**MUS 379A. Music Theatre Workshop. (1 Units)**

Prerequisites: Audition and consent of instructor. Study of roles and representative excerpts from opera, operetta, and musical comedy and the basic musical, dramatic and language technique of the musical theater. Performance of excerpts and complete musical theatrical works. Repeatable once. Three hours of activity per week plus extras rehearsal and performance times to be arranged. Offered Infrequent

**MUS 380. Individual Lessons. (1 Units)**

Prerequisites: Audition and consent of department chair and instructor. individual instruction in the student's major performance medium developing technique and repertoire at an intermediate level. Individual one hour lesson times are arranged with the studio teacher. Public performance and jury evaluation expected. Lessons are available in voice, piano, harpsichord, organ, accordion, flute, oboe, clarinet, bassoon, saxophone, trumpet, French horn, trombone, euphonium, tuba, percussion, violin, viola, cello, string bass, harp, classic guitar, lute, commercial guitar, and electric bass. Primarily for music majors. Instrument fee may be required. Repeatable course. Offered Fall, Spring, All terms

**MUS 382. Advanced Piano II. (1 Units)**

Prerequisites: MUS 381 or consent of instructor. Advanced instruction in keyboard technique. Development of solo repertoire and preparation for the Piano Proficiency Exam. Repeatable course. Two hours of activity per week. Offered Spring, All terms

**MUS 385. Medieval and Renaissance Music. (3 Units)**

Prerequisites: MUS 101 and MUS 110 or consent of instructor. Music from the Medieval period through the Renaissance. Gregorian chant, Leonin, Perotin, Machaut, Dufay, Ockeghem, Josquin, Gombert, Willaert, Palestrina, Lasso, Gabrielli and other composers. Study of styles of music to uncover the various musical, aesthetic, and social determinants underlying the musical literature. Offered Infrequent, All terms

**MUS 386. Music History I: Medieval to Renaissance. (3 Units)**

Prerequisites: MUS 101 and MUS 110 or consent of instructor. This course covers music from the Medieval through the Renaissance period. The study of styles of music to engage various musical, aesthetic, and social determinants underlying the musical literature.. Offered Spring

**MUS 390. Music Industry II: Music Marketing, Media and Management. (3 Units)**

Prerequisite: MUS 290 is required. Provides students with an understanding of the inner and outer-workings of artist and concert management, nonprofit arts management, arts enterprise management, advertising management, digital marketing, public relations, branding, merchandising, endorsements, sponsorships, promotion and touring, and big data. Offered Fall, Spring

**MUS 395. Special Studies/Activities In Music. (1-3 Units)**

Offered Infrequent

**MUS 400. Concert Music IV. (1 Units)**

Prerequisite: MUS 300 is required. Provides training and support for music majors as an advanced level through in-class performances, masterclasses, music journalism essays, attendance at various music performances, and department camaraderie. Required attendance in-class and at approved music performances as determined by the Department of Music. May be repeated once. CR/NC grading. Offered Fall, Spring

**MUS 408. Advanced Songwriting. (3 Units)**

Prerequisite: MUS 308 or consent of instructor. Original songs created by students will be performed, discussed, and constructively criticized. Well-known popular, show, country, rock and R and B songs will be studied as models of melodic, harmonic, rhythmic, structural and poetic composition. Field trips and guest lecturers from the industry. Publishing and copyright procedures. Offered Infrequent

**MUS 415. Composition and Arranging: Art Music. (3 Units)**

Prerequisite: MUS 311 or consent of instructor. Composition and arranging of art music utilizing a variety of resources, from traditional instruments and voice to new instruments, electronics and computer. Repeatable course.  
Offered Spring

**MUS 416. Composition and Arranging: Popular and Jazz. (3 Units)**

Prerequisite: MUS 308 or consent of instructor. Composition and arranging for popular and jazz ensembles with an emphasis on contemporary styles. Repeatable course.  
Offered Spring

**MUS 421. Instrumental Methods: MUS ED. (3 Units)**

Required Co-requisite: MUS 333 Intensive preparation for prospective educators with focus on teaching instrumental music in schools (elementary, middle, and high school). Includes examination of appropriate literature, classroom management, and teaching pedagogy. Course contains a field experience component.  
Offered Infrequent

**MUS 433. Contemporary Pedagogy. (3 Units)**

Prerequisites: MUS 333 and MUS 421 required. In order to begin the hours for fieldwork in this course, you will need a valid Certificate of Clearance (fingerprints) and proof of a negative TB (within 4 months of the fieldwork course beginning). For information on submitting these documents, contact the Center for Teaching Careers. Study of the contemporary principles, techniques, and procedures effective for small and large group music instruction. Emphasis on the development of philosophy, methodology, and teaching strategies. Course contains a field experience component.  
Offered Infrequent

**MUS 440. Intro To Orff Schulwerk. (3 Units)**

Prerequisite: Consent of instructor. A study of music through rehearsal and performance of music for symphony orchestra. Public performances expected. Repeatable course. Three hours of activity per week plus extra rehearsal and performance times to be arranged.  
Offered Infrequent

**MUS 441. Marching Band Techniques. (1 Units)**

Pedagogy, management and administration of a marching band program. Content will address marching percussion, marching and maneuvering, and attached units.  
Offered As needed

**MUS 445. String Instruments. (1 Units)**

Prerequisite: MUS 110 or consent of instructor. Introduction to the principles and literature of string instruments, with emphasis on skills necessary for future teachers of instrumental ensembles. Repeatable course. Two hours of activity per week. Instrument fee may be required.  
Offered Spring

**MUS 446. Woodwind Instruments. (1 Units)**

Prerequisites: MUS 110 or consent of instructor. Instrument fee may be required. Introduction to the principles and literature of woodwind instruments with emphasis on skills necessary for future teachers of instrumental ensembles. Repeatable course. Two hours of activity per week.  
Offered Fall

**MUS 447. Brass Instruments. (1 Units)**

Prerequisite: MUS 110 or consent of instructor. Introduction to the principles and literature of brass instruments with emphasis on skills, necessary for future teachers of instrumental performance times to be arranged.  
Offered Spring

**MUS 448. Percussion Instruments. (1 Units)**

Prerequisite: MUS 110 or consent of instructor. Introduction to the principles and literature of percussion instruments with emphasis on skills necessary for future teachers of instrumental ensembles. Repeatable course. Two hours of activity per week. Instrument fee may be required.  
Offered Fall

**MUS 449. Vocal & Choral Techniques. (1 Units)**

Prerequisites: MUS 106 or consent of instructor is required. Introduction to the principles and literature of vocal and choral instruction, with emphasis on skills necessary for future teachers of choral ensembles. Repeatable course. Two hours of activity per week.  
Offered Spring

**MUS 460. Repertoire. (1 Units)**

Pre-requisite: MUS 360(two semesters); Co-requisite: MUS 480. Studio instruction in an applied area that complements and provides additional depth to that which is offered in MUS 380. In depth study of Etudes, scales, arpeggios, and supplemental repertoire. Repeatable for credit.  
Offered Fall, Spring

**MUS 467. Latin American Regional Music Ensemble. (1 Units)**

Students primarily focus on the performance practices of Latina American musical traditions. Through participation in varying-sized ensembles, students will demonstrate their acquired knowledge and skills in a public performance.  
Offered Fall, Spring

**MUS 468. Pep Band. (1 Units)**

Prepares students for performances at university and athletic events while providing them an opportunity to grow and improve in individual and ensemble performance.  
Offered Fall, Spring

**MUS 469. Early Music Collegium. (1 Units)**

Students primarily focus on the performance of music of the Middle Ages, Renaissance, and Baroque periods. Students will receive instructions on historically informed performance practice and present a concert at the end of each semester.  
Offered Fall, Spring

**MUS 470. Chamber Music. (1 Units)**

Prerequisite: Consent of instructor. Study of music through small instrumental ensemble rehearsal and performance. Type of group may vary by section and semester. See Class Schedule for title. Public performances expected. Repeatable course. Three hours of activity per week plus extra rehearsal and performance times to be arranged.  
Offered Fall, Spring

**MUS 471. Chamber Singers. (1 Units)**

Prerequisite: Consent of instructor. Study of music through small vocal ensemble rehearsal and performance. Public performances expected. Repeatable course. Three hours of activity per week plus extra rehearsal and performance times to be arranged.  
Offered Fall, Spring

**MUS 472. Jubilee Choir. (1 Units)**

Prerequisite: Consent of instructor. Study and performance of choral music of Afro-American culture. Public performances expected. Repeatable course. Three hours of activity per week plus extra rehearsal and performance times to be arranged. Offered Spring

**MUS 473. Jazz Ensemble. (1 Units)**

Prerequisite: Consent of instructor. Techniques of improvisation and a study and performance of instrumental jazz repertoire. Public performances expected. Repeatable course. Three hours of activity per week plus extra rehearsal and performance times to be arranged. Offered Fall, Spring

**MUS 475. Band. (1 Units)**

Offered Fall, Spring

**MUS 476. Orchestra. (1 Units)**

Prerequisites: Consent of department chair and instructor. Individual instruction and guidance in the technique of conducting instrumental and vocal ensembles. Individual lesson times are arranged with the instructor. Public performance and jury evaluation expected. Primarily for conducting majors. Repeatable course. Offered Fall, Spring

**MUS 477. Chorus. (1 Units)**

Prerequisite: Consent of instructor. A study of music through rehearsal and performance of music for chorus. Public performances expected. Repeatable course. Three hours of activity per week plus extra rehearsal and performance times to be arranged. Offered Fall, Spring

**MUS 478. Guitar Ensemble. (1 Units)**

Prerequisite: Consent of Instructor (audition). A study of music through rehearsal and performance of music for guitar ensemble. Public performance expected. Repeatable once at each level. Three hours of activity per week plus extra rehearsal and performance times to be arranged. Offered Infrequent

**MUS 479A. Music Theatre Workshop. (1 Units)**

Prerequisites: Audition and consent of instructor. Study of roles and representative excerpts from opera, operetta, and musical comedy and the basic musical, dramatic and language technique of the musical theater. Performance of excerpts and complete musical theatrical works. Repeatable course. Three hours of activity per week plus extra rehearsal and performance times to be arranged. Offered Infrequent

**MUS 480. Individual Lessons. (1 Units)**

Prerequisites: Audition and consent of department chair and instructor. Individual instruction in the student's major performance medium developing technique and repertoire at an advance level. Individual one hour lesson times are arranged with the studio teacher. Public performance and jury evaluation expected. Lessons are available in voice, piano, harpsichord, organ, accordion, flute, oboe, clarinet, bassoon, saxophone, trumpet. French horn, trombone, euphonium, tuba, percussion, violin, viola, cello, string bass, harp, classical guitar, lute, commercial guitar and electric bass. Primarily for music majors. Instrument fee may be required. Repeatable course. Offered Fall, Spring

**MUS 481S. Ind Lessons-Comp & Arrang. (1 Units)**

Prerequisites: Consent of department chair and instructor. Individual instruction and guidance with music composition and arranging projects. Individual lesson times are arranged with the instructor. Jury evaluation expected. Primarily for composition majors. Repeatable course. Offered Fall, Spring

**MUS 483A. Interpretation Of Music. (1 Units)**

Prerequisite: Concurrent enrollment in upper division individual lessons or consent of instructor. Exploration of a wide variety of topics relating to the interpretation of music from various stylistic periods. Recorded examples and student performances will be analyzed and compared with particular attention given to historic authenticity and contemporary practices. Repeatable course. Two hours of activity per week. Offered Spring

**MUS 485. Music History II: Baroque to Romantic. (3 Units)**

Prerequisites: MUS 106 and MUS 112 or consent of instructor. Covers music from the Baroque through the Romantic period. The study of styles of music to engage various musical, aesthetic, and social determinants underlying the musical literature Offered Fall

**MUS 486. Music History III: 1880 to Contemporary. (3 Units)**

Prerequisites: Two semesters of MUS 106 and 113 or consent of instructor. A critical analysis of music from the late Romantic through to the present. Students will focus on disciplinary writing on several styles of music to uncover the various technical, aesthetic, and social determinants underlying the musical literature. Students will actively refine their academic writing in music for diverse audiences, including writing for other musicians and the general public. Restricted to majors. A grade of C or better in this course fulfills the GEAR requirement for all Music majors and minors. Offered Spring

**MUS 493. Recital. (1 Units)**

Prerequisite: Concurrent enrollment in MUS 480 or MUS 580. Preparation and performance of a full or half music recital. Repeatable course. Offered Fall, Spring

**MUS 494. Independent Study. (1-3 Units)**

Prerequisites: Consent of instructor and department chair. In consultation with a Music faculty member, the student investigates a scholarly topic or undertakes a creative project. Repeatable course. Offered Fall, Spring

**MUS 495. Special Studies In Music. (1-3 Units)**

Special topics vary by section and semester. See Class Schedule for title and prerequisites. Repeatable course. Offered Fall, Spring

**MUS 496. Music Internship. (1-3 Units)**

Prerequisite: Consent of department chair. Students participate in an off-campus internship with an approved employer. Provides for an integration of academic study and related work experience. CR/NC grading. Repeatable course. Offered Fall, Spring

**MUS 499. Senior Project. (3 Units)**

Prerequisites: Consent of instructor and department chair. In consultation with a Music faculty member, student undertakes a major project which may be one of the following: original research and thesis on a given music history or theoretical topic, a creative project such as an original composition or a full recital with supporting scholarly program notes. Offered Fall, Spring

**MUS 580. Performance, Performance Practices and Repertoire. (2 Units)**

Prerequisite: Audition and consent of department chair and instructor. Ensembles. Repeatable course. Two hours of activity per week. Instrument fee may be required. Offered Infrequent

**MUS 581S. Ind Lessons-Comp & Arrang. (1 Units)**

Prerequisites: Consent of department chair and instructor. Individual instruction and guidance with music composition and arranging projects. Individual lesson times are arranged with the instructor. Jury evaluation expected. Primarily for composition majors. Repeatable course. Offered Infrequent

**MUS 582S. Indiv Lessons-Conducting. (1 Units)**

Prerequisites: NCR 290, NCR 390, and NCR 405. Preparation for application of knowledge of negotiation, conflict resolution, and peacebuilding in school settings. Explores pedagogies appropriate for the development of conflict resolution skills and techniques as basis for both elective and prescriptive training modules. Offered Infrequent

**MUS 593S. Recital. (1 Units)**

Prerequisite: Concurrent enrollment in MUS 580. Preparation and performance of a full or half music recital. Repeatable course. Offered Infrequent

**MUS 594. Independent Study. (1-3 Units)**

Prerequisites: Consent of instructor and department chair. In consultation with a Music faculty member, the student investigates a scholarly topic or undertakes a creative project. Repeatable Offered Infrequent

## Negotiation&Conflict Res (NCR)

**NCR 190. Seminar: Negotiation Theory. (3 Units)**

Negotiation Theory will be presented through consideration of the game and other theories used in bargaining at all levels of society, so that the student will understand why negotiation is the underlying art in human affairs. Students will acquire the ability to appropriately select and apply tools of negotiation to conflict resolution and peacebuilding in order to achieve personal, community, national and international goals. Offered As needed

**NCR 289. Key Issues in Peacebuilding. (3 Units)**

Introduction to theories of peace, conflict and violence. Emphasis is on interdisciplinary character of peacebuilding and application of theories and methods. Students gain understanding of nature of social conflict, causes of violence and the meanings of peacebuilding at all levels. Offered Fall

**NCR 290. Intro to Negotiation Theory. (3 Units)**

Prerequisites: Sophomore standing and instructor approval. Consideration of theories used in bargaining at all levels of society to understand why negotiation is the underlying art in human affairs. Students will acquire ability to appropriately select and apply tools on negotiation to conflict resolution and peacebuilding. Offered Infrequent

**NCR 291. Psychology of Peacebuilding. (3 Units)**

Examines how psychological processes, cognitive and emotional, individual and collective, combine with external factors in causing violence. How these psychological insights can help prevent and resolve violent conflicts is examined through consideration of peacebuilding approaches. Offered Spring

**NCR 294. Independent Study in NCR. (1-3 Units)**

Prerequisites: Consent of the instructor Independent study of particular topics in the subject area under the direction of a member of the subject department faculty. Repeatable course. Offered Infrequent

**NCR 296. Undergraduate Internship: Peacebuilding I. (3 Units)**

Prerequisite: Consent of instructor, restricted to majors. Under the direction of the internship faculty associate, students work in various approved internship opportunities. Offered Infrequent

**NCR 387. Environment and Peacebuilding. (3 Units)**

Peacebuilding and conflict transformation combine with ecology in an effort to reconsider the human relationship system as it combines with our environment. Explores how society might foster environmental improvements and sustainable development to achieve successful peacebuilding goals. Offered Fall

**NCR 390. Fundamentals of Conflict Resolution and Peacebuilding. (3 Units)**

Prerequisite: NCR 290. Introduction to fundamentals involved with interdisciplinary conflict resolution and peacebuilding. Emphasis on ways the arts and humanities shape and form its ethics and methods. Issues like truth and cultural perspective-taking will be explored along with storytelling narrative; creativity/imagination. Offered Fall, Spring

**NCR 391. Restorative Justice. (3 Units)**

Restorative arts and healing within conflict resolution encourages those who have harmed another to repair their harm. Victims, including affected community, receive opportunity to encounter offender, ask questions and share how they have been harmed. Restorative Discipline included. Offered Fall

**NCR 394. Independent Study in NCRP. (1-3 Units)**

Prerequisites: Consent of the instructor Independent study of particular topics in the subject area under the direction of a member of the subject department faculty. Repeatable course. Offered Infrequent

**NCR 396. Undergraduate Internship: Peacebuilding II. (3 Units)**

Prerequisite: Consent of instructor, restricted to majors. Under the direction of the internship faculty associate, students work in various approved internship opportunities. Offered Infrequent

**NCR 405. Research Methods: NCRP. (3 Units)**

Prerequisites: NCR 290 and NCR 390. Instructs in strategic research approaches used to develop new tools, methods or projects for analysis emphasizing theoretical, analytical, research and practical skills in writing and critical thinking in the field of negotiation, conflict resolution and peacebuilding. Offered Fall

**NCR 410. NCRP Pedagogy. (3 Units)**

Prerequisite: Requires approval of program director. Addresses emerging practice of conflict resolution in cyberspace. ODR utilizes online resources as the fourth party collaborating with the traditional third party in resolving conflicts more efficiently and less expensively. Offered Spring



**NCR 490. Capstone Course: NCRP. (3 Units)**

Prerequisites: NCR 290, NCR 390, NCR 405 and NCR 410. Community service learning utilizing outside internships (120 hours) plus weekly class sessions (75 minutes each). Internship will include successful completion of 25-hour mediation skills and techniques training. Requires demonstration of ability to negotiate and resolve disputes.  
Offered Spring

**NCR 494S. Independent Study in NCRP. (1-3 Units)**

Prerequisites: Consent of the instructor Independent study of particular topics in the subject area under the direction of a member of the subject department faculty. Repeatable course.  
Offered Infrequent

**NCR 495. Special Topics in Negotiation, Conflict Resolution and Peacebuilding. (3 Units)**

Prerequisite: Approval of Program Director. Intensive study of an issue, concept, theme or method in Negotiation, Conflict Resolution & Peacebuilding. May be taken for credit only once for the major.  
Repeatable course.  
Offered As needed

**NCR 496. Undergraduate Intern: Peacebuilding III. (3 Units)**

Prerequisite: Consent of instructor, restricted to majors. Under the direction of the internship faculty associate, students work in various approved internship opportunities.  
Offered Infrequent

**NCR 500. NCRP Skills Concepts & Tools. (3 Units)**

Determining specific purpose and key issues when negotiating, resolving conflict, and building peace. Effective application when reading, writing, speaking, and listening. Questioning information, conclusions, and points of view with clarity, accuracy, precision and relevance. Thinking beyond the box with fairness and logic.  
Offered Fall

**NCR 503. Ethics of NCRP. (3 Units)**

Prerequisite: NCR 500. Examines individual group values and perspectives in relation to negotiation, conflict resolution and peacebuilding processes, with special emphasis on analyzing third party intervener's ethical responsibilities and dilemmas. Case studies used to examine and formulate ethical approaches to critical issues.  
Offered Spring

**NCR 504. Theories of Conflict. (3 Units)**

Prerequisite: NCR 500. Critical analysis of conflict theories and models among individuals, organizations and governments; exploring causes, functions and effects. Perspectives from anthropology, archaeology, biology, communications, economics, gender studies, geography, history, Offered Fall

**NCR 507. Sem. Res Desig/Intpret. (3 Units)**

Prerequisite: NCR 500, 503 and 504. Considers various research methods to be used in negotiation, conflict resolution and peacebuilding. Covers research design and the tools needed to conduct basic independent research. Students develop a compelling research proposal addressing questions of importance to them.  
Offered Spring

**NCR 508. Communication and Conflict. (3 Units)**

Prerequisite: NCR 500, 503 and 504. Emphasizes human communication in context of conflict. Addresses challenges to effective communication caused by interpersonal, intrapersonal, intergroup or intragroup conflict, and role of communication in resolving such conflicts. Concentrates on methods of communication most effective in dealing with differences.  
Offered Fall

**NCR 522. Negotiation Tactics. (3 Units)**

Prerequisite: NCR 500, 503 and 504. Tactics used in negotiations among individuals, institutions, and societies. Planning and conducting personal, corporate, labor, hostage, and diplomatic negotiations. Cross-cultural, ethical, and historical dimensions.  
Offered Spring

**NCR 525. Mediation. (3 Units)**

Prerequisites: NCR 500, 503, 504, NCR 508, and NCR 522. Theory and skills including requirements for certification under the California Dispute Resolution Programs Act, especially agreement procedures, case development, consensus building, issue framing and prioritizing, orientations toward conflict, and record keeping.  
Offered Spring

**NCR 527. Arbitration. (3 Units)**

Prerequisites: Approval of program director. Compulsory and noncompulsory arbitration of grievances in public, private, corporate, labor, and international disputes. Case studies explore the arbitration role in unique settings.  
Offered Fall

**NCR 529. Conflict Res Internship. (3 Units)**

Prerequisites Requires approval of program director. Students will work as interns in agencies in negotiation, conflict resolution and/or peacebuilding, and will consult weekly with a faculty supervisor. A total of 120 hours of agency internship experience will be required to successfully complete the course. An internship for the Post-NCRP MA Certificate may not be the same as the internship used by the student for NCR 529 as part of the NCRP MA Degree Program.  
Offered Infrequent

**NCR 530. Online Dispute Resolution. (3 Units)**

Examines cases of health care providers who may find that they are involved in disputes related to their profession. Considers potential categories of legal conflict in the health care industry from three sources of conflict: providers, payers, and producers.  
Offered Fall

**NCR 531. Marital & Family Mediation. (3 Units)**

Prerequisite: Requires approval of program director. Separation problems in traditional and nontraditional relationships such as property division and child custody. Legal, tax, and financial aspects. The mediation process. Written and oral agreements.  
Offered Fall

**NCR 532. Dispute Resolution Clinic. (3 Units)**

Prerequisite: Requires approval of program director. Provides a forum in which all students, staff, and faculty can creatively process and resolve conflict rather than allowing hostilities to build toward violence or adjudication. Each semester, conducts a basic mediation skills training for campus and surrounding communities.  
Offered Infrequent

**NCR 533. Labor Conflict. (3 Units)**

Prerequisite: Requires approval of program director. Case and historical studies in selected industries. Past, present, and pending court decisions or national and state labor laws. Strategic planning for labor organizations. The process of negotiating a labor contract. Grievance and arbitration procedures.  
Offered Fall

**NCR 535. Organizational Conflict. (3 Units)**

Prerequisite: Approval of program director. Origin and types of conflicts which arise within and between complex organizations. Positive and negative effects of Organizational conflict. Exploiting, preventing, containing, escalating, and resolving conflict.  
Offered Fall

**NCR 536. Dispute Resolution for Sports. (3 Units)**

Prerequisite: Approval of program director. Examines sports law and dispute resolution utilizing particularly the processes of arbitration and mediation. Focuses on players, owners, agents and unions, as well as other areas of conflict such as free agency and player attitude and disloyalty.  
Offered Spring

**NCR 537. International NCRP. (3 Units)**

Prerequisite: Approval of program director. Study of selected international conflicts involving complex issues such as culture, ethnicity, politics and religion. Considers common misconceptions concerning diplomacy. Encourages students to appreciate approaches to negotiation, conflict resolution and peacebuilding as vehicles for successful grassroots impact on peace efforts.  
Offered Spring

**NCR 538. Sem: Public Policy Conflict. (3 Units)**

Prerequisites: NCR 504, NCR 507, NCR 508, NCR 522, NCR 525 and NCR 544. Considers constructive and timely approaches to resolving conflicts arising over use, conservation, and restoration of environment, natural resources, and public lands. Examines basic principles, mechanisms and strategies for engaging federal agencies in effective environmental conflict resolution and collaborative problem solving.  
Offered Spring

**NCR 540. Sem: Community Conflict. (3 Units)**

Prerequisite: Requires approval of program director. The impact of system dynamics on conflict management in communities from neighborhoods to nations. Implications of system dynamics for specifying goals and planning interventions to achieve them, from pre-emptive to corrective. Implications for training and organization.  
Offered Fall

**NCR 541. Restorative Justice&Peacebuilding. (3 Units)**

Prerequisite: Requires approval of program director. Addresses respective needs of crime victims and offenders ignored by criminal justice system and international community. Retribution abandoned in favor of restorative model based on needs of victims, offenders and community, achieved through application of conflict resolution and peacebuilding processes.  
Offered Fall

**NCR 542. Collaborative Law. (3 Units)**

Prerequisite: Requires approval of program director. Lawyers' and clients' cooperative voluntary conflict resolution process. Emphasizes shared belief that it is in best interest of parties to avoid adversarial proceedings. Commitment to resolving differences with minimal conflict and working together to create shared solutions to the issues.  
Offered Spring

**NCR 543. Conflict Resolution in Schools. (3 Units)**

Prerequisite: Requires approval of program director. Practical strategies to teach students to be peacemakers to reduce violence in schools. Discusses how schools can create cooperative learning environment where students learn how to negotiate and mediate peer conflicts and teachers use academic controversies to enhance learning.  
Offered Fall

**NCR 544. ADR Processes. (3 Units)**

Prerequisites: NCR 500, NCR 503 and NCR 504. Surveys a variety of process choices in dispute resolution. Recognizing that litigation may not be appropriate in many cases. Course examines alternatives such as negotiation, mini-trial, mediation, panel evaluation, summary jury trial, private judging, arbitration, and use of special masters.  
Offered Spring

**NCR 545. Intercultural Conflict. (3 Units)**

Prerequisite: Requires approval of program director. Presents overview of intercultural communication negotiation and conflict resolution. Emphasizes understanding of values of intercultural as well as interreligious diversity in our increasingly interdependent world, nation and local communities. Encourages awareness of cultural perspective and socialization.  
Offered Fall

**NCR 546. Conflict and the Media. (3 Units)**

Prerequisite: Requires approval program director. Examines the role of mass media in conflict resolution and peacebuilding, and its influence on world's most intractable conflicts as well as support of peace initiatives. Considers how media can serve as part of the problem or part of the solution.  
Offered Infrequent

**NCR 547. Negotiation International Ethnic Conflict. (3 Units)**

Examines basic considerations regarding negotiating ethnic conflict that present a challenge to those involved in negotiation, conflict resolution and peacebuilding. Explores relevance of negotiation theory to improvement, management, and resolution of these disputes by studying selected international conflicts.  
Offered Fall, Spring

**NCR 548. Health Care Dispute Resolution. (3 Units)**

Prerequisite: 6 units in LD Philosophy or department consent. An introduction to philosophical methods, research and dialogue in order to improve students' skills at writing and analysis. Topics to be covered will address some central area or areas of philosophy and will vary from year to year.  
Offered Spring

**NCR 549. Critical Peacebuilding. (3 Units)**

Considers the many and profound interconnections between conflict, development and peace. Examines high levels of violent protracted conflict and inexcusable and rising levels of poverty and inequality - two phenomena that are often found together intermingling in complex ways.  
Offered Fall

**NCR 591. Seminar: NCR Capstone Course. (3 Units)**

Prerequisites: All required and elective courses. Course is designed to enable students to demonstrate integration of knowledge of the field and critical and independent thinking. Preparation and delivery (oral and written) of culminating event under supervision of instructor. Faculty approval of written portfolio and successful oral defense required for graduation. CR grade insufficient by itself. CR/NC grading. Repeatable for six units.  
Offered Spring

**NCR 594. Independent Study. (1-4 Units)**

Prerequisites: Consent of Department Chair. Independent study undertaken under the supervision of a faculty member. Repeatable course.  
Offered As needed

**NCR 595. Special Topics. (1-3 Units)**

Prerequisite: Requires approval of program director. Study of a current topic in Negotiation, Conflict Resolution and Peacebuilding. Repeatable for total of six units.

Offered Fall, Spring

**NCR 597. Directed Reading in Negotiation, Conflict Resolution and Peacebuilding. (3 Units)**

In consultation with a faculty member, completion of readings for orientation to a little known topic; or as background for writing a thesis proposal (the concept for which has previously been approved by the NCR program director). CR/NC grading. Repeatable for a total of six units.

Offered Fall, Spring

**NCR 598. Directed Research. (3 Units)**

Prerequisites: Requires approval of program director. Conduct of pilot studies, development of research instruments, or similar independent research in preparation for the thesis, under the supervision of a faculty member in any area of Negotiation, Conflict Resolution and Peacebuilding. CR/NC grading.

Offered Fall, Spring

**NCR 599. Thesis or Project. (1-3 Units)**

Prerequisites: Requires approval of program director. In consultation with a faculty member, writing of a master's thesis in Negotiation, Conflict Resolution and Peacebuilding that has previously been approved by the NCR program director. Then, if thesis approved by faculty and oral defense successful, three units replace NCR 591 as culminating event. CR grade insufficient by itself. Choice of area requires prior approval of NCR program director. CR/NC grading.

Offered Fall, Spring

**NCR 600S. Grad Continuation Course. (1 Unit)**

Graduate students who have completed their course work but not their culminating event or who have other requirements remaining for the completion of their degree, may maintain continuous attendance by enrolling in this course. Signature of graduate program director required.

Offered Fall, Spring

## Nursing - Graduate (MSN)

**MSN 502. Advanced Nursing Roles. (3 Units)**

Introduces competencies and other foundational components of advanced nursing practices such as history, roles, options and choices that are associated with career development and professional practice. Aspects of advanced practice include the impact upon various roles of uses of technology, evidence-based decision making, organizational leadership, systems change, collaboration and outcomes evaluation.

Offered Fall, Spring, Summer

**MSN 513. Healthcare Policy/Economics. (3 Units)**

Prerequisite: MSN 502 is recommended. Online course exploring Healthcare Policy/Economics and public policy making at the state, national and international levels as it relates to the current healthcare and economic environment. Evidence-based strategies and policy models will be introduced to apply the policy making process.

Offered Fall, Spring, Summer

**MSN 514. Health Promotion and Disease Prevention. (3 Units)**

Prerequisite: MSN 502 is recommended. Examines traditional and alternative theoretical and conceptual bases of wellness from the perspective of nursing and health. Focuses on assessment, diagnosis, intervention and outcome evaluation of wellness and disease prevention needs and issues encountered in advanced nursing roles.

Offered Fall, Spring, Summer

**MSN 521. Advanced Health Assessment. (2 Units)**

Prerequisite: MSN 502 is recommended. Co-requisite: MSN 522 is required. Examines theoretical knowledge to perform a comprehensive health history and advanced health assessment. Analysis and synthesis of subjective and objective data to identify health problems and develop management plans. Health promotion risk factor identification and recognition of common abnormalities explored.

Offered All terms, Fall, Spring, Summer

**MSN 522. Advanced Health Assessment Lab. (1 Unit)**

Prerequisite: MSN 502 is recommended. Co-requisite: MSN 521 is required. Application of advanced physical assessment skills and knowledge necessary to perform a comprehensive health assessment. Hands-on supervised skills workshop integrates systematic assessment principles, appropriate health assessment techniques, guidelines and considerations for patients across the lifespan.

Offered All terms, Fall, Spring, Summer

**MSN 523. Family Assessment: Theory and Practice. (3 Units)**

Prerequisites: MSN core courses; MSN 526, 527 and 528 can be taken concurrently with instructor permission; Corequisite: MSN 541 for PC Role Option Students only. Focuses on the theoretical underpinnings specific to the biopsychosocial and developmental aspects of the family during the childbearing and child rearing years. Examines the conceptual basis of advanced practice nursing within the context of family assessment, interventions and strategies. Places emphasis on the family unit within a culturally diverse environment.

Offered Fall

**MSN 526. Pharmacology. (3 Units)**

Prerequisites: MSN 502 is recommended or permission of Director. Examines theoretical basis for pharmacological treatment of common health problems. Discusses selected classification of drugs with emphasis on pharmacokinetic principles, pathophysiological basis for therapeutic use, adverse effects, drug interactions, contraindications for use, patient education and issue of compliance.

Offered Fall, Spring, Summer

**MSN 528. Advanced Pathophysiology. (3 Units)**

Prerequisite: Upper-division undergraduate Pathophysiology course. Focuses on application of advanced knowledge of the complex physiological functions and pathophysiological processes related to the care of individuals with health care problems. Discusses alterations in function, and adaptive, integrative and regulatory mechanisms at the molecular, cellular, organ and system levels.

Offered Fall, Spring, Summer

**MSN 529. Nurse Educator: Curriculum and Teaching. (3 Units)**

Prerequisite: MSN 502; Corequisite: MSN 559 is recommended. Prepares the student for the nursing role of educator in a variety of academic and community settings. Analyzes and synthesizes curriculum development and teaching/learning strategies. Develops curriculum and teaching strategies using current nursing and education theory and research designed to meet the needs of diverse learners.

Offered Infrequent

**MSN 530. Research Utilization in Advanced Nursing Practice. (3 Units)**

Prerequisite: MSN 502 is recommended. Prepares the nurse to critique and apply research findings in nursing practice. Critical thinking is related to problem identification, assessment of data, and outcome evaluation. Research methodologies, including qualitative and quantitative approaches, are examined and related to nursing informatics.

Offered Fall, Spring

**MSN 531. Nursing Ethics. (3 Units)**

Prerequisite: MSN 502 is recommended. Examines the theoretical and conceptual bases of ethics from a nursing perspective, including the moral development of nurses. Focuses on analysis, synthesis and resolution of ethical issues encountered in advanced practice nursing. Uses critical thinking to explore ethical relationships involved in delivering health care to diverse populations.

Offered Fall, Spring, Summer

**MSN 532. Nurse Administrator: Societal Institutions. (3 Units)**

Prerequisite: MSN 502; Corequisite: MSN 560 is recommended. Examines the advanced role of the nurse administrator within the context of health care organizations, scientific enterprises, government and industry. Investigates current developments in the health care delivery system, including system management. Emphasizes the nurse administrator's leadership in providing health care to diverse populations by diverse providers within multi-level care settings.

Offered Infrequent

**MSN 533. Theoretical Aspects of Aging. (3 Units)**

Prerequisites: MSN 502 is required. Corequisite: MSN 549 is required for for CNS Adult-Gerontology Role Option students only. Provides comprehensive information on the aging population. Covers normal and abnormal aging changes. The components of Geriatric Syndromes are identified. Learners explore clinical assessment tools, standards of care and client outcomes, including palliative and end-of-life care.

Offered Spring

**MSN 535. Clinical Management and Differential Diagnosis of Adult Acute Health Problems. (3 Units)**

Prerequisites: MSN 550 and MSN 547 are required. Co-requisite: MSN 548 is required. Focuses on clinical decision making in advance practice nursing. Students will learn the application of critical thinking and clinical judgment to differentiate diagnosis and management of common acute care problems in the acute and critically ill adult patient.

Offered All terms, Spring

**MSN 536. Advanced Neonatal Nursing I. (2 Units)**

Prerequisites: MSN 521, MSN 522, MSN 526, and MSN 528 are required. Co-requisite: MSN 548 is recommended. Advanced nursing management of well and ill neonates focusing on health promotion and maintenance. Evidence-based strategies for anticipatory planning, screening, support of development, and family-centered care will be explored. Covers symptom management and reviews common medications of the neonate.

Offered All terms, Spring

**MSN 537. Advanced Neonatal Nursing II. (4 Units)**

Prerequisites: MSN 521, MSN 522, MSN 526 and MSN 528 are required. Co-Requisite: MSN 548 is recommended. Advanced nursing management of well and ill neonates focusing on health promotion and maintenance. Evidence-based strategies for anticipatory planning, screening, support of development, and family-centered care will be explored. Covers symptom management and reviews common medications for the neonate.

Offered All terms, Fall

**MSN 538. Nurse Administrator: Resource Management. (3 Units)**

Prerequisite: MSN 502; Corequisite: MSN 570 is recommended. Examines the advanced role of the nurse administrator within the context of resource management. Investigates current developments in health care delivery, including financial management, labor relations, and human resource management. Emphasizes leadership development within multi-level care settings.

Offered Fall, Spring

**MSN 539. Nurse Educator: Testing and Evaluation. (3 Units)**

Prerequisite: MSN 502; Corequisite: MSN 569 is recommended. Prepares the student for the nursing role of educator in a variety of academic and community settings. Analyzes and synthesizes testing and evaluation strategies. Examines current topics and issues related to student assessment and evaluation of learning outcomes using nursing and education theory and research designed to meet the needs of diverse learners.

Offered Fall, Spring

**MSN 540. Clinical Management of Acute Pediatric Health Problems. (4 Units)**

Prerequisite: MSN 550 Emphasis on advanced practice nurse clinical decision making for pediatric patients. Student will learn the application of critical thinking and clinical judgment to develop differential diagnoses and manage common problems in the acute and critically ill pediatric patient.

Offered Fall

**MSN 547. Clinical Nurse Specialist Role Performance I. (3 Units)**

Prerequisites: MSN 502, MSN 513, MSN 514, MSN 521, MSN 522, MSN 526, MSN 528, MSN 530 and MSN 531 are required. 144 hour practicum to apply theories for execution of CNS role in clinical settings with a specialty/population focus. Under supervision, the student is provided opportunities for role socialization, exploration of CNS responsibilities, and development of novice competencies. CR/NC grading only.

Offered Fall

**MSN 548. Clinical Nurse Specialist Role Performance II. (4 Units)**

Prerequisites: MSN 550 and MSN 547 are required. MSN 513, MSN 514, MSN 526 and MSN 531 are recommended. Corequisites: MSN 523 or MSN 535 is required. This 144 Hour practicum requires the application of evidence based practice and education principles in the clinical setting. Students will focus on health problems commonly encountered in the population of focus. CR/NC grading only.

Offered Spring

**MSN 549. Clinical Nurse Specialist Role Performance III. (3 Units)**

Prerequisites: MSN 547, MSN 548, and MSN 550 are required. This 144 hour practicum focuses on the CNS role in managing clinical outcomes. Students will provide consultation and wellness services, explore clinical concerns at the organizational level, and prepare for professional practice as a CNS.

Offered Fall

**MSN 550. Theoretical Foundations of Clinical Nurse Specialist Practice. (3 Units)**

Prerequisites: MSN 502, MSN 513, MSN 514, MSN 521, MSN 522, MSN 526, MSN 528, MSN 530, and MSN 531 are required. Co-requisite: MSN 547 is required. A conceptual basis of advanced nursing practice for the Clinical Nurse Specialist (CNS) role is established. Students will learn CNS practice models, family theories, leadership theories, decision-making models, organizational theories, change management, care coordination and management of transitions care.

Offered All terms, Fall

**MSN 554. Applied Nursing Science VI. (2 Units)**

Co-requisite: MSN 553 is required. Focuses on providing evidence-based, culturally competent nursing care for children and their families. Requires 96 hours of supervised practice in skills lab, and pediatric and community clinical settings.

Offered Infrequent

**MSN 555. Quality Improvement in Health Care. (3 Units)**

Prerequisite: MSN 502 is recommended. Explores the historical evolution of quality initiatives in health care and defines current concepts in quality assessment and improvement. Emphasizes organizational performance, outcomes assessment, management and effectiveness, and the role of the advanced practice nurse.

Offered Fall, Spring

**MSN 556. Primary Care of the Family I. (4 Units)**

Prerequisite: MSN 526, MSN 527 or permission of Director. Concurrent enrollment in MSN 558 is recommended. Examines theoretical basis for pharmacological treatment of common health problems. Emphasis will be placed on comprehensive assessment and management of common acute health problems seen in the care of clients across the life span.

Offered Fall, Spring, Summer

**MSN 558. FNP: Role Perform I. (3 Units)**

Corequisite: MSN 556 is recommended. Emphasizes comprehensive assessment and management of common acute health problems seen in the primary care of clients across the life span. Focuses on the primary care of the individual as a member of the family within a culturally diverse environment. Requires 144 hours of clinical practice under supervision by a faculty instructor and an individual preceptor. CR/NC grading.

Offered Fall

**MSN 559. Nurse Educator: Role Performance I. (3 Units)**

Prerequisite: MSN 502. Corequisite: MSN 529 is recommended. Provides the opportunity for implementing the nurse educator role in an education or health care setting. Applies curriculum development and didactic and clinical teaching/learning concepts and strategies, under supervision by the instructor and a preceptor. Requires 144 hours of practice in teaching. CR/NC grading.

Offered Infrequent

**MSN 560. Nurse Administrator: Role Performance I. (3 Units)**

Prerequisite: MSN 502; Corequisite: MSN 532 is recommended. Provides the opportunity to implement the nurse administrator role in a selected health care setting by focusing on forces shaping the role of the departmental nurse leader and institutional governance. Applies valid and reliable measures of evaluation to organizational and nurse administrator performance, under supervision by the instructor and a preceptor. Requires 144 hours of practice in administration. CR/NC grading.

Offered Infrequent

**MSN 561. Primary Care of the Family II: Pediatric Health. (2 Units)**

Prerequisites: MSN 556 and MSN 558 are required. Co-requisites: MSN 568 or MSN 548 is required. Theoretical and conceptual basis for advanced practice nurses focusing on children, newborn through adolescence. Emphasis on assessment, diagnosis, and management of common age-related wellness and acute health conditions seen in pediatric settings. Culturally sensitive health promotion and maintenance of children.

Offered All terms, Spring

**MSN 562. Primary Care of the Family II: Women's/Gender Health. (2 Units)**

Prerequisites: MSN 556 and MSN 558 are required. Co-requisite: MSN 568 is required. Theoretical and conceptual basis for advanced practice nursing diagnosis and management of common and acute gender-related health conditions. Male and female reproductive health, pregnancy, contraception, infertility, menopause and sexuality will be explored, including culturally sensitive health promotion and maintenance.

Offered All terms, Spring

**MSN 565. Pathopharmacology for Nurse Educators. (3 Units)**

Integrates advanced pathophysiology with pharmacotherapeutics for nurse educators, enhancing knowledge and skills of pharmacodynamics and pharmacokinetics as they relate to pathophysiological processes in each body system.

Offered Fall

**MSN 568. Family Nurse Practitioner: Role Performance II. (3 Units)**

Prerequisites: MSN 556 and MSN 558. Corequisite: MSN 566 is recommended. Emphasizes comprehensive assessment and management of common acute health problems seen in women and children. Focuses on the primary care of the individual as a member of the family within a culturally diverse environment. Includes reproduction, pregnancy, contraception, growth and development, as well as health promotion and health maintenance for women and children. Requires 144 hours of clinical practice under supervision by a faculty instructor and individual preceptor. CR/NC grading.

Offered Spring

**MSN 569. Nurse Educator: Role Performance II. (3 Units)**

Prerequisite: MSN 502; Corequisite: MSN 539 is recommended. Provides the opportunity for implementing the nurse educator role in an education or health care setting. Applies assessment and evaluation concepts and strategies in didactic and clinical teaching/learning situations, under supervision by the instructor and a preceptor. Requires 144 hours of practice in teaching. CR/NC grading.

Offered Spring

**MSN 570. Nurse Administrator: Role Performance II. (3 Units)**

Prerequisite: MSN 502; Corequisite: MSN 538 is recommended. Provides the opportunity to implement the nurse administrator role in a selected health care setting according to professional and regulatory requirements. Focuses on formulating a nursing service plan for integrating quality measures with cost control and case management practice, under supervision by the instructor and a preceptor. Requires 144 hours of practice in administration. CR/NC grading.

Offered Infrequent

**MSN 576. Primary Care of the Family III. (4 Units)**

Prerequisite: MSN 566, MSN 567 or permission of Director. Corequisite: MSN 578 is recommended. Examines theoretical and conceptual basis for advanced practice as Family Nurse Practitioner. Emphasis is on comprehensive assessment and management of increasingly complex acute and chronic health problems across the life span for culturally diverse individuals and families.

Offered Fall, Spring, Summer

**MSN 578. Family Nurse Practitioner: Role Performance III. (3 Units)**

Prerequisites: MSN 566 and MSN 568. Corequisite: MSN 576 is recommended. Emphasizes growth in independent practice in providing comprehensive assessment and management of common chronic health problems seen in the primary care of clients across the life span. Focuses on the primary care of the individual as a member of the family within a culturally diverse environment. Requires 144 hours of clinical practice under supervision by a faculty instructor and an individual preceptor. CR/NC grading.

Offered Infrequent

**MSN 583. Clinical Nurse Leader Role Performance II. (3 Units)**

Prerequisite: MSN 580 and MSN 581 are required. Co-requisite: MSN 582 is required. Restricted to majors. Focuses on implementation of the CNL role in a selected healthcare microsystem. In this 150 hour clinical experience, the student will develop expertise in clinical leadership with a focus on aggregates. With guidance from a nurse preceptor, students will implement strategies to address identified problems requiring quality improvement, risk reduction and patient safety management. CR/NC grading.

Offered All terms, Summer

**MSN 588. Family Nurse Practitioner: Role Performance IV. (3 Units)**

Prerequisites: MSN 576 and MSN 578. Provides an opportunity to integrate evidence based research into clinical evaluation and implementation of primary health care of clients across the life span. Emphasizes evaluation of the impact of community, cultural, socioeconomic, and psychosocial factors on the health care needs of individuals and families within a culturally diverse environment. Requires 144 hours of clinical practice under supervision by a faculty instructor and individual preceptor. CR/NC grading.

Offered Spring

**MSN 594. Independent Study. (1-3 Units)**

A course of study designed cooperatively by student and instructor, and approved by the Director, to accomplish individualized learning objectives that are appropriate to the role of the professional nurse. (Students should contact their advisor prior to enrolling to determine the appropriateness of this course for degree completion.)

Offered As needed

**MSN 595. Special Topics/Colloquia. (1-3 Units)**

This course offers student groups an opportunity to explore a topic of current interest to the nursing profession with colleagues, faculty and special guest speakers.

Offered As needed

**MSN 600. Project Continuation Course. (1 Units)**

Students who have not completed their culminating experience by the end of the term may enroll in the following term to maintain continuous enrollment.

Offered Fall, Spring

## Nursing - Undergraduate (BSN)

**BSN 302. Concepts of Professional Nursing Practice. (3 Units)**

Focuses on concepts essential to the baccalaureate prepared nurse for socialization into the full professional role. Incorporates The Essentials of Educated Baccalaureate Education for Professional Nursing Practice (2008). Content areas include returning to school and role development, historical nursing influences, nursing theory, ethical practice, quality practice, accountability and professional nursing issues/trends.

Offered Fall, Spring, Summer

**BSN 306. Cult Diversity Healthcare. (3 Units)**

Applies cultural concepts and models to explore various forms of human diversity. Analyzes how cultural diversity affects health beliefs, health care behaviors, and health/illness dynamics. Discusses ethnocentrism and bias and their impact on health care. Helps to build cultural competence and improve health care delivery.

Offered Fall, Spring, Summer

**BSN 346. Human Pathophysiology. (3 Units)**

Recommended Prerequisite: BSN 302. Explores the response of the human body to various disease processes. Examines the rationale behind diagnosis and treatment of illness and injury. Contrasts the environmental and genetic components that contribute to health/illness. Emphasizes research advances in genetics and biomedical sciences, especially related to HIV/AIDS and quality of life.

Offered Fall, Spring, Summer

**BSN 381. Hlth Assess Skills Seminar. (1 Units)**

Prerequisite: BSN 346 is recommended. Provides the opportunity for application of basic knowledge and the practice of skills related to performing a complete nursing health assessment of pediatric, adult, and geriatric patients. Requires 16 hours of practice in a clinical laboratory. CR/NC grading.

Offered Fall, Spring, Summer

**BSN 382. Health Assessment. (2 Units)**

Recommended Prerequisite: BSN 346. Recommended Co-requisite: BSN 381. Students examine the theoretical knowledge and psycho-motor skills necessary to perform a comprehensive health history and physical examination on the pediatric, adult, and geriatric patient.

Offered Fall, Spring, Summer

**BSN 422. Community-Based Nursing. (3 Units)**

Prerequisites: BSN 302, BSN 346, BSN 381, and BSN 400 or concurrent enrollment are required. Co-requisite: BSN 423 is recommended. Explores dimensions of community-based nursing from individual/family health to community's overall health levels. Explores nursing scopes and responsibilities in healthy promotion and education, disease prevention, and risk reduction. Examines how epidemiological and evidence-based practice principles may be applied in order to assess, plan, implement, and evaluate community-based nursing interventions.

Offered Fall, Spring, Summer

**BSN 423. Community-Based Nursing Role Performance. (2 Units)**

Prerequisites: BSN 302, BSN 346, BSN 381, BSN 400 and BSN 422 (or concurrent enrollment) are required. Provides an opportunity for application of the knowledge and the skills of the community-based nurse in a community setting. Requires 90 hours of clinical practice with a preceptor for the Public Health Nurse Certificate.

Offered Fall, Spring, Summer

**BSN 452. Management and Leadership in Health Care Systems. (3 Units)**

Required Prerequisite: BSN 302. Recommended Prerequisite: BSN 460. Introduces concepts of leadership, management, advocacy and roles of the professional nurse in relation to career planning, organizational and system-wide change. Topics include professionalism, ethics, power, quality, safety, inter-professional collaboration, change, group dynamics, finance, technology, and strategic planning.

Offered Fall, Spring, Summer

**BSN 460. Nursing Research Utilization. (3 Units)**

Prerequisite: BSN 405 may be taken concurrently. Examines scientific clinical nursing rationale for research utilization and theory-based practice. Presents concepts of research methods and processes. Analyzes relevant nursing problems for clinical effective practice.

Offered Fall, Spring, Summer

**BSN 494. Independent Study. (1-3 Units)**

A course of study designed cooperatively by student and instructor, and approved by the Program Director, to accomplish individualized learning objectives that are appropriate to the role of the professional nurse. (Students should contact their advisor prior to enrolling to determine the appropriateness of this course for degree completion.)  
Offered Fall, Spring, Summer

**BSN 495. Special Topics/Colloquia. (1-3 Units)**

These courses offer student groups an opportunity to explore a topic of current interest to the nursing profession with colleagues, faculty and special guest speakers.  
Offered Fall, Spring, Summer

## Occupational Therapy (OTR)

**OTR 410. Introduction to the Scope of Practice and Conceptual Foundations of Occupational Therapy. (2 Units)**

Overview of the complex scope, philosophical foundation, history, practice areas, professional and ethical roles and responsibilities, models of practice, service delivery, professional development, and career growth in occupational therapy. Also explores client populations across the lifespan in various practice settings.  
Offered Spring, Summer

**OTR 495. Special Topics in Occupational Therapy. (1-3 Units)**

Prerequisite: Consent of instructor and additional course prerequisites depending on topic. Special interest topics related to Occupational Therapy. Content will vary as announced. Repeatable course.  
Offered All terms, As needed

**OTR 500. Person-Environment-Occupation. (2 Units)**

Co-requisites: OTR 502, OTR 504, OTR 506, OTR 508, OTR 510, and OTR 512. Emphasizes the importance of occupational engagement to health and the relationship that exists between individuals, occupations and environments. Students will be challenged to explore the person-environment-occupation model centered on persons and the occupations they fulfill within their everyday environment.  
Offered Spring

**OTR 502. History of Occupation. (2 Units)**

Co-requisites: OTR 500, OTR 504, OTR 506, OTR 508, OTR 510, and OTR 512. A historical survey of the development of the profession and the study of the occupational nature of human beings. Review of how leaders of the profession have articulated occupation and the therapeutic applications across time.  
Offered Spring

**OTR 504. Activities Across the Lifespan. (3 Units)**

Co-requisites: OTR 500, OTR 502, OTR 506, OTR 508, OTR 510, and OTR 512. Introduction to how activities used as meaningful occupations can be used as therapeutic interventions. Individual and group experience with media and how to identify, analyze and adapt activities for their potential as treatment modalities is emphasized.  
Offered Spring

**OTR 506. Interactive Reasoning. (3 Units)**

Co-requisites: OTR 500, OTR 502, OTR 504, OTR 508, OTR 510, and OTR 512. Introduction to the historical, theoretical underpinnings and application of group work to populations spanning the lifespan.  
Offered Spring

**OTR 508. Professional Development Seminar - Portfolio I: Introduction to E-Portfolio. (1 Units)**

Co-requisites: OTR 500, OTR 502, OTR 504, OTR 506, OTR 510, and OTR 512 are required. Introduces process of professional portfolio development; orients students to the steps toward portfolio completion; introduces critical thinking and reflective learning methods; provides students with experiences in self-directed learning; reviews the development of a research proposal in planning research.  
Offered Spring

**OTR 510. Introduction to Frameworks for Occupational Therapy Practice. (2 Units)**

Co-requisites: OTR 500, OTR 502, OTR 504, OTR 506, OTR 508, OTR 512. Introduction to fundamental theoretical concepts of occupational therapy practice; philosophy; terminology; professional roles delineation; ethics; scope and models of practice.  
Offered Spring

**OTR 512. Human Anatomy. (3 Units)**

Co-requisites: OTR 500, OTR 502, OTR 504, OTR 506, OTR 508, OTR 510 or Admission to OTD program. Advanced study of human body by means of review of Web based materials specific to dissection and identification of select specimens and structures of the body.  
Offered Spring

**OTR 515. Occupation Across the Lifespan I: Adolescence. (3 Units)**

Prerequisites: OTR 500, OTR 502, OTR 504, OTR 506, OTR 508, OTR 510, OTR 512. Co-requisites: OTR 517, OTR 519, OTR 521, OTR 523, OTR 525, OTR 527, OTR 529, and OTR 530. Explores development of activity patterns associated with adolescent occupational choice, roles, routines, habit formation and attributed meaning. Focus is on adolescent development and life transition.  
Offered Summer

**OTR 517. Assessments in Occupational Therapy Practice: Adolescence. (1 Units)**

Prerequisites: OTR 500, OTR 502, OTR 504, OTR 506, OTR 508, OTR 510, and OTR 512 or OTD student group. Co-requisites: OTR 515, OTR 519, OTR 521, OTR 523, OTR 525, OTR 527, OTR 529, and OTR 530. Focuses on OT clinical evaluation with the adolescent population. Students will develop clinical reasoning and skill to select and administer standardized and non-standardized interview, observational, self-report and assessment tools in the processes of referral, screening, evaluation and documentation.  
Offered Summer

**OTR 519. Interventions in Occupational Therapy Practice - Adolescence. (2 Units)**

Prerequisites: OTR 500, OTR 502, OTR 504, OTR 506, OTR 508, OTR 510, OTR 512 or OTD student group. Focus on OT clinical interventions with the adolescent population. Students will develop clinical reasoning and skill in treatment planning, implementation, reviewing progress, discharge planning and documentation.  
Offered Summer

**OTR 521. Conditions Affecting Health I - Adolescents. (2 Units)**

Prerequisites: OTR 500, OTR 502, OTR 504, OTR 506, OTR 508, OTR 510, OTR 512. Co-requisites: OTR 515, OTR 517, OTR 519, OTR 523, OTR 525, OTR 527, OTR 529, OTR 530. Theoretical approaches and models of practice commonly used with this population will be discussed in association with conditions that affect adolescents' ability to engage in meaningful occupations common to this development level.  
Offered Summer

**OTR 523. Case Seminar I - Adolescent. (1 Units)**

Prerequisites: OTR 500, OTR 502, OTR 504, OTR 506, OTR 508, OTR 510, OTR 512, Co-requisites: OTR 515, OTR 517, OTR 519, OTR 521, OTR 525, OTR 527, OTR 529, OTR 530. Seminar format to provide opportunities for students to hear first-hand occupational profiles and personal narratives of adolescents and their families as they are engaged in discussions of issues relative to problems in domains of occupational engagement. Offered Summer

**OTR 525. OT Research I - Qualitative Research Methods for Health Professionals. (2 Units)**

Prerequisites: OTR 500, OTR 502, OTR 504, OTR 506, OTR 508, OTR 510, and OTR 512 are required. Co-requisites: OTR 515, OTR 517, OTR 519, OTR 521, OTR 523, OTR 527, OTR 529, and OTR 530 are required. Explores the role of qualitative research in developing a deeper understanding of client populations and the development of theory in occupational therapy. Research design, data collection strategies, and methods of analysis will be discussed. Offered Summer

**OTR 527. Foundations of Kinesiology for Occupational Therapy. (4 Units)**

Prerequisites: OTR 500, OTR 502, OTR 504, OTR 506, OTR 508, OTR 510, OTR 512 or OTD student group. Co-requisites: OTR 515, OTR 517, OTR 519, OTR 521, OTR 523, OTR 525, OTR 529, OTR 530. The course consists of lectures, activity analyses, and case studies designed to provide students with diverse opportunities to integrate key concepts of kinesiology into an understanding of how movement and loss of movements may impact performance of complex, everyday occupations. Offered Fall, Summer

**OTR 529. Fieldwork I Adolescents. (1 Units)**

Prerequisites: OTR 500, OTR 502, OTR 504, OTR 506, OTR 508, OTR 510, OTR 512. Co-requisites: OTR 515, OTR 517, OTR 519, OTR 521, OTR 523, OTR 525, OTR 527, OTR 530. Fieldwork offers on-site clinical experiences with populations commonly served in OT practice settings for adolescent. Clinical experiences support co-requisite coursework and will rely on first semester course materials. Offered Summer

**OTR 530. Professional Development Seminar - Portfolio II: Ethics. (1 Units)**

Prerequisites: OTR 500, OTR 502, OTR 504, OTR 506, OTR 508, OTR 510, and OTR 512 are required. Co-requisites: OTR 515, OTR 517, OTR 519, OTR 521, OTR 523, OTR 525, OTR 527, and OTR 529 are required. Introduction to ethics theory and principles as applied to common occupational therapy clinical situations and opportunities to analyze and solve ethical dilemmas. Overview of legal principles that may impact ethical decision-making. Offered Summer

**OTR 535. Conditions Affecting Health I - Adolescents. (3 Units)**

Prerequisites: OTR 515, OTR 517, OTR 519, OTR 521, OTR 523, OTR 525, OTR 527, OTR 529, OTR 530. Co-requisites: OTR 537, OTR 539, OTR 541, OTR 543, OTR 547, OTR 550, OTR 552. Provides the theoretical foundations and frames of reference to understand pediatric populations and their family's occupations. Explores the developmental impact of contexts, family, and child factors that promote or limit engagement in occupations and co-occupations from infancy through school age. Offered Fall

**OTR 537. Assessments in Occupational Therapy Practice: Pediatrics. (2 Units)**

Prerequisites: OTR 515, OTR 517, OTR 519, OTR 521, OTR 523, OTR 525, OTR 527, OTR 529, OTR 530 or OTD Student Group. Co-requisites: OTR 535, OTR 539, OTR 541, OTR 543, OTR 547, OTR 550, OTR 552 or OTD Student Group. Focuses on OT clinical evaluation with the pediatric population. Students will develop clinical reasoning and skill to select and administer standardized and non-standardized interview, observational, self-report and assessment tools in the processes of referral, screening, evaluation and documentation. Offered Fall

**OTR 539. Interventions in Occupational Therapy Practice - Pediatrics. (2 Units)**

Prerequisites: OTR 515, OTR 517, OTR 519, OTR 521, OTR 523, OTR 525, OTR 527, OTR 529, OTR 530 or OTD Student Group. Focuses on OT clinical interventions with the pediatric population. Students will develop clinical reasoning and skill in treatment planning, implementation, reviewing progress, discharge planning, and documentation. Offered Fall

**OTR 541. Conditions Affecting Health II - Pediatrics. (2 Units)**

Prerequisites: OTR 515, OTR 517, OTR 519, OTR 521, OTR 523, OTR 525, OTR 527, OTR 529, 530. Co-requisites: OTR 535, OTR 537, OTR 539, OTR 543, OTR 547, OTR 550, OTR 552. The application of knowledge of at-risk and diagnostic conditions to the occupational performance of children and their families. The role of genetics, body structures, functions, and the environment in the presence of developmental issues from conception through adolescence will be addressed. Offered Fall

**OTR 543. Case Seminar II Pediatrics. (1 Units)**

Prerequisites: OTR 515, OTR 517, OTR 519, OTR 521, OTR 523, OTR 525, OTR 527, OTR 529, OTR 530. Co-requisites: OTR 535, OTR 537, OTR 539, OTR 541, OTR 547, OTR 550, OTR 552. Seminar provides opportunities for students to hear first-hand from families and children with special needs and discuss issues relative to diagnosis, occupational therapy assessment and interventions, service delivery, as well as the contexts in which children and their families participate. Offered Fall

**OTR 545. OT Research II - Quantitative Research Methods for Health Professions. (3 Units)**

Prerequisites: OTR 535, OTR 537, OTR 539, OTR 541, OTR 543, OTR 552, OTR 547, and OTR 550 are required. Co-requisites: OTR 553, OTR 555, OTR 557, OTR 559, OTR 561, OTR 563, and OTR 571 are required. A review of clinical research methodology and designs with emphasis on interpreting and utilizing research results and the impact of research on evidence-based practice in occupational therapy. Students will develop feasible research proposals related to occupational therapy practice. Offered Spring

**OTR 547. Neurological Foundations of Oc. (5 Units)**

Prerequisites: OTR 515, OTR 517, OTR 519, OTR 521, OTR 523, OTR 525, OTR 527, OTR 529, and OTR 530 or OTD student group. Co-requisites: OTR 535, OTR 537, OTR 539, OTR 541, OTR 543, OTR 550, and OTR 552. Foundational knowledge of how the human nervous system serves as the foundation for occupational choice and occupational engagement. Designed to provide opportunities to learn the structures and functional organization of the nervous system related to the performance of everyday occupations. Offered Fall, Spring



**OTR 550. Level I Fieldwork - Pediatrics. (1 Units)**

Prerequisites: OTR 515, OTR 517, OTR 519, OTR 521, OTR 523, OTR 525, OTR 527, OTR 529, and OTR 530. Co-requisites: OTR 535, OTR 537, OTR 539, OTR 541, OTR 543, OTR 547, and OTR 552. Fieldwork offers on-site clinical experiences with populations commonly served in OT practice settings with infants and toddlers. Clinical experiences support co-requisite coursework and will rely on first semester course materials. Offered Fall

**OTR 552. Professional Development Seminar - Portfolio III: Qualitative Research Project. (1 Units)**

Prerequisites: OTR 515, OTR 517, OTR 519, OTR 521, OTR 523, OTR 525, OTR 527, OTR 529, and 530 are required. Co-requisites: OTR 535, OTR 537, OTR 539, OTR 541, OTR 543, OTR 547, and OTR 550 are required. Independent and self-reflective learning fundamental to competent practice. Students mentored in completion of portfolio process including the development and approval of the learning contract, the role of a proposal in guiding activities, and selection of activities for the portfolio. Offered Fall

**OTR 553. Professional Development Seminar - Portfolio IV: Evidence-Based Practice in Occupational Therapy. (1 Units)**

Prerequisites: OTR 535, OTR 537, OTR 539, OTR 541, OTR 543, OTR 547, OTR 550, and OTR 552 are required. Co-requisites: OTR 545, OTR 555, OTR 557, OTR 559, OTR 561, OTR 563 and OTR 571 are required. Portfolio IV links student interests with coursework and the understanding of the concept of Evidence-Based Rehabilitation as applied to occupational therapy practice. Simultaneously, the student is mentored through planned learning activities and the development of an evidence-based research paper. Offered Spring

**OTR 554. Professional Development Seminar - Portfolio V: Quantitative Research Project. (1 Units)**

Prerequisites: OTR 553, OTR 545, OTR 555, OTR 557, OTR 559, OTR 561, OTR 563, and OTR 571 are required; Co-requisites: OTR 567, OTR 569, OTR 575, OTR 577, OTR 579, OTR 581, OTR 583 and OTR 591 are required. Portfolio V involves completion of a quantitative research project as part of the professional development portfolio. The course also provides an opportunity to present written and oral summary of completed portfolio activities and research papers to faculty and students. Offered Summer

**OTR 555. Occupation Across the Lifespan III - Adult. (3 Units)**

Prerequisites: OTR 535, OTR 537, OTR 539, OTR 541, OTR 543, OTR 547, OTR 550, and OTR 552. Co-requisites: OTR 545, OTR 553, OTR 557, OTR 559, OTR 561, OTR 563 and OTR 571. Provides the theoretical foundations and frames of reference to understand adult populations and their families occupations. Explores the impact of contexts, family, and other factors that promote or limit engagement in occupations and co-occupations of adult populations. Offered Spring

**OTR 557. Assessments in Occupational Therapy Practice: Adult. (2 Units)**

Prerequisites: OTR 535, OTR 537, OTR 539, OTR 541, OTR 543, OTR 547, OTR 550, and OTR 552 or OTD student group. Co-requisites: OTR 545, OTR 553, OTR 555, OTR 559, OTR 561, OTR 563 and OTR 571. Development of skills of assessment and evaluation of occupational performance in the context of current frames of reference, and the exploration of the impact that physical and psychosocial dysfunction can have on performance roles, tasks, and activities of adulthood. Offered Spring

**OTR 559. Interventions in Occupational Therapy Practice: Adult. (2 Units)**

Prerequisites: OTR 535, OTR 537, OTR 539, OTR 541, OTR 543, OTR 547, OTR 550, and OTR 552 or OTD student group. Co-requisites: OTR 545, OTR 553, OTR 555, OTR 557, OTR 561, OTR 563 and OTR 571. Focuses on OT clinical interventions with the adult population. Students will develop clinical reasoning and skill in treatment planning, implementation, reviewing progress, discharge planning and documentation. Offered Spring

**OTR 561. Conditions Affecting Health III - Adults. (2 Units)**

Prerequisites: OTR 535, OTR 537, OTR 539, OTR 541, OTR 543, OTR 547, OTR 550, and OTR 552. Co-requisites: OTR 545, OTR 553, OTR 555, OTR 557, OTR 559, OTR 563 and OTR 571. A professional course that focuses on common occupational performance dysfunctions secondary to medical, biophysical, and psychosocial conditions in adults 18-55 years old. Offered Spring

**OTR 563. Case Seminar III Adult. (1 Units)**

Prerequisites: OTR 535, OTR 537, OTR 539, OTR 541, OTR 543, OTR 547, OTR 550, and OTR 552. Co-requisites: OTR 545, OTR 553, OTR 555, OTR 557, OTR 559, OTR 561 and OTR 571. Seminar format to provide opportunities for students to hear first-hand the life stories of adults living with disabilities acquired through illness, disability or trauma. Offered Spring

**OTR 567. Administration & Management in Occupational Therapy. (2 Units)**

Prerequisites: OTR 545, OTR 553, OTR 555, OTR 557, OTR 559, OTR 561, OTR 563 and OTR 571. Co-requisites: OTR 554, OTR 569 OTR 575, OTR 577, OTR 579, OTR 581, OTR 583, OTR 591. Presentation and discussion of current concepts and trends in the administration and management in occupational therapy practice. Challenges students to explore the various facets of occupational therapy management in a constantly changing health care environment. Offered Summer

**OTR 569. Adaptive & Assistive Tech. (2 Units)**

Prerequisites: OTR 545, OTR 553, OTR 555, OTR 557, OTR 559, OTR 561, OTR 563 and OTR 571. Co-requisites: OTR 554, OTR 567, OTR 575, OTR 577, OTR 579, OTR 581, OTR 583, OTR 591. RESNA technology competencies for occupational therapists, state and federal laws effecting availability or acquisition of assistive technology, assessments used in evaluation for technology prescription, seating and wheelchair measurements, computer input devices, augmentative communication, environmental controls, use of universal design. Offered Summer

**OTR 571. Level I Fieldwork - Adults. (1 Units)**

Prerequisites: OTR 535, OTR 537, OTR 539, OTR 541, OTR 543, OTR 547, OTR 550, and OTR 552. Co-requisites: OTR 545, OTR 553, OTR 555, OTR 557, OTR 559, OTR 561 and OTR 563. Offers on-site clinical experiences with populations commonly served in OT practice settings with adult clients. Clinical experiences support co-requisite coursework and will rely on first semester course materials. Offered Spring

**OTR 575. Occupation Across the Lifespan IV - Geriatrics. (3 Units)**

Prerequisites: OTR 545, OTR 553, OTR 555, OTR 557, OTR 559, OTR 561, OTR 563 and OTR 571. Co-requisites: OTR 554, OTR 567, OTR 569, OTR 577, OTR 579, OTR 581, OTR 583, and OTR 591. Focused on theoretical foundations of occupational therapy used in working with the geriatric population. Explores the value and meaning of occupation to the health and well being of elderly and frail elderly adults within cultural and temporal contexts.

Offered Summer

**OTR 577. Assessments in Occupational Therapy Practice: Geriatrics. (1 Units)**

Prerequisites: OTR 545, OTR 553, OTR 555, OTR 557, OTR 559, OTR 561, OTR 563 and OTR 571 or OTD student group. Co-requisites: OTR 554, OTR 567, 569, OTR 575, OTR 579, OTR 581, OTR 583, and OTR 591. Focuses on OT clinical evaluation with the geriatric population. Students will develop clinical reasoning and skill to select and administer standardized and non-standardized interview, observational, self-report and assessment tools in the processes of referral, screening, evaluation and documentation.

Offered Summer

**OTR 579. Interventions in Occupational Therapy Practice: Geriatrics. (2 Units)**

Prerequisites: OTR 545, OTR 553, OTR 555, OTR 557, OTR 559, OTR 561, OTR 563 and OTR 571 or OTD Student Group. Co-requisites: OTR 554, OTR 567, OTR 569, OTR 575, OTR 577, OTR 581, OTR 583, and OTR 591. Focuses on OT clinical interventions with the geriatric population. Students will develop clinical reasoning and skill in treatment planning, implementation, reviewing progress, discharge planning and documentation.

Offered Summer

**OTR 581. Conditions Affecting Health IV - Geriatrics. (2 Units)**

Prerequisites: OTR 545, OTR 553, OTR 555, OTR 557, OTR 559, OTR 561, OTR 563 and OTR 571. Co-requisites: OTR 554, OTR 567, OTR 569, OTR 575, OTR 577, OTR 579, OTR 583, and OTR 591. A professional course focused on common occupational performance dysfunctions secondary to medical, biophysical, and psychosocial conditions in the elderly and frail elderly adult (older than 55 and 85 years respectively).

Offered Summer

**OTR 583. Case Seminar IV Geriatrics. (1 Units)**

Prerequisites: OTR 545, OTR 553, OTR 555, OTR 557, OTR 559, OTR 561, OTR 563 and OTR 571. Co-requisites: OTR 554, OTR 567, OTR 569, OTR 575, OTR 577, OTR 579, OTR 583, and OTR 591. Life narratives of elders and frail elders and their family members will be facilitated to engage in discussions on issues relative to their personal life situations, occupational history and profile.

Offered Summer

**OTR 591. Level I Fieldwork - Geriatrics. (1 Units)**

Prerequisites: OTR 545, OTR 553, OTR 555, OTR 557, OTR 559, OTR 561, OTR 563 and OTR 571. Co-requisites: OTR 554, OTR 567, OTR 569, OTR 575, OTR 577, OTR 579, OTR 583, and OTR 591. Fieldwork offers on-site clinical experiences with populations commonly served in OT practice settings with elderly clients. Clinical experiences support co-requisite coursework and will rely on first semester course materials.

Offered Summer

**OTR 592. Fieldwork II A. (9 Units)**

Prerequisites: OTR 554, OTR 567, OTR 569, OTR 575, OTR 577, OTR 579, OTR 581, OTR 583, OTR 591. Completion of 12 weeks or approximately 480 hours of supervised Fieldwork Level II practicum in a community or clinical setting. Documentation of client evaluations, progress notes, and reports as well as provision of resources and delivery of OT services will be explored. CR/NC grading.

Offered Fall, Spring, Summer

**OTR 593. Fieldwork II B. (9 Units)**

Prerequisite: OTR 592. Completion of 12 weeks or approximately 480 hours of supervised Fieldwork Level II practicum in a community or clinical setting. Documentation of client evaluations, progress notes, and reports as well as provision of resources and delivery of OT services will be explored. CR/NC grading.

Offered Fall, Spring, Summer

**OTR 595. Advanced Special Topics in Occupational Therapy. (1-3 Units)**

Prerequisites: Consent of instructor and possible course prerequisites depending on topic. Advanced course of special interest in Occupational Therapy. Topic and content will vary as announced. Repeatable course.

Offered As needed

**OTR 596. Graduate Internship. (1-4 Units)**

Prerequisite: Completion of one International FW I rotation in MSOT; membership in ICOT; department chair approval. Supervised internship, in the occupational therapy, with a participating agency or company involved in international service-learning fieldwork experience. CR/NC grade.

Offered Fall, Spring, Summer

**OTR 599. Graduate Capstone. (2 Units)**

Prerequisite; completion of at least the first three semesters of the 7 semester MSOT program. Supervised thesis, special project, or comprehensive examination in occupational therapy. Repeatable course.

Offered Fall, Spring, Summer

**OTR 600. Graduate Continuation Course. (1 Units)**

Graduate students in MSOT who have other requirements remaining for the completion of their degree or who have completed their course work but not their fieldwork and/or comprehensive exam may maintain continuous attendance by enrolling in this course. Signature of MSOT program director required.

Offered Fall, Spring, Summer

**OTR 701. The Historical Analysis of Occupational Therapy Profession. (2 Units)**

Analysis of OT history, sociopolitical climate and its importance in meeting society's current and future needs. Introduction to OT practice philosophical base, terminologies, scope of practice, professional roles and associations, certification/licensure, regulation, and accreditation as a baseline for professional development. Admission to Occupational Therapy Doctorate required.

Offered Summer

**OTR 713. OT Frameworks and Models of Practice. (2 Units)**

Corequisites: OTR 512, OTR 701, OTR 714, OTR 715, and OTR 719 are required. Introduction to the OT Practice Framework and fundamental concepts of OT practice. Analysis of the development and application of theories, models of practice, and frames of reference in achieving desired intervention outcomes in a variety of practice contexts and environments.

Offered Summer

**OTR 714. Introduction to Population Health. (2 Units)**

Corequisites: OTR 512, OTR 701, OTR 713, OTR 715 and OTR 719 are required. Introduction to the social determinants of health as well as health promotion and disease prevention at the community and global levels. Explores impact of sociocultural, socioeconomic, political, demographic, diversity factors, lifestyle choices, and epidemiological factors to public health and welfare of populations. Restricted to majors. Offered Summer

**OTR 715. OTD Research Portfolio 1 Introduction to Research Portfolio: Literature Review. (1 Units)**

Corequisites: OTR 512, OTR 701, OTR 713, OTR 714, and OTR 719 are required. Introduction to an individual e-portfolio focused on the completion of high quality research projects that contribute to occupational therapy practice. As the first of five courses, the focus is to review literature as a foundation to developing research questions and research proposals in succeeding courses. Offered Summer

**OTR 719. Therapeutic Activities and Group Dynamics Across the Lifespan. (3 Units)**

Corequisites: OTR 512, OTR 701, OTR 713, OTR 714, and OTR 715 are required. Introduction to how activities, as meaningful occupations, are used as interventions in OT practice. Identify, analyze, and adapt activities using various media in both individual and group therapeutic experiences. Discuss the historical and theoretical underpinnings of arts & crafts as a treatment. Offered Summer

**OTR 722. Clinical Fieldwork I in a Pediatric Setting. (1 Units)**

Prerequisites: OTR 512, OTR 701, OTR 713, OTR 714, OTR 715, and OTR 719 are required. Co-requisites: OTR 527, OTR 725, OTR 780, OTR 537, OTR 539, OTR 723, and OTR 724 are required. On-site and/or simulated clinical experience with infants and/or children. Parallels with didactic course content to bridge classroom learning with clinical practice through observations of the OT process, such as screening, evaluation, intervention, re-evaluation, discharge planning and application of OT theories. Restricted to majors Offered Fall

**OTR 723. Clinical Reasoning in Occupational Therapy: Pediatric Conditions and Case Analysis. (3 Units)**

Prerequisites: OTR 713, OTR 714, OTR 715, OTR 719 and OTR 701 are required. Co-requisites: OTR 527, OTR 725, OTR 780, OTR 537, OTR 538, OTR 722, AND OTR 724 are required. Case analysis using simulated and first-hand narratives of children and their families. Examine effects of various developmental, physical and/or psychosocial conditions commonly seen in pediatric populations and employ clinical reasoning skills in identifying and addressing OT needs within varying service delivery models. Restricted to majors. Offered Fall

**OTR 724. Person, Environment, Occupation and Health Promotion in Pediatric Populations. (2 Units)**

Prerequisites: OTR 512, OTR 713, OTR 714, OTR 715, OTR 719, and OTR 701 are required. Co-requisites: OTR 527, OTR 725, OTR 780, OTR 537, OTR 530, OTR 722, and OTR 723 are required. Explore the values and meanings of occupations, within varying environmental contexts to the health and wellness of infants, toddlers and children. Review service delivery models, policy issues, social systems, related to both traditional and emerging areas of practice for the pediatric population. Offered Fall

**OTR 725. OTR Research Portfolio 2 - Methodologies in Quantitative Research. (3 Units)**

Prerequisites: OTR 512, OTR 713, OTR 714, OTR 715, OTR 719 and OTR . Co-requisites: OTR 572, OTR 780, OTR 537, OTR 539, OTR 722, OTR 723, and OTR 724 are required. Comparison of quantitative research methodologies. Students will select appropriate methods and design a scholarly proposal aligned with the ethical policies and procedures necessary to conduct human-subject research. Restricted to majors. Offered Fall

**OTR 732. Clinical Fieldwork I in an Adult Setting. (1 Units)**

Prerequisites: OTR 527, OTR 725, OTR 780, OTR 537, OTR 539, OTR 722, OTR 723, and OTR 724 are required. Co-requisites: OTR 547, OTR 735, OTR 781, OTR 557, OTR 559, OTR 733, and OTR 734 are required. On-site and/or simulated clinical experience with adolescents. Parallels with didactic course content to bridge classroom learning with clinical practice through observations of the OT process such as screening, evaluation, intervention, re-evaluation, discharge planning and application of OT theories. Offered Spring

**OTR 733. Clinical Reasoning in Occupational Therapy: Adult Conditions & Case Analyses. (3 Units)**

Prerequisites: OTR 527, OTR 725, OTR 780, OTR 537, OTR 539, OTR 722, OTR 723, and OTR 724 are required. Corequisites: OTR 547, OTR 547, OTR 781, OTR 557, OTR 559, OTR 732, and OTR 734 are required. Case analyses using simulated and first-hand personal narratives of adults and/or family members. Examine effects of various physical and/or psychosocial conditions commonly seen in adult populations and employ clinical reasoning skills in identifying and addressing OT needs within varying service delivery models. Restricted to majors. Offered Spring

**OTR 734. Person, Environment, Occupation, and Health Promotion in Adult Populations. (2 Units)**

Prerequisites: OTR 527, OTR 725, OTR 780, OTR 537, OTR 539, OTR 722, OTR 723, and OTR 724 are required. Corequisites: OTR 547, OTR 736, OTR 781, OTR 557, OTR 559, OTR 732, and OTR 733 are required. Explore the values and meanings of occupations within varying environmental contexts to the health and wellness of adults. Review service delivery models, policy issues, social systems, related to both traditional and emerging areas of practice for the adult population. Restricted to majors. Offered Spring

**OTR 735. OTD Research Portfolio 3 - Quantitative Research Project. (2 Units)**

Prerequisites: OTR 527, OTR 725, OTR 780, OTR 537, OTR 539, OTR 722, OTR 723, and OTR 724 are required. Corequisites: OTR 547, OTR 781, OTR 557, OTR 559, OTR 732, OTR 733, and OTR 734 are required. Completion of a scholarly quantitative research report that supports clinical practice. Students are encouraged to submit for professional or public audience presentation or publication. Restricted to majors. Offered Spring

**OTR 742. Clinical Fieldwork I in and Adolescent Setting. (1 Units)**

Prerequisites: OTR 547, OTR 735, OTR 781, OTR 557, OTR 559, OTR 732, OTR 733 and OTR 734 are required. Corequisites: OTR 745, OTR 782, OTR 790, OTR 517, OTR 519, OTR 743, and OTR 744 are required. On-site and/or simulated clinical experience with adolescents. Parallels with didactic course content to bridge classroom learning with clinical practice through observations of the OT process such as screening, evaluation, intervention, re-evaluation, discharge planning and application of OT theories. Restricted to majors. Offered Summer

**OTR 743. Clinical Reasoning in Occupational Therapy: Adolescent Conditions and Case Analyses. (3 Units)**

Prerequisites: OTR 547, OTR 735, OTR 781, OTR 557, OTR 559, OTR 732, OTR 733 and OTR 734 are required. Corequisites: OTR 745, OTR 782, OTR 790, OTR 517, OTR 519, OTR 742, and OTR 744 are required.

Case analyses using simulated and first-hand personal narratives of adolescents and/or family members. Examine effects of various developmental, physical and/or psychosocial conditions commonly seen in adolescent populations and employ clinical reasoning skills in identifying and addressing OT needs within varying service delivery models. Restricted to majors.

Offered Summer

**OTR 744. Person, Environment, Occupation and Health Promotion in Adolescent Populations. (2 Units)**

Prerequisites: OTR 547, OTR 735, OTR 781, OTR 557, OTR 599, OTR 732, OTR 733 and OTR 734 are required. Corequisites: OTR 745, OTR 782, OTR 790, OTR 517, OTR 519, OTR 742, and OTR 742 are required. Explore the values and meanings of occupations within varying environmental contexts to the health and wellness of adolescents. Review service delivery models, policy issues, social systems, related to both traditional and emerging areas of practice for the adolescent population. Restricted to majors.

Offered Summer

**OTR 745. OTD Research Portfolio 4 - Methodologies in Qualitative Research. (2 Units)**

Prerequisites: OTR 547, OTR 781, OTR 557, OTR 559, OTR 732, OTR 733 and OTR 734 are required. Corequisites: OTR 781, OTR 790, OTR 517, OTR 519, OTR 742, OTR 743 and OTR 744 are required. Comparison of qualitative research methodologies. Students will select appropriated methods and design a scholarly proposal aligned with the ethical policies and procedures necessary to conduct human-subject research. Restricted to majors.

Offered Summer

**OTR 752. Clinical Fieldwork I in a Geriatric Setting. (1 Units)**

Prerequisite(s): OTR 745, OTR 782, OTR 790, OTR 517, OTR 519, OTR 742, OTR 743, and OTR 744 are required. On-site and/or simulated clinical experience with older adult clients. Parallels with didactic course content to bridge classroom learning with clinical practice through observations of the OT process such as screening, evaluation, intervention, re-evaluation, discharge planning and application of OT theories. CR/NC grading.

**OTR 753. Clinical Reasoning in Occupational Therapy: Geriatric Conditions & Case Analyses. (3 Units)**

Case analyses using simulated and first-hand personal narratives of older adults, family members or caregivers. Examines effects of various physical and/or psychosocial conditions commonly seen in geriatric populations and employ clinical reasoning skills in identifying and addressing OT needs within varying delivery models.

Offered Fall

**OTR 754. Person, Environment, Occupation, and Health Promotion in Geriatric Populations. (2 Units)**

Explore the values and meanings of occupations within varying environmental contexts to the health and wellness of older adults. Review service delivery models, policy issues, and social systems, related to both traditional and emerging areas of practice for the geriatric population.

Offered Fall

**OTR 755. OTD Research Portfolio 5: Qualitative Research Project. (2 Units)**

Completion of a scholarly qualitative or mixed methods research report that supports clinical practice. Submission for professional or public audience presentation or for publication in a peer-reviewed journal is required.

Offered Fall

**OTR 780. OT Professional Development Seminar: OT Code of Ethics. (1 Units)**

Prerequisites: OTR 512, OTR 713, OTR 714, OTR 715, OTR 719, and OTR 701 are required. Corequisites: OTR 527, OTR 725, OTR 537, OTR 539, OTR 722, OTR 723, and OTR 724 are required. Principles and constructs of the American Occupational Therapy Association (AOTA) Occupational Therapy Code of Ethics and AOTA Standards of Practice. Analysis of ethical dilemmas and case study scenarios of clinical situations, decision-making, professional interactions, client interventions, employment settings, and personal and organizational ethical conflicts. Restricted to majors.

Offered Fall

**OTR 781. OT Professional Development Seminar: The Reflective Occupational Therapist. (1 Units)**

Prerequisites: OTR 527, OTR 725, OTR 780, OTR 537, OTR 539, OTR 722, and OTR 724 are required. Corequisites: OTR 547, OTR 735, OTR 557, OTR 559, OTR 732, OTR 733, and OTR 734 are required. Apply the concept of therapeutic use of self in the OT process with self-reflection on ones personality, insights, perceptions, and judgements. Explore skills and knowledge needed to promote inclusiveness, diversity, justice, equity, sensitivity and responsiveness to societal and cultural differences in practice. Restricted to majors.

Offered Spring

**OTR 782. OT Professional Development Seminar: Effective Communication and Team Dynamics. (1 Units)**

Prerequisites: OTR 547, OTR 735, OTR 781, OTR 557, OTR 559, OTR 732 and OTR 733, and OTR 734 are required. Corequisites: OTR 745, OTR 790, OTR 517, OTR 519, OTR 742, OTR 743, and OTR 744 are required. Introduction to the principles of interprofessional team dynamics, effective communication, and effective intraprofessional collaboration. Restricted to majors.

Offered Summer

**OTR 783. OT Professional Development Seminar - Program Development & Funding of OT Services. (1 Units)**

Overview of important aspects and processes in developing programs that address occupational therapy needs, including funding sources, such as reimbursement systems and documentation as well as locating and securing grants.

Offered Fall

**OTR 784. OT Professional Development Seminar: Administration and Management. (1 Units)**

Administration and management concepts and trends that influence service delivery to patients, families, student, and others in community and clinical settings, including supervision of personnel, quality improvement methods, and oversight of credentialing and licensure requirements consistent with federal and state laws.

Offered Fall

**OTR 785. OT Professional Development Seminar - Adaptive and Assistive Technology and Devices. (1 Units)**

Assessment, selection, fabrication, application, fitting and training of adaptive and assistive technology and devices that enhance occupational performance and foster participation and well-being of persons experiencing limitations due to personal or environmental barriers. Discuss state and federal laws affecting its availability or acquisition.

Offered Fall

**OTR 786. OT Professional Development Seminar - Group Interventions. (1 Units)**

Historical, theoretical underpinnings and application of group work to populations spanning the lifespan. Focus on group dynamics and understanding human behavior in a variety of contexts to develop appropriate selection, planning, facilitation of group interventions.

Offered Fall

**OTR 787. OT Professional Development Seminar-Ergonomics. (1 Units)**

Specialized area of ergonomic evaluation and interventions for daily activities at home and in work environments, including body mechanics, work/rest cycles, application of traditional and alternative work environments, application and use of commercially available ergonomic equipment, and development of novel ergonomic applications.

**OTR 788. OT Professional Development seminar- Leadership and Advocacy. (1 Units)**

Discussion of personal and professional responsibilities as occupational therapist, including ongoing professional development as well as engagement in advocacy, systems and structures that create legislation, and work in an academic setting.

**OTR 789. OT Professional Development Seminar: Business Aspects of Practice. (1 Units)**

Business aspects of occupational therapy practice, which include the development of business plans, financial management, program evaluation models, and strategic planning.

**OTR 790. OTD Capstone Portfolio 1 Needs Assessment: Identifying OT Problem. (1 Units)**

Introduction to an individual e-portfolio for the OTD Degree capstone. As the first of five courses, the focus is to perform a needs assessment to identify an OT problem as a baseline for the development of a research or evidence-based capstone project in succeeding courses.

Offered Summer

**OTR 791. OTD Capstone Portfolio 2 - Evidence-based Practice: Reviewing Best Intervention. (1 Units)**

Evidence-based rehabilitation as applied to occupational therapy practice. The student is mentored through the development of an evidence-based program proposal for a potential capstone experience placement site. A research project proposal may also be acceptable as approved by the academic advisor.

Offered Fall

**OTR 792. OTD Capstone Portfolio 3 Capstone Experience. (9 Units)**

A 14-week in-depth exposure to one or more of the following: clinical practice skills, research skills, administration, leadership program and policy development, advocacy, education, and theory development. Fulfills the capstone experience requirement of the OTD degree.

Offered Fall

**OTR 793. OTD Capstone Portfolio 4 Capstone Project 1. (3 Units)**

The first phase of the capstone project completion. The student is mentored through (1) the selection of doctoral capstone project committee, (2) development of a capstone project proposal for committee review and approval, (3) facilitation of the research or evidence-based program.

Offered Fall

**OTR 794. Independent Study. (1 Units)**

Independent study under the supervision of a faculty member. Independent study contract and consent of academic adviser required. Repeatable course.

Offered Fall, Spring, Summer

**OTR 795. Special Topics. (1-3 Units)**

Advanced course of special interest in occupational therapy. Topic and content will vary as announced. Consent of instructor and the academic adviser required with possible course prerequisites depending on topic. Repeatable course.

Offered Fall, Spring, Summer

**OTR 796. Practicum: Supervised Internship. (1-3 Units)**

Supervised practicum experience in an area of interest, with a participating agency or company. The practicum internship will be chosen in consultation with the OTD program coordinator and academic adviser. Repeatable course.

Offered Fall, Spring, Summer

**OTR 797. OTD Capstone Portfolio 5 Capstone Project 2. (3 Units)**

Completion of the capstone project, which includes both a written report and an oral presentation. Capstone committee approval required.

Offered Spring

**OTR 798. Directed Research. (1-3 Units)**

Independent research under direction of supervising faculty member in occupational therapy. Consent of the OTD program coordinator in consultation with the academic adviser required. Repeatable course. Repeatable for credit. CR/NC grading.

**OTR 799. Capstone. (1-3 Units)**

Thesis or project advisement. Advancement to candidacy and consent of the department chair in consultation with the OTD program coordinator and academic adviser required.

Offered Fall, Spring, Summer

## Operations Management (OMG)

**OMG 220. Introduction to Transportation Management. (3 Units)**

Introduction to the alternative modes, systems, rates, services, and regulations in global transport including ocean, air, and surface carriers and systems.

Offered Fall

**OMG 221. Introduction to Business Statistics. (3 Units)**

An introductory course covering fundamentals of modern statistical methods. Topics include descriptive statistics, probability rules and laws, the binomial and normal distributions, sampling and sampling distributions, estimation, and hypothesis testing.

Offered Fall, Spring

**OMG 225. Introduction to Logistics Management. (3 Units)**

Introductions to logistics concepts and systems, including Inventory and Warehouse Management, Logistics Information Systems, Facility Location, and Global Logistics.

Offered Infrequent

**OMG 230. Introduction to Supply Chain Management. (3 Units)**

This course is an overview of the entire supply chain and its key elements. It covers basic concepts and terminology used in demand planning, inventory planning, material planning, distribution planning, fulfillment planning, and related components of a supply chain. Offered Fall, Spring

**OMG 321. Business Statistics. (3 Units)**

Prerequisites: MAT 131, MAT 132 or OMG 221 is required. Topics include inferential statistics, analysis of variance, multiple regression, time series forecasting and their application in business decision making process. Excel and/or a statistical software will be used throughout the course. Offered Fall, Spring, Summer

**OMG 322. Operations Management. (3 Units)**

Prerequisite: OMG 321. Analysis of the management function in the production area with emphasis on computer applications and practical problem-solving. Includes international developments. Offered Fall, Spring, Summer

**OMG 420. Global Transportation MGT. (3 Units)**

Prerequisites: OMG 220 and OMG 321 are required. This course provides advanced study of alternative modes, systems, rates, and regulations in global transport including ocean, air, and surface carriers. It also includes analysis of problems concerning the distribution of consumer products, including environmental, social, and political issues. Offered Infrequent

**OMG 423. Quantitative Analysis. (3 Units)**

Prerequisite: CJA 341, OMG 321 or PUB 305 is required. Use of deterministic, probabilistic methods to model and solve different types of decision problems. Offered Infrequent

**OMG 425. Logistics Management. (3 Units)**

Prerequisites: OMG 225 and OMG 321 are required. This course covers advanced topics in managing of logistics systems including inventory control, distribution network analysis, facility location analysis, and storage of material and the warehousing finished goods. Offered Fall, Spring

**OMG 426. Production Planning & Control. (3 Units)**

Prerequisite: OMG 322. Techniques and systems for planning, scheduling, and controlling production. Offered Infrequent

**OMG 427. Business Process Improvement. (3 Units)**

Prerequisite: OMG 321. Basic elements of business Process Improvement are presented. Process Improvement related to wide areas of business activities are discussed. This includes not only the process improvement of manufactured products, but also various kinds of service activities such as quality management of finance, accounting and marketing departments of manufacturing companies as well as hospitals, airlines, trucking companies, governments, schools, accounting and law firms. Offered Fall

**OMG 428. Purchasing Management. (3 Units)**

Prerequisite: OMG 322. Examines activities directed to securing the materials, supplies, equipment and services required for the proper and efficient functioning of a business, including related planning and policy issues. Offered Fall, Spring

**OMG 429. Service Operations MGT. (3 Units)**

The course emphasis is on the design and operations of service delivery firms as well as service delivery functions within manufacturing firms. It includes topics such as strategic planning and design techniques, principles of delivering quality service, managing capacity and demand, managing information, techniques for improving quality of service operations processes and customer services, and the human dimension in service management. Offered Spring

**OMG 430. Enterprise Resource Planning and Supply Chain Management Cases. (3 Units)**

Prerequisite: OMG 322 is required. Dedicated to introducing key concepts of supply chain management (SCM) and real-world SCM cases, helping students interpret the happenings in the world from a supply chain's perspective. This course will provide students with hands-on experience with the SAP ERP solution in use by major corporations to manage and improve the efficiency of their supply chains. Offered Fall, Spring

**OMG 502. adv Topics : Operations MGT. (3 Units)**

Prerequisite: OMG 321 or equivalent. Management of operations process including production and service aspects. Topics include capacity and location planning, scheduling, facility layout, project and inventory management quality improvement. Behavioral, multinational ethical issues will be considered. Case analysis, oral/written presentation and computer usage required. Offered Infrequent

**OMG 510. Logistics Applications. (3 Units)**

This course introduces students to various logistics application areas. Key areas to be covered include: warehouse management; pipeline management; inventory management; distribution; scheduling; freight consolidation and forwarding; international aspects of logistics; ocean/land carrier logistics; fleet operations; site location; and tariffs. Offered Infrequent

**OMG 520. Logistics Case Studies. (3 Units)**

This course will expose students to transportation and logistics case studies in logistics such as United Parcel Service, Dell, Ford, Cathay Pacific, Royal Caribbean Cruises, etc. Students will be exposed to logistics problems faced by major companies and how they were solved. Offered Infrequent

**OMG 570. Supply Chain Design and Strategy. (3 Units)**

Prerequisite: BUS 495 or Statistics is recommended. Covers principals and fundamental concepts in supply chain management. Introduces several quantitative methods to design an efficient supply chain. Topics include: demand forecasting, inventory management, supply chain network design, coordination, logistics and sourcing. Offered Infrequent

**OMG 575. Supply Chain Management Systems. (3 Units)**

Prerequisite: OMG 570 is required; CIS 530 is recommended. Apply information systems to support supply chain, focusing on delivering performance consistent with a firm's competitive strategy. Topics include: study of existing SCM information systems, demand-driven networks, CRM, collaboration, supplier relationship management, logistics and integration of SCM systems to company's ERP system. Offered Infrequent

**OMG 580. Global Logistics Management. (3 Units)**

In this course, students tackle real life Logistics management projects. Emphases are on applying theoretical frameworks to align enterprise Logistics and business strategies, and on integrating and applying knowledge and skills that they have acquired from the previous course work.

Offered Infrequent

**OMG 595. S Topics: Quantative Methods. (3 Units)**

Prerequisites: Graduate standing and OMG 502. Intensive study of a specialized area of quantitative methods on a selected topic of particular interest to faculty and students. Three hours of seminar per week. Specific topic listed in class schedule. Repeatable course.

Offered Infrequent

## Organizational Leadership Studies (OLS)

**OLS 300. Ethos Libl Arts & Role of Work. (3 Units)**

Examines the relationship between liberal arts and sciences education and the competencies required to function effectively in social and occupational settings. Readings and assignments emphasize integration and application of skills, knowledge, perspectives, and values acquired through liberal arts and sciences.

Offered Fall, Spring

**OLS 490. Sem in Occupational Leadership. (3 Units)**

Prerequisites: OLS 300, satisfaction of GVAR and Senior Standing. Required of all applied studies majors. Interdisciplinary analysis of leadership in selected occupational areas. Creation and presentation of student portfolios demonstrating occupational accomplishment. Three hours of seminar per week.

Offered Fall, Spring

**OLS 494. independent Study in Organizational Leadership Studies. (3 Units)**

Prerequisite: Consent of the program director. Independent research or other study under the direction of a full-time faculty member of the Applied Studies Program. CR/NC grading.

Offered As needed

**OLS 495. special Topics in Organizational Leadership Studies. (3 Units)**

Prerequisite: Consent of the program director. Advanced seminar on a topic of current interest to the discipline of Organizational Leadership Studies. Three hours of seminar per week. Repeatable Course.

Offered Infrequent

**OLS 496. Internship in Organizational Leadership Studies. (3 Units)**

Prerequisite: Consent of Program Director. Under direction of the Internship Coordinator, students work in an organization applying skills and knowledge learned in the classroom. CR/NC grading. Repeatable course.

Offered Infrequent

## Philosophy (PHI)

**PHI 101. Moral Problems. (3 Units)**

The role of morals as motivations and goals in our lives. General knowledge of what values are and how they influence us on individual and societal levels. Students will construct solutions to moral problems, for example, problems of justice.

Offered Fall, Spring, All terms

**PHI 102. Humanity, Nature & God. (3 Units)**

Critical examination of perennial philosophical issues such as the nature of philosophy, the existence of God, free will, truth. Both Western and non-Western perspectives are discussed. Gives student general understanding of his/her societal context. Essays as well as exams.

Offered Fall, Spring

**PHI 120. Critical Reasoning. (3 Units)**

Introduction to methods of critical thinking including the nature of arguments, formal and informal fallacies, deductive and inductive arguments. Provides student with critical skills in both academic and non-academic context. A-C-/NC grading.

Offered Fall, Spring, Summer, All terms

**PHI 201. The Good Life. (3 Units)**

Prerequisite: ENG 110 is recommended. Explores philosophical approaches to the art of living. Readings will focus on ancient Greek and Roman philosophy as a way of life, along with a selection of religious and non-Western philosophies of the good life.

Offered Spring

**PHI 202. The Devil You Don't Know. (3 Units)**

Prerequisite: ENG 110 is recommended. The development of the idea of the Devil and related ideas such as sin, evil, temptation, and the nature of the human. Investigates the Devil in scripture, philosophy, literature, and film. Includes Jewish, Christian and Muslim sources.

Offered Fall, Spring

**PHI 218. Phil Of Love & Sexuality. (2.7 Units)**

Offered Infrequent

**PHI 220. Symbolic Logic. (3 Units)**

Introduction to symbolic logic and its relation to everyday language. Students study deductive and inductive reasoning, the logical content and consistency of statements, truth-functional operations, analysis of arguments for validity and invalidity, logical fallacies, and elementary quantification theory.

Offered Spring

**PHI 300. Proseminar. (3 Units)**

Prerequisite: 6 units in LD Philosophy or department consent. An introduction to philosophical methods, research and dialogue in order to improve students' skills at writing and analysis. Topics to be covered will address some central area or areas of philosophy and will vary from year to year.

Offered Fall, Spring

**PHI 301. Ancient Greek and Roman Philosophy. (3 Units)**

A critical study of the foundations of Western civilization as found in ancient Greek and Roman thought.

Offered Fall

**PHI 302. Medieval Philosophies: Jewish, Christian and Muslim. (3 Units)**

Offered Spring even

**PHI 303. Modern Philosophy: Descartes To Kant. (3 Units)**

Western thought as manifest through the evolution of the philosophical systems of Rationalism, Empiricism and Critical Philosophy.

Offered Spring

**PHI 304. 19th Century Philosophy: Hegel To Nietzsche. (3 Units)**

A study of nineteenth century European philosophy focusing on thinkers such as Hegel, Kierkegaard, Marx and Nietzsche.

Offered Fall

**PHI 305. Contemporary Philosophy. (3 Units)**

Study of contemporary American and European philosophical concepts, movements, or key figures. Specific topic indicated in class schedule.

Repeatable for credit.

Offered Spring odd

**PHI 308. Existentialism. (3 Units)**

Prerequisites: PHI 101 or PHI 102 is recommended. Examines key existential philosophers, such as Kierkegaard, Nietzsche, Heidegger, Marcel, Sartre, de Beauvoir, and Camus. Also explored are existentialist themes in the history of philosophy, literature, poetry, and film such as Dostoyevsky, Rilke, Bergman, Kurosawa, and Woody Allen.

Offered Fall odd

**PHI 316. Ethical Theories. (3 Units)**

A critical inquiry into the groundwork of ethics by exploring such basic questions in ethics as the nature of good, the criteria for right action, the language of moral discourse, ontology and morality, and religion and ethics.

Offered Fall

**PHI 321. The Nature of Beauty: Aesthetics. (3 Units)**

A critical examination of our beliefs about the nature of beauty in the context of art, music, literature and film. Topics include artistic creativity, aesthetic experience, criticism and evaluation. Specific topic indicated in class schedule. Repeatable course.

Offered Spring even

**PHI 331. Social & Political Philosophy. (3 Units)**

Prerequisite: PHI 300 is highly recommended. Historical and contemporary theories on the scope and legitimacy of political authority: discussion of various contract theories of the state and of the relationships between rights of individuals and rights of states.

Repeatable course.

Offered Fall odd

**PHI 340. Environmental Ethics. (3 Units)**

Inquiry into philosophical theories and methods that assess how humanity should relate to Earth, how we view ourselves ecologically, whether consumption practices are logical and moral. Topics include deep ecology, Eco-feminism, anthropocentric v. non-anthropocentric Ethics, animal rights and sustainability.

Offered Spring

**PHI 350. Theories of Cognition. (3 Units)**

Prerequisite: PHI 120 or equivalent. PHI 300 is highly recommended. This course will approach the question of mind from disciplines in humanities, sciences, and social sciences. Several standpoints such as: classical philosophy, cognitive science, neurology, computer science and artificial intelligence, cognitive ethology, and evolutionary linguistics will be discussed.

Offered Infrequent

**PHI 351. Death and Dying. (3 Units)**

Introduction to psychological, medical, cultural, and ethical aspects of death and dying. A cross-cultural approach to perceptions of death and dying, how and why they have changed over time, how various authors, poets, and artists represent death and dying.

Offered Fall, Spring

**PHI 352. Myth as Reality. (3 Units)**

Explores the nature of myth, its relationship to ritual, dream, and folktale, and its manifestations in literature and the individual. Although the course will have a primary literary focus, it will draw on the disciplines of philosophy, religious studies, anthropology, and psychology.

Offered Fall, Spring

**PHI 353. Age of Revolt. (3 Units)**

Investigation of the spirit of revolt in the historical period of the Spanish Conquest; the American, French, Haitian, Russian and Algerian revolutions; Black Power and Zapatista: through history, philosophy and the arts.

Offered Fall, Spring

**PHI 365. Mind, World and Language. (3 Units)**

A critical examination of the relation between knowledge and reality, with a particular interest in the role of language. Readings include a variety of historical and contemporary perspectives, such as analytic philosophy, pragmatism, and phenomenology.

Offered Spring even

**PHI 370. Philos of Africa & Diaspora. (3 Units)**

Prerequisite: PHI 300 is highly recommended. A critical study of African and afrocentric philosophies, including Bantu, Akan, and Yoruba traditions. African American philosophers such as Alain Locke and other third world African peoples are also covered in depth. Topics include personhood, time, causality, value theory, black aesthetics, and black feminist epistemologies.

Offered Spring

**PHI 371. African World Religions. (3 Units)**

Prerequisite: PHI 300 is recommended A critical study of traditional religious experience and expression among peoples of the African continent including the Akan, Yoruba and Ibo as well as manifestations of Christianity and Islam as expressed both in Africa and in the Americas .

Offered Fall

**PHI 378. Philosophy of Religion. (3 Units)**

Prerequisite: PHI 300. A critical, comprehensive study of the nature and value of religion. Includes such issues as the relationship between Religion, Philosophy, Theology, and Science; the existence of a deity, revelation(s), faith, the problem of evil, scriptural myths, and religious experience and language.

Offered Spring

**PHI 379. Contemporary Moral Issues. (3 Units)**

Prerequisite: PHI 300 is highly recommended. Philosophical inquiry into basic moral problems relevant today such as morality versus non-morality, human responsibility, individual versus societal values, morality versus legality, ethnic identity versus social conformity, abortion versus right to life, and the euthanasia decision. Repeatable for Credit.

Offered Fall

**PHI 383. Comparative Religions. (3 Units)**

Prerequisite: PHI 300 is highly recommended. A study of the relationship of the various religious perspectives of the world, their rituals, their influence on society and their philosophical implications.

Offered Fall

**PHI 384. Philosophies of India, China and Japan. (3 Units)**

The evolution and meaning of various non- Western traditions will be discussed. Selected topics will include Hinduism, Buddhism, Zen Buddhism, Shintoism, Confucianism. Emphasis on significance in India, China and Japan . Repeatable course.

Offered Spring

**PHI 386. Analytical Methods of Biblical Study. (3 Units)**

Prerequisite: PHI 300 is highly recommended. The Bible in light of modern scholarship; principles and methods of its interpretation. Emphasis is given to the Pentateuch, the Gospels, and other key portions for their philosophical and theological views.

Offered Fall odd



**PHI 480. Religion and Violence. (3 Units)**

Prerequisite: PHI 383 is recommended. A critical examination of fundamentalist movements in various religious traditions. Explores the intrinsic relationship among four key variables: religion, secularization, fundamentalism, and the consequences of religious fundamentalization. Finally, we will ask whether fundamentalist principles legitimate new forms of religious violence.

Offered Fall odd

**PHI 490. Seminar. (3 Units)**

Prerequisite: PHI 300. A critical analysis and interpretation of a major philosophical or religious system or issue in respect to its presuppositions, task, method, problems and solutions. Repeatable course. Course is writing intensive. Three hours of seminar per week.

Offered Spring

**PHI 494. Independent Study. (1-3 Units)**

Prerequisite: PHI 300 is highly recommended. Study of a particular philosophical or religious problem, individually or as a team or group, under the direction of a faculty member. Only three units may be used for Philosophy major and minor requirements.

Offered Fall, Spring

**PHI 495. Special Topics:. (3 Units)**

Prerequisite: PHI 300 is highly recommended. An intensive study of a concept, movement or individual in Philosophy. Intended for students with senior standing and having fulfilled major requirements. Specific topic listed in class schedule. Repeatable course. Three hours of seminar per week.

Offered Infrequent

**PHI 580. Religion and Violence. (3 Units)**

Prerequisite: PHI 383 is recommended. A critical examination of fundamentalist movements in various religious traditions. Explores the intrinsic relationship among four key variables: religion, secularization, fundamentalism, and the consequences of religious fundamentalization. Finally, we will ask whether fundamentalist principles legitimate new forms of religious violence.

Offered Fall odd

**PHI 595. Special Topics:. (3 Units)**

Prerequisite: PHI 300 is highly recommended. An intensive study of a concept, movement or individual in Philosophy. Intended for students with senior or graduate standing. Specific topic listed in class schedule. Repeatable course. Three hours of seminar per week.

Offered Infrequent

## Photography (PHT)

**PHT 300. Digital Photography. (3 Units)**

Prerequisite: DGN 110 or DMA 310 or consent of instructor. Introduction to digital photography techniques as well as the general history of photography. Development of creative expression as it relates to the photographic medium. Six hours of activity per week. Fee required.

Offered Fall, Spring

**PHT 350. Photography 2. (3 Units)**

Prerequisite: Designed for students with introductory photography knowledge to further synthesize their photographic skills with creative concepts to create meaningful photographs. Course content will emphasize photography as a vital component of contemporary art, and a tool for social change.

Offered Spring

**PHT 400. Digital Photography 3. (3 Units)**

Prerequisites: Advanced level course that further addresses the photographic methodologies of generating a photographic portfolio within a concentration that investigates an idea of personal interest for each individual student.

Offered Spring

## Physics (PHY)

**PHY 100. Patterns In Nature. (3 Units)**

Unifying principles of elastic, sound, light and matter waves. Models of nature. Successes and failures of wave and particle models and their synthesis. Designed for non-science students. Partially meets the lower division General Education requirement in Natural Sciences.

Offered Fall, Spring

**PHY 110. Computer Methods in Applied Physics. (3 Units)**

Prerequisite: MAT 151 or MAT 153. Introduction to programming with physics applications. Students will gain insight into physical phenomena. They will learn to relate theory to experiment through the use of interactive physics simulations.

Offered All terms, Spring

**PHY 120. Elements Of Physics I. (4 Units)**

Prerequisite: High school or college algebra. Motion, energy, waves and heat treated from a non-calculus point of view. Three hours of lecture and three hours of laboratory per week.

Offered Fall, Spring, Summer

**PHY 122. Elements Of Physics II. (4 Units)**

Prerequisite: PHY 120 is required. Electricity, magnetism and light. Nuclear radiation. Quantum phenomena. Atomic structure. Three hours of lecture and three hours of laboratory per week.

Offered Fall, Spring

**PHY 130. General Physics I. (5 Units)**

Prerequisite: MAT 191 or concurrent enrollment. Kinematics and dynamics of particles, rigid bodies and fluids. Kinetic theory, temperature and thermodynamics. Calculus-based course. Four hours of lecture and three hours of laboratory per week.

Offered Fall, Spring

**PHY 132. General Physics II. (5 Units)**

Prerequisites: MAT 193 or concurrent enrollment, and PHY 130. Waves, light, electricity and magnetism. Four hours of lecture and three hours of laboratory per week.

Offered Fall, Spring

**PHY 134. General Physics III. (4 Units)**

Prerequisite: PHY 132 or consent of instructor. Twentieth century physics, including concepts of relativity and quantum theory and particle classification. Applications to radiation, atoms, elementary particles and nuclei. Three hours of lecture and three hours of laboratory per week.

Offered Fall, Spring

**PHY 195. Selected Topics in Physics. (1-4 Units)**

Prerequisites: Consent of instructor. The study of an area of Physics that is not normally available in other courses. Repeatable course.

Offered As needed

**PHY 201. Experimental Methods. (3 Units)**

Fabrication techniques applicable in the laboratory per week. Properties of materials. Three hours of laboratory per week.

Offered Infrequent

**PHY 207. Physics W/Clin Sci App. (4 Units)**

Prerequisites: High school algebra, CHE 110 and CHE 112. Electricity, magnetism and electromagnetic waves. Light, including the photon model. Laboratory emphasis on solid state devices and electronic instrumentation. Designed for students in the Clinical Sciences. Three hours of lecture and three hours of laboratory per week. Offered Infrequent

**PHY 210. Physical Science for Teachers. (4 Units)**

Prerequisite: Admission to the Liberal Studies major. Designed specifically for future elementary and middle school teachers. Emphasis on the fundamental concepts of physical science and their applications. Laboratory experiments use mostly low cost everyday objects. Topics include mechanics, fluids, heat, waves, electromagnetism, light, atoms, periodic table and chemical bonding. Three hours of lecture and three hours of laboratory per week. Offered Fall, Spring, Summer

**PHY 295. Selected Topics in Physics. (3 Units)**

Prerequisites: Consent of instructor. The study of an area of Physics that is not normally available in other courses. Repeatable course. Offered As needed

**PHY 302. Wrkshp Phys Sci Fr Teachr. (3 Units)**

Lecture-demonstration-laboratory covering fundamental concepts in physical science, designed especially for in-service teachers (K-12). Class emphasizes on hands-on activities using everyday objects. Two hours of lecture and three hours of laboratory per week. Not for physics majors or minors. CR/NC grading. Offered Infrequent

**PHY 306. Math Methods In Physics. (3 Units)**

Prerequisite: MAT 211. Application of the following techniques to physics: vectors, Gauss' and Stokes' theorems, series solutions of differential equations, Sturm - Liouville theory, and Fourier Series. Offered Fall, Spring

**PHY 310. Theoretical Mechanics I. (3 Units)**

Prerequisites: PHY 130, PHY 306 and MAT 211. Newtonian dynamics of one and two particles. Introduction to Lagrange's equations. Includes computer simulations. Offered Fall

**PHY 320. Physical Optics. (3 Units)**

Prerequisite: PHY 132 or consent of instructor. Scalar wave equations, interference and diffraction, spacial filtering, coherence and holography. Offered Spring

**PHY 331. Audio Electronics. (3 Units)**

Prerequisite: PHY 100 or consent of instructor. Selection and utilization of electronic components and instrumentation. Solid state circuit design and construction. Fundamental electronics through linear amplifiers, power supplies, filters and feedback. A project is required. Designed for students interested in audio techniques. Two hours of lecture and three hours of laboratory per week. Offered Infrequent

**PHY 333. Analog Electronics. (3 Units)**

Prerequisite: PHY 122 or PHY 132 or consent of instructor. Selection and utilization of electronic components and instrumentation. Solid state circuit design and construction. Amplifiers, feedback techniques, operational amplifiers, SCRs, FETs, etc. A project is required. Two hours of lecture and three hours of laboratory per week. Offered Fall, Spring

**PHY 335. Digital Electronics. (3 Units)**

Prerequisites: PHY 122 or PHY 132 or consent of instructor is required, PHY 333 is recommended. Design and use of systems employing digital integrated circuits. Gates, Boolean algebra, combinatorial and sequential design. Multiplexers, flip-flops, shift registers, ALUs and memories. Two hours of lecture and three hours of laboratory per week. Offered Spring

**PHY 337. Microprocessors. (3 Units)**

Prerequisite: PHY 335 or consent of instructor. Architecture, programming and interfacing of microcomputers. Input/output, instruction sets, subroutines, interrupts, serial communications and process control. Two hours of lecture and three hours of laboratory per week. Offered Infrequent

**PHY 339. Instrumentation. (3 Units)**

Prerequisite: PHY 333. Measurement techniques, transducers, noise reduction, signal processing in the analog and digital domains. Computer controlled instrumentation and data acquisition. Bus configurations and interfacing. Two hours of lecture and three hours of laboratory per week. Offered Infrequent

**PHY 341. Advanced Laboratory. (2 Units)**

Prerequisites: PHY 132 (or 122) and 333. Advanced experimental work, including data acquisition and error analysis techniques. Experiments are taken from several of the major areas of physics, such as optics and spectroscopy, solid state, acoustics, nuclear physics and electronics. Course may be repeated for credit with instructor's approval. One hour of lecture and one three hours laboratory period per week. Offered Spring

**PHY 346. Thermal Physics. (3 Units)**

Prerequisites: PHY 130 and MAT 211. Laws of thermodynamics. Equations of state, entropy, free energies, kinetic theory and concepts of statistical physics. Offered Spring

**PHY 350. Electromagnetic Theory I. (3 Units)**

Prerequisites: PHY 132, PHY 306 and MAT 211 are required; MAT 213 is recommended. Electro- and magnetostatics. Electromagnetic properties of matter, Faraday's law of induction, direct and alternating currents. Includes computer simulations. Offered Fall

**PHY 352. Electromagnetic Theory II. (3 Units)**

Prerequisite: PHY 350. Derivation and applications of Maxwell's equations in vacuum and material media. Electromagnetic radiation. Includes computer simulations. Offered Spring

**PHY 356. Astrophysics. (3 Units)**

Prerequisites: PHY 132 and PHY 134. Quantitative study of stellar astronomy with emphasis on stellar evolution and cosmology. Includes computer simulations. Offered Spring even

**PHY 380. Non-Linear Phenomena. (3 Units)**

Prerequisites: MAT 311 or PHY 306; PHY 310 recommended. Linear systems, iterated maps, differential flows, conservative systems, routes to chaos, strange attractors, fractals, coherent structures, and pattern formation. Visits to computer lab will be included. Offered Spring

**PHY 395. Selected Topics in Physics. (1-4 Units)**

Prerequisites: Consent of instructor. The study of an area of Physics that is not normally available in other courses. Repeatable course. Offered As needed

**PHY 460. Quantum Mechanics I. (3 Units)**

Prerequisites: PHY 134, PHY 306 and MAT 211. Quantum phenomena; postulates and interpretation; Schrodinger's equation in one, two and three dimensions. Applications to atoms and barrier penetration. Offered Fall

**PHY 462. Quantum Mechanics II. (3 Units)**

Prerequisite: PHY 460. Spin, identical particles. Applications of quantum mechanics to problems of current interest in physics, such as solid state, nuclear, astrophysics and particle physics. Offered Spring odd

**PHY 494. Independent Study. (3 Units)**

Prerequisites: Upper division standing and completion of an independent study contract are required. A reading program on a specialized topic in Physics under the supervision of a faculty member. Repeatable course. Offered Fall, Spring

**PHY 495. Selected Topics Physics. (3 Units)**

Prerequisites: Upper division standing and consent of instructor. The study of an area of Physics that is not normally available in other courses. Repeatable course. Offered As needed

**PHY 498. Directed Research. (1-3 Units)**

Prerequisites: Upper division standing and consent of instructor. Advanced laboratory work in an area related to physics or instrumentation. The student participates in an independent investigation under faculty supervision. Repeatable course. Three to nine hours of laboratory per week. Offered Fall, Spring

**PHY 595. Special Topics in Physics. (1-4 Units)**

Prerequisite: Consent of instructor. Advanced course of special interest to graduate students. Topic and content will vary as announced. Offered As needed

## Political Science (POL)

**POL 100. General Education Political Science: World Perspectives. (3 Units)**

An introduction to world affairs and the role of the individual in an increasingly complex and interdependent international system. Both the conceptual and practical aspects of problem solving and decision making are examined as they relate to international cooperation and conflict. Offered Fall, Spring

**POL 101. American Institutions. (3 Units)**

A study of contemporary political institutions, with emphasis on the philosophy, structure, and behavior of the American political system, including the State of California. Meets State requirement in U.S. Constitution and California State and Local government. Offered Fall, Spring

**POL 300. Research Design in Political Science. (3 Units)**

The first course of a two-course sequence - POL 300 and POL 301 - that examines the fundamentals of research design in political science. Satisfies Graduation Writing Assessment Requirement (GWAR). A grade of C or better in this course fulfills the GWAR requirement for all Political Science and Behavioral Science majors and minors. Offered Fall, Spring

**POL 301. Statistical Analysis in Political Science. (3 Units)**

Prerequisite: POL 300 is required. Focuses on introducing students to elementary statistical techniques and their applications to problems in Political Science. Offered Fall, Spring

**POL 304. Basic Concepts of Law: Substantive. (3 Units)**

An examination of conflict situations which arise in contemporary life and the way in which the law and legal institutions address these conflicts. Statutory law and common law will be studied with an emphasis on case analysis, torts, crimes, property, contracts, and landlord-tenant. Offered Infrequent

**POL 305. Basic Concepts of Law: Procedural. (3 Units)**

A basic course in understanding the legal system with a focus on basic procedural law. Emphasis will be placed on civil procedure, evidence, and litigation, probate and corporation, partnership and agency. Offered Infrequent

**POL 310. Current Issues in American Government. (3 Units)**

Analysis and critical evaluation of recent major issues, conflicts and problems in American government and institutions. Current issues might include social and health services, energy, environment, multinational corporations, military spending, taxation, political economy, criminal justice, and civil rights. Offered Fall, Spring

**POL 312. State and Local Government: Organization and Problems. (3 Units)**

Analysis of functions of state and local government with particular emphasis on California. Examination of state-federal and state-local relations and the policy choices available for solving current problems. The course meets the statutory requirement for state and local government. Offered Fall, Spring

**POL 314. American Political Parties and Elections. (3 Units)**

A study of the dynamics of American political behavior, including the legal regulation of parties and of elections. Analysis of voting behavior and public opinion. Study of political party organization, membership, and leadership in the context of the contemporary political scene. Offered Fall, Spring

**POL 315. Congress and the President. (3 Units)**

An analysis of development and operation of the elected decision-making structures of the United States government. Particular focus on the interrelationships between the Congress and the President. Offered Fall, Spring

**POL 318. Public Policy Choices: Distribution of Wealth. (3 Units)**

A study of wealth and redistribution, including the causes and consequences of inequalities in the United States and other countries. Considers how economic inequality affects citizens' participation in political activities, interest groups, political parties, social movements, and civic associations. Offered Fall, Spring

**POL 319. Horror and Politics. (3 Units)**

Prerequisite(s): POL 101 required. Co-requisite(s): POL 315 recommended. In addition to scene of terror, many times horror films deliver political commentary. What do horror films say about the times in which they were created, as well as our own time? This course will explore these issues and more. Offered Fall

**POL 320. Urban Government and Policy Choices. (3 Units)**

A survey of the structures of American municipal, county, and special districts within the context of a systematic evaluation of the public policy choices facing these units of government.

Offered Fall, All terms

**POL 323. Black Politics. (3 Units)**

An analysis of the structure of power within the Black community and political interaction between activists, moderates, and conservatives. Evaluation of styles within the Black sub-political culture and manipulative aspects and tactics; e.g., coalition, confrontation, establishment politics.

Offered Fall

**POL 325. Women and Politics in the United States. (3 Units)**

Examination of the expansion across time of women's rights in the United States. Considers the limitation of rights, feminist movements/theory, and ongoing problems. Also examines roles of specific women who have lead movements and/or pushed for legal change.

Offered Spring

**POL 328. Cultural Pluralism in American Politics. (3 Units)**

Discusses the issues of political socialization and cultural differences in the American political arena. Analyzes the political orientations of various ethnic groups in the United States, their cultural and socioeconomic backgrounds, and their levels of political participation and interaction with American political institutions.

Offered Infrequent

**POL 331. International Terrorism. (3 Units)**

Analysis of the concept of terrorism, root causes and forms. Examination of theories and counter-terrorism strategies at different levels of analysis; individuals, groups, societal, states and transnational. Special emphasis on specific terrorism cases, terrorist organizations and cyber-terrorism in the Digital Age.

Offered Fall

**POL 332. International Security. (3 Units)**

Analysis of the theory and practice of international conflict, crisis, and war management. Special emphasis on the contemporary concerns of deterrence, limited war, guerrilla warfare, foreign commitments, arms races, and arms control.

Offered Fall, Spring

**POL 333. International Relations of East Asia. (3 Units)**

Analysis of contemporary international relations of East Asia, including the rise of China, its affects on US-China relations and implications in the region concerning foreign policy issues for countries such as Japan, North and South Korea, Vietnam, Indonesia, and Thailand.

Offered Spring

**POL 334. American Foreign Policy. (3 Units)**

The formulation and execution of foreign policy in the United States, including an analysis of competing ideological concepts, the role of President and Congress, and the influence of public opinion.

Offered Fall, Spring, All terms

**POL 335. Introduction to International Relations. (3 Units)**

Introduction to international relations. Students will learn theories, concepts, principles and practices of international politics. Topics include war/peace, international political economy, and international institutions. Global issues such as terrorism, human rights, environment, and global health will also be examined.

Offered Fall, Spring

**POL 336. Theories of International Relations. (3 Units)**

Analysis of action and interaction of states, decision-making, capability analysis, balance and imbalance, systems analysis, communication, crisis, and game theory.

Offered Fall, Spring

**POL 337. European International Relations. (3 Units)**

An analysis of European international relations and foreign policies including the impact of Western European economic integration, the foreign policies of the Russian Commonwealth with Eastern and Western Europe, and the changing role of NATO.

Offered Infrequent

**POL 339. Model United Nations. (3 Units)**

Examination of the role of international organizations and the issues addressed by these international actors while preparing students to participate in intercollegiate Model United Nations simulations. May be repeated for credit to a maximum of 9.0 units.

Offered Infrequent

**POL 340. Introduction to Comparative Politics. (3 Units)**

Study of domestic politics in different regions of the world by focusing on topics, such as economic development, democratization and regime change, political institutions, income redistribution, and political representation.

Offered Fall, Spring

**POL 341. Gov and Politics of East Asia. (3 Units)**

China, Japan, and Korea : political behavior, ideas, and institutions of societies of East Asia. Political parties and organizations, role of competing ideologies and systems of behavior, interaction of domestic and foreign policies.

Offered Fall, Spring

**POL 342. Government and Politics of the Middle East. (3 Units)**

Analysis and explanation of political processes, governments, political issues and foreign relations of the Middle East. Discussion of influence of religion, oil, revolutions and conflicts on Middle East politics.

Offered Fall

**POL 343. Political Behavior in Latin America. (3 Units)**

Analysis of political and cultural behavior in South America with a focus on Brazil, Argentina, Chile, Peru, Colombia, and Venezuela. Their sociopolitical institutions, elites, and interest groups; and the impact of national and cross-national cultural pluralism upon political life in the region.

Offered Fall, Spring

**POL 344. Latin America: The Revolutionary Tradition. (3 Units)**

A comparative analysis of the revolutionary process in Mexico, Central America and Cuba, encompassing the dimensions of the socio-political, cultural and economic characteristics. An emphasis on post-revolutionary developmental politics in Mexico, Nicaragua, Cuba, and on the current social unrest in Central America, including an analysis of ideas, institutions, groups and economic conditions.

Offered Fall, Spring

**POL 345. Democratization. (3 Units)**

Students examine the basic principles, theories, and comparative methods useful for understanding the challenges of democracy and democratization and provides insights into the range of practical policy recommendations which could be adopted to strengthen the process of democratic governance.

Offered Fall, Spring

**POL 347. Comparative Political Parties. (3 Units)**

For more than a century, democratic politics has been synonymous with party politics. This class provides an understanding of the origins of parties and party systems, the reasons for their successes and failures, and their impact on political outcomes.

Offered Fall, Spring

**POL 349. Government and Politics in Sub-Saharan Africa. (3 Units)**

A study of the dynamics of government and politics in Africa south of the Sahara Desert with special emphasis on South Africa. Imperialism and colonial administration, nationalism, and decolonization treated as background to the problems of modernization and nation-building in the region.

Offered Fall, Spring

**POL 350. History of Political Ideas. (3 Units)**

A critical analysis of the major political philosophies and schools of thought from Plato to the sixteenth century. Examination of the political concepts of Plato, Aristotle, St. Augustine, St. Thomas Aquinas, and Machiavelli.

Offered Fall, Spring

**POL 351. Modern Political Thought. (3 Units)**

A study of principal political philosophers from the seventeenth century to the present. Special emphasis is given to writers such as John Stuart Mill and Karl Marx, whose concepts of political criticism have become predominant in the modern world.

Offered Spring

**POL 352. Democratic Theory. (3 Units)**

A comprehensive examination of the theory and practice of democracy. Students engage with various theoretical justifications for democracy, analyzing the various understandings of its strengths and weaknesses. Using these theories, students examine the various forms of democracy historically and globally.

Offered Spring

**POL 354. American Political Thought. (3 Units)**

A critical analysis of the political ideas that have emerged within the United States. Special attention is given to twentieth century political theories that aim to achieve social justice and/or alternative life styles through a restructuring of the economy.

Offered Fall, Spring

**POL 355. Politics and Political Theory through Film. (3 Units)**

Focuses on political theory and politics as presented through film. Students examine the various ways artists critique existing political and social structures, provide alternative visions, and challenge audiences to rethink their unexamined assumptions regarding human existence.

Offered Fall

**POL 356. Political Theory and Science Fiction. (3 Units)**

Explores how science fiction has explored perennial questions of political theory. Students engage with the books, films, and TV shows of the genre, and how they challenge existing political structures and develop alternative visions.

Offered Fall

**POL 357. Food Politics. (3 Units)**

Explores the political, social, and ethical concerns surrounding food and food culture. Topics examined include: the ethics of consumption, food media, cultural appropriation, and race, identity and the representation in the restaurant industry.

Offered Fall

**POL 360. American Constitutional Law: Distribution of Power. (3 Units)**

An examination of the nature and development of the United States constitutional system. Emphasis on the role of the courts in interpreting the concepts of separation of powers, federalism, the police power, and the commerce clause.

Offered Spring

**POL 361. American Constitutional Law: Civil Rights. (3 Units)**

A study of fundamental rights as protected by the U.S. Constitution and other legal provisions. The role of the courts in interpreting freedom of expression and conscience, due process, and equal protection of the laws.

Offered Fall

**POL 366. Criminal Law and Procedures. (3 Units)**

Materials and cases treating Criminal Law and procedures within the context of the American policy. Systematic analysis of the role of the citizen in relationship to operational legal principles and procedures of Criminal Law. An emphasis on contemporary problems and recent court decisions.

Offered Infrequent

**POL 370. Public Opinion and Propaganda. (3 Units)**

The nature of public opinion and its manipulation by propaganda in modern society. Relations between government and other social institutions and the opinions of groups and individuals; the press, pressure groups.

Offered Spring

**POL 371. Conflict, Violence, Nonviolence and Peace. (3 Units)**

Examination of relevant theories and instances of aggression, sociopolitical conflict and conflict resolution, various types of political violence (as terrorism, revolution, urban riots) and nonviolence. Course will present an overview of all these topics, or focus on one topic in detail, such as terrorism, revolution, or nonviolence.

Offered Fall, Spring

**POL 372. International Institutions. (3 Units)**

Prerequisite(s): POL 335 required. An examination of the theories and practices of international institutions. The origins, structures, functions, and effectiveness of international institutions will be discussed. Major issues include war and conflict, global economy, environment, human rights, and global health.

Offered Fall

**POL 373. International Political Economy. (3 Units)**

An examination of the theoretical approaches to the study of international political economy and contemporary issues in the global economy. Major topics include international trade, international finance, economic development, multinational corporations, and globalization.

Offered Fall, Spring

**POL 374. International Human Rights. (3 Units)**

Prerequisite(s): POL 335 required. An examination of the historical evolution and practices of human rights in world politics. Emphasis on the dynamic interaction between governments, and international and domestic human rights institutions. The topics include political rights, torture, refugees, racism, environment, and women's rights.

Offered Fall, Spring

**POL 375. Technical Policy and the Future. (3 Units)**

Various humanistic, ethical, legal, and political-economic policy issues surrounding the use and future development of technology, in such areas as energy, food production, transportation, computers, communications, electronic surveillance, medicine, weaponry, and space. The issue of high technology vs. appropriate technology also global restructuring trends from technological change. Course will focus on one or more such technological topics depending upon the instructor.

Offered Infrequent

**POL 380. Mock Trial I. (3 Units)**

Students will be taught the basics of how to present a case in a simulated trial environment. Students will create opening and closing statements, and cross-examinations and direct examinations. Students will have the opportunity to participate as witnesses. Upper division status is recommended or consent of instructor is required.

Offered Infrequent

**POL 401. Political and Public Sector Leadership. (3 Units)**

Prerequisite: 12 units of upper division courses are required. This is an applied techniques, skills-development course. It blends ideas from several different sectors of political theory, public policy, public relations, conflict negotiation, and intercultural communication to teach students skills that are necessary for leadership roles.

Offered Spring

**POL 494. Independent Study. (1-3 Units)**

Prerequisites: Consent of instructor and department chair. Independent study of a particular problem under the direction of a member of the Political Science Department. Course is not repeatable for credit in the Political Science major or minor.

Offered Fall, Spring

**POL 495. Special Topics in Political Science. (1-3 Units)**

An intensive study of an issue or a concept in political science that is of special interest to both the faculty member and the students. Repeatable course. Three hours of seminar per week.

Offered Fall, Spring

**POL 496. Internships in Political Science. (3 Units)**

Practical application of coursework in political science through supervised work and field experience in politics, government administration, public and private paralegal agencies such as offices of lawyers and judges, and community agencies. Repeatable course.

Offered Fall, Spring

**POL 498. Directed Research. (1-3 Units)**

Prerequisite: Consent of instructor. The student develops and completes an individual study under faculty supervision. Repeatable course.

Offered Infrequent

## Portuguese (POR)

**POR 110. Beginning Portuguese I. (3 Units)**

Basic instruction in Portuguese. Training in speaking, listening, reading, and writing for students who have no previous work in Portuguese.

Offered Fall

**POR 111. Beginning Portuguese II. (3 Units)**

Prerequisite: POR 110 is required. Continuation of basic instruction in Portuguese (POR 110). Training in speaking, listening, reading, and writing for students with prior course in Portuguese.

Offered Spring

## Psychology (PSY)

**PSY 101. General Education Psychology: Understanding Human Behavior. (3 Units)**

An introduction to psychology emphasizing the personal, cognitive and social development and functioning of the individual, and the influence of both physiological and social factors. Consideration of basic concepts and applications.

Offered Fall, Spring, Summer

**PSY 110. Critical Thinking and Problem Solving. (3 Units)**

Course is designed to improve critical thinking and problem solving skills such as deductive and inductive reasoning, probabilistic reasoning and decision-making. May include computer-assisted instruction. A-C-/NC grading.

Offered Fall, Spring, All terms

**PSY 125. Introduction to Research Methods. (2.7 Units)**

Offered All terms

**PSY 210. Fundamentals of Learning. (2.7 Units)**

Offered All terms

**PSY 216. Sensation and Perception. (2.7 Units)**

Offered Infrequent

**PSY 216L. Sensation/Perception Lab. (0.7 Units)**

Offered All terms

**PSY 230. Elementary Statistical Analysis in Psychology. (3 Units)**

The application of descriptive and inferential statistics to the design and analysis of psychological research.

Offered Fall, Spring, All terms

**PSY 235. Intro To Research Methods. (3 Units)**

Prerequisite: PSY 230 or MAT 131. Examination of the design, conduct and interpretation of research studies, both experimental and non-experimental, as demonstrated in a wide range of psychological phenomena. Includes a consideration of philosophy of science and preparation of research reports. Two hours of lecture and three hours of laboratory per week.

Offered Fall, Spring

**PSY 240. Biopsychology. (3 Units)**

Prerequisite: PSY 101 required. PSY 230, PSY 235 recommended. Course introduces the biological basis of human behavior providing information on the different physiological systems involved in behavior and cognition. An understanding of the human nervous system is central to this course.

Offered Fall, Spring

**PSY 265. Counseling Theory. (2.7 Units)**

Offered All terms

**PSY 276. Psych of Female Identity. (2.7 Units)**

Offered All terms

**PSY 278. Psy of Language Communication. (2.7 Units)**

The study of the development of psychology as a discipline, and the influence of principal leaders and modern psychology.

Offered Fall, Spring

**PSY 306. Design Your Life. (3 Units)**

Prerequisite: PSY 101 required. Course is designed to help students prepare for the transition from the university to your first career. Students will critically examine their beliefs, build skills needed to achieve their career goals, and design plans for several careers.

Offered Fall, Spring

**PSY 312. Theories Of Learning. (3 Units)**

Consideration of the major theories of learning and their experimental bases.

Offered Infrequent

**PSY 314. Behavior Modification. (3 Units)**

Prerequisite: PSY 101 or equivalent. The application of principles and concepts from the experimental analysis of behavior to problems outside the laboratory. Each student will successfully complete a project.

Offered Fall, Spring

**PSY 316. Behavioral Neuroscience. (3 Units)**

AAAdvanced study of the relationship between the brain and behavior.

Focus on neuroanatomy, psychology, pharmacology and their application to cognition, emotion, learning, motivation, attention, executive function, perception and memory. Analysis of model organism and their application to neurodegenerative disease and the neurobiology of mental illness.

Foundational experiments and recent discoveries in the field will be reviewed and discussed with a focus on how these findings relate to broader theories in the field.

Offered Fall, Spring, Summer

**PSY 318. Stress Psychobiology. (3 Units)**

This course cover the behavioral neurobiology of stress, including what stress is mentally and physically, how stress affect physiology and contributes to physical disease, and what factors moderate the stress experience and improve stress management (such as biofeedback).

**PSY 320. Psychopharmacology. (3 Units)**

Effects of drugs on mood, personality and behavior. Drug use in treatment of mental disorders in children, adults, and the elderly.

Offered Fall, Spring, Summer

**PSY 322. Cognitive Psychology. (3 Units)**

An introduction to theory and research in human information processing. Topics include attention, memory, neurocognition, mental representation, imagery, problem solving, reasoning, language, and other higher mental processes.

Offered Fall, Spring, Summer

**PSY 324. Sensation & Perception. (3 Units)**

Prerequisites: PSY 101 required. PSY 230, PSY 235 recommended.

Study of sensory and perceptual processes in vision, touch, and hearing. Emphasis placed in how basic perceptual principles operate in everyday life as well as in lab settings.

Offered Fall, Spring

**PSY 326. Neuropharmacology. (3 Units)**

Required Prerequisites: PSY 101, PSY 230, PSY 235, PSY 240.

Recommended Prerequisites: PSY 320. Advanced study of the chemical basis of behavior and mechanism by which drugs impact the biological aspects of an organism. Focus on pharmacokinetic and pharmacodynamic elements of neurochemical signaling, examining major drug classifications, with an emphasis on the biological dimensions of their action.

Offered Fall, Spring

**PSY 328. Music and the Mind. (3 Units)**

Survey of topics in the psychology and cognition of music/ Student will explore topics such as memory, attention, perception, imagery, language, and thinking as they relate to music, with special attention to cognitive, social dimensions, and identity.

Offered Fall, Spring, Summer

**PSY 330. Intermediate Statistics and Research Design. (3 Units)**

Prerequisites: PSY 230 or MAT 131 is required. The applications of statistical techniques to problems in the behavioral sciences. Discussion of problems in hypothesis formulation, sampling techniques, distribution-free statistics, multivariate data analysis, and presentation of results. Two hours of lecture and two hours of laboratory per week.

Offered Fall, Spring

**PSY 331. Measurement In Psychology. (3 Units)**

Prerequisite: PSY 230 or MAT 131. Fundamentals of psychological measurement. Reliability, validity, item analysis, norms, and test construction and selection. Experience in administering, scoring, and interpreting tests of intelligence, aptitude, and personality. Two hours of lecture and two hours of laboratory per week.

Offered Fall, Spring, All terms

**PSY 340. Social Psychology: Psychological Perspective. (3 Units)**

A broad survey of theories and research areas in social psychology. Including such topics as aggression, prejudice, person perception, leadership and conformity.

Offered Fall, Spring, Summer, All terms

**PSY 341. Social Cognition. (3 Units)**

A review of theory and research focusing on mental processes that underlie how people make sense of themselves and others. Social cognition focuses on social interactions that involve people's judgments, beliefs, decisions, and behaviors in social situations.

Offered Fall, Spring, Summer

**PSY 342. Interpersonal and Group Dynamics. (3 Units)**

Methods, theories and research findings concerning interpersonal dynamics and the dynamics of small groups. The class will learn communication skills and participate in various aspects of group experience.

Offered Fall, Spring, All terms

**PSY 350. Child Psychology. (3 Units)**

The cognitive, psychological and social development of the child from birth to adolescence. Fieldwork at discretion of instructor.

Offered Fall, Spring, Summer

**PSY 351. Psychology of Adolescent Experience. (3 Units)**

Consideration of the major theories and research concerning development during adolescence. Emphasis on the development of personal identity as it relates to social roles in adolescence.

Offered Fall, Spring

**PSY 352. Psychology of Adult Development and Aging. (3 Units)**

Theories and research in adult development and aging, including the effects of physiological and socio-economic changes on psychological variables within an aging population.

Offered Fall, Spring

**PSY 353. The Experience of Death and Dying: Psychological Perspectives. (3 Units)**

Readings, discussion, and case studies in the psychodynamics of reactions to death and behavior patterns, coping with impending or recent death, loss, and grief; attitudes towards death and dying; the fear of death; children's responses to death.

Offered Spring

**PSY 360. Theories Of Personality. (3 Units)**

A study of basic theories of personality including type theories; trait theories; psychoanalytic, learning, biosocial, self and holistic-integrative theories.

Offered Fall, Spring, Summer, All terms

**PSY 363. Abnormal Psychology. (3 Units)**

The causes and manifestations of abnormal behavior. Field study and case study.

Offered Fall, Spring, Summer, All terms

**PSY 367. Effective Communication Skills. (3 Units)**

Training and practice in effective communication skills, such as active listening, accurate empathy, respect, genuineness, concreteness, assertion and message sending. Lecture will provide theoretical and empirical rationale for applied skills and techniques. Supervised small group practice will provide experience and feedback on applying such skills.

Offered Fall, Spring, All terms

**PSY 368. Human Sexuality. (3 Units)**

Course will cover the physiological and psychological aspects of human sexuality. The origin and treatment of sexual dysfunction will also be discussed.

Offered Fall, Spring, All terms

**PSY 370. Health Psychology. (3 Units)**

Prerequisite: PSY 101. Survey of the major findings and theories from the field of health psychology. Includes consideration of psychological, social, and cultural effects on health.

Offered Fall

**PSY 371. Forensic and Legal Psychology. (3 Units)**

Prerequisite: PSY 101 required. A survey of forensic and legal psychology including interrogations, eyewitness memory, forensics, the death penalty, the insanity defense, competency to stand trial, jury decision-making, and more. Emphasizes research on the importance of understanding and preventing wrongful convictions.

Offered Fall, Spring

**PSY 372. Industrial and Organizational Psychology. (3 Units)**

Survey of the application of psychology to organizations, personnel, work environments, buying, and selling, with particular attention to current issues.

Offered Fall, Spring

**PSY 373. Sport Psychology. (3 Units)**

An in-depth analysis and application of psychological principles and research in motivation, psychophysiology, personality, cognition, and emotion in sport settings.

Offered Fall, Spring

**PSY 376. Psychology Of Gender. (3 Units)**

Prerequisite: PSY 101 is recommended. Theory and research on the development of gender identity and gender differences and similarities. Includes role of ethnicity, cross-cultural evidence, and analysis of status and power differences favoring males.

Offered Fall, Spring

**PSY 380. Psychology of the Mexican American I. (3 Units)**

Prerequisite: PSY 340 is recommended. The psychological development and socialization of the Mexican American. The Mexican American as unique from both mother culture and dominant culture, especially a consideration of how language, color, and socio-economic class affect the individual.

Offered Infrequent

**PSY 382. Psychological Development of the Black Child. (3 Units)**

Unique environmental influences on the psychological development of the Black child, from the prenatal period through elementary school. Emphasis on social, intellectual and emotional growth.

Offered Spring

**PSY 383. Black Psychology. (3 Units)**

An investigation into the dynamics of the Black personality, and the influence of American social institutions. Focus on the various types of psychological adaptations, identity conflicts, problems of self esteem, and evaluation of Black consciousness.

Offered Fall

**PSY 396. Practicum In Psychology. (3 Units)**

Prerequisite: HUS 300 or consent of instructor. May not be taken concurrently with any other fieldwork course. Supervised work experience in applied psychology, with emphasis upon human services and educational settings. Supervision emphasizes training and application of clinical, interviewing, and other helping skills, didactic methods, group techniques, methods of evaluation and/or other skills specific to fieldwork needs. CR/NC grading. Repeatable course.

Offered Infrequent, All terms

**PSY 411. Advanced Research Methods in Personality and Social Psychology. (3 Units)**

Prerequisites: PSY 230, PSY 235, and PSY 340 or PSY 360; concurrent enrollment in PSY 412. Examination of selected areas of personality and social psychology, such as interpersonal attraction, self concept, and attitudes. Equips students to understand, evaluate and independently conduct research.

Offered Fall, Spring

**PSY 412. Research Seminar in Personality and Social Psychology. (3 Units)**

Prerequisites: PSY 230 and PSY 235; concurrent enrollment in PSY 411. Development of research skills in personality and social psychology including conception, design and conduct of studies, analyzing, organizing and evaluating findings and communicating results. Three hours of seminar per week.

Offered Fall, Spring

**PSY 413. Advanced Research Methods in Learning and Evolutionary Psychology. (3 Units)**

Prerequisite(s): PSY 235 & PSY 230 required. Corequisite: PSY 414. An examination of the scientific synthesis of evolutionary biology of modern psychology, which offers a novel approach to such issues as short-term and long-term human mating strategies, short-term sexual strategies, conflict between the sexes, parental investment, aggression, and social dominance.

Offered Fall, Spring

**PSY 414. Research Seminar in Learning and Evolutionary Psychology. (3 Units)**

Prerequisites: PSY 230 and PSY 235 are required. Co-requisite: PSY 413 is required. Development of research skills for studying human behavior from the perspective of evolutionary biology, behavioral adaptations, and comparisons with other species. The course includes conception, design and conduct of studies, analyzing, organizing and evaluating findings and communicating results.

Offered Fall, Spring

**PSY 415. Advanced Research Methods in Cognitive Psychology. (3 Units)**

Prerequisites: PSY 230 and PSY 235. Survey of cognitive psychology including intelligence, cognitive development, perception, reasoning, memory, problem solving, language, comprehension and decision making. Consideration of both Piagetian and information processing perspectives. Three hours of seminar per week.

Offered Fall, Spring, All terms



**PSY 416. Research Seminar in Cognitive Psychology. (3 Units)**

Prerequisites: PSY 230 and PSY 235; concurrent enrollment in PSY 415. Development of research skills in cognitive psychology, including conception, design and conduct of studies, analyzing, organizing and evaluating findings and communicating results. Three hours of seminar per week.

Offered Fall, Spring, All terms

**PSY 417. Advanced Research Methods in Biological Psychology. (3 Units)**

Prerequisites: PSY 230 and PSY 235. Study of biological mechanisms underlying human behavior including physiology of various systems including nervous system, sensory and motor systems, endocrine system, with attention to applications and current advances in neuroscience.

Offered Fall, Spring

**PSY 418. Research Seminar in Biological Psychology. (3 Units)**

Prerequisites: PSY 230 and PSY 235; concurrent enrollment in PSY 417. Development of research skills in biological psychology, including conception, design and conduct of studies, analyzing, organizing and evaluating findings and communicating results. Three hours of seminar per week.

Offered Fall, Spring

**PSY 419. Advanced Research Methods in Forensic and Legal Psychology. (3 Units)**

Prerequisite: PSY 230 and PSY 235 required. PSY 330 or PSY 331 recommended. Co-requisite: PSY 420 required. Explores the field of forensic and legal psychology including interrogations, eyewitness memory, forensics, the death penalty, the insanity defense, competency to stand trial, jury decision-making. Emphasizes research on preventing wrongful convictions and research methods employed to study

Offered Infrequent

**PSY 420. Research Seminar in Forensic and Legal Psychology. (3 Units)**

Prerequisites: PSY 230 and PSY 235 required. PSY 330 or PSY 331 recommended. Co-requisites: PSY 419 required. Development of research skills in forensic and legal psychology, including conception, design and conduct of studies, analyzing, organizing and evaluating findings and community results. Three hours of lab per week.

Offered Infrequent

**PSY 464. Introduction to Clinical Psychology. (3 Units)**

Prerequisite: PSY 363. An overview of psychology in the clinical situation. The scope, ethics, theories, and methods of clinical psychology.

Offered Fall, Spring, All terms, Fall

**PSY 470. Community Psychology: Issues and Practice. (3 Units)**

Prerequisite: PSY 363. Introduction to issues and concepts in community psychology, including the study of community organization and intervention programs.

Offered Fall, All terms

**PSY 481. Applied Sport & Fitness Psychology. (3 Units)**

Scientific research results in the field of psychology are used to illustrate how participation in sports and physical activity can facilitate psychological development and physical well-being.

Offered Infrequent

**PSY 482. Psychology of Coaching and Team-Building. (3 Units)**

Group processes, team-building techniques, leadership skills and interpersonal communication skills will be applied to enhancement of team sports performance and individual well-being.

Offered Infrequent

**PSY 483. Contemp Issues in Sports and Fitness Psychology. (3 Units)**

Psychological theories will be applied to the identification and treatment of problems people who participate in sports may have as well as applied to the promotion of mental health.

Offered Infrequent

**PSY 486. Internship in Sport and Fitness Psychology. (3 Units)**

Supervised application of psychological principles applied to sports and fitness to promote performance and optimal well-being. There are four prerequisite courses (PSY 480, PSY 481, PSY 482, PSY 483) that must be completed before registering for PSY 486S, Internship in Sport and Fitness Psychology. One of the four prerequisite courses sometimes can be taken concurrently with PSY 486S. Also, please notify the instructor of PSY 486S one semester before intending to register for this course so she can approve an internship site and supervisor for you plus you will need this instructor's consent before registering for PSY 486S.

Offered Infrequent

**PSY 490. Senior Seminar Psychology. (3 Units)**

Prerequisites: PSY 230, PSY 235, and PSY 330 or PSY 331 and senior standing. A seminar designed to integrate previous work and experience by emphasizing the application of theoretical models and research designs and the relationship among theory, research, and the dissemination of research findings. Three hours of seminar per week.

Offered Fall, Spring, Summer

**PSY 494. Independent Study. (1-3 Units)**

Prerequisite: Consent of instructor. A reading program of selected topics conducted under the supervision of a faculty member. Repeatable course.

Offered Fall, Spring

**PSY 495. Seminar Special Topics:. (3 Units)**

Prerequisite: Consent of instructor. An intensive study of a psychological topic which commands the current focus of interest of both the faculty member and the students. If repeated, the course will count only once toward the major. Repeatable course. Three hours of seminar per week.

Offered Infrequent

**PSY 496. Internship. (3-6 Units)**

Prerequisites: PSY 396 or consent of instructor. May not be taken concurrently with any other fieldwork course. Survey of professional and ethical issues in the helping professions. Supervised internships in human services setting.

Offered Infrequent

**PSY 497. Seminar in Peer Advising. (3 Units)**

Prerequisite: Senior standing and completion of 15 units of Psychology. Training, supervision, and experience in peer advising. Emphasis on how to provide effective academic assistance and planning, with other helping and administrative skills also taught. Repeatable course. Three hours of seminar per week.

Offered Fall, Spring

**PSY 498. Directed Research. (1-3 Units)**

Prerequisite: Consent of instructor. The student develops and completes an individual study under faculty supervision. Repeatable course.

Offered Fall, Spring

**PSY 510. Career Development in Clinical and Counseling Psychology. (3 Units)**

Examines career development theories and techniques in clinical and counseling psychology. Course content will explore decision-making models and interrelationships among and between work, family and other life roles and factors, including the role of multicultural issues in career development.

Offered All terms, Fall

**PSY 512. Professional and Legal Issues in Clinical and Counseling Psychology. (3 Units)**

This course covers ethical standards for clinical and counseling psychology. The course will cover ethical standards of professional organizations and credentialing and licensing entities. Also included will be partner abuse assessment, detection and intervention strategies, and child abuse detection and reporting.

Offered As needed

**PSY 516. Perceptual Processes. (3 Units)**

Offered Infrequent

**PSY 517. Seminar in Physiological Psychology. (3 Units)**

Prerequisites: PSY 230 or MAT 131; PSY 417 and PSY 418. An advanced study of the physiological correlates of psychological phenomena including learning, motivation, emotion, sleep and personality. Three hours of seminar per week.

Offered Infrequent

**PSY 520. Seminar in Psychopharmacology. (3 Units)**

Prerequisite: PSY 320 and PSY 417 are recommended. The role of drugs on cognition, emotion, and behavior, with reference to their biochemical actions. Emphasis will be placed on psychoactive drugs, such as psychiatric medications, recreational drugs and over-the-counter drugs.

Offered Fall

**PSY 530. Advanced Analysis of Variance and Multivariate Techniques. (3 Units)**

Prerequisites: PSY 330 or equivalent. PSY 235 is recommended.

Corequisite: PSY 535 is recommended. Advanced analysis of variance including multifactor randomized groups and repeated measures designs, nested designs, analysis of covariance, multiple regression, multiple discriminant function, factor analysis.

Offered Fall

**PSY 535. Advanced Research Methods. (3 Units)**

Prerequisites: PSY 230 or MAT 131; PSY 235; PSY 330 or equivalent is required; PSY 530 is recommended. Advanced research methodology; including experimental design, correlational and ex post facto studies: problems in research, e.g., generalization, significance, reliability; critique of research; and philosophy of science. Will include a directed research project.

Offered Fall

**PSY 540. Seminar In Social Psych. (3 Units)****PSY 550. Seminar in Developmental Psychology. (3 Units)**

Prerequisites: PSY 230 or MAT 131; PSY 235; PSY 350 or equivalent.

Exploration and discussion of recent theoretical and research literature on topics such as early experience, intelligence vs cognition, gerontology, imitation and social development, and research on adolescence. Three hours of seminar per week.

Offered Spring

**PSY 551. Child and Adolescent Treatment: Theories and Practice. (3 Units)**

Prerequisite(s): PSY 563 required. Co-requisite(s): PSY 550 recommended. An examination of major theories, research studies, and clinical interventions for working with children and adolescents. Highlighted throughout the course will be a focus on biopsychological and cultural factors that impact the mental health of children and adolescents.

Offered Spring

**PSY 555. Psychology and Aging. (3 Units)**

Examination of psychological aspects of the aging process, with special emphasis on applied issues in aging research. Topics include: biological aspects of aging, health context of aging, mental health and aging, culture and spirituality, and care giving issues.

Offered Fall

**PSY 560. Seminar In Personality. (3 Units)**

Offered Infrequent

**PSY 563. Seminar in Psychopathology. (3 Units)**

Prerequisite: PSY 363. Intensive analysis of theory and research in psychopathology. Various orientations, such as behavioral, psychophysiological, and existential will be explored. Three hours of seminar per week.

Offered Fall

**PSY 564. Advanced Psychotherapy Techniques. (3 Units)**

Prerequisite: PSY 464 or PSY 563. Course will include an indepth coverage of techniques from two or more psychotherapeutic approaches. These approaches include the psychodynamic, humanistic, cognitive, and behavioral approaches. Emphasis is on concrete application of these approaches in short term counseling situations.

Offered Spring

**PSY 565. Psychology of Clinical Groups. (3 Units)**

Exploration of different approaches to therapeutic intervention on a group level. Course will include an experiential laboratory component where students will have experience in leading groups using different theoretical orientations. Two hours of lecture and two hours of activity per week.

Offered Spring

**PSY 566. Indv Intellectual Assess. (3 Units)**

Prerequisite: PSY 331. Techniques for administering, analyzing, and interpreting individual intellectual tests (such as the Wechsler and the Stanford- Binet) and psychomotor tests. Intensive supervised practice in administering the tests will be provided. Two hours of lecture, two hours of activity and fieldwork by arrangement per week.

Offered Fall

**PSY 567. Individual Assessment. (3 Units)**

Prerequisites: PSY 563 and PSY 570. Study of techniques for administering, analyzing and interpreting personality tests and reporting test results. Supervised intensive practice in administering tests will be provided. Two hours of lecture with two hours of activity and fieldwork by arrangement per week.

Offered Spring

**PSY 570. Community Psychology: Current Theory and Issues. (3 Units)**

Prerequisite: PSY 363 or PSY 470. Theory of the interaction between individual functioning and social system variables with emphasis on the changing role of the community mental health specialist and the community psychologist.

Offered Fall

**PSY 571. Practicum in Clinical-Community Psychology. (3 Units)**

A case approach to issues in clinical community psychology coordinated with supervised experience. Some of the topics covered are diagnosis, interventions, ethics, laws, and cross-cultural counseling. Three hours of seminar plus supervised field work per week.

Offered Fall, Spring

**PSY 572. Sem Industrial/Organ Psy. (3 Units)**

Offered Infrequent

**PSY 573. Crisis and Trauma: Theories and Interventions. (3 Units)**

Prerequisite(s): PSY 563 required. Introduces students to crisis and trauma counseling and includes examining: crisis theory; multidisciplinary responses to crises, emergencies, and/or disasters; effects of trauma; assessment strategies and treatment approaches; and interventions for individuals with mental or emotional disorders. Offered Spring

**PSY 574. Practicum: Diversity Issues in Clinical and Health Psychology. (3 Units)**

Examination of the impact of culture on mental health and on the therapeutic relationship. Race/ethnicity, culture, class, sexual/affective orientation, ability status, and gender issues will be explored. Offered Fall

**PSY 575. Theories of Health and Behavior. (3 Units)**

Overview of the relationships among psychosocial factors, illness and health, based on research and theory from psychology, sociology, anthropology and biology. Topics include: stress, obesity and life-threatening illness. Offered Spring

**PSY 576. Seminar in Health Psychology Research. (3 Units)**

Analysis and discussion of research in health psychology. Areas of research study will include: health promotion, coping mechanisms in chronic illness chronic pain, psychocardiology, immigrant and refugee health/psychosocial adjustment, and cultural issues in specific disease processes. Offered Spring

**PSY 580. Advanced Sport Psychology. (3 Units)**

Prerequisites: Graduate standing and permission of instructor. Psychological principles and research in motivation, psychophysiology, personality, cognition, development, emotion and group behavior applied to sport settings. Offered Fall

**PSY 585. Neuropsychology. (3 Units)**

Overview of neuroanatomy, neuropathology, and clinical and experimental data on brain-behavior relationships. Offered Fall

**PSY 586. Addictions Counseling. (3 Units)**

Co-requisite(s): PSY 585 recommended. Students will examine substance abuse and addiction disorders in multiple client populations. Additionally, co-occurring disorders, the effects of substances and addictions, and best practices for counseling and treatment will be examined. Offered Fall

**PSY 592. Teaching Psychology. (3 Units)**

Prerequisites: Graduate standing and permission of Graduate coordinator. Discussion of teaching/learning styles, educational issues, technological advances, teaching methods and materials, curriculum development, and evaluation of course, teacher and student. Repeatable course. Offered Fall

**PSY 595. Special Topics:. (3 Units)**

Advanced course of special interest for psychology graduate students. Topic and content will vary as announced. Repeatable course. Three hours of seminar per week. Offered Fall

**PSY 596. Clinical Psychology Practicum. (3 Units)**

Prerequisites: PSY 571 or PSY 574 is required; PSY 546 is recommended. Field placement and clinical training in the applied use of theory, working with individuals and families and documentation skills. Students must have completed 12 units of coursework before beginning practicum and site must be approved by the MA Psychology program. Repeatable for credit. Offered Infrequent

**PSY 597. Directed Reading. (1-3 Units)**

Prerequisite: Classified graduate standing. Assignment of a reading list formulated under the supervision of the instructor. Repeatable course. Offered Fall, Spring

**PSY 598. Directed Research. (1-3 Units)**

Prerequisite: Classified graduate standing. Students will design and conduct research projects under the direct supervision of the instructor. Repeatable course. Offered Fall, Spring

**PSY 599. Thesis. (1-3 Units)**

Prerequisite: Advancement to Candidacy. Thesis. Repeatable course. Offered Fall, Spring

**PSY 600. Grad Continuation Course. (1 Units)**

Graduate students who have completed their coursework but not their thesis, project, or comprehensive examination, or who have other requirements remaining for the completion of their degree, may maintain continuous attendance by enrolling in this course. Signature of graduate program coordinator required. Offered Fall, Spring

## Public Administration (PUB)

**PUB 195. Special Topics in Public Administration. (3 Units)**

This course provides an overview of special topics the field of public administration, which is concerned with the study of the implementation of public policies and the management of public organizations. Topic and content will vary as announced. Offered As needed

**PUB 300. Foundations of Public Administration. (3 Units)**

Analysis of the role of public administration within the American political system and of the concordant functions and responsibilities of public sector administrators; discussion of administrative ethics; overview of public sector administrative and managerial processes. Offered Fall, Spring, Summer, All terms

**PUB 301. Administrative Leadership and Behavior. (3 Units)**

Study of human behavior in organizational settings; examination of how managerial/supervisory functions impact employee morale and productivity and overall organizational effectiveness. Primary areas of analysis include motivation, leadership, interpersonal and group dynamics, communication, and organizational power. Offered Fall, Spring, Summer

**PUB 302. Public Financial Administration. (3 Units)**

Administrative and political considerations of fiscal policy, the budgetary process and fiscal controls, financial management and planning, government and the economy, intergovernmental fiscal relations and nature of grants-in-aid, alternate revenue sources, contemporary issues. Offered Fall, Spring

**PUB 303. Public Personnel Administration. (3 Units)**

Study of policies, methods, and techniques in Public Personnel Administration; government personnel systems; manpower management; values in public career systems; concepts of man and work; motivation and morale; training; labor-management relations; contemporary issues. Offered Fall, Spring

**PUB 304. Administration of Public Policy. (3 Units)**

Policy decisions and their implementation and evaluation, relationship of the branches of government and characteristics of bureaucracy. Offered Fall, Spring, Summer

**PUB 305. Applied Statistics in Public Administration. (3 Units)**

Prerequisite: MAT 131. Role and application of statistical analysis in public management; review of mathematics and statistical functions; use of statistics in planning and decision-making functions; introduction to the uses and application of computer technology. Offered Fall, Spring, All terms

**PUB 306. Research Methods in Public Administration. (3 Units)**

Introduction to research methods in social science and their application in public administration, including formulating research questions, reviewing literature, designing data collection processes, describing sample and population, conducting statistical analysis and writing research papers. Offered All terms

**PUB 307. Public Sector Ethics. (3 Units)**

Introduction to government ethics, providing opportunities to develop ethical competence for careers in government and serves as a foundation for further study of government ethics. Offered All terms

**PUB 314. Compensation, Staffing, and Appraisal. (3 Units)**

Prerequisite: PUB 303 or MGT 313. Review of concepts, approaches and techniques used to develop compensation programs in public organizations. Emphasis will be upon practices, legal requirements and guidelines for these specialized areas of personnel management. Offered Fall, Spring, Summer

**PUB 315. Labor-Management Relations in Government. (3 Units)**

Developments in public employee unionization, collective bargaining laws and strategies, bargaining as a technical and political process, strikes and impasse machineries, employee organizations and public policy, administrative implication of public service unionism. Offered Fall, Spring

**PUB 324. Analytic Decision-Making. (3 Units)**

Analytic and quantitative approaches to planning, evaluation, and decision-making; rational decision-making process as analytic framework for comparing alternative public policies and actions; public sector applications of selected quantitative methods, such as forecasting and cost-benefit analysis. Offered Fall, Spring

**PUB 329. Local Government Administration. (3 Units)**

Introduction to the history, theory and practice of U.S. local government administration, including the changing structure, forms, and functions of local governments; the dynamics of intergovernmental, intersectoral, and interpersonal relationships; the tools and strategies that contribute to effective local government management and solution of problems. Offered All terms

**PUB 330. Urban Administration. (3 Units)**

Structures and processes of administrative agencies in the urban setting, interagency relationships, administration of urban public services, functions and problems of the urban public executive. Offered Fall, Spring

**PUB 371. Introduction to Health Services Administration. (3 Units)**

Basic administrative practices; concepts and theory of administration; role and responsibilities of management in planning, organizing, directing and controlling a health services program; examination of current policy issues; study of public policy formulation process; politics as a force of change. Offered Fall, Spring

**PUB 373. Health Policy. (3 Units)**

Examination of current issues, trends, and problems in health care, including public policy on the national, state and local community levels. Emphasis will be given to the changing nature of medical care delivery, the policy formation process, professional dominance, and new developments in organizational forms. Offered Fall

**PUB 400. Process & Pract of Pub Ad. (2.7 Units)**

Offered All terms

**PUB 401. Economics for Public Service. (3 Units)**

Introduction to the economics concepts for those interested in a career in public service. This course explores the economic principles behind societal problems and offers insights into how to solve them; how markets and prices allocate scarce resources to achieve efficiency and prosperity; discuss how markets can fail, and what the public can do to intervene and solve these market failures to improve social welfare. Offered All terms

**PUB 403. Theory & Design of Pub Ad. (2.7 Units)**

Offered All terms

**PUB 407. Analytical Methods In Public Administration. (2.7 Units)**

Offered All terms

**PUB 410. Administration & Public Policy Analysis. (2.7 Units)**

Offered All terms

**PUB 426. Intergovernmental Relations and Grant-Writing. (3 Units)**

Analysis of financial and administrative relationships between different levels of government and between the public, non-profit, and private sectors. Discussion of developments in grants-in-aid, grantmanship strategies, grants management, resource development and evaluation. Application of knowledge through a grant proposal writing project. Offered Spring

**PUB 434. Administrative Planning. (3 Units)**

A review of the techniques of administrative planning to include normative forecasting, planning and policy formation. The future environment of government services to include demands and resources will be explored within the framework of systems analysis and policy sciences. Offered Fall, Spring

**PUB 450. Nonprofit & Voluntary Sector. (3 Units)**

Provides broad overview of the sector, its origin, size, composition, and role in American Society and elsewhere. This course also reviews theories of the sector and its conceptual underpinnings (i.e., its philosophical, political, economic, and social basis in American society) in some depth along with historical and religious foundations. We will also look at such issues as why people organize, give financial support and donate time. Offered Fall, Spring

**PUB 451. Managing the Nonprofit Organization. (3 Units)**

Prerequisite: PUB 450 (recommended). This course aims to understand the important role of nonprofit organizations in American society and the growing impact of non-governmental agencies around the world. It addresses the opportunities for and challenges to organizational effectiveness and is designed to reflect the interests and needs of nonprofit staff, board members, volunteers, and those who are seeking to make an impact with their financial contributions.

Offered Fall

**PUB 452. Fundraising & Fund Development. (3 Units)**

Prerequisites: PUB 450; PUB 451 (recommended). This course examines key aspects of the fundraising process for nonprofit organizations- major theoretical foundations and general fundraising principles as well as a variety of fundraising techniques, sources of donations, and aspects of managing the fundraising process. The course combines applied and conceptual readings and provides students with opportunities to apply concepts and techniques through a series of service-learning portfolio assignments in collaboration with area nonprofit organizations.

Offered Infrequent

**PUB 490. Senior Seminar in Public Administration. (3 Units)**

Prerequisite: Senior status. Integrative course emphasizing application of administrative concepts and principles through use of case study analyses and simulation. Based upon student interest, course may be structured to address specific concentration areas. Three hours of seminar per week.

Offered Fall, Spring

**PUB 494. Independent Study. (1-3 Units)**

Prerequisite: Consent of department chair. Independent investigation of a research problem or directed readings in a selected area of public administration. CR/NC grading.

Offered Fall, Spring, Summer

**PUB 495. Special Topics. (1-3 Units)**

Prerequisite: Consent of instructor. An intensive study of an issue, concept or administrative technique that is of interest to both students and faculty of public administration.

Offered Fall, Spring

**PUB 496. Internship Practicum. (3 Units)**

Prerequisite: Consent of department chair. Supervised internship in a public agency. A written project related to the internship experience is required. CR/NC grading.

Offered Fall, Spring

**PUB 498. Directed Research in Pub Admin. (1-3 Units)**

Prerequisite: Consent of instructor. The student develops and completes an individual study under faculty supervision. Repeatable course

Offered Infrequent

**PUB 500. Environment and Practice of Public Administration. (3 Units)**

History and development of the field of public administration, and the context of operations and the functions of management. The practice of management will focus on the political environment, management theory, planning, organizational structure, resources, decision-making and policy analysis.

Offered Fall, Spring

**PUB 501. Public Management. (3 Units)**

Structural overview of the functioning and skill requirements for contemporary managers in public and nonprofit sectors; examination of the basic management functions from a comparative perspective; emphasis on communication and critical thinking through action-based approaches.

Offered Fall, Spring

**PUB 502. Administrative Theory and Behavior. (3 Units)**

Prerequisites: PUB 500 and PUB 501 are recommended. Historical overview of Organizational Theory and Public Administrative Theory and analysis of the theoretical perspectives that have characterized these fields; discussion of various theories, concepts, and models that can be used to analyze organizations and to improve organizational effectiveness.

Offered Fall, Spring

**PUB 503. Introduction to Research Methods in Public Administration. (3 Units)**

Introduction to empirical research design in the social sciences, and public administration in particular. Students will learn to assess the use of both qualitative and quantitative research in social sciences and discuss the epistemological principles that underlie different approaches to research.

Offered All terms

**PUB 504. Quantitative Methods in Public Administration I. (3 Units)**

The first course in a two-course sequence on quantitative methodology in Public Administration (the subsequent course is PUB 505). The goal of this two-course sequence is to explore a variety of statistical methods that are useful for managerial planning, decision-making, and public policy analysis.

Offered Fall, Spring

**PUB 505. Quantitative Analysis in Public Administration II. (3 Units)**

Required Prerequisite: PUB 504. This is the second course in a two-course sequence on quantitative methodology in Public Administration (the previous course is PUB 504). The goal of this two-course sequence is to explore a variety of statistical methods that are useful for managerial planning, decision-making, and public policy analysis.

Offered Fall, Spring, Summer

**PUB 506. Administration and Public Policy Analysis. (3 Units)**

Prerequisite: PUB 505. Application of analytical tools to the solution of public management problems, introduction to general models of policy analysis, integration of solutions into administrative processes in government; policy studies cases.

Offered Fall, Spring

**PUB 508. Public Human Resources Management. (3 Units)**

Managing the human resources of a public agency with emphasis on selected activities of recruiting, staffing, evaluating, compensating, motivating and training the work force. Procedures and legal requirements for collective bargaining, affirmative action, and equal opportunity will be explored. Three hours of seminar per week.

Offered Fall, Spring

**PUB 510. Public Budgeting. (3 Units)**

Examination of methods, processes and problems in the budgeting and administration of public revenues, revenue generation, forecasting, cost control; emphasis on the political, economic and managerial aspects of public budgeting.

Offered Fall, Spring

**PUB 512. Foundations of Ethical Administration. (3 Units)**

Examination of the foundations of ethical administration, including evaluation and application of ethical theories to public sector issues. Course provides opportunities for students to think reflectively, recognize ethical problems, and gain skills to effectively deal with political and administrative problems.  
Offered Fall, Spring

**PUB 520. Leadership in the Public Sector. (3 Units)**

Prerequisites: PUB 501 and PUB 502 are required. Overview of the theoretical and practical foundations of leadership in the public sector. Emphasizes the knowledge and skills needed to effectively lead within public and nonprofit organizations.  
Offered Fall, Spring

**PUB 522. Financial Management in the Public Sector. (3 Units)**

Prerequisite: PUB 510. Course offers survey of financial management functions in state and local government such as accounting, fund structures, debt and cash management, and financial reporting. Course provides a theoretical and practical introductions to financial analysis and management in the public sector.  
Offered All terms

**PUB 524. Strategic Management and Planning in Public and Non-Profit Organizations. (3 Units)**

Course aims to prepare current and future managers of public and/or non-profit organizations by focusing in the knowledge, skills, values, and perspectives needed to manage organizations strategically. The course provides an introduction to the theory and application of strategic planning and management in the public and non-profit sectors.  
Offered All terms

**PUB 526. Collab Governance. (3 Units)**

Course examines theoretical foundations and practical models of collaborative management in local government. Students will collect and review relevant literature fro inter-government relations, public management, and public/private partnerships, and apply findings to a policy issue in local government.  
Offered All terms

**PUB 527. Fundamentals of Qualitative Research. (3 Units)**

Prerequisite: PUB 500 is required. Introductory course on the most important concepts and methods of qualitative research. Involves reading and discussion of presentations and examples of qualitative research and a qualitative research project.  
Offered Spring

**PUB 528. Economics for Public Managers. (3 Units)**

This course aims to demystify economics for managers in the public and nonprofit sectors. This course will provide you with the economic principles to better analyze and understand problems facing public managers. You will learn why markets can be so successful in allocating scarce resources and achieving efficient market and social welfare outcomes. You will learn how individuals, firms and government, as producers, consumers, and regulators, interact at the microeconomic level, and why macroeconomic concepts such as inflation, unemployment, economic growth, interest rates, and are important to understand. You will also learn how governments can intervene to solve market failures and hence improve social welfare.  
Offered All terms

**PUB 570. Administration of Health Care Organizations. (3 Units)**

This course will examine issues associated with health care management responsibilities, functions and leadership. This course will analyze the administrative process, accountability, equity, ethics, and diversity issues in health care administration.  
Offered Fall, Spring

**PUB 572. Legal Issues in Health Care Administration. (3 Units)**

This course defines the foundation, scope, and boundaries of health care policy with an emphasis on public health care systems and the Patient Protection and Affordable Care Act. Students will explore the differences between local, state, and federal health policy levels.  
Offered Fall, Spring

**PUB 574. Health Care Financial Management. (3 Units)**

This course provides a comprehensive overview of the financial structure, market forces, and techniques in health care financial management. The courses is intended for students without a background in financial management.  
Offered Fall, Spring

**PUB 580. Nonprofit Leadership and Management. (3 Units)**

Prerequisites: PUB 500 and PUB 501 are recommended. Provides an overview of the nonprofit sector and addresses leadership and management issues. Emphasizes the context, institutional setting of the sector and nonprofit governance, leadership, ethics, marketing, strategic communications, advocacy, lobbying, program evaluation and human resource management.  
Offered Fall, Spring

**PUB 582. Public and Nonprofit Financial Management. (3 Units)**

Prerequisite: PUB 510 is required. Examines financial management functions in government and nonprofit organizations, such as financial planning, accounting, cost control, fund structures, debt and cash management, financial reporting, and financial trend monitoring.  
Offered Fall, Spring

**PUB 584. Fundraising and Development for Nonprofit Organizations. (3 Units)**

Prerequisites: PUB 500 and PUB 502 are required. Examines key aspects of the fundraising process, techniques and management, such as sources of donations, planning, development, fund goal-setting, major gifts, capital campaigns, trustee participation, and managing the fundraising process.  
Offered Fall, Spring

**PUB 592. Capstone: Integrative Seminar in Public Administration. (3 Units)**

Prerequisite: Completion of MPA Core courses. Integrative course that emphasizes the interrelationships between the academic field of public administration and administrative practice. Course includes case study analysis and individual and group integrative projects. Three hours of seminar per week.  
Offered Fall, Spring

**PUB 594. Independent Study. (1-3 Units)**

Prerequisite: Consent of MPA Program coordinator. Independent investigation of a research problem or directed readings in a selected area of public administration. CR/NC grading. Repeatable course.  
Offered Fall, Spring

**PUB 595. Special Topics In Public Administration. (3 Units)**

Prerequisite: Consent of MPA Program coordinator. Intensive study of a specialized area of Public Administration (e.g., Urban Administration, Criminal Justice Administration) or a selected topic in contemporary public management. Three hours of seminar per week. Repeatable course.

Offered Fall, Spring

**PUB 596. Internship Practicum. (3 Units)**

Prerequisite: Consent of MPA program coordinator. Supervised internship working with a cooperating government agency in a function germane to public administration. Sessions are held to discuss and analyze the problems with which interns are concerned. A written project related to the internship is required. CR/NC grading.

Offered Fall, Spring

**PUB 599. Honors Thesis. (3 Units)**

Prerequisites: Grade point average greater than 3.80 and consent of MPA program coordinator. Thesis relating to public administration. CR/NC grading.

Offered Fall, Spring

**PUB 600. Grad Continuation Course. (1 Units)**

Graduate students who have completed their coursework but not their thesis or comprehensive examination, or who have other requirements remaining for the completion of their degree, may maintain continuous attendance by enrolling in this course. Signature of the MPA coordinator required.

Offered Fall, Spring

## Pupil Personnel Services (PPS)

**PPS 501. Leadership in School and College Counseling. (3 Units)**

Required Co-requisite: PPS 525. This course examines the roles of the counselor within the field of school and college counseling, including the counselor as leader and advocate for students, community, and the counseling profession. Leadership and professionalism will be explored against the context of the history and foundations of the profession, the core requirements necessary to become school and college counselors, and the various employment opportunities and settings in educational counseling.

Offered Fall

**PPS 505. Human Diversity. (3 Units)**

Examines the counselor's role in serving diverse student populations within educational systems, including implicit and explicit bias; understanding one's impact upon cross-cultural relationships; and the necessity for social justice and advocacy by counselors. Restricted to majors.

Offered Fall, Spring

**PPS 508. Law and Ethics in Educational Counseling. (3 Units)**

Examines ethical, legal and professional issues in educational counseling, as well as implications for minority group and cross-cultural counseling.

Offered Fall

**PPS 512. Consultation and Collaboration in Counseling. (3 Units)**

Prerequisite: GED 500 and PPS 525. Prepares counseling students to apply knowledge of theories, models, and processes of consultation and collaboration. Students will develop communication, interpersonal, and problem-solving abilities to work with teachers, administrators, families, and other community professionals. Restricted to majors.

Offered Fall

**PPS 515. Counseling Theories. (3 Units)**

Examines major theories within the counseling field in relation to individual personality and development, with a focus on application to school and college settings. Restricted to majors.

Offered Spring

**PPS 520. Program Development and Evaluation in Counseling. (3 Units)**

Training in the development, implementation, and evaluation of counseling programs within schools and colleges, including the use of needs assessments, testing, and data to improve student outcomes. Restricted to majors.

Offered Fall, Spring

**PPS 525. Group Dynamics and Personal Growth. (3 Units)**

Provides a personal growth experience for students based on readings and group participation. The experiential aspects of the course will provide the basis for an analysis of group dynamics and application of techniques for understanding self and others, as well as developing good interpersonal skills. CR/NC grading. Non-Repeatable. Restricted to majors.

Offered Fall

**PPS 530. Seminar in Individual Counseling. (3 Units)**

Prerequisite: PPS 525. An advanced course in counseling techniques appropriate for use in educational and community settings. Students will practice various counseling techniques used to establish a positive relationship with clients and assist them in making desired life changes. Three hours of seminar per week. Restricted to majors.

Offered Fall, Spring

**PPS 535. Seminar in Career and Academic Counseling. (3 Units)**

Provides knowledge and skill in career and academic counseling, with emphasis on the roles of the high school and college counselor in student advisement. Includes overview of college admissions advisement, transfer requirements, computer applications for academic and vocational information, and career theories and assessments. Restricted to majors.

Offered Fall, Spring

**PPS 536. Foundations of College Counseling. (3 Units)**

Prerequisite: PPS 525 is required. Examines the role of the college counselor within higher education and provides a conceptual and historical overview of student development, including student affairs, student services and special populations.

Offered Spring

**PPS 537. College Counseling Practicum. (3 Units)**

Prerequisite: PPS 525 is required. Supervised practice in the varying functions of college counseling, including field based experiences providing academic, personal/social, and career counseling on a college campus. CR/NC grading.

Offered Fall, Spring

**PPS 538. Fieldwork in College Counseling. (3 Units)**

Prerequisites: PPS 525, PPS 530, PPS 535, PPS 536 and PPS 537 are required. Advanced field experience directly related to the functions and responsibilities of college counselors. Experience a minimum of two different settings within a college campus is required. CR/NC grading. Repeatable for credit.

Offered Spring

**PPS 540. Sem: Tech Group Counsl. (3 Units)**

Prerequisites: PPS 515 and PPS 530. An advanced course in group counseling techniques appropriate for use in educational and community settings. Developmental issues as they relate to counseling. Approaches for remedial and preventive counseling. Three hours of seminar per week. Offered Fall, Spring

**PPS 545. Comprehensive School Counseling. (3 Units)**

Prerequisites: GED 500 and PPS 525 are required. Examines the fundamental elements of a comprehensive school counseling program as aligned to the national school counseling model. Prepares counselors to provide direct and indirect services in K-12 schools, including prevention and intervention strategies, responsive services, and data-driven decision-making. Restricted to majors.

Offered Spring

**PPS 550. Crisis Intervention in Educational Settings. (3 Units)**

Prerequisites: GED 500 and PPS 525. Intensive training in prevention/intervention strategies for educational and community settings with an emphasis on reducing risks associated with violence and crisis.

Offered Spring

**PPS 554. School Counseling Practicum. (3 Units)**

Prerequisites: GED 500 and PPS 525. Supervised practice using individual and group counseling interventions for academic, social, emotional, and behavioral problems of children and youth. Candidates participate as leaders of simulated student study teams. CR/NC grading. Three hours of seminar per week.

Offered Fall, Spring

**PPS 555. Child Welfare and Attendance Fieldwork. (3 Units)**

Co-requisites: PPS 557 and PPS 558 are required. Field experience directly related to the functions and responsibilities of Child Welfare and Attendance counselors. Students will work with pupils to apply and implement school attendance improvement strategies and truancy intervention measures and procedures. CR/NC grading.

Offered All terms, Infrequent

**PPS 556. Funct Analy and Behvr Chng. (3 Units)**

Prerequisites: PPS 512 and PPS 564. In this advanced course, candidates apply behavioral theory in the analysis of the antecedents, consequences, and functions of serious behavior problems from an ecological perspective. Procedures for designing, implementing and evaluating the effectiveness of academic and/or behavioral accommodations or intervention programs are an emphasis in this course, as are the creation of positive interventions, and the teaching of replacement behaviors based on legal mandates.

Offered Infrequent

**PPS 557. Child Welfare and Attendance. (3 Units)**

Prerequisites: PPS 554 is required. Co-requisites: PPS 558 is required. Provides an overview of the professional, legal, and ethical responsibilities of Child Welfare and Attendance counselors, including program leadership, collaboration and partnerships, and assessment and evaluation of barriers to student learning and attendance. Fieldwork component is required in public school and agency settings. CR/NC grading. Restricted to majors.

Offered Fall

**PPS 558. School Attendance Improvement and Truancy Remediation: Prevention and Intervention. (3 Units)**

Prerequisites: PPS 554 is required. Corequisite: PPS 557 is required. Examines strategies for Child Welfare and Attendance counselors to remove barriers to student learning and improve school attendance, with a focus on intervention support for students and families. Fieldwork component is required in public school and agency settings. CR/NC Offered Fall

**PPS 559. Assessment Theory and Techniques for Linguistically and Culturally Different. (3 Units)**

Prerequisites: SPE 560, SPE 460 and PPS 520. Theories and techniques for assessing pupils with diverse cultural and linguistic backgrounds. Issues related to second language development, bilingual, cognitive language development and socio-linguistic factors affecting language usage. Three hours of seminar per week.

Offered Infrequent

**PPS 560. MS Counseling Capstone Requirement. (3 Units)**

An advanced course in fulfillment of the culminating requirement for the master's degree in counseling. Students will demonstrate competency in the application of comprehensive counseling content and skills through action research, oral, written analyses.

Offered Spring

**PPS 562. Practicum in School Psychology I. (3 Units)**

Prerequisites: PPS 520 is required. Administration, scoring and beginning interpretation of tests of psychological processing and ability/cognition as well as alternative instruments and measurements. Candidates demonstrate appropriate assessment practices through supervised practice. Experiences shadowing credentialed school psychologists and providing service learning within the public school setting is required for 150 hours or more.

Offered Infrequent

**PPS 564. Seminar in Multicultural Educational Assessment and Evaluation. (3 Units)**

Prerequisite: PPS 520 and PPS 562. Interpretation of ecological evaluations for pupils from diverse backgrounds with an emphasis on cross validation of results. Observations, review of records, interviews, and assessment results are considered when complete psycho-educational evaluations are written and orally presented with recommendations, goals and objectives.

Offered Infrequent

**PPS 566. Practicum in School Psychology II. (3 Units)**

Prerequisite: PPS 520, PPS 530, PPS 562 and PPS 564. Preschool Assessment and experience with additional standardized and alternative methods appropriate for school aged children. Presentation of cases for simulated IEP meetings. Advanced experiences shadowing school psychologists and service learning within the public schools brings practica total to 450 hours.

Offered Infrequent

**PPS 571. Multicultural Case Study Methods in School Psychology. (3 Units)**

Prerequisites: PPS 520, PPS 562 and PPS 564. Issues related to second language development and the assessment of English Language Learners are applied in case studies. Appropriate selection of ecological evaluations, recommendations, and standards based goals continue for a variety of eligibility categories. Simulated IEP meetings require oral presentation.

Offered Infrequent



**PPS 572. Assessment and Intervention for Autism, Emotional, and Behavior Disorders. (3 Units)**

Prerequisites: PPS 512 and PPS 564. Differential diagnosis of Autism, emotional disturbance and behavioral disorders. Administration and interpretation of assessments appropriate for these disabilities. Specialized interventions such as discrete trial, social stories, TEACCH, and floor time are an emphasis. Classroom observations for specialized classroom management approaches and motivational systems. Offered Fall

**PPS 575. Fieldwork in School Counseling. (6 Units)**

Prerequisite: Consent of instructor. Supervised school counseling field experience in a minimum of two different public school settings. Fieldwork candidates will gain direct counseling practice working with students, families, and school personnel to address the academic, socio-emotional, and career needs of students. CR/NC grading. Repeatable course.

Offered Fall, Spring

**PPS 576. ADV Research Meth School Psych. (3 Units)**

Prerequisite: GED 500. Review and critique of educational research and the major approaches to educational research for the School Psychologist. Proposals for action research projects and program evaluations are created which may be later implemented during thesis projects and or credential internship or fieldwork.

Offered Infrequent

**PPS 577. Internship in School Counslg I. (3 Units)**

Prerequisites: consent of instructor. For students with arrangements with the public schools for emergency credential. A beginning experience in the field as a certified school counselor in multicultural settings at the elementary or secondary level.

Offered Infrequent

**PPS 578. Internship in School Counslg II. (3 Units)**

Prerequisite: PPS 577. An advanced experience in the field as a certified school counselor. Arrangements completed with public schools for emergency credentials.

Offered Infrequent

**PPS 585. Fieldwork School Psych. (3 Units)**

Prerequisite: Consent of instructor. Supervised training in elementary and secondary school settings. Students must complete a minimum of 90 days of fieldwork and meet competency requirements in psycho-educational assessment, planning and evaluation, counseling, consultation, and behavior management. Course is repeatable for credit until all competencies are completed. CR/NC grading. Repeatable course.

Offered Infrequent

**PPS 595. Special Topics. (3 Units)**

Prerequisite: PPS 536 is recommended. Restricted to majors. Topics vary by section and semester. See class schedule for title and prerequisites.

Repeatable course. Three hours of seminar per week.

Offered As needed

## Quality Assurance (QAS)

**QAS 200. Fundamentals of Quality. (3 Units)**

A study of the fundamentals of Quality with an emphasis on the current international standards, planning, organizations, methods and tools. Emphasizes the works of leading international Quality theorists, especially Juran and Deming.

Offered Fall, Spring, Summer

**QAS 220. Fundamentals of Measurement Science. (3 Units)**

Prerequisites: MAT 131. Introductory overview of the fundamentals of measurement with emphasis on application of measurement science concepts to quality management. Upper Division

Offered Fall, Spring, Summer

**QAS 312. Interpretation of Technical Documentation. (3 Units)**

Prerequisites: MAT 153, QAS 200, QAS 220. Interpretation of basic engineering drawing concepts, including all related common symbolism and formatting. Emphasis on dimensions, tolerances, and configuration management. Introduction to Military and Federal Specifications/ Handbooks, ANSI, IEC, and ISO documents, specifications and recommended practices issued by private organizations.

Offered Spring

**QAS 325. Technical Communications. (4 Units)**

Prerequisites: ENG 110, THE 120. Technical communications, written and oral, and how they differ from non-technical writing and speech. Emphasizes methods for the positive and unambiguous transfer of technical ideas so that they can be clearly understood by the reader or listener.

Offered Summer

**QAS 330. Statistical Quality Control and Inspection. (3 Units)**

Prerequisites: MAT 131, QAS 200, QAS 220. Introduction to the application of statistical methodologies to the analysis and solution of quality and management problems (including probability concepts, control charts, and sampling). Focus will be on application of these tools to the inspection process.

Offered Fall

**QAS 331. The Manufacturing Process. (3 Units)**

Prerequisites: QAS 312. Introduction to the fundamentals of manufacturing, where the conversion of raw materials and sub-assemblies into more useful entities adds value to the converted materials in the most efficient manner, using the least amount of time, money, space and manpower.

Offered Fall

**QAS 332. Electrical Metrology. (3 Units)**

Prerequisites: MAT 131, PHY 122, QAS 200, QAS 220. Electrical measurement concepts, circuits and devices; applications to DC and AC measurements. Theory of coupled circuits in magnetic and capacitive environments, and electrical laboratory practices, with analysis, construction, and troubleshooting of circuits. Documentary control procedures for calibrations and other measurements.

Offered Spring

**QAS 335. Quality Auditing. (3 Units)**

Prerequisites: QAS 200. The fundamental principles for preparing and planning, conducting, reporting and closing quality audits. Quality audit tools and techniques are introduced, with an emphasis on generally-accepted quality audit practices that support business performance.

Offered Fall

**QAS 340. Measurement Uncertainty. (3 Units)**

Prerequisites: MAT 131, MAT 153, QAS 200, QAS 220. Theoretical versus actual measurements. Probability and statistical concepts to define accuracy, precision, error, uncertainty, and bias. Differences between measurement accuracy and measurement error; random and systematic error; uncertainty interval; tolerance limits; accuracy ratio; relative errors; and propagation of measurement errors.

Offered Spring

**QAS 347. Dimensional Metrology. (3 Units)**

Prerequisites: PHY 122, QAS 200, QAS 220. Measurement of length, angularity, relative position, flatness, parallelism, concentricity, squareness, and threads. Lasers and optical tooling in large-scale measurements; also gauges, comparators, and measurement machines. Measurement uncertainties pertinent to dimensional metrology; sources of error; the effect of the measurement environment.  
Offered Infrequent

**QAS 350. Physical Metrology. (3 Units)**

Prerequisites: PHY 122, QAS 200, QAS 220. Theoretical and practical applications of measurement principles as applied to various physical properties. Measurement of pressure, mass, force, torque, temperature, humidity, flow, and rotational motion. Identifying sources of error, techniques to minimize errors and maintaining measurement traceability.  
Offered Infrequent

**QAS 355. Safety and Reliability. (3 Units)**

Prerequisites: MAT 131, MAT 153, QAS 200, QAS 220. Reliability, maintainability, and safety technology with practical industrial applications. Basic models; metrics; testing; methods of implementing improvements; accelerated life testing. Failure mechanisms for chemical, electro-chemical, electronics, electro-mechanical and opto-electronics systems. Introduction to software reliability. Focus on qualification for ISO 9000.  
Offered Spring

**QAS 360. Fundamentals of Lean Manufacturing. (3 Units)**

Prerequisites: QAS 200, QAS 220. Deals with the strategies and practices of lean production, as well as assess with areas of waste, interrelationships among the various components of a system, theories of leadership and management of people, and process variation.  
Offered Spring

**QAS 395. Selected Topics in Quality Assurance. (1-4 Units)**

Prerequisite: Consent of Instructor. An intensive study of an issue, concept, or theory in Quality Assurance that is of special interest to both the faculty member and the student. Repeatable course.  
Offered As needed

**QAS 427. Quality Improvement. (3 Units)**

Prerequisites: QAS 200, QAS 220. Quality factors involving customer satisfaction, demonstrating that meeting quality needs requires an active role by all the major sectors of an organization. Operational and statistical techniques most often used to monitor, control, and improve the quality of products or services.  
Offered Fall

**QAS 445. Systems Failure Analysis. (3 Units)**

Prerequisites: QAS 200 and QAS 220. Integrates Quality, Manufacturing and Procurement efforts to identify and eliminate the root causes of failures in systems, sub-systems and components, emphasizing fault tree and Pareto analyses. Hardware and statistical analysis, design of experiments, and technical data package evaluations.  
Offered Fall

**QAS 450. Value Based Quality. (3 Units)**

Prerequisites: QAS 200, QAS 220 and consent of instructor. Used value received, as perceived by the customer, as the primary measure of quality in the development of cohesive enterprise-wide quality management systems. A systemic approach to establishing the correct things to do and a measurement-based process for implementation.  
Offered Spring

**QAS 494. Independent Study. (1-3 Units)**

Prerequisites: Consent of instructor. Independent study of a particular problem under the direction of a member of the Quality Assurance Department. Repeatable course.  
Offered Infrequent

**QAS 495. Selected Topics in Quality Assurance. (1-4 Units)**

Prerequisites: Consent of instructor. An intensive study of an issue, concept, or theory in Quality Assurance that is of special interest to both the faculty member and the students. Repeatable course. Three hours of lecture per week.  
Offered Fall, Spring

**QAS 496. Internship in Quality Assurance. (3 Units)**

Prerequisites: Completion of all 300 level courses in the major. Assignment in an off-campus internship with a cooperating organization, to be selected in consultation with the program coordinator. Emphasis on the role of professionalism and ethics in the life of the quality professional.  
Offered Infrequent

**QAS 498. Directed Research in Q.A.. (3 Units)**

Prerequisites: Completion of all 300 level courses in the major. Directed research on one or more topics to be selected in consultation with the program coordinator. Emphasis on the role of professionalism and ethics in the life of the Quality professional.  
Offered Fall, Spring

**QAS 499. Senior Project. (3 Units)**

Prerequisites: QAS 496 or QAS 498. A capstone project focusing on the role of leadership in relation to professionalism and ethical standards in the field of Quality Assurance. Graduate  
Offered Fall, Spring

**QAS 510. Advanced Probability and Statistics. (3 Units)**

Prerequisites: undergraduate calculus, Probability and statistics. A study of measures of central tendency and dispersion, important discrete and continuous probability distributions, sampling theory, hypothesis testing and estimation. Linear regression and correlation will also be covered. The uses of statistics in testing, inspection, and production will be identified.  
Offered Fall, Spring

**QAS 511. Quality Function Management and TQM. (3 Units)**

A study of the functions and responsibilities of the quality organization. TQM concepts, quality function deployment, and the tools for continuous improvement are analyzed for sequence of use and development.  
Offered Fall, Spring, Summer, All terms

**QAS 512. Reliability. (3 Units)**

Prerequisite: QAS 510. Overview of reliability engineering. Use of mathematical models of predictions, confidence assessment, and systems reliability. Emphasis on practical applications for product or system design.  
Offered Fall

**QAS 513. Statistical Quality Control and Sampling. (3 Units)**

Prerequisite: QAS 510. The application of advanced statistical methodologies to the analysis and solution of quality and management problems, including probability theory, control charts, sampling, regression analysis and the design of experiments. Focus on statistical process control and related quality technologies.  
Offered Fall, Spring, Summer

**QAS 514. Advanced Experimental Design. (3 Units)**

Prerequisite: QAS 510. Analysis of statistical experimental design strategies. Planning of experiments for the best strategy and objectives. Offered Fall, Spring, Summer

**QAS 515. Human Factors in Quality Assurance. (3 Units)**

A comprehensive survey of human factors engineering theory, research and applications which are of particular relevance to quality assurance. A systems framework will be utilized, emphasizing feedback and interrelations among system components, including the human operator. Emphasis will be placed on operator constraints in the design of work processes, workplaces and instrumentation. Offered Fall, Spring, Summer

**QAS 516. Measurement and Testing Techniques. (3 Units)**

Prerequisite: QAS 510 or consent of instructor. In-depth discussion of equipment, principles and techniques of measurement assurance. Offered Fall, Spring, Summer

**QAS 518. Quality Project Management and Productivity. (3 Units)**

An in-depth examination of current theory and techniques in QA project management. Topics include description of project management techniques as well as procedures for evaluating their overall effectiveness and contributions to production and service quality. Offered Fall, Spring, Summer, All terms

**QAS 521. Process Control and Capability. (3 Units)**

Prerequisites: QAS 513 and QAS 514. Detailed study of procedures and methods for performing machine and process capability studies, troubleshooting production and test problems, and maintaining continuous production and process evaluation in manufacturing operations. Offered Infrequent

**QAS 522. Applied Systems Reliability, Maintainability and Safety. (3 Units)**

Prerequisite: QAS 512. Advanced and detailed analysis of appropriate reliability models, life-cycle reliability prediction and assessment, accelerated test models and techniques, test parameter variation studies, test tailoring and program plans for various reliability test types, maintainability concepts, prediction and assessment techniques, and safety programs. Offered Infrequent

**QAS 523. Software Reliability. (3 Units)**

A study of the theory and applications of reliability concepts as they relate to software design and implementation. Offered Fall

**QAS 525. ISO 9000 & The Audit Function. (3 Units)**

Prerequisite: QAS 511 is recommended. A study of the ISO 9000 series of quality system standards with emphasis on manufacturing and service industry applications. The studies address the standards interpretation, documentation and implementation including preparation for and creation of internal and external audits. Offered Fall

**QAS 526. Supplier Quality Assurance. (3 Units)**

Prerequisite: QAS 511. Encompasses a study of the fundamental quality requirements attendant to the successful procurement and delivery of end item products or services. It includes the basic supplier issues of specifications, site inspection, selection, rating, certification, and related quality audits. Offered Spring

**QAS 527. Quality Measurement. (3 Units)**

Prerequisite: QAS 511. Study of Quality Metrics and their application throughout the life cycle of a product or service in a business entity. The study includes Quality Standards, Customer Satisfaction, Quality Tools, Continuous Improvement, Cost of Quality, Supplier and System auditing. Offered Summer

**QAS 530. Statistical Quality Control (SQC) for Service Professionals. (3 Units)**

Techniques for applying Statistical Quality Control (SQC) in controlling processes and delivering customer services. Examines methods for establishing and maintaining SPC, QC auditing and sampling and continuous improvement in various service industries. Offered Fall, Spring

**QAS 531. Customer Satisfaction and Quality Assurance. (3 Units)**

In-depth study of current methods for obtaining customer satisfaction. Examines techniques of determining customer needs and development of customer service strategy Quality Control criteria. Offered Fall, Spring

**QAS 532. Quality Assurance of the Service Delivery Process. (3 Units)**

Analyze processes used to deliver service and methods used to assure satisfaction. Examines the relationship of Strategic Quality Planning, the Delivery process, and the usage of TQC and Quality Assurance to achieve strategic goals. Offered Fall, Spring

**QAS 534. Change Management. (3 Units)**

Prerequisite: QAS 511 is recommended. In depth analysis of current theory, empirical research and best practices related to effective implementation of Quality improvement methodologies that result in desired organizational change, both cultural and operational. Offered Summer

**QAS 535. Lean Manufacturing. (3 Units)**

Prerequisite: QAS 511 is recommended. In depth study of the theory and practices of lean production. Covers waste minimization, interrelationships among various components of a system, theories of leadership and management, and process variability reduction. Offered Spring

**QAS 536. Six Sigma Principles and Applications. (3 Units)**

Prerequisite: QAS 510 OR QAS 511 are required. QAS 511 is recommended. In depth study of the application of the six sigma process; covers content of the methodology areas of Define Measure, Analyze, Improve and Control (DMAIC) including team concepts, project management, advanced statistical process control and techniques, and measurement systems analysis. Offered Summer

**QAS 537. Quality Function Deployment: Understanding Customer Requirements. (3 Units)**

Prerequisite: QAS 511 is recommended. In depth study of the theory and application of the quality management process, Quality Function Deployment, for designing customer requirements into products and services. Course will evaluate the tools of QFD and study their application in analysis of customer requirements. Offered Summer

**QAS 538. Evaluation and Outcome Analysis for Healthcare Delivery. (3 Units)**

Examines operational and statistical techniques used to monitor, control, and improve the quality of services provided by healthcare. Considers the tools of Quality and their direct application to practical situations and healthcare processes.

Offered Spring

**QAS 539. Good Manufacturing Practices. (3 Units)**

Prerequisite: QAS 511 is recommended. Current Good Manufacturing Practice regulations to assure quality of medical devices and pharmaceutical products. Covers development, manufacturing, Quality management and organizational requirements of medical devices. Pharmaceutical regulations include personnel, facilities and equipment, process and product controls, laboratory and reporting.

Offered Spring

**QAS 540. Food and Drug Law. (3 Units)**

Prerequisite: QAS 511 is recommended. This course is designed to provide a practical interpretation of the food and drug laws and interpretations for professionals who are providing products or services in industries regulated by the Federal Food & Drug Administration.

Offered Spring

**QAS 541. Biomedical Quality Control Methods. (3 Units)**

In depth study of quality control discipline as applied to medical device, pharmaceutical and/or biologics regulated environments. Topics include influencing discipline and applying models; methods that monitor, maintain and/or improve product or service quality; and operational efficiency.

Offered Fall

**QAS 542. Risk Management in FDA Regulated Industries. (3 Units)**

Prerequisite: QAS 511 is recommended. Risk Management as applied to FDA-regulated and other industries (product and process-related); emphasizes application of risk management tools, plan and program from inception of product and process including manufacturing process and field experience of the product, process or service.

Offered Spring

**QAS 543. Identification and Mitigation of Suspect and Counterfeit Items. (3 Units)**

Prerequisite: QAS 511 is required. Designed to distinguish the characteristics of suspect/counterfeit items (S/CI) and how to mitigate and prevent their occurrences through the development of corrective and preventative action plans into common quality management systems by applying quality tools and methodologies.,

Offered Summer

**QAS 544. Digital Transforming Quality 4.0 with Industry 4.0. (3 Units)**

Prerequisite: QAS 511 is required. Examines contemporary process-related issues and assesses how to develop a digital organizational self-assessment through the application of quality tools and methodologies that contribute to continuous improvement and organizational excellence as appropriate in Industry 4.0.

Offered Fall

**QAS 545. Laboratory Conformity Assessment. (3 Units)**

Prerequisite: QAS 511 is required. Evaluates the various systems for laboratory accreditation and certification in compliance with industry and government regulatory requirements to assure safe and reliable products and services are provided for both industry and consumers through assessment and appraisal techniques.

Offered Fall

**QAS 546. Case Studies in Quality. (3 Units)**

Prerequisite: Completion of 18 units in MSQA program. Provides students an opportunity to apply their MSQA acquired skills to encourage and enhance dialogue, reinforce comprehension, bridge the gap between theory and practice, develop analytical and critical thinking skills, and to solve practical industry-related problems.

Offered Fall, Spring

**QAS 553. Lean Accounting & Financial Analysis. (3 Units)**

Focus on the application of Lean Six Sigma concepts and techniques to help in the problem-solving challenges that confront today's quality professionals. Builds a strong foundation for the quality professional in any sector.

Offered Fall, Spring

**QAS 591. Credit for Prior Learning: Quality Auditing. (3 Units)**

The Certified Quality Auditor (CQA) is a professional certification from the American Society of Quality (ASQ). Students holding this certification satisfy the elective course QAS 525. The ASQ CQA must be current when entered into the student transcripts.

Offered As needed

**QAS 592. Credit for Prior Learning (CPL) Quality Measurement. (3 Units)**

The Certified Manager of Quality-Organizational Excellence (CMQ-OE) is a professional certification from the American Society of Quality. Students holding this certification satisfy the elective course QAS 527. The ASQ CMQ-OE must be current when entered into the student transcript.

Offered As needed

**QAS 593. Credit for Prior Learning (CPL) Six Sigma Principles and Applications. (3 Units)**

The Certified Six Sigma Black Belt (CSSBB) is a professional certification from the American Society of Quality (ASQ). Students holding this certification satisfy the elective course QAS 536. The ASQ CSSBB must be current when entered into the student transcript.

Offered As needed

**QAS 594. Ind Study In Assurance Science. (1-4 Units)**

Prerequisites: Instructor and program Coordinator approval; QAS 510, QAS 511 and a minimum of five QAS courses recommended. Independent research or special project to be conducted in consultation with an instructor.

Offered Infrequent

**QAS 595. Special Topics by Directed Study: Quality Assurance Applications. (3 Units)**

A course of study designed cooperatively by student and instructor, and approved by the Program Coordinator, in which students apply quality assurance theory and principles to a particular occupational setting relevant to their professional interests and aspirations. Repeatable course. Three hours of lecture per week.

Offered Infrequent

**QAS 598. Directed Research. (3 Units)**

Prerequisites: Completion of 18 units toward degree and GVAR. Directed reading and research, designed cooperatively by student and instructor and approved by the program coordinator, emphasizing application of Quality Assurance theory and principles to a particular occupational setting.

Offered Fall, Spring, Summer

**QAS 599. Project. (3 Units)**

Prerequisites: Completion of all other coursework in the degree program. The goal of all students enrolled in this culminating experience course is to complete a project under the guidance of an assigned instructor. It is the culminating learning experience of the program, and includes a significant written report. To meet the standards established by the faculty, the project must demonstrate a rigorous scientific approach to the quality profession.  
Offered Fall, Spring

**QAS 600. Grad Continuation Course. (1 Units)**

Graduate students who have completed their coursework but not their thesis, project, or comprehensive examination, or who may have other requirements remaining for completion of their degree, may maintain continuous attendance by enrolling in this course. Signature of graduate program director required.  
Offered Fall, Spring, Summer

## Radiologic Imaging Sciences (RIS)

**RIS 501. RIS Physics and Instrumentation. (3 Units)**

Basic sciences of radiologic professions including physics, instrumentation, data capture and management. Includes discussions of modalities in radiography, nuclear medicine, radiation therapy, ultrasound, and CVIS.  
Offered Fall, Spring

**RIS 502. RIS Sciences I. (3 Units)**

Imaging techniques, technological advances in the radiologic/imaging sciences, patient care trends, and the role of a radiologic and imaging sciences professional.  
Offered Fall, Spring

**RIS 503. RIS Sciences II. (3 Units)**

Integrated modalities in the radiologic professions such as CT, MRI, SPECT/CT, PET/MRI, IMRT, 3D imaging and teleradiology. Healthcare legal, regulatory, and ethical issues are also discussed.  
Offered Summer

**RIS 510. RIS Research Methods and Data Analysis. (3 Units)**

Introduction to radiologic and imaging science research methods, data analysis, as well as current research trends and publications in the field.  
Offered Fall, Spring

**RIS 511. Informatics in Radiologic Imaging Sciences. (3 Units)**

Introduction to Health Information Technology (HIT), Radiology Information Systems (RIS) and Picture Archive and Communication Systems (PACS). Includes basic information system technology as well as clinical and administrative application of healthcare information systems in radiologic and imaging sciences.  
Offered Fall, Spring

**RIS 520. RIS Management. (3 Units)**

Introduction to principles of management with emphasis on its applications in radiologic and imaging department administration.  
Offered Fall, Spring

**RIS 521. RIS Leadership. (3 Units)**

Introduction to principles of leadership with emphasis on its applications in radiologic and imaging department administration.  
Offered Fall, Spring

**RIS 522. Clinical Practice Accreditation. (3 Units)**

Application for and maintenance of clinical professional accreditation of clinical operations. Emphasis is on the role of the radiology administrator.  
Offered Fall, Spring

**RIS 530. Pedagogy and Andragogy in RIS. (3 Units)**

Principles and practice of effective teaching, curriculum development and evaluation in radiologic and imaging sciences.  
Offered Fall, Spring

**RIS 531. Radiologic and Imaging Sciences Program Administration. (3 Units)**

Orientation to academic program directorship, faculty development, student affairs, academic affairs, the higher education system in the US and how colleges and universities in the US work. Topics include scholarship, advisement, teaching as well as faculty recruitment retention and development.  
Offered Fall, Spring

**RIS 532. RIS Academic Program Accreditation. (3 Units)**

An introduction to accreditation of radiologic and imaging sciences academic programs. Topics include outcome assessments, benchmarking, Self-Study preparation, applying for and maintaining accreditation, and accreditation site visits.  
Offered Fall, Spring

**RIS 540. CT Physics, Instrumentation and Procedures. (3 Units)**

In-depth study of the physical principles and instrumentation in CT.  
Offered Fall, Spring

**RIS 541. Advanced Topics in CT. (3 Units)**

CT artifacts, reconstruction algorithms, 3-D imaging, angiography and radiation safety are discussed.  
Offered Fall, Spring

**RIS 542. CT Clinical Applications. (3 Units)**

A discussion on clinical application of CT. Topics include central nervous system, cardiovascular, gastrointestinal, genitourinary, hepatobiliary, musculoskeletal, and cardiac systems.  
Offered Fall, Spring

**RIS 550. MRI Physics & Instrumentation. (3 Units)**

In-depth study of the physical principles and instrumentation in MRI.  
Offered Fall, Spring

**RIS 551. Advanced Topics in MRI. (3 Units)**

MRI artifacts, magnetic resonance angiography and MRI safety are discussed.  
Offered Fall, Spring

**RIS 552. MRI Clinical Applications. (3 Units)**

A discussion on clinical application of MRI. Topics include central nervous system, cardiovascular, gastrointestinal, genitourinary, hepatobiliary, musculoskeletal, and cardiac systems.  
Offered Fall, Spring

**RIS 560. Ultrasound Physics and Instrumentation. (3 Units)**

Emphasizes principles of physics and instrumentation of diagnostic ultrasound. Topics including sound wave parameters, energy transfer through wave propagation, surface reflection processes, and transducer construction. Includes an overview of A-mode, B-mode, and M-mode.  
Offered Fall, Spring

**RIS 561. Advanced Topics in Ultrasound. (3 Units)**

Discussion of computer technology and the instrumentation used to create and store the ultrasound image and introduction to fluid dynamics, and the spectral, color and amplitude related to Doppler. Includes discussions about echo cardiology.  
Offered Fall, Spring

**RIS 562. Ultrasound Clinical Applications. (3 Units)**

Topics include abdominal, OB/GYN, cardiac and vascular sonographic techniques.

Offered Fall, Spring

**RIS 570. PET/CT Physics and Instrumentation. (3 Units)**

Introduces the physical principles and instrumentation used in computed tomography and PET. Topics include the physics associated with PET, PET technology, an overview of computed tomography technology, and computer reconstructions algorithms.

Offered Fall, Spring

**RIS 571. PET Radiopharmaceuticals. (3 Units)**

A discussion of the radiopharmaceuticals and CT contrast used in PET/CT. Emphasis is on chemistry of positron-emitting nuclides and radiopharmaceuticals, the physiological interactions of radiopharmaceuticals, and iodinated contrast media in patients. Patient safety, patient screening, and radiation safety are included.

Offered Fall, Spring

**RIS 572. PET/CT Clinical Applications. (3 Units)**

Encompasses the interrelated aspects of performing PET/CT procedures. Includes anatomy, physiology and pathology of the organ systems, patient preparation and care, imaging instrumentation and protocols.

Offered Fall, Spring

**RIS 580. Radiation Therapy Physics and Treatment Planning. (3 Units)**

Basic principles of ionizing radiation, radiation dosimetry, imaging equipment, radiation therapy equipment and radiation detectors.

Offered Fall, Spring

**RIS 581. Principles and Practices of Radiation Therapy I. (3 Units)**

The fundamentals of clinical radiation oncology are discussed including the medical, biological, and pathological aspect as well as technical aspects. Topics also include the diagnosis, interpreting and implementing the treatment prescription, and documentation of treatment parameters for various physiological systems.

Offered Fall, Spring

**RIS 582. Principles and Practices of Radiation Therapy II. (3 Units)**

A continuation of RIS 581. Introduces Proton beam therapy, Intraoperative Radiotherapy (IORT), and Gamma Knife radiosurgery.

Offered Fall, Spring

**RIS 590. Practicum. (1-3 Units)**

Observing and applying discipline specific clinical, educational or managerial principles in a patient care or academic setting. Restricted to majors.

Offered Fall, Spring, Summer

**RIS 597. Directed Reading. (3 Units)**

Extensive reading in selected areas under the guidance of a faculty mentor. Restricted to majors. Repeatable course.

Offered Fall, Spring, Summer

**RIS 598. Directed Research. (3 Units)**

Extensive research on a subject related to the student's area of concentration under the guidance of a faculty advisor. Restricted to majors. Repeatable course.

Offered Fall, Spring, Summer

**RIS 599. Capstone Project. (3 Units)**

Prerequisite: Enrolled in the final semester of the degree program. A radiologic science related, practical project proposed by the student and approved by the advisor.

Offered Fall, Spring, Summer

**RIS 600. Grad Continuation Course. (1 Units)**

Graduate students who have completed course work but not their thesis, project, or comprehensive examination, or who have other requirements remaining for completion of their degree, may maintain continuous attendance by enrolling in this course. Signature of graduate program coordinator required.

Offered Fall, Spring

## Reading (RDG)

**RDG 501. Foundations of Reading Instruction and Research. (3 Units)**

This foundation course emphasizes advanced study of literacy research, theory, and practice related to components of the literacy acquisition process (oral language; reading comprehension, fluency, word recognition, and vocabulary development; written language content form, and use).

Offered Fall, Spring

**RDG 502. Word Study and Fluency. (3 Units)**

Use an inquiry-based approach to understand the challenges of language learning and word study with diverse populations. Includes a systematic analysis of word formation, syntax, semantics, grammar and spelling in the English language.

Offered Fall, Spring

**RDG 503. Comprehension and Study Skills. (3 Units)**

Prerequisite: RDG 501 and RDG 502 are required. Current theory and research on the relationship between comprehension and literacy acquisition / proficiency are explored. Instructional / intervention strategies and materials to support writing and comprehension at the early, intermediate, and fluent levels are studied.

Offered Fall, Spring

**RDG 505. Reading Fieldwork / Practicum. (3 Units)**

Prerequisites: RDG 501, RDG 502, RDG 503 and RDG 504 are required. Field experience with beginning readers, English learners and students with learning difficulties. Includes methods for meeting the needs of struggling readers and / or writers at both early and intermediate levels, and the tutoring or small-group instruction of these students.

Offered Fall, Spring

**RDG 510. Advanced Study of Early Writing and Literacy. (3 Units)**

An advanced analysis of classical and current literacy theory and practice is conducted. The analysis includes examining the relationship between current issues, emerging research findings in early literacy and related disciplines, and theoretical models of early literacy acquisition.

Offered Fall, Spring

**RDG 511. Advanced Study of Adolescent Writing and Literacy. (3 Units)**

An advanced analysis of literacy theory and practice examining the relationship between issues in adolescent literacy, emerging research in adolescent literacy and related disciplines, the needs of diverse student populations, and the psychological and sociolinguistic aspects of writing and reading.

Offered Fall, Spring

**RDG 512. Supervision, Leadership and Evaluation. (3 Units)**

Prerequisites: RDG 510 and RDG 511 are required. Examines varied roles and responsibilities of the Specialist, including intervention, curriculum development, supervision, program development and leadership. A comprehensive, staff development model will be developed and a segment of that model will be presented in a staff development format.

Offered Fall, Spring

**RDG 513. Specialized Advanced Study of Reading. (3 Units)**

Prerequisites: RDG 510, RDG 511 and RDG 512 are required. Students choose a focus in biliteracy, special education, African American English, adolescents or English Learners and conduct an action research project in that area. Students implement, analyze and report of the action research project.

Offered Fall, Spring

**RDG 514. Advanced Clinical Experience. (3 Units)**

Prerequisites: RDG 510, RDG 511, RDG 512, and RDG 513 are required. A comprehensive intervention based on formal and informal assessments and a research-based, balanced model of literacy instruction is designed for a student experiencing severe difficulty with literacy acquisition. The intervention includes interactions with guardians, instructor and classmates.

Offered Fall, Spring

**RDG 592. Qualitative / Quantitative Research in Reading. (3 Units)**

Course in both quantitative and qualitative research in reading and literacy. It is designed to give students the opportunity to show mastery of social science methodologies.

Offered Fall, Spring

## Recreation & Leisure Studies (REC)

**REC 100. Dimensions Of Leisure. (3 Units)**

Investigation of leisure, recreation, and personal and social adjustments to leisure. Examination of use and misuse of leisure. Students develop personal philosophy of recreation and increase awareness of impact of leisure on American society.

Offered Fall, Spring, Summer, All terms

**REC 260. Outdoor Education. (1 Units)**

Introduction to outdoor education activities including camping, hiking, backpacking, environmental discovery and selected outdoor survival skills. Emphasis on leadership techniques, group dynamics, team building activities, program planning and evaluation. Field trips required. Two hours of activity per week.

Offered Fall, Spring

## School Leadership (SLP)

**SLP 550. Induction Preliminary Leaders. (2 Units)**

Students will develop an induction plan designed to meet the individual's needs as an instructional leader. The induction plan will include the assessment of the individual's professional needs to become an urban school leader. Students will analyze the CCTC Program Standards and the ISLLC national standards and plan and create their professional development plan.

Offered Fall

**SLP 551. Visionary Leadership. (3 Units)**

Recommended prerequisite: SLP 550 or concurrent enrollment. Students facilitate the development, articulation, implementation and stewardship of a vision of teaching and learning that is shared and supported by the school community. Coursework and fieldwork focus on the vision audit through collecting data, constructing profiles, and aligning resources.

Offered Fall

**SLP 552. Instructional Leadership. (3 Units)**

Recommended prerequisites: SLP 550 and SLP 551 or concurrent enrollment. Students learn how to advocate, nurture and sustain a school culture and instructional program conducive to student learning and staff professional growth. Coursework and fieldwork focus on the implementation of state adopted academic content standards, frameworks as well as assessment and accountability systems.

Offered Fall

**SLP 553. Organizational Leadership and Resource Management. (3 Units)**

Recommended prerequisites: SLP 550, SLP 551 and SLP 552 or concurrent enrollment. Students learn how to ensure the management of the organization, operations and resources for a safe, efficient, and effective learning environment. Coursework and fieldwork focus on the study and application of organizational theory that reflects effective leadership.

Offered Spring

**SLP 554. Collaborative Leadership. (3 Units)**

Recommended prerequisites: SLP 550, SLP 551, SLP 552, and SLP553. Students will learn to work effectively with families, caregivers and community members; recognize the goals and aspirations of diverse families; respond to diverse community interests and needs. Through coursework and fieldwork, student will examine and evaluate their attitudes toward people of different races, cultures, and ethnic backgrounds. Students will focus on improving student achievement regardless of race, culture, or socio-economic status.

Offered Spring

**SLP 555. Ethical Leadership. (3 Units)**

Prerequisites: SLP 550, SLP 551, SLP 552 and SLP 553. Students will examine, practice and model a personal code of ethics, including protecting the rights and confidentiality of students, staff, and families. Students will practice professional leadership capacity, including shared decision-making, problem-solving and conflict management and foster those skills in others. Through coursework and fieldwork, students will have multiple opportunities to model personal and professional ethics, integrity, justice and fairness.

Offered Spring

**SLP 556. Political, Social, Economic, Legal and Cultural Leadership. (3 Units)**

Prerequisites: SLP 550, SLP 551, SLP 552 and SLP 553. The student will learn about political, societal, economic, legal and cultural influences on schools. Through these interconnections, the student develops the ability to understand, respond to, and influence the larger political, social, economic, legal and cultural context of schools and leadership. The student will learn how to view himself or herself as a leader and as a member of a team by engaging in course work and field work that provide opportunities to both lead and work collaboratively.

Offered Fall

**SLP 557. Post-Assessment, Preliminary Leadership. (2 Units)**

Prerequisites: SLP 554, SLP 555, and SLP 556 or concurrent enrollment. Students provide evidence of their competency in all CCTC Program Standards and all six of the CPSELs. The course-ending formative assessment and program-ending summative assessments of their field-based project and portfolio will become part of the students' school leadership electronic portfolios. CR/NC grading.

Offered Spring

**SLP 560. Fieldwork A, Preliminary Leadership. (2 Units)**

Recommended corequisite: SLP 550, SLP 551, SLP 552, and SLP 553. Supervised field experiences at the school level to include actual job performance in both supervision and administrative work. Students will demonstrate competencies specified in approved programs. CR/NC grading. Offered Fall

**SLP 561. Fieldwork B, Preliminary Leadership. (2 Units)**

Recommended corequisite: SLP 554, SLP 555, SLP 556 and SLP 557. Supervised field experiences at the school level to include actual job performance in both supervision and administrative work. Students will demonstrate competencies specified in approved programs. Second semester of two part course. CR/NC grading. Offered Spring

**SLP 580. Professional School Leadership: Pre-Assessment, Induction. (2 Units)**

The candidate, the university faculty member, and the site mentor together develop a professional credential induction plan for the support and professional development for the candidate based on the six themes of the 2004 CCTC Professional Standards. Offered Fall, Spring, Summer

**SLP 581. Principles of Professional Administrative Practice: Six Themes. (3 Units)**

Corequisite: SLP 580. This course has a strong conceptual base and is organized to address principles of administrative practice per CCTC's six thematic areas. Specialization and individualization occur by determining specialized strands and individualized learning opportunities as specified in the candidate's induction plan. CR/NC grading. Offered Fall, Spring, Summer

**SLP 582. Professional School Leadership: Post-Assessment. (2 Units)**

Prerequisite: SLP 580 and SLP 581. The expectations developed in candidate's induction plan aligned are assessed to determine if the CCTC professional standards are satisfied. Candidate expectations will be different for each candidate, depending on past experiences, current job assignments, and future development goals and plans. Offered Fall, Spring, Summer

## Science, Math and Tech (SMT)

**SMT 310. Science and Technology. (3 Units)**

Prerequisite: Completion of lower division General Education. An assessment of the interrelationships of Science and Technology. Study of the development of technological advances and the scientific principles behind them. Offered Fall, Spring, Summer

**SMT 312. Natural Disasters. (3 Units)**

Prerequisite: Completion of lower division General Education. Impact of natural events on human activities and vice versa. Mankind's uneasy relationship with atmosphere, oceans and not-so-solid Earth. Will include study of earthquakes, volcanoes, floods, landslides, tsunamis, climate change, hurricanes, tornadoes and wildfires. Offered Fall, Spring

**SMT 314. Introduction to Cosmology. (3 Units)**

Prerequisite: Completion of lower division General Education. An introduction to the major theories of the origin and structure of the universe and the evidence for them, with attention to the way earlier ideas have been incorporated in modern thought. The Big Bang Theory will be examined in depth. Offered Fall, Spring

**SMT 410. Development of Scientific Thinking and Theories. (3 Units)**

Reviews the processes that have lead to the development of significant theories in science. Historical and scientific look at such developments, illustrating the adaptability of the scientific method. Addresses the philosophical implications of such developments and their impact on society. Offered Fall, Spring

**SMT 416. Earth Science For Teacher. (3 Units)**

Prerequisite: Completion of lower division General Education. Study of planet Earth including such topics as geology, volcanoes, earthquakes, fossils, oceanography, weather, and astronomy as appropriate for elementary and junior high school teachers. Two hours of lecture and three hours of laboratory per week. Offered Fall, Spring

## Social & Behavioral Sciences (SBS)

**SBS 316. Social Change. (3 Units)**

Prerequisite: Completion of lower division General Education. Analysis of processes of social change, cultural development and cultural persistence using social science perspectives. Examples of topics include cultural evolution, industrialization, modernization, acculturation and assimilation. Offered As needed

**SBS 318. Cultural Pluralism. (3 Units)**

Prerequisite: Completion of lower division General Education. Analysis of cultural diversity and the processes of cultural interaction, inter-ethnic relations and social integration on the community, national and international levels. Repeatable for up to nine units with different topics. Offered Fall, Spring, Summer, All terms

## Sociology (SOC)

**SOC 101. The Individual In Society. (3 Units)**

An introduction to the study of self, socialization, and social interaction. Interpersonal relations and the structure of social roles; deviance and normality in everyday life. Offered Fall, Spring, All terms

**SOC 102. Understanding Social Relationships in a Global Perspective. (3 Units)**

Dynamics and histories of basic institutions of society such as the family, work, economy, education, class, crime, race, culture and gender. Course content focuses on the global and comparative aspects of these institutions. Offered Fall, Spring, All terms

**SOC 204. Health, Stress & Coping Work. (1.3 Units)**

Offered Infrequent, All terms

**SOC 220. Analytical Statistics. (4 Units)**

Prerequisite: Algebra I is recommended. Statistical techniques for the description and analysis of sociological data. Tabular, graphic, and parametric analytical procedures. Three hours lecture and three hours laboratory per week. Offered Fall, Spring, All terms

**SOC 302. Workshop in Social Research. (3 Units)**

Prerequisites: Consent of instructor is required; SOC 220, SOC 305, SOC 355 are recommended. Workshop in research methods and theory applied to actual research projects culminating in public reports. Repeatable course. Six hours of workshop per week. Offered Fall, Spring, All terms



**SOC 303. Qualitative Methods. (3 Units)**

Use and application of unstructured, structured, and participant observation methods to sociological phenomena. Unobtrusive and non-reactive procedures of research.

Offered Infrequent

**SOC 304. Computer Applications. (3 Units)**

Prerequisite: SOC 220 or its equivalent is recommended. Applications of computers in the Social Sciences; data processing, modeling, simulation, data base management, bibliographic searches. On-line and batch applications. One hour of lecture and four hours of activity per week.

Offered Infrequent

**SOC 305. Methods Of Soc Research. (4 Units)**

Prerequisite: SOC 220. Examination of methods employed in the investigation of sociological phenomena. Consideration of the research process as a whole, including quantitative and qualitative techniques. Includes supplemental workshop. Three hours of lecture and two hours of activity per week.

Offered Fall, Spring, All terms

**SOC 306. Program Evaluation. (3 Units)**

Emphasis on the role of program evaluation in decision making, improvement, and accountability. Students will become involved in evaluation activities.

Offered Infrequent, All terms

**SOC 307. Micro Computer Data Base Applications in Social Science. (3 Units)**

Exploration of individualized data base systems for social science. Creation and management of data base files, both user generated and commercial software. Emphasis on the usefulness of the microcomputer in storing, accessing and analyzing social science data, report generation and accessing mainframe archives. One hour of lecture and four hours of activity per week.

Offered Infrequent

**SOC 308. Field Applications Socio. (3 Units)**

Offered Infrequent

**SOC 309. Writing Skills in Sociology. (3 Units)**

Introduction to basic research and presentational skills of sociology and social and behavioral sciences. Skills development in research and writing, using library and other data sources, organizing projects, writing reports. One hour of lecture and four hours of activity per week.

Offered Infrequent

**SOC 310. Social Stratification. (3 Units)**

Offered Infrequent

**SOC 311. Global Organizations and Social Processes. (3 Units)**

Examination of processes of globalization and contemporary social systems in a global context. This includes corporations, education, the family, the global economy, the military, religion and social movement organizations. Attention given to patriarchy, post-colonialism, race and ethnicity.

Offered Fall, Spring, All terms

**SOC 315. Sociology Of Work. (3 Units)**

Sociological analysis of work in industrial society. Examination of the labor force, industrial organization, occupational roles, and careers. Consideration of impact of technological change.

Offered Fall, Spring, Summer, All terms

**SOC 316. Sociology Of Adult Life: Aging. (3 Units)**

The developmental processes occurring throughout the life-cycle with special focus on problems and issues surrounding middle and old age. Utilization of demographic, cross-cultural, family, community, and societal studies to explore the social dimensions of aging.

Offered Fall, Spring

**SOC 317. Class Status Power & Work. (3 Units)**

Offered Infrequent, All terms

**SOC 320. The Family. (3 Units)**

Study of the social processes and structural patterns affecting contemporary family life in American society.

Offered Fall, Spring, Summer, All terms

**SOC 321. Sociology Of Education. (3 Units)**

Examination of the organization and functions of educational institutions, comparison of American educational systems with educational systems in industrial and developing nations. Special attention given to the impact of schools on the life choices of culturally diverse groups.

Offered Fall, Spring

**SOC 322. Social Environment of Education. (3 Units)**

An integrative study of socialization factors of the young child from various backgrounds and patterns of relationships between the teacher, parent, and community figures in culturally diverse situations.

Offered Fall, Spring, All terms

**SOC 325. Sociology Of Religion. (3 Units)**

Study of religion from sociological perspective: how religions are enacted and expressed as social and cultural events; the relation of religion to social structures; emphasis of the awareness of religion as an aspect of complex multiethnic society.

Offered Infrequent

**SOC 326. Sociology Of Health. (3 Units)**

Social and cultural aspects of health, health behavior, and health organizations. Research on the distribution of disease in society, organization of health professions, social change, health care, stress and disease. Examination of social and cultural factors affecting utilization and structure of health services.

Offered Fall, Spring

**SOC 327. Sociology of Sports. (3 Units)**

In this course, sports is examined as a social institution. This course provides an analysis of the organization and social functions of sport, popular sports media and history. It examines how sports challenges and reproduces cultural ideas about masculinity, femininity, sexual orientation, race/ethnicity, social class, work, fun, achievement, competition, violence and aggression.

Offered Infrequent

**SOC 328. Social Agencies: Practice and Power. (3 Units)**

Study of the sources of power and the practical function of social agencies evaluated in their social context and for their impact upon the individual.

Offered Spring

**SOC 331. Minority Racial and Ethnic Relations. (3 Units)**

Investigation of current American racial and ethnic problems in world-wide and historical perspective.

Offered Fall, Spring, All terms

**SOC 334. Women In Society. (3 Units)**

Analysis of the changing role of women in different historical and cultural settings. Emphasis on the conflict women face from the value and belief systems of their cultures, those of their broader society and their social identity as women. The course will draw on material from diverse cultures, including both industrialized and developing countries. Offered Fall, Spring

**SOC 335. Social Movements. (3 Units)**

A study of major social movements with varying specific emphasis on topical problems or relevant issues from semester to semester. For example, a specific semester may be devoted to Social Movements: Black Awareness; or Social Movements: Utopias. Repeatable course. Offered Fall, Spring, Summer

**SOC 337. Critical Sociology Through Film. (3 Units)**

Students will examine how documentary and non-documentary film depicts and addresses social issues while communicating sociological theories and concepts in tangible visual formats. Through this process students will learn to critically examine media images using a sociological lens. Offered Spring, Summer

**SOC 340. Social Psychology: Sociological Perspective. (3 Units)**

The reciprocal influence that individuals and groups exert on one another from a sociological perspective. Focus on language and other symbolic processes, role taking and role playing, and the importance of the self-concept in interpersonal behavior. Offered Fall, Spring, All terms

**SOC 341. Seminar In Small Groups. (3 Units)**

Study and discussion of social interaction in small groups. Historical and theoretical background, research findings, leadership, and the small group as a social system. Classroom exercises in group dynamics. Three hours of seminar per week. Offered Fall

**SOC 355. Modern Sociological Theories. (4 Units)**

Analysis of contemporary sociological theories with attention to historical origins. Relationship of theory to research and theory construction. Includes supplemental theory building workshop. Three hours of lecture and two hours of activity per week. Offered Fall, Spring, All terms

**SOC 362. Gangs and Adolescent Subcultures. (3 Units)**

Examines gang phenomena nationally and regionally. Focus on organizational, behavioral, etiological, and preventive factors associated with development and perpetuation. Street, motorcycle, prison, ethnic and other subcultural formations are examined. Offered Fall, Spring, Summer

**SOC 363. Sociology of Alcohol and Other Drug Use. (3 Units)**

Introduction to drugs and alcohol as a contemporary social problem. Sociological analysis of drug use and abuse. Course includes systematic review of policy implications and therapeutic applications of sociology of drug use, especially chemical dependency and alcoholism. Offered Fall, Spring, Summer

**SOC 364. Corrections. (3 Units)**

Analysis of various sociological aspects of correctional operations: correctional settings, institutional life, types of correctional programs, rehabilitation, recidivism, alternatives to prisons, probation and prevention, the adjudicative process, and theoretical and empirical considerations of correctional systems. Offered Fall, Spring

**SOC 365. Deviant Behavior. (3 Units)**

Consideration of deviant behavior. Study of the forms and processes of deviance, and the distribution of its occurrence. A systematic analysis of particular kinds of violations of normative rules as related to general processes of interaction in everyday social activities. Offered Fall, Spring, Summer

**SOC 367. Sociology Of Law. (3 Units)**

The social context within which legal systems function, the effectiveness of law as a mechanism of social control, the relationship between law and social change, and the social basis for the administration of justice and punishment. Offered Spring, Summer

**SOC 368. Criminology. (3 Units)**

Theories of the genesis of crime: patterns of criminal behavior; nature of criminal organizations; analysis of relationship of crime to the social structure; criminal statistics and crime rates: police and the criminal justice system. Offered Fall, Spring, All terms

**SOC 369. Juvenile Delinquency. (3 Units)**

Social context, definition, implications, and causes of juvenile delinquency as a social phenomenon; analysis of factors associated with delinquent behavior. Problems of adjustment of delinquents and factors in treatment and in post-treatment adjustment. Offered Fall, Spring, Summer, All terms

**SOC 370. Moot Court. (3 Units)**

Prerequisites: POL 304 and THE 120 are recommended. Training course of the Stanley Mosk Moot Court Competition. Case study of a selected problem and its progress through the legal system. Emphasis on difference between social and legal solutions. Students argue case before attorneys and judges. Repeatable course for up to three times. Two hours of lecture and two hours of activity per week. Offered Infrequent

**SOC 380. Urban Sociology. (3 Units)**

This class examines the general courses, processes, and consequences of urban development. Interdisciplinary perspectives and research methodologies for studying urban settings will be reviewed. Offered Fall, Spring

**SOC 381. Field Studies in Urban Problems. (3 Units)**

Field experiences in the urban setting, with special emphasis upon investigation and understanding of the human and social dimensions of urban problems. Two hours of lecture and two hours of activity per week. Offered Fall, Spring, All terms

**SOC 382. Sociology of Latina/o Communities. (3 Units)**

Offers offers introductory discussion and analysis of topics that pertain to Latinas/os throughout North, Central, and South America and the Caribbean. Explores experiences of different Latina/o communities. These include colonialism, post-colonialism, gender, immigration, race, etc. Offered Infrequent

**SOC 383. Black Communities: Class, Status and Power. (3 Units)**

An analysis of the structure of the Black community: class, economic and political power, the role of leadership, and the conditions for social development. Offered Fall, Spring, All terms

**SOC 384. Community Organizing. (3 Units)**

Study and project of community change. Analysis of the global context of local community organizing, including economic restructuring, environmental justice, immigration and the role of the state. Theories of community engagement and multi-cultural alliances, with an emphasis on women's roles.  
Offered Fall, Spring

**SOC 386. Sociology of the Helping Professions. (3 Units)**

Analysis of the importance of social and environmental factors within the helping context. Particular emphasis on variety of settings for helping, and on issues of social ethics and cultural sensitivities.  
Offered Fall, Spring, All terms

**SOC 387. Theory and Research in Globalization. (3 Units)**

This course provides students with an understanding of the basic theories and concepts related to the economic, social, political, and cultural processes of globalization. Students will work on a research project on a global issue.  
Offered All terms, Fall, Spring

**SOC 395. Special Topics In Sociology. (3 Units)**

Intensive sociological analysis of a topic of special interest to both the faculty member and students. Repeatable course.  
Offered Fall, Spring

**SOC 401. Inferential Statistics. (4 Units)**

Prerequisites: SOC 220 or its equivalent is required; algebra is recommended. Inferential statistical techniques as tools for analysis of sociological data. The logic of statistical inference. Parameter estimation and hypothesis testing. Three hours lecture and three hours laboratory per week.  
Offered Infrequent

**SOC 402. Multivariate Analysis. (4 Units)**

Prerequisites: SOC 220 or its equivalent is required; SOC 401 is recommended. Consideration of the integral involvement of statistics in research, with special emphasis on multivariate techniques. Criteria for selection of appropriate techniques. Three hours of lecture and three hours laboratory per week.  
Offered Infrequent

**SOC 408. Survey Research. (3 Units)**

Recommended Prerequisite: SOC 220. Emphasis on the skills of survey research in decision making, improvement, and data collection. Students will become involved in survey research activities.  
Offered Infrequent

**SOC 494. Independent Study. (1-3 Units)**

Prerequisite: Consent of instructor. A reading program of selected topics conducted under the supervision of a faculty member. Repeatable course.  
Offered Fall, Spring

**SOC 496. Internship in Sociology. (3-6 Units)**

Provides students with supervised pre-professional experience in a community agency, social justice or human rights organization. This internship introduces students to employment possibilities and social change work while they receive valuable field experience and build community contacts. Repeatable up to 9 units.  
Offered As needed

**SOC 498. Directed Research. (1-3 Units)**

Offered Infrequent

**SOC 500. Professional Development. (3 Units)**

Provides an overview of university and department requirements for degree, campus resources, and exploration of career paths for Sociologists  
Offered Fall, Spring

**SOC 502. Graduate Workshop in Research and Theory. (3 Units)**

Practicum in theory and research culminating in preparation of a public report. Entire experience is based on professional research projects in the Social Systems Research Center. Student is expected to assume some supervisory responsibility. Repeatable course. Six hours of workshop per week.  
Offered Spring

**SOC 503. Seminar in Ethnographic Analysis in Sociology. (3 Units)**

Ethnographic fieldwork and analysis in Sociology. Theories and techniques of field observations and methods of analysis of observational data, including field notes, documents, and audio-visual records. Concentration on methods of doing sociology so as to extrapolate principles of social behavior from observation of on-going activities in organized settings. Three hours of seminar per week.  
Offered Spring

**SOC 505. Seminar in Sociological Research. (3 Units)**

Prerequisites: SOC 305 or equivalent are required; SOC 401 or SOC 402, SOC 403 and SOC 407 are recommended; concurrent enrollment in SOC 506 required for Sociology graduate students, recommended for all others. Advanced study of sociological research techniques and strategies. Consideration of research design and analysis as they relate to theory testing. Three hours of seminar per week.  
Offered Spring

**SOC 506. Laboratory in Sociological Research. (1 Units)**

Co-requisites: SOC 505 is required for Sociology graduate students and recommended for all others. Laboratory exercises in the application of research techniques, including formulation of the research problem, case selection, instrument design, observation, data reduction and processing, analysis, and interpretation. Three hours of laboratory per week.  
Offered Spring

**SOC 511. Seminar in Social Organizations. (3 Units)**

An examination of the basic forms of social organization in historical and comparative perspective. The basic social scientific conceptions of social organization will be compared and contrasted in terms of methodological and policy implications. Three hours of seminar per week.  
Offered Fall

**SOC 518. Seminar in Marriage and the Family. (3 Units)**

A sociological examination of contemporary social issues and changes affecting marriage and family life in American society. Normative and alternative family and marital life styles will be explored. Three hours of seminar per week.  
Offered Fall

**SOC 529. Seminar in Social Gerontology. (3 Units)**

A detailed sociological discussion and presentation of theoretical and methodological issues and problems in the field of social gerontology. Fieldwork will be conducted. Three hours of seminar per week.  
Offered Infrequent

**SOC 550. Seminar in Interaction Processes. (3 Units)**

Experience in both the theoretical and practical study of microsociology. Stress on the small group, with specific concern for problems such as communication, leadership, decision-making, gamesmanship, equilibrium, and change. Relevant research literature reviewed, and laboratory experiments in interaction processes conducted. Three hours of seminar per week.

Offered Spring

**SOC 555. Seminar in Sociological Theory. (3 Units)**

Prerequisite: SOC 355. A detailed examination of classical and contemporary sociological theory. Three hours of seminar per week.

Offered Fall

**SOC 560. Seminar in the Sociology of Racial and Ethnic Relations. (3 Units)**

A systematic inquiry into the experience of racial and ethnic minorities in the United States. Analysis of the sociological literature on interethnic relations, ethnic stratification and inequality. Implications for social policy. Three hours of seminar per week.

Offered Spring

**SOC 561. Seminar in Aging: Minorities and Special Groups. (3 Units)**

Analysis of the situation of the elderly within selected population groups including the black aged, Mexican-American aged, the aging woman, the rural and urban poor aged. Community resource persons will be invited to participate. Three hours of seminar per week.

Offered Infrequent

**SOC 563. Seminar in the Sociology of Alcohol and Other Drug Use. (3 Units)**

Social scientific approach to chemical substance use, misuse and dependency. Analysis of contemporary and historical definitions of alcohol and drug use. Origin, maintenance and transformation of patterns of drug use. Social responses to abuse and politics of use and abuse.

Three hours of seminar per week.

Offered Infrequent

**SOC 567. Sem In Sociology Of Law. (3 Units)**

Offered Infrequent

**SOC 568. Seminar In Criminology. (3 Units)**

Analysis of specific issues in criminology. Issues that may be considered include the following: causative theories, major types of crime, formal crime control agencies, and prevention and control. Three hours of seminar per week.

Offered Spring

**SOC 569. Seminar in Juvenile Delinquency. (3 Units)**

Investigation of the causes, nature and consequences of Juvenile Delinquency from a sociological perspective. Reading and discussion of theoretical studies and empirical research. Three hours of seminar per week.

Offered Fall

**SOC 595. Special Topics in Sociology. (3 Units)**

A course designed to consider sociological analysis of a variety of special interest topics. The repeatable nature of the course makes it possible for students to work with more than one instructor on a topic of particular interest to the student. Course may be repeated once for a total of 6 units. Three hours of seminar per week.

Offered As needed

**SOC 596. Practicum In Teaching Sociolog. (3 Units)**

Prerequisite: Classified graduate standing. Supervised experience in teaching Sociology. Techniques and skills appropriate to instruction at the college level. Instructional and evaluative experiences under supervision of sociology faculty. Repeatable for credit for a maximum of six units.

Offered Fall, Spring

**SOC 597. Directed Reading. (1-3 Units)**

Independent reading under direction of supervising faculty member in Sociology. Repeatable course.

Offered Fall, Spring

**SOC 598. Directed Research. (1-3 Units)**

Independent research under direction of supervising faculty member in Sociology. Repeatable course.

Offered Fall, Spring

**SOC 599. Graduate Capstone in Sociology. (1-5 Units)**

Prerequisites: SOC 505, SOC 555, SOC 511 or SOC 550 and Advancement to Candidacy in Sociology Graduate Program is required. Supervised thesis, special project, or comprehensive examination in sociology. Repeatable course.

Offered Fall, Spring

**SOC 600. Grad Continuation Course. (1 Units)**

Graduate students who have completed their coursework but not their thesis, project, or comprehensive examination, or who have other requirements remaining for the completion of their degree, may maintain continuous attendance by enrolling in this course. Signature of graduate program coordinator required.

Offered Fall, Spring

## Spanish (SPA)

**SPA 110. Beginning Spanish I. (3 Units)**

Prerequisite: Grade of C or better in SPA 100. Basic instruction in Spanish. Training in speaking, listening, reading, and writing for students who have had no previous work in Spanish.

Offered Fall, Spring, All terms

**SPA 111. Beginning Spanish II. (3 Units)**

Prerequisite(s): SPA 110 or equivalent.. Translation from Spanish to English and English to Spanish with practical application for journalistic, advertising, commercial, and governmental activities. Introduction to the art of consecutive translation.

Offered Fall, Spring, All terms

**SPA 115. Intensive Beginning Spanish. (6 Units)**

Prerequisite: Grade of C or better in SPA 100. An accelerated course in beginning Spanish; emphasis on speaking and listening comprehension. Development of elementary reading and writing skills. Active participation and engagement. The equivalent of SPA 110 plus SPA 111.

Offered Infrequent

**SPA 151. Introduction to Hispanic Culture. (3 Units)**

Introduction to Hispanic Culture. A designated geographical area studies course focusing on patterns of culture in the Spanish-speaking world. Topics will vary from semester to semester; for example, Mexico and the Southwestern U.S., or Contemporary Spain. Conducted in English.

Offered Fall, Spring

**SPA 220. Intermediate Spanish I. (3 Units)**

Prerequisite: SPA 111 or equivalent. A continuation of Spanish 111, with emphasis on oral communication skills.

Offered Fall, Spring, All terms

**SPA 221. Intermediate Spanish II. (3 Units)**

Prerequisite: SPA 220 or equivalent. A continuation of Spanish 220, with emphasis on reading and writing.

Offered Fall, Spring

**SPA 230. Spanish Conversation. (3 Units)**

Intermediate-level Spanish conversation with special emphasis on increasing the oral proficiency of second-language learners of Spanish. Conversational functions practiced will include describing and identifying people, places, things and events, requesting and providing information, and expressing opinions. Students will be exposed to various aspects of Spanish-speaking cultures.

Offered Fall

**SPA 280. Grammar for Spanish Composition. (3 Units)**

Students advance their knowledge of Spanish grammar in the areas of orthography, accentuation, punctuation, parts of speech, verb morphology, sentence types. Students will study essay types, with an emphasis on narration.

Offered Fall, Spring

**SPA 302. Business Spanish. (3 Units)**

The principal objective of this course is to prepare students to use Spanish for business. Topics for this course include: 1) informal vs. formal Spanish; 2) the communicative purpose: informative vs persuasive presentations; 3) technology and business; 4) the language of finance; 5) legal language for business; and 7) ethical considerations and their reflection on language use.

Offered Spring

**SPA 305. Advanced Composition, Syntax and Stylistics I. (3 Units)**

Prerequisite: SPA 280 or equivalent. A reading, composition, and discussion course concerned with elements of style and syntax, with emphasis on expository and argumentative writing by the students.

Offered Fall, Spring

**SPA 306. Advanced Composition, Syntax and Stylistics II. (3 Units)**

Prerequisite: SPA 280 or equivalent is required. A reading, composition and discussion course that focuses on expository writing and literary or linguistic analysis. Three hours of lecture per week.

Offered Fall, Spring

**SPA 310. Romantic Love in the Western Tradition. (3 Units)**

Students evaluate the construct of love using historical, aesthetic, and social perspectives, how it defines psychological patterns, develops styles in literature, is the center of some philosophical approaches, and is linked to values and ethical definitions in contemporary movements.

Offered Infrequent

**SPA 311. Structure Of Spanish. (3 Units)**

Prerequisite: SPA 280. An analysis of the sounds, formations, and routines of the language, focusing on global characteristics of Spanish that English speakers need to acquire. Selected language acquisition problems of English speakers featured.

Offered Fall

**SPA 312. Hispanic Literature, Art and Culture. (3 Units)**

Historical development and the cultural artistic production created by Hispanic authors and artists through an interdisciplinary perspective. Study of artwork, historical texts, music, and literature to expand by discussing the links of cultural production that develop in Latin America.

Offered Spring

**SPA 313. Encountering the Other. (3 Units)**

Analysis of major contemporary issues will be undertaken from a humanistic perspective about encountering the other in the Western tradition. Historical, literary, musical, philosophical, and art works will be introduced to develop critical thinking about how diverse groups interact.

Offered Spring even

**SPA 318. Movements of Latin America. (3 Units)**

This interdisciplinary and pluricultural course introduces students to the contemporary social and sociolinguistic movements of Latin America. It analyzes the indigenous movements for linguistic and cultural rights, and populist movements and other movements through their cultures, narratives, rhetoric, and discourse.

Offered Fall, Spring, Summer

**SPA 330. Interpreting Hispanic Literature. (3 Units)**

Prerequisite: SPA 305. Analysis and interpretation of representative Hispanic prose, poetry, and drama.

Offered Fall

**SPA 340. Practical Spanish for Interpreters and Translators. (3 Units)**

Intensive study of a single author, a literary movement, a literary genre, or a single literary work, or an issue/topic in linguistics. Repeatable with different topics for credit. Three hours of seminar per week.

Offered Spring

**SPA 341. Advanced Conversation. (3 Units)**

Prerequisite: SPA 221 or equivalent. Intensive conversation leading to fluency in the use of academic Spanish. The course aims to develop a comprehensive vocabulary which prepares the student for persuasive and oratory speeches, as well as for upper division linguistics and literature courses. Useful for public service and the bilingual/cross-cultural credential program.

Offered Fall, Spring

**SPA 350. Contemporary Hispanic Culture: Spain. (3 Units)**

Prerequisite: SPA 280 or equivalent, or concurrent enrollment. An area studies course focusing on patterns of culture in contemporary Spain.

Offered Spring

**SPA 351. Contemporary Hispanic Culture: Spanish-Speaking America. (3 Units)**

Prerequisite: SPA 280 or equivalent, or concurrent enrollment. A designated geographical area studies course focusing on patterns of culture in the Spanish-speaking world. Specific topics may vary from semester to semester. Norms, intergroup relations, institutions, language, and societal values of rural and urban people.

Offered Infrequent

**SPA 353. Cinema of the Spanish-Speaking World. (3 Units)**

Prerequisites: SPA 280 and SPA 305 are required. SPA 351 is recommended. This course is designed to introduce students to the cultures and societies of Spain and Latin America through the cinematic work of Spanish-speaking film productions.

Offered Fall

**SPA 398S. Directed Research in Spanish. (1-3 Units)**

Offered Infrequent

**SPA 400. Teaching School Subject Matter in Spanish. (3 Units)**

Prerequisite: Knowledge of Spanish or consent of instructor. Vocabulary and materials used in elementary or secondary schools for teaching reading, writing, mathematics, science, and social studies in Spanish. Aspects and problems of language acquisition and linguistic transitions made by English speakers acquiring Spanish proficiency. Required for credential candidates.

Offered Fall, Spring

**SPA 414. Spanish Phonology. (3 Units)**

Prerequisite: SPA 311. A beginning course in the segmental and suprasegmental phonetic systems: phonological pronunciation phenomena of standard and regional Spanish.

Offered Spring

**SPA 430. Spanish Morphology. (3 Units)**

In-depth introduction to selected topics of Morphology. Topics include inflection, derivation, and compounding, as well as the relation of morphology to phonology, syntax and the lexicon.

Offered Fall

**SPA 435. A Sociolinguistic Approach to Chicano/Latino Dialect. (3 Units)**

Identification of characteristic linguistic difficulties of Spanish-speaking children correlated to social-cultural background. Contrastive analyses of the linguistic competencies and performances for these children learning English. Repeatable course.

Offered Infrequent

**SPA 440. Spanish Syntax. (3 Units)**

Study of the formation and structure of phrases, clauses, and sentences in Spanish, informed by the Generative Syntax theoretical framework.

Offered Fall

**SPA 450. History of the Spanish Language. (3 Units)**

History of the development of the Spanish language from Vulgar Latin to the present.

Offered Fall

**SPA 453. Literature Of Spain. (3 Units)**

Prerequisites: SPA 330. Readings and analysis of Spanish literary works in all genres. Topic varies from semester to semester. Repeatable course.

Offered Fall

**SPA 454. Cervantes: Don Quijote. (3 Units)**

Prerequisite: SPA 330 or equivalent. Reading and analysis of the major work of Spanish literature.

Offered Spring

**SPA 456. Literature of Spanish America. (3 Units)**

Prerequisites: SPA 330. Readings and analysis of selected works of Spanish American literature. Course content may cover a single country or a literary movement or genre as represented in various Spanish American countries. Topic varies from semester to semester. Repeatable course.

Offered Fall, Spring

**SPA 461. Lecturas Mexicanas y Chicanas. (3 Units)**

Reading and analysis of Mexican and Chicano literary works in all genres. Specific genre and country will vary from semester to semester. Three hours of lecture per week.

Offered Spring

**SPA 490. Seminar in Special Topics in Literature and Linguistics. (3 Units)**

Prerequisite: SPA 305, SPA 306, SPA 311, SPA 330, SPA 340, SPA 350, SPA 351 are required. Intensive study of a single author, a literary movement, a literary genre, or a single literary work, or an issue/topic in linguistics. Repeatable with different topics for credit. Three hours of seminar per week.

Offered Spring

**SPA 494. Independent Study. (3 Units)**

Prerequisites: B average in Spanish; consent of instructor and department chair. Independent study of a literary or linguistic problem, an author, or a literary movement. Repeatable course.

Offered Fall, Spring

**SPA 495. Special Topics in Spanish. (3 Units)**

Prerequisites: Senior Standing and consent of the instructor. Intensive study of a topic in Spanish literature, linguistics or culture. May be repeated with a different topic for up to six units.

Offered Infrequent

**SPA 498. Directed Research in Spanish. (1-3 Units)**

Offered Infrequent, All terms

**SPA 594S. Independent Study. (1-3 Units)**

Prerequisites: Consent of department chair and faculty advisor. In consultation with a faculty member, the student will investigate, in detail, current scholarship in selected area(s) or will undertake a project involving original research or creative study. Repeatable course.

Offered Infrequent

**SPA 595. Special Topics in Spanish. (3 Units)**

Prerequisites: Two upper division courses in Spanish Literature, two upper division courses in Spanish Linguistics, or consent of the instructor. Intensive study of a topic of current interest to the disciplines of Spanish Literature and Spanish Linguistics. Topic and content will vary each term. New topics will be offered each term. Course may be repeated with different topic.

Offered Infrequent

**SPA 597S. Directed Reading. (1-3 Units)**

Prerequisites: Consent of department chair and faculty advisor. Extensive reading in selected areas under the guidance of a faculty member.

Repeatable course.

Offered Infrequent

**SPA 599S. Final Project. (3 Units)**

Offered Infrequent

## Special Education (SPE)

**SPE 403. Reading and Language Arts Instruction for K-12 Students with Disabilities. (3 Units)**

Prerequisite: SPE 480 and SPE 481 or LBS 310 or LBS 370 are required. An overview of principles of reading instruction and elements of the P-12 language arts program including literature-based reading, the role of phonics, emergent literacy and diagnosis and remediation of reading and writing difficulties.

Offered Fall, Spring

**SPE 405. Collaboration with Families and School Personnel. (3 Units)**

Prerequisite: SPE 480 is required. Designed to develop expertise in working with stakeholders in the education of children and youth with special needs as they transition to different levels of education and into adulthood. Topics include communication, collaboration in team teaching, developing IFSP/IEPs and effectively working with families, school personnel and students who have disabilities.

Offered Fall, Spring

**SPE 451. Biomedical Information and Technological Interventions with Children with Disabilities. (3 Units)**

Prerequisites: SPE 480 is required. Review of physical disabilities, presentation, etiology, behavioral/psychosocial sequelae, and impact on development. Medical care required for monitoring and ongoing management, technological procedures, and accommodations to facilitate full inclusion of medically fragile children in school and community settings. Field experience included.

Offered Fall, Spring

**SPE 454. Curriculum and Instruction in Early Childhood Special Education. (3 Units)**

Prerequisites: SPE 480 is required. Current issues and best practices research in designing curriculum for children (birth to 5 years) with disabilities or who are at risk. Instructional intervention procedures and educational settings appropriate to the learner's developmental and functional needs.

Offered Spring

**SPE 456. Field Experience in General and Special Education. (3 Units)**

Pre-requisites: SPE 480 and SPE 481, or LBS 301 or LBS 370 are required. Supervised observation and participation in general and special education settings (50 hours in each setting). General education focuses on classroom interactions and teaching responsibilities with students in pre-K-high school. Special Education focuses on classroom interactions and teaching responsibilities with students of mild/moderate/severe disabilities in infant through adult population. Fieldwork and seminar. Credit/no credit grading.

Offered Fall, Spring

**SPE 458. Positive Classroom Environments. (3 Units)**

Prerequisite: SPE 480 is required. Survey and practice of research-based techniques for managing and motivating the behavior of young children, students at-risk, or with mild, moderate or extensive support needs in special or general education settings. Examination of current laws, trauma informed practices, and strategies for ensuring positive classroom environments in special education. Field projects included.

Offered Fall, Spring

**SPE 460. Intro to Special Education. (3 Units)**

Review of the field of exceptionality, including behavioral and learning characteristics of pupils with disabilities. Examination of developmental and program needs. Presentation of eligibility criteria, legal rights, legislation, and exemplary school programs for diverse learners with disabilities.

Offered Fall, Spring

**SPE 461. Typical and Atypical development and Assessment Issues in Special and General Education. (3 Units)**

Prerequisites: SPE 480 and SPE 48, or LBS 301 or LBS 370 are required. Overview of development of children with and without disabilities including: physical growth/development, cognitive, motor, social/emotional development, cultural and genetic contributors to atypical outcomes. Integrates theory and research into effective practice for working with children who manifest a range of disabilities.

Offered Fall, Spring

**SPE 462. Language, Literacy and Cognition. (3 Units)**

Prerequisite: SPE 480 is required. Basic concepts of language structure, normal and disordered speech and language development; relevant diagnostic-prescriptive methods for the classroom teacher; and the use of specialized services. Additionally, theoretical perspective; cultural difference and the relationship between language disorders and academic learning.

Offered Fall, Spring

**SPE 465. Instructional Strategies Extensive Support Needs. (3 Units)**

Prerequisite: SPE 480 is required. Review of issues and research regarding effective practices for students with extensive support needs. Practice in developing and delivering curricula appropriate to the student's development and functional needs. Generalization of effective teaching techniques to a variety of skill areas and environments.

Offered Spring

**SPE 467. Assessment in Special Education. (3 Units)**

Prerequisite: Prerequisite: SPE 480 and SPE 481 or LBS 310 or LBS 370 are required. Assessment and evaluation procedures using formal and informal assessment for individuals with mild/moderate support needs, individuals with extensive support needs, and young children (birth to 5 years). Data will be interpreted to inform strengths and needs to make accommodations, modifications, instructional decisions, and ongoing program improvements incorporating family concerns and priorities.

Offered Fall, Spring

**SPE 468. Curriculum and Instruction Mild Moderate Support Needs: STEAM. (3 Units)**

Prerequisites: SPE 458, SPE 462, and SPE 480 are required. Review of issues and research regarding teaching practices effective for students with mild/moderate support needs. Situates instruction within a STEAM framework, the application of effective teaching techniques in the general education curricula and content areas appropriate to students with learning difficulties.

Offered Fall, Spring

**SPE 475. Student Teaching in Early Childhood Special Education. (13 Units)**

Prerequisite: Department Consent Required. Supervised experience with young children (birth-5 years) with mild, moderate or extensive support needs in early intervention/educational settings with the guidance of a master teacher. Integrates learned theoretical models with every day situations in planning, implementing and evaluating intervention strategies designed to meet the California Teaching Performance Expectations. Seminars and fieldwork. Credit/No-Credit grading.

Offered Fall, Spring

**SPE 476. Student Teaching Extensive Support Needs. (13 Units)**

Prerequisite: Consent of Instructor/Department required. Supervised teaching with the guidance of a master teacher in an appropriate program for students with extensive support needs. Focus on meeting the Teacher Performance Expectations in the areas of curriculum, behavior, and instruction. Seminars and fieldwork. Credit/No-Credit grading.

Offered Fall, Spring

**SPE 477. Student Teaching Mild/Moderate. (7 Units)**

Required Prerequisites: SPE 403, SPE 405, SPE 456, SPE 458, SPE 461, SPW 462, SPE 467, SPE 468, SPE 480, and TED 410. Required Co-requisites: LBS 402. Supervised experience in an approved public-school education program under the guidance of a university supervisor and district mentor for students with mild/moderate disabilities. Integrates learned theoretical models with practical, hands-on experience in planning, implementing, and evaluating intervention strategies and outcomes.

Offered Fall, Spring, Summer

**SPE 479. Student Teaching of Individuals with Mild/Moderate Disabilities. (13 Units)**

Prerequisite: Consent of Instructor/Department required. Supervised teaching with the guidance of a master teacher in an appropriate public school special education program for students with mild/moderate disabilities. Focus on the management of curriculum, behavior, and instruction. Seminars and fieldwork. Credit/No-Credit grading.

Offered Fall, Spring

**SPE 480. Educating Exceptional Children and Youth. (3 Units)**

Review of the field of exceptionality, including behavioral and learning characteristics of students with mild, moderate, and severe disabilities. Examination of developmental and program needs. Presentation of eligibility criteria, legal rights, legislation, and best practices for students with exceptionalities.

Offered Fall, Spring, Summer

**SPE 481. Educating Diverse Learners with Exceptionalities. (3 Units)**

Designed to understand the relationship between cultural, home, and school influences and the effects these influences have on classroom teaching and learning and the utilization of appropriate materials and methods for students who are exceptional, culturally, ethnically, and/or linguistically diverse.

Offered Fall, Spring, Summer

**SPE 482. Educating Students with Special Needs within Inclusive Settings. (3 Units)**

Prerequisites: Completion of Phase 1. Co-requisites: TED 433/453. Students will identify strategies and approaches to make general education classrooms inclusive for all students. Integrate students' funds of knowledge, social-emotional learning, developmental considerations and technology to support students and engage families. Students will learn to establish goals to improve practice through reflection and video recording.

Offered Fall, Spring

**SPE 488. CalTPA for Educational Specialists. (2 Units)**

Co-Requisites: SPE 475, SPE 476, SPE 479, SPE 555, SPE 556, or SPE 579 is required. Capstone experience designed to link theory and practice as students reflect on their learning, connecting subject matter knowledge and the teaching profession. Students will complete a philosophy of education and website portfolio that substantiates their learning in the major and complete an instructional cycle in an elementary classroom aligned with Cycle 1 or 2 or the required summative assessment to demonstrate competency in all Teacher Performance Expectations (EdSp CalTPA). Candidates will focus on student learning, selecting a learning segment, submitting teaching artifacts and analyzing, as well as assessing the teaching event.

Offered Fall, Spring, Summer

**SPE 494. Independent Study in Special Education. (1-3 Units)**

Prerequisite: Consent of instructor and Special Education Department Chair is required. Independent study in a topic related to the Special Education Credential Program.

Offered Fall, Spring

**SPE 495. Special Topics in Special Education. (3 Units)**

Selected topics in special education. Repeatable course up to six units.

Offered Fall, Spring

**SPE 501. Creating Effective Inclusive Settings for Young Children w/ Exceptionalities, Families, & Professionals. (3 Units)**

Prerequisites: TED 505 and TTK 501 are required. Prepares teachers to work with young children who are at-risk for or have a disability, their families, and professionals. Integrates theory and research into effective learning practices young children who require accommodations or modifications. Information presented on disability eligibility criteria, legal rights, and legislation and strategies for effective communication and collaboration with families and professionals.

Offered Fall, Spring

**SPE 504. Reading & Language Arts Instruction for 9-12 Students with Disabilities. (1 Unit)**

Prerequisite: SPE 480 and SPE 481 are required. Prepares teacher candidates in the Education Specialist Mild/Moderate Program to develop and implement a comprehensive, integrated, interactive perspective to teaching reading/language arts in grades 9-12 classrooms. Candidates will develop skills needed to analyze and solve curriculum, instruction, assessment and management problems related to reading and language arts across the content areas.

Offered Spring

**SPE 522. Teaching Bilingual Learning in Inclusive Dual Settings. (3 Units)**

Prepares teachers to work with exceptional students in dual language programs. Participants will learn and apply culturally responsive assessment practices, curricular interventions and evaluation procedures for individuals, from infancy to adulthood, with mild/moderate and moderate/severe disabilities. Field-based projects. Course taught in Spanish.

Offered Spring

**SPE 523. Special Education Intern Initial Field Experience/Seminar. (6 Units)**

Prerequisites: SPE 461 and SPE 462 are required. Observation and evaluation of intern candidates' initial teaching competencies by university and school site supervisors. Candidates attend seminars bi-monthly. Fieldwork and seminars. Credit/no credit grading.

Offered Fall, Spring

**SPE 525. Special Education Intern Advanced Field Experience/Seminar. (6 Units)**

Observation and evaluation of intern candidates' advanced teaching competencies by university and school site supervisors. Candidates attend seminars bi-monthly. Fieldwork and seminars. Credit/no credit grading.

Offered Fall, Spring

**SPE 526. Special Education Intern Continuing Field Experience/Seminar. (2 Units)**

Prerequisites: SPE 523 and SPE 525 are required. Repeatable course designed to review the teaching competencies of special education interns. University supervisor continues observation and evaluation of candidates' progress toward professional certification. Fieldwork and seminars. Credit/no credit grading.

Offered Fall, Spring

**SPE 527. Resource Specialist I: Program Planning. (3 Units)**

Prerequisite: Clear Special Education Credential. Surveys current special education laws and practices regulating appropriate identification, assessment, program planning, placement, parent appeal, and coordination of services for the education of the mildly handicapped in public and private schools.

Offered Infrequent

**SPE 530. Introduction to Assistive Technology. (3 Units)**

Reviews the use of Assistive Technology as it relates to education, communication, vocation, recreation, and mobility for individuals with disabilities. Explore types of assistive technologies, functional assessments, resources, and district responsibilities.

Offered As needed

**SPE 532. Advanced Assistive Technology. (3 Units)**

Prerequisites: SPE 530 and SPE 531. Teaches students to use and adapt a variety of assistive technology devices and software and apply these technologies in a wide range of integrated educational settings.

Offered As needed



**SPE 533. Administration of Assistive Technology Services. (3 Units)**

Prerequisites: SPE 530 and SPE 531. Provides students with information on a variety of administrative issues, including the role of the Transdisciplinary Team, identification of funding and other resources, specialized computer adaptations, legal and ethical issues, and effective evaluation.

Offered As needed

**SPE 537. Capstone Course in Assistive Technology. (3 Units)**

Prerequisites: SPE 532 and SPE 533. Students will apply assistive technology skills by performing functional assessments, developing technology goals/objectives, and selecting appropriate assistive technology services for the disabled. Additionally, students will develop skills to facilitate the development of a system to deliver assistive technology devices and services.

Offered As needed

**SPE 543. Spec Ed Pre Induct Plan Superv. (1 Units)**

Development of an individualized professional induction plan for each special education candidate upon completion of the final directed field experience (i.e. SPE 555, SPE 566 or SPE 569 in Level II standard credential programs or SPE 523 for Interns in Level I intern credential programs). Credit/no credit grading.

Offered As needed

**SPE 549. Seminar in Infants and Toddlers in Early Childhood Special Education. (2 Units)**

Prerequisites: SPE 480 and SPE 481 are required. Co-requisite: SPE 550 is required. Seminar on information and experiences in working with children from birth-3 years who have mild, moderate, or severe disabilities. Emphasis on learning how to address the needs of children and their families in a culturally sensitive family-centered professional manner.

Offered Fall, Spring, Summer

**SPE 550. Field Work in Infants and Toddlers in Early Childhood Special Education. (1 Units)**

Prerequisite: SPE 480 and SPE 481 are required. Co-requisite: SPE 549 is required. Supervised 40-hour practicum provides experiences working with children from birth-3 years who have mild, moderate, or severe disabilities. Emphasis on learning how to address the needs of children and their families in a culturally sensitive family-centered professional manner. Credit/No Credit grading.

Offered Fall, Spring

**SPE 552. Communicative and Collaborative Partnerships with Families and Professionals. (3 Units)**

Prerequisite: SPE 480 is required. Overview of the family systems model for understanding families from diverse cultures with specific focus on the effects of disability on family functions and relationships. Use of effective communicate and collaborate with individuals with disabilities, their families and other stakeholders to establish and work in partnerships.

Offered Fall, Spring

**SPE 553. Assessment in Early Childhood Special Education and Moderate-Severe Disabilities. (3 Units)**

Prerequisites: SPE 480 and SPE 481 are required. Assessment and evaluation procedures for young children (birth to 5 years) with developmental disabilities or delays, and students with moderate-sever disabilities including formal and informal assessments and strategies to determine needs and strengths while incorporating family concerns and priorities.

Offered Fall, Spring

**SPE 555. Directed Teaching in Early Childhood Special Education. (13 Units)**

Prerequisites: Consent of Instructor/Department Required. Supervised experience working with young children (birth-5 years) with mild, moderate, or extensive support needs in early intervention/educational settings with the guidance of a master teacher. Integrates learned theoretical models with every day situations in planning, implementing and evaluating intervention strategies designed to meet the California Teaching Performance Expectations. Seminar and Fieldwork required. Credit/No-Credit grading.

Offered Fall, Spring

**SPE 564. Instructional Planning and Curriculum Development for Individuals with Moderate/Severe Disabilities. (3 Units)**

Prerequisites: SPE 460 and SPE 558. Formal and informal assessment, instructional planning, and curriculum development for children and adults with moderate/severe disabilities. Assessment of skills leading to functional independence in age-appropriate, developmental, domestic, community, recreation/leisure, vocational, and social environments. Field projects.

Offered Fall

**SPE 566. Directed Teaching of Individuals with Moderate/Severe Disabilities. (6 Units)**

Prerequisite: Student must be in the last semester of credential program. Supervised teaching in an approved public school program for individuals with moderate to severe disabilities. Focuses on the management of curriculum, behavior, and instruction and on professional partnerships in school and community settings. Fieldwork and seminars are required. Credit/No-Credit grading.

Offered Fall, Spring

**SPE 569. Directed Teaching of Individuals with Mild/Moderate Disabilities. (6 Units)**

Prerequisite: Student must be in the last semester of credential program. Supervised teaching in an approved public school education program for students with mild/moderate disabilities. Focuses on the management of curriculum, behavior, and instruction and on professional partnerships in elementary/secondary/post secondary special education programs. Fieldwork and seminars. Credit/No Credit grading.

Offered Fall, Spring

**SPE 570. Individual Induction Plan Development. (3 Units)**

Knowledge and skills to develop a professional Individualized Induction Plan that focuses on teacher performance via inquiry and formative assessment of their teaching practice to improve student learning.

Offered Fall, Spring

**SPE 571. Individual Induction Plan Completion. (3 Units)**

Prerequisite: SPE 570 is required. Knowledge and skills to complete a professional Individualized Induction Plan that focuses on teacher performance via inquiry and includes a comparison of formative and summative assessment of their teaching practice to improve student learning.

Offered Fall, Spring

**SPE 580. Advanced Assessment, Pedagogy and Instruction for Individuals with Disabilities. (3 Units)**

Advanced knowledge and application of current formal and informal assessment techniques and outcome-driven educational programming for culturally, linguistically and economically diverse children with disabilities. Development of IEP's including research based interventions and progress monitoring systems.

Offered Fall, Spring

**SPE 581. Collaborative Planning, Implementing Evaluating Educational Programs for Students with Disabilities. (3 Units)**

Restricted to Education Specialist Clear Credential Program or MA in Education. Knowledge and skills for effective collaboration and consultation with students, families, and professionals including central interaction processes for developing a range of academic, behavioral, vocational and transitional programs on behalf of individuals with disabilities.

Offered Fall, Spring

**SPE 582. Current Trends and Issues in Special Education. (3 Units)**

Prerequisite: GED 500 is required. Advanced study of pertinent topics related to federal, state, and local agencies and their role in special education; organization of Special Education programs and service delivery; the preparation of teachers of exceptional children and research and demonstration projects in the education of exceptional children.

Offered Fall, Spring

**SPE 583. Education Law and Policy: Serving Students with Disabilities. (3 Units)**

Analysis of legislation, litigation, and administrative rulings related to special education. Emphasizes the development of legally sound policies and procedures to ensure an appropriate education for students with disabilities.

Offered Fall, Spring

**SPE 584. Research I: Evidenced Based Inquiry and Practice. (3 Units)**

Prerequisite: SPE 582 is required. Advance study of research in educational contexts through the application of evidenced-based inquiry practices. Research proposal design, methodology, and data collection.

Offered Fall, Spring

**SPE 585. Research II: Evidenced Based Inquiry and Practice. (3 Units)**

Prerequisite: SPE 584 is required. Advanced study of research in educational contexts through the application of evidenced-based inquiry practices and project development/implementation. Research project data analysis, interpretation and reporting of findings, and implications for further research.

Offered Fall, Spring

**SPE 591. Current Issues in Special Education. (2 Units)**

Prerequisite: Completion of all course work leading to the M.A. in Special Education. Designed to help the graduate student in special education integrate all previous course work in the field. Legal and empirical evidence bearing on specific current issues will be reviewed and used as the basis of class discussion. CR/NC grading. Two hours of seminar per week.

Offered As needed

**SPE 594. Independent Study in Special Education. (1-3 Units)**

Independent study taken under the supervision of a faculty member.

Repeatable for credit.

Offered As needed

**SPE 595. Graduate Selected Topics in Special Education. (1-4 Units)**

Advanced course of special interests to graduate students in Special Education. Topic and content will vary as announced. Repeatable course. One to three hours of seminar each week.

Offered Fall, Spring, Summer

**SPE 599. Graduate Capstone in Special Education. (1-3 Units)**

Research and writing of thesis project for the master's degree. Topic of research must be approved by graduate advisor. Open only to thesis option graduate students. Repeatable course.

Offered Fall, Spring

**SPE 600. Graduate Continuation Course. (1 Units)**

Graduate students who have completed their course work but not their thesis, project, or comprehensive examination, or who have other requirements remaining for the completion their degree, may maintain continuous attendance by enrolling in this course. Signature of graduate program coordinator required.

Offered Fall, Spring

## Sports, Ent., Hospitality (SEH)

**SEH 310. Sports Enter & Hospitality MGT. (3 Units)**

Overview of the sports, entertainment, and hospitality fields. Examines the current issues, trends, and problems in these fields. Includes an investigation into career opportunities and growth potential for the sports, entertainment, and hospitality industries.

Offered Fall, Spring

**SEH 330. Managing Sports Facilities. (3 Units)**

Prerequisite: SEH 310. Provides students with an introduction to the planning and management of sports facilities. Focuses on elements of planning, design, and management, while examining functions related to maintenance, security, operations and evaluation.

Offered Fall, Spring

**SEH 348. Principles of Travel & Tourism. (3 Units)**

Prerequisite: SEH 310. Study of historical and modern principles of travel and tourism. Exploration of societal trends, global tourist behavior, and environmental factors influencing the destination mix. Investigation of tourism planning, promotion.

Offered Fall, Spring

**SEH 400. Tickets Operations in the Entertainment Industry. (3 Units)**

Ticket sales are a complex activity that goes well beyond the act of selling. Course focuses on ticket sales strategies and promotion processes highlighting the fundamental concepts, principles, and applications associated in this strategic area of entertainment and sports management.

Offered Infrequent

**SEH 401. Leadership in the Entertainment Industry. (3 Units)**

The entertainment industry is one of the largest and most important industries in the world. Technologies transform the way entertainment is created and distributed. Course prepares students to accelerate their careers in the creative industries through the exploration of leadership skills.

Offered Infrequent

**SEH 402. Strategic Sports Marketing. (3 Units)**

The entertainment industry is one of the largest and most important industries in the world. Technologies transform the way entertainment is created and distributed. Course prepares students to accelerate their careers in the creative industries through the exploration of strategic sports marketing skills.

Offered Infrequent

**SEH 403. Sport Venue and Event Management. (3 Units)**

Sport venue management represents one of the fastest areas of growth in the sport industry. With new arenas, stadiums, health clubs, convention centers, and other facilities popping up all over the nation, numerous job opportunities are available in this discipline.

Offered Infrequent

**SEH 448. Hotel and Resort Management. (3 Units)**

Prerequisite: SEH 310. Investigation of management in the hospitality industry with emphasis on food service, lodging, tourism, and contemporary issues. Examines customer service, international markets, human resources, marketing, and fiscal implications. Field trips required. Offered Fall, Spring

**SEH 495. Spec Topic: Hospitality Mgt.. (3 Units)**

Prerequisite: SEH 310. Study of a current topic in the entertainment industry. Offered Infrequent

**SEH 496. Internship in Sports, Entertainment & Hospitality. (1-3 Units)**

Under the direction of a faculty of the discipline, students work in a business organization related to sports, entertainment or hospitality field applying the skills and knowledge learned in the classroom. Offered As needed

## Systems Engineering (SEE)

**SEE 500. The Practice of Systems Engineering. (3 Units)**

The course provides an overview Systems Engineering professional competencies. Content and case studies present Systems Engineering as a multi-faceted discipline that draws upon human, organizational and technical resources to define, develop and deploy systems.

**SEE 510. Introduction to Systems Engineering I. (3 Units)**

Co-requisite: SEE 501 required. Systems engineering processes, principles and tools used during a project's life cycle. Risk assessment that addresses technical, schedule, cost, and performance risks. Role of engineering sub-disciplines in the fulfillment of mission requirements. Risk and reliability in complex systems. A-B/NC grading. Offered Fall

**SEE 515. Introduction to Systems Engineering II. (3 Units)**

Prerequisite(s): SEE 510. Course covers processes, principles and tools utilized throughout a system's life cycle. Topics include the role of requirements engineering, risk management, supportability and logistics in the development of complex systems. A-B/NC grading.

**SEE 520. Analytics in Systems Engineering. (3 Units)**

Prerequisites: SEE 500, MAT 131 or MAT 321 or an introductory course in statistics and probability; CSC 121 or an introductory programming course. Statistical methods used in data analytics with a focus on decision making in engineering applications. Offered Fall

**SEE 530. Quantitative Methods in Systems Engineering. (3 Units)**

Prerequisite: MAT 131 or MAT 132 or an introductory course in probability and statistics and SEE 510. Probability and statistics for engineering project cost estimates, system risk assessments, life cycle models and management plans. Offered Spring

**SEE 540. Economic Factors in Systems Engineering. (3 Units)**

Co-requisite: SEE 510 required. Principles of engineering economics; impact of economic factors for systems engineers, tools for understanding and analyzing these factors, fundamental quantitative analysis of cash flow, system life-cost estimating; parametric cost models. Offered Fall

**SEE 550. Modeling and Simulation. (3 Units)**

Prerequisite: SEE 530 required. Application of computer simulation to engineering (sub)systems; systems structure, system analysis, model construction, data collection, and computer simulations tools. Offered Summer

**SEE 560. Model Based Systems Engineering. (3 Units)**

Prerequisite: SEE 530, SEE 540, SEE 550. Co-requisite: SEE 550 required. Application of model curation, model repositories and model integration in MBSE; distinction between engineering models and model-based systems engineering is emphasized. Offered Summer

**SEE 570. Complex Systems Architecture. (3 Units)**

Prerequisite: SEE 515 required. Holistic approach to the process of architecting systems in various engineering disciplines. Architectural as they relate to adaptive, complex and resilient systems. Offered Spring

**SEE 580. System-of-Systems Engineering. (3 Units)**

Prerequisite: SEE 550, SEE 560, SEE 570 required. Critical issues associated with the integration of systems and/or systems-of-systems. Offered Fall

**SEE 590. Master's Project. (3 Units)**

Prerequisite: SEE 504, SEE 505 (may be taken concurrently) and consent of graduate advisor. Co-requisite: SEE 585 required. Individual research on a systems engineering topic under the direction of graduate faculty. Repeatable course. Offered Spring

**SEE 595. Special Topics in Systems Engineering. (1-3 Units)**

Advanced course of special interest to graduate students in Systems Engineering. Topic and content will vary as announced. Repeatable course. One to three hours of lecture each week. Offered Fall, Spring, Summer

**SEE 600. Graduate Continuation Course. (1 Units)**

Prerequisite: Signature of graduate program coordinator required. Graduate students, who have completed their course work but not their thesis, project, or comprehensive examination, or who have other requirements remaining for the completion for their degree, may attain continuous enrollment by enrolling in this course.

## Teacher Education (TED)

**TED 400. Introduction to Education. (3 Units)**

Prerequisite: Admission to Teacher Education. Includes 30 hours of early field experience in K-12 classrooms. Topics include California Teacher Performance Expectations, state content standards, lesson planning / teaching / reflection, and professional, legal and ethical responsibilities of teachers. Computer applications used to complete course tasks. Offered Fall, Spring

**TED 402. Educational Psychology. (3 Units)**

Prerequisite: Admission to Teacher Education. Psychology of learning and motivation related to instruction; emphasis on application of learning principles to classroom learning situations, including multicultural settings. Survey of applicable research from educational psychology and psychology. Mainstreaming students with special needs. Offered Fall, Spring

**TED 403. Elementary Reading/Language Arts I: K-3. (3 Units)**

Prerequisite: Admission to Multiple Subject Program. A balanced approach to teaching reading/language arts grades K through 3. Focus on the foundational skills and strategies needed in the developmental phase of learning to read. Addresses research-based knowledge and instructional practices aligned with the California Reading/Language Arts Framework.

Offered Fall, Spring, All terms

**TED 404. Elem. Reading/Language Arts II: (3 Units)**

Prerequisite: TED 403. A balanced, integrative and interactive perspective to teaching reading/language arts grades 4 through 8. Focus on skills and strategies needed in reading and learning for life. Addresses research-based knowledge and instructional practices aligned with the California Reading/Language Arts Framework.

Offered Fall, Spring, All terms

**TED 405. Mainstreaming Children With Special Needs. (3 Units)**

A course to facilitate the integration of handicapped children into the regular classroom. Covers legal responsibilities, diagnostic/prescriptive teaching, problem solving and visits to special education facilities.

Offered As needed

**TED 406. Teaching Secondary Reading. (3 Units)**

Prerequisite: Admission to Single Subject Program. Procedures, materials for teaching content related reading/writing. Includes use of multicultural literature, instructional technology, interpretation of research in reading comprehension; reading/writing for language diverse populations, classroom based diagnostic tools, cross curricular reading/writing strategies. Microteaching or field experience.

Offered Fall, Spring

**TED 407. Languages in Praxis. (3 Units)**

Prerequisite: LBS 302 is required. Co-requisites: LBS 400 or LBS 405 required. Restricted to LBS majors. Focus on linguistic, social, and cultural factors in schooling language minority students; how factors considered for effective learning practices. Areas of concentration include primary language development, second language acquisition, evaluation, current research.

Offered Fall, Spring

**TED 408. Elementary Art and Music Methods. (2 Units)**

Prerequisite: Admission to Multiple Subject Program. Multicultural methods, materials and strategies for elementary art and music including instructional planning, lesson design and use of appropriate media materials and resources that are culturally and linguistically diverse.

Offered Fall, Spring

**TED 410. Elementary Mathematics Methods. (3 Units)**

Prerequisite: Admission to Multiple Subject Program. Methods and materials for elementary math education. Includes instructional planning, unit development, selection and preparation of curriculum materials, assessment procedures, problem-solving strategies and sheltered mathematics instruction.

Offered Fall, Spring, All terms

**TED 411. Classroom Management Methods. (2 Units)**

Prerequisite: Admission to Teacher Education. Focus on culturally and linguistically sensitive discipline strategies, management and effective teaching of techniques identified by recent research. A minimum of 15 hours field application required.

Offered Fall, Spring

**TED 412. Teaching History-Social Studies and Content Area Literacy in the Elementary Classroom. (4 Units)**

Prerequisite: Admission to Phase 2 Multiple Subject Program; TED 403 is required. An inquiry-based approach to teaching elementary social studies integrated with reading/language arts, aligned with Common Core standards and California Subject Matter Frameworks. Candidates learn strategies to develop social studies content, concepts, and analysis skills, and expository and narrative literacy skills.

Offered Fall, Spring, All terms

**TED 413. Elementary Physical Education, Visual and Performing Arts Methods. (3 Units)**

Methods, materials and strategies for visual and performing arts, physical education, and health, in multiple subject classroom settings; including instructional planning, lesson design and use of appropriate media materials and resources that are culturally and linguistically diverse.

Offered All terms, Fall, Spring

**TED 414. Cultural Ecology in the Classroom. (3 Units)**

Co-requisites: TED 400, TED 402 and TED 407 are recommended. Integrates knowledge of cultural ecologies from the home, school and community. The course of study includes creating learning environments that reflect diversity, positive interactions between students and teacher, culturally responsive classroom management, multiple perspectives as well as a foundational approach to classroom rules, routines, procedures and norms.

Offered Fall, Spring

**TED 415. Multicultural Ed in Urban Cont. (3 Units)**

Prerequisite: Admission to Teacher Education. Analysis and application of the concepts of cultural diversity with emphasis on current issues in education in an urban context. Prepares teachers for multicultural environments and utilization of appropriate materials and methods for culturally, ethnically, and language diverse students.

Offered Fall, Spring

**TED 416. Elementary Science Methods. (3 Units)**

Prerequisite: Admission to Phase 2 of Multiple Subject Credential Program. Methods and materials for project-based elementary science education. Emphasizes inquiry-based instruction and includes instructional planning, multi-day lesson development, selection and preparation of curriculum materials, assessment procedures, problem-solving strategies, sheltered science and language instruction and health.

Offered Fall, Spring

**TED 417. Seminar In Adult Education. (1 Units)**

Prerequisites: Concurrent enrollment in TED 423 is required; TED 418, TED 419 and TED 421. Addresses beginning adult education intern needs for working in ethnically, culturally and language diverse adult school settings. It emphasizes problem solving and discussion of competency checklists used in intern fieldwork. One hour of seminar per week.

Offered As needed

**TED 418. Methods and Materials of Adult Education, Part I. (2 Units)**

Course covers instructional techniques; evaluation of student achievement and the learning process in adult education.

Offered As needed

**TED 419. Methods and Materials of Adult Education, Part II. (2 Units)**

Prerequisite: TED 418. Covers instructional techniques, instructional technology, strategies to address the needs of diverse learners and resources in the Adult Education community. Emphasis will be placed on three specific groups: ESL students, older adults and exceptional adults.

Offered As needed

**TED 420. Computer Literacy for Teachers. (1 Units)**

Prerequisite: Admission to Teacher Education. Focuses on computer basics, terminology, operation and care of computer-related hardware, trouble-shooting techniques, legal and ethical issues, copyright issues, and interacting with others using email and threaded discussion. Credit/no credit grading.

Offered Fall, Spring

**TED 421. Principles Of Adult Education. (2 Units)**

Course is designed to meet the requirements for the Designated Subject Credential. Topics include scope and function of adult education, knowledge of cultural differences in students and communities, curriculum, media and community relationships.

Offered As needed

**TED 423. Super Fld Exper. Adult Ed. (2 Units)**

Prerequisites: TED 421 and TED 422 are recommended. Course is designed to give student practical experiences in teaching adults. Includes participation in classroom, school and communities, and individualized assignments to fulfill the particular needs of each credential applicant. Evaluation of field experience in scheduled seminars. Credit/no credit grading.

Offered As needed

**TED 424. Counseling and Guidance for Teachers of Adult Education. (2 Units)**

Topics will cover counseling techniques to meet special needs of adult students and interpersonal relations/communication skills.

Offered As needed

**TED 425. Workshop In Teaching Methods. (1-3 Units)**

Study of various approaches, methods, and materials related to a selected area of the curriculum. Development of applications at elementary and/or secondary level. Two to six hours of activity per week.

Offered As needed, All terms

**TED 426. Foundations of Education. (6 Units)**

Co-requisite: TED 427 and TED 428 are required. Introduction to the TTT online teacher education program and the teaching profession, with a focus on foundations of education. Topics include the history of education, classroom management, language development for English learners and standard English learners, and students with special needs.

Offered All terms, Fall, Spring

**TED 427. Content Pedagogy I. (6 Units)**

Co-requisites: TED 426 and TED 428 are required. Focuses on lesson planning, standards and objectives, assessment, literacy development, problem-based learning in math and science, online resources, and application of principles of effective instruction in real-world contexts.

Offered All terms, Fall, Spring

**TED 428. Early Field Observation and Participation. (3 Units)**

Co-requisites: TED 426 and TED 427 are required. Consists of a minimum of 40 hours of observation and participation. Candidates will draw on content and strategies from TED 426 and TED 427 in planing lessons for their early field experience. CR/NC grading.

Offered All terms, Fall, Spring

**TED 429. Supporting All Students. (6 Units)**

Prerequisites: TED 426, TED 427 and TED 428 are required. Co-requisites: TED 430 and TED 431 are required. Focuses on developing strategies for supporting every learner, including those with disabilities and special needs. Explores the student Study Team. Addresses school health issues.

Offered Fall, Spring

**TED 430. Content Pedagogy 2. (6 Units)**

Prerequisites: TED 426, TED 427 and TED 428 are required. Co-requisites: TED 429 and TED 431 are required. Focuses on universal access, inductive and deductive teaching strategies, and models of teaching. Compares Direct Instruction with Problem-Based Learning.

Offered Fall, Spring

**TED 431. Lab School Fieldwork Seminar. (3 Units)**

Prerequisites: TED 426, TED 427, and TED 428 are required. Co-requisites: TED 429 and TED 430 are required. Consists of a minimum of 40 hours of observation and participation, plus the completion of specific tasks that develop the candidates' capacity to plan, instruct, assess and reflect in their content area. CR/NC grading.

Offered Fall, Spring

**TED 432. Interdisciplinary Teaching. (6 Units)**

Prerequisites: TED 429, TED 430, and TED 431 are required. Co-requisites: TED 438 and TED 465 are required. Focuses on culture and ways in which teachers broaden their understanding of what students bring to their educational experience so as to build upon it for student success. Expands on concept of Project-Based Learning.

Offered Fall, Spring

**TED 433. Teaching Practices Seminar. (3 Units)**

Prerequisite(s): Admission to Phase Two. Prerequisite: Admission to Phase Two. Student teaching candidates observe and participate in a Multiple Subject classroom with an experienced teacher, accompanied by reflective seminar. Credit/no credit grading. CR/NC grading.

Offered Fall, Spring

**TED 434. Student Teach: Elem I. (3 Units)**

Prerequisite: TED 400 and TED 411. Student teaching with a master teacher at an urban multilingual/multicultural public elementary school. Done in conjunction with methods coursework. Focuses on Teacher Performance Expectations 1 though 13. Credit/no credit grading.

Offered Fall, Spring

**TED 435. Elementary Student Teaching. (12 Units)**

Prerequisite: TED 433. Consists of one semester of supervised classroom practice with a master teacher at an urban multilingual/multicultural public elementary school. Done in conjunction with methods coursework. Focuses on Teacher Performance Expectations 1 through 14. Credit/no credit grading.

Offered Fall, Spring

**TED 436. Seminar: Elementary Student Teachers. (1 Units)**

Problem solving and use of competency checklists in student teaching at the elementary level. Credit/no credit grading. One hour of seminar per week.

Offered As needed

**TED 437. Elem Stu Teaching (integrated). (9 Units)**

Prerequisite: TED 433. Consists of one semester of supervised classroom practice with a master teacher at an urban multilingual/multicultural public elementary school. Done in conjunction with methods coursework. Focuses on Teacher Performance Expectations 1 through 13. Credit/no credit grading.

Offered Fall, Spring

**TED 438. Teaching Event and Assessment. (3 Units)**

Prerequisites TED 429, TED 430, and TED 431 are required. Corequisites: TED 432 and TED 465 are required. Candidates complete the Teaching Event, the required summative, assessment, by demonstrating competency in all Teacher Performance Expectations. Candidates focus on student learning, select a learning segment, submit teaching artifacts and analysis, and assess the teaching event. CR/NC grading. Offered Fall, Spring

**TED 439. Heritage Language Learner Pedagogies with Plurilingual TK-12 Students. (3 Units)**

This course explores native and heritage language learning pedagogies in dual language classrooms with attention to TK-12 Latinx student experiences. Students engage in transformative curricular design with an emphasis on translanguaging. Course taught in Spanish.

**TED 440. Critical Biliteracy with Plurilingual Communities. (3 Units)**

This course explores asset based critical biliteracy pedagogies in multilingual TK-12 school communities. Students engage in collective curricular design process with an emphasis on developing critical biliteracy across content areas with students and families. Course taught in Spanish.

**TED 445. Fieldwork: Elementary Interns. (6 Units)**

Prerequisite: Admission to Fieldwork. Consists of two semesters of supervised classroom practice. Credit/no credit grading. Offered Fall, Spring

**TED 446. Introduction to Internship: Multiple Subject University Intern. (1 Units)**

Prerequisite: Admission to Fieldwork. Introduction to Critical Friends Inquiry Groups for elementary University Interns. Focus on reflective teacher inquiry, cognitive coaching, peer review and self-assessment. A-B/no credit grading. Offered Infrequent, All terms

**TED 447. Intern Performance Assessment: Multiple Subject. (4 Units)**

Prerequisite: TED 404. Assessment Seminar. Critical reflection on intern performance and student achievement correlated with the 13 Teacher Performance Expectations. Offered As needed

**TED 448. Teaching Event: Multiple Subject. (2 Units)**

Prerequisite: Admission to Phase Two. Candidates complete the Teaching Event, the required summative assessment, by demonstrating competency in all Teacher Performance Expectations. Candidates focus on student learning, select a learning segment, submit teaching artifacts and analysis, and assess the teaching event. Credit/no credit grading. Offered Fall, Spring

**TED 453. Teaching Practices Seminar. (3 Units)**

Prerequisite: Admission to Phase Two. Student teaching candidates observe and participate in a single subject classroom with an experienced teacher accompanied by reflective seminar. Credit/no credit grading. Offered Fall, Spring

**TED 454. Student Teaching Secondary I. (3 Units)**

Prerequisite: TED 400 and TED 411. Student teaching with a master teacher at an urban multilingual/multicultural public secondary school. Done in conjunction with methods coursework. Focuses on Teacher Performance Expectations 1 through 13. Credit/no credit grading. Offered As needed

**TED 455. Student Teaching: Secondary. (12 Units)**

Prerequisite: TED 453. Consists of one semester of supervised classroom practice with a master teacher at an urban multilingual/multicultural public secondary school. Done in conjunction with methods coursework. Focuses on Teacher Performance Expectations 1 through 13. Credit/no credit grading. Offered As needed

**TED 456. Seminar: Secondary Student Teachers. (1 Units)**

Problem solving and discussion of competency check lists used in student teaching in multilingual, multiethnic, and multicultural secondary settings. CR/NC grading. Offered As needed

**TED 457. Student Teaching: Secondary II. (9 Units)**

Prerequisite: TED 454. Consists of one semester of supervised classroom practice with a master teacher at an urban multilingual/multicultural public elementary school. Done in conjunction with methods coursework. Focuses on Teacher Performance Expectations 1 through 13. Credit/no credit grading. Offered As needed

**TED 460. Creating a Supportive Healthy Environment for Secondary Student Learning. (1 Units)**

Prerequisite: Admission to Single Subject Program. Single Subject credential candidates learn how to create a supportive healthy environment for secondary student learning. Offered Fall, Spring

**TED 465. Fieldwork: Secondary Interns. (6 Units)**

Prerequisite: Admission to Fieldwork. Consists of two semesters of supervised classroom practice. Credit/no credit grading. Offered Fall, Spring

**TED 466. Introduction to Internship: Single Subject University Intern. (1 Units)**

Prerequisite: Admission to Fieldwork. Introduction to Critical Friends Inquiry Groups for secondary University Interns. Focus on reflective teacher inquiry, cognitive coaching, peer review and self-assessment. Offered Infrequent

**TED 467. Secondary Teaching Methods I. (3 Units)**

Prerequisite: Admission to Single Subject Program. Principles of effective instruction, critical thinking/questioning skills, lesson design, cooperative learning, sheltered instruction, guided discovery; curriculum materials for culturally, ethnically, and language diverse content classrooms. Offered Fall, Spring

**TED 468. Secondary Teaching Methods II. (3 Units)**

Prerequisite: Admission to Single Subject Program. Taken in single subject credential area. Explores methods and materials for planning instructional units and lessons. Presents alternative strategies of instruction and evaluation to assure high-level learning with ethnically, culturally, and language diverse students. Offered Fall, Spring

**TED 469. Interdisciplinary Teaching Methods. (3 Units)**

Prerequisite: Acceptance to intern status in single subject program or advancement to fieldwork status; TED 467 and TED 468; TED 406 recommended. Explores interdisciplinary teaching methods for the multicultural, multilingual classroom including psychological, philosophical perspectives. Presents strategies, practices, and resources for developing an integrated curriculum. Offered As needed

**TED 470. Critical Perspectives in Urban Education. (2 Units)**

Prerequisite: TED 444. Capstone experience. Focuses on the professional obligations of teachers in society and the role of families and the community in the education of children. Addresses the historical, philosophical, cultural, and sociological foundations of American education from an equity perspective.

Offered As needed

**TED 471. Secondary Methods III: Curriculum and Assessment. (3 Units)**

Prerequisite: TED 467; concurrent enrollment in TED 468 recommended. Focus on interdisciplinary curriculum and assessment. Includes diagnostic, formative, and summative assessment. Focuses on evaluation, grading procedures, and use and interpretation of standardized exams as tools for instruction and monitoring of achievement.

Offered As needed

**TED 472. Intern Performance Assessment: Single Subject. (4 Units)**

Assessment Seminar. Critical reflection on intern performance and student achievement correlated with the 13 Teacher Performance Expectations.

Offered As needed

**TED 476. Summative Assessment Seminar: Phase Two Multiple Subject Student Teachers. (2 Units)**

Prerequisite: TED 475. Summative Assessment Seminar to complete reflective essay and performance task. Credit/no credit grading.

Offered As needed

**TED 481. Summative Assessment Seminar: Phase Two Single Subject Student Teachers. (2 Units)**

Summative Assessment Seminar to complete reflective essay and performance task. Credit/no credit grading

Offered As needed

**TED 488. Teaching Event: Single Subject. (2 Units)**

Prerequisite: Admission to Phase Two. Candidates complete the Teaching Event, the required summative assessment, by demonstrating competency in all Teacher Performance Expectations. Candidates focus on student learning, select a learning segment, submit teaching artifacts and analysis, and assess the teaching event. Credit/no credit grading.

Offered Infrequent

**TED 490. Seminar: Issues in Education. (1-3 Units)**

Identification of significant and persistent issues in education, to evaluate policy statements and published opinions with an awareness of elements involved. Repeatable course. One to three hours of seminar per week.

Offered As needed

**TED 494. Independent Study. (1-3 Units)**

Prerequisite: Consent of instructor. Independent study taken under the supervision of a faculty member. Repeatable course.

Offered As needed

**TED 495. Special Topics in Teacher Education. (1-6 Units)**

Selected topics in teacher education. Repeatable course up to six units.

Offered As needed

**TED 501. Lesson Study: Engaging all Students in Learning. (3 Units)**

Prerequisites: GED 500 is required. Introduction to the foundations of lesson study and its analysis for induction candidates. Collaboration in designing, observing and discussing lessons to provide universal access and engage all students in learning. Focus on English Learners, GATE students and students with special needs. Course is restricted to majors.

Offered Spring

**TED 502. Advanced Lesson Study II: Using Data to Improve Achievement. (3 Units)**

Prerequisites: GED 500 is required. Advanced lesson study and its analysis for induction candidates. Collaboration in collecting, analyzing and using data to improve student learning. Focus on students who may be at risk. Course is restricted to majors.

Offered Fall

**TED 503. Teacher Action Research Project. (3 Units)**

Teacher action research methods course for induction teachers working in urban diverse classrooms. Candidates conduct inquiries on professional practices using scientific methods to improve student achievement.

Offered Spring

**TED 504. Colloquium. (3 Units)**

Prerequisite: GED 500 is required. Induction candidates do an in-depth intervention to increase student achievement. Multimedia presentation disseminating findings. Focus on students who may be at risk. Course is restricted to majors.

Offered Spring

**TED 505. Educational Psychology. (3 Units)**

Explores theory, research, and practice related to learning, motivation, and effective and cognitive development. Emphasis on the application of learning principles to classroom learning situations and individual differences.

Offered Fall, Spring

**TED 506. Multicultural and Social Foundations of Education. (3 Units)**

An investigation and analysis of cultural influences and constructs such as race, gender and class to provide insight into the relationship among the individual, society and school in US education.

Offered Fall, Spring

**TED 507. Language Learning: Theory and Practice. (3 Units)**

Focuses on theory, research, and teaching practices that concern language in education. using sociocultural theory as a lens, evaluate research and teaching practices that explore how people acquire language in multilingual and multimodal contexts within community, home and school settings.

Offered Fall, Spring

**TED 551. Supportive Learning Environments. (3 Units)**

Co-requisite: SPE 570. Candidates develop integrated systems for academic and social skills instruction for all students. Course includes study of behavior, positive behavioral interventions and supports, social skills instruction, crisis management, at the school-wide, classroom and individual student level.

Offered Fall, Spring

**TED 553. Curriculum Planning, Implementation and Assessment. (3 Units)**

Prerequisites: TED 551 and SPE 570 are required. Co-requisite: SPE 571 is required. In-depth study of the processes of curriculum planning, implementation and assessment, and application of these processes to student-generated lessons and units of instruction. Addresses California Standards for the Teaching Profession, data-driven decision making, differentiated instruction, problem-based learning, and instructional leadership.

Offered Fall, Spring

**TED 560. MA in Education: Curriculum and Instruction Capstone. (1 Units)**

Prerequisites: CUR 510 and CUR 519 are required. Preparation for the M.A. in Education Comprehensive Exam. Consists of small group, candidate presentations of specific TED, GED, and CUR course material. Offered Fall, Spring

**TED 594. Independent Study. (1-6 Units)**

Prerequisite: Consent of instructor. Independent research under the supervision of a faculty member. Offered Fall, Spring, Summer

**TED 599. Thesis. (1-6 Units)**

Prerequisite: Consent of Advisor. The student will execute an individually planned research effort or a creative project. Students work under individual supervision with assigned faculty. May be repeated up to six units. Offered Fall, Spring

**TED 600. Grad Continuation Course. (1 Units)**

Graduate students who have completed their course work but not their thesis, project, or comprehensive examinations, or who have other requirements remaining for the completion of their degree, may maintain continuous attendance by enrolling in this course. Signature of graduate program coordinator required. Offered Fall, Spring

## Technology Based Education (TBE)

**TBE 518. Current Topics in Educ. Tech.. (3 Units)**

Prerequisite: TBE 520. Provides information about topics of current interest in educational technology. Course content and requirements vary by semester. Offered Fall

**TBE 520. Intro Computers In Edu. (3 Units)**

Presents the uses of computers in educational settings, including: computer assisted instruction, criteria for software and hardware selection, computer-assisted testing, and an introduction to programming. Laboratory in educational computing provides experience in the following areas: Word processing, LOGO and BASIC programming, computerized grade books, computer-assisted testing and computer graphics. Offered Infrequent

**TBE 530. Graph/Word Proc/Dsk Tp Pub. (3 Units)**

Prerequisite: TBE 520 or consent of instructor. Prepares students to use both paint and object-oriented graphics, word processing and desktop publishing software in preparing educational materials. Prepares the teachers who are students of this course to teach these skills to their pupils in the public schools. Offered Spring

**TBE 540. Programming Applic Edu. (3 Units)**

Prerequisite: TBE 520. Fundamentals of computer programming logic using LOGO and web page development. Emphasis is on instructional design and the creation of classroom-related materials. Offered Fall

**TBE 550. Computer-Managed Instruction. (3 Units)**

Prerequisite: TBE 520. This class presents skills for managing computer-based instruction, including IBM, Macintosh and Apple II series hardware and software troubleshooting, computer lab supervision, telecommunications, networking, and in-service training design and presentation. Offered Fall, Spring

**TBE 560. Prep Comp Asst Instr. (3 Units)**

Prerequisite: TBE 540 or consent of instructor. Prepares students to plan and write drill and practice lessons, tutorials, simulations, tests, and supporting materials for computer assisted instruction. Offered Fall

**TBE 570. CAI Final Project. (3 Units)**

Prerequisite: TBE 560 or consent of instructor. This capstone activity requires the student to develop, field-test and evaluate the effectiveness of a computer assisted instructional product. Offered Spring

**TBE 580. ePortfolio Development. (3 Units)**

Prerequisite: TBE 560 is required. TBE 570 is recommended. Create an ePortfolio containing evidence using projects, papers, and/or activities demonstrating mastery of ISTE Technology Facilitation standards. The evidence for each standard must be accompanied by a written justification showing how the evidence meets the standard. Offered Infrequent

## Theatre Arts (THE)

**THE 100. Television Film & Theatre. (3 Units)**

Appreciation of the performing arts of television, film, and the live theatre through the viewing of films and videotapes, as well as attendance at plays and musicals. Offered Fall, Spring

**THE 120. Fundamentals of Speech. (3 Units)**

Introduction to the basic principles of speech communication. Classes cover the use of organization and evidence in speech preparation, and emphasize research and performance techniques. Students develop speeches for a variety of topics and situations. A-C-/NC grading. Offered Fall, Spring, Summer

**THE 160. Acting For Non-Majors. (3 Units)**

Introductory course for non-majors who wish to develop awareness and control of the voice and body while building self-confidence, and improving concentration and imagination. Offered Fall, All terms

**THE 251. Script Analysis. (3 Units)**

A study of classical and contemporary dramas in terms of plot, character, theme, and language. Students analyze one script per week. Offered Fall

**THE 264. Acting I. (3 Units)**

An integrative approach to the actor's emotional, intellectual, physical, and vocal tools. Exercises in characterization, voice, and movement will be emphasized. Offered Fall

**THE 269. Voice and Movement. (3 Units)**

Foundational course for anyone interested in performing in Theatre, Film, or Television, or improving their speaking voice and strengthening their body. Voice and Movement allows students to engage their voices and body to effectively speak and communicate. Offered All terms, Spring



**THE 313. Voices of Contemporary Women Playwrights. (3 Units)**

Prerequisite: Upper division integrative coursework must be taken after 60 semester units and the lower division components of General Education (or their equivalent) have been completed. By analyzing their dynamic writings, this course investigates the contributions of women to the modern dialogue on gender issues. Students will demonstrate how female playwrights have continually crossed boundaries to break with traditions and sculpt new cultural conventions.

Offered Fall, Spring

**THE 315. Key Concepts: The American Musical. (3 Units)**

Participation in any aspect of campus theatre or television production including (but not limited to) acting, stage management, scenery, lighting, costume, construction, audio, properties, box office, promotion, and running crews. This participation includes attendance at Theatre Arts productions for the semester enrolled.

Offered Infrequent

**THE 317. Theatre of Revolt. (3 Units)**

Prerequisites: Upper division integrative coursework must be taken after 60 semester units and the lower division components of General Education (or their equivalent) have been completed. Investigates the revolutionary impulse that has promoted modern drama in African, European, American and Asian/Pacific societies. Students learn how modern playwrights have continually crossed boundaries to break with traditions and sculpt new conventions.

Offered Fall

**THE 319. The Power of Masks. (3 Units)**

Prerequisites: Upper-division integrative coursework must be taken after 60 semester units and the lower division components of General Education (or their equivalent) have been completed. Covers the significance and function of ritual masks in African, European, American and Asian/Pacific societies; mask usage in literature, and the visual and performing arts; and the integration of psychological masking in human behavior.

Offered Fall

**THE 320. Speech Skills and Techniques. (3 Units)**

Effective and persuasive oral communication in a variety of situations: formal address, group discussion interviews, chairing of meetings, and others. Of particular value for Liberal Studies majors, managers and business persons.

Offered Spring

**THE 322. Oral Interpretation of Literature. (3 Units)**

Principles and practice in the effective delivery of readings in drama, poetry, and prose.

Offered Spring

**THE 323. Interpersonal Communication. (3 Units)**

Prerequisite: THE 120. Introductory study of interpersonal communication in face-to-face interaction; consideration of interpersonal roles, needs, barriers, perceptions, and adaptation.

Offered Infrequent

**THE 326. Persuasion. (3 Units)**

Discussion of techniques in argumentation and debate; logic, reasoning, and fallacies of reasoning; gathering and testing of evidence, construction of bases, and skills of refutation; practical application through debates about current issues.

Offered Infrequent

**THE 329. Forensics Workshop. (3 Units)**

Introduces the basic principles used in debate, persuasive speaking, oral interpretation, reader's theatre, and other competition events. Students discuss the use of organization and evidence in speech preparation, and research and performance techniques. Students participate in local intercollegiate competition events.

Offered Spring

**THE 337. Creative Dramatics. (3 Units)**

Creating, planning and assessing dramatic exercises, including theatre games, pantomime, and improvisation. Of particular value to prospective teachers of young children.

Offered Spring, All terms

**THE 339. Multicultural Children's Theatre. (3 Units)**

Analysis of educational theatre, multicultural plays, and folktales. Students discuss educational theatre production and how to create culturally-enriching programs at K-12 schools.

Offered Fall

**THE 340. Costuming. (3 Units)**

An introduction to the principles, elements and practicalities of costume design and their relation to design in the Theatre. Lectures on the elements and procedures in costume design, combined with practical exercises from individual skill-building projects.

Offered Spring odd

**THE 341. Makeup and Hair. (3 Units)**

An introduction to the principles, elements and practicalities of Makeup and Hair for theatre production. Students learn how to communicate design choices both visually and verbally through research, drawing and three dimensional makeup.

Offered Spring

**THE 342. Fundamentals of Theatre Design. (3 Units)**

A course in Theatre Arts Utilizing research, discussion and workshop demonstrations in order to integrate the six major areas of theatre design: scenery, costume, lighting, makeup, properties and audio.

Offered Fall

**THE 343. Design/Tech II: The Design Experience. (3 Units)**

Prerequisites: THE 243. Students are assigned design projects both on and off campus, where they can apply their skills. Students will work under the supervision of lead and/or master designers.

Offered Spring

**THE 344. Stagecraft. (3 Units)**

Study of basic skills and procedures used to realize a design idea into a finished stage production. Explores practical applications of artistic and structural design, project management, term development, construction techniques, and resource coordination.

Offered All terms, Spring

**THE 345. Scene Design. (3 Units)**

The basic techniques of the principles and practices of scenic design for stage. Included are design functions, construction, painting, modeling, history and theories of design.

Offered All terms, Spring

**THE 346. Theatre Workshop. (3 Units)**

Prerequisites: Consent of instructor and department chair. Investigation of a single topic, chosen in consultation with a faculty member, culminating in a paper, presentation, or project. Repeatable course.

Offered Fall, Spring

**THE 347. Stage Lighting and Sound. (3 Units)**

A course in the design of theatrical lighting and sound, and in the practical application of those designs. Learning in this course will be done via lectures as well as hands-on experience and selected reading. Offered Fall

**THE 353. Playwriting. (3 Units)**

Theory and practice in writing for the stage. Students explore plotting, characterization, and dialogue; scenes and short plays are submitted for discussion and evaluation. Offered Fall, All terms

**THE 355. World Theatre and Drama I. (3 Units)**

History and literature of the theatre from its origins through the 16th century. Emphasis on production styles, cultural background and literary trends.

Offered Fall, Spring, All terms

**THE 357. World Theatre & Drama II. (3 Units)**

History and literature of the theatre from the 16th century to the present with emphasis on production styles, cultural background and literary trends.

Offered Spring

**THE 364. Acting II. (3 Units)**

Prerequisites: THE 264 or consent of instructor. The actor's approach to a role, including text and character analysis. Performance of scenes from plays. Vocal work on dialects with concentration on melody, rhythm, and sound substitutions. Beginning movement work in body alignment, centering and balance.

Offered Spring

**THE 367. Acting For The Camera. (3 Units)**

Prerequisites: THE 160 or consent of instructor. Techniques of directing and performing before the camera. Scenes and presentations will be videotaped both in the studio and on location.

Offered Infrequent

**THE 374. Stage Directing. (3 Units)**

Prerequisites: THE 264 is recommended. Theories and techniques of directing for professional or educational play production. Students develop the ability to research, analyze and conceptualize in order to plan the rehearsal and performance of a play script. Attendance at the Theatre Arts two mainstage productions is required.

Offered Fall odd

**THE 376. Stage Management. (3 Units)**

Techniques of stage management, with practical applications. Covers stage manager responsibilities, pre-show preparations, scheduling, communication, and techniques for auditioning, rehearsing and running a production of live theatre. Attendance at department shows required.

Offered Fall

**THE 440. Rehearsal and Performance. (1 Units)**

Prerequisite: Audition or Approval of the Instructor Supervised activity as a performer or theatre technician in a Theatre Program approved, University sponsored production. Repeatable for credit.

Offered Fall, Spring

**THE 453. Contemporary Drama. (3 Units)**

A study of plays by American and international writers from the last twenty-five years. Emphasis on the works of playwrights from traditionally underrepresented groups.

Offered Infrequent

**THE 464. Acting III. (3 Units)**

Prerequisites: THE 264 and THE 364 or consent of instructor. Study and performance of period scenes involving methods of approaching various types of plays and specific problems they present the actor. Emphasis on the synthesis of analysis, action, characterization, subtext, vocal problems posed by verse and exploration of advanced movement techniques.

Offered Fall

**THE 490. Seminar In Theatre Arts. (3 Units)**

Prerequisite: Consent of instructor. Discussion and exploration of advanced problems in Theatre Arts. Intensive study of one or more subjects relating to the theatre and drama. Three hours of seminar per week.

Offered Spring

**THE 494. Independent Study. (1-3 Units)**

Offered Fall, Spring

**THE 495. Special Topics In Theatre. (1-3 Units)**

Study of a single topic in drama and theatre, to be determined by the instructor. Topic varies each offering. Repeatable course. One to three hours of lecture per week.

Offered Infrequent

**THE 496. Off Campus Internship. (1 Units)**

Prerequisites: THE 326 and THE 328. Directed work experience in the industries of local professional theatre, cable television, broadcast stations and networks, production houses, or motion picture studios under the supervision of a professionally-qualified mentor. CR/NC grading only. Repeatable course. Ten hours of work experience per week.

Offered Infrequent

**THE 499. Senior Project. (2 Units)**

A capstone course culminating in the production of a final, collaborative project. Selected in consultation with and evaluated by a faculty panel.

Offered Fall, Spring

## Transitional Kindergarten (TKK)

**TKK 501. Dynamics of Early Childhood Development and Growth. (3 Units)**

Focus on understanding child development and learning. Child development includes the stages of physical, social, cognitive and linguistic growth from birth through age eight. Observation, assessment, culturally responsive and developmentally appropriate practices will be included.

Offered Infrequent

**TKK 502. Critical Literacy and Social Studies for Young Children. (3 Units)**

Prerequisites: TED 505 and TKK 501 are required. Through a critical lens, this course will address an integrated approach to the teaching and learning of social science and literacy with specific emphasis on social justice issues to evoke curiosity and imagination of young children that will lead them to solve problems and take action as emergent readers.

Restricted to majors.

Offered Infrequent

**TKK 503. Mathematical and Scientific Concepts and Reasoning for Young Children. (3 Units)**

Prerequisites: TED 505 and TKK 501 are required. This course is designed to explore developmentally appropriate constructivist methods and materials for teaching mathematics and scientific concepts and reasoning to young children. This course includes instructional planning, unit development, selection and preparation of curriculum materials, assessment procedures, and problem-solving strategies. Restricted to majors.

Offered Infrequent

## University Courses (UNV)

**UNV 101. Personal, Social and Intellectual Development. (3 Units)**

A consideration of individual development with the goal of increasing knowledge of self and others within the University. Topics include self-knowledge and assessment, learning to learn, career development, and making the best use of university resources.

Offered Fall, Spring

**UNV 110. Dominguez Hills Experience. (2 Units)**

Introduction to resources, services, policies and procedures of the University; teaching of effective listening, inter-personal communication, term paper preparation, and other skills which will enhance and facilitate the educational experience.

Offered Infrequent

**UNV 194. Independent Study. (1-3 Units)**

Offered Infrequent

**UNV 196. Internship. (1-3 Units)**

Offered Infrequent

**UNV 222. Learning How to Study. (2 Units)**

Provides clarity regarding tasks to accomplish when studying and the tools to do it. Covers skills ranging from mastering a concept to figuring out your term paper topic prior to the night before it's due. Lecture and practice format.

Offered As needed

**UNV 289. Leadership Development. (3 Units)**

Enhance students' ability to apply leadership theories/concepts, critical/reflective thinking, and improve student leadership on campus. Weekly lectures combined with 30 hours of community service. Topics include personality types, leadership styles, organizational development, affecting change, involving organizations, and diversity.

Offered Fall, Spring

**UNV 294. Independent Study. (1-3 Units)**

Offered As needed

**UNV 295. Selected Topics:. (1-3 Units)**

A course in a topic of special interest to both faculty and students for which no current course exists. Topic will be announced in the Schedule of Classes. Repeatable for credit.

Offered As needed

**UNV 296. Internship. (1-3 Units)**

Offered Fall, Spring

**UNV 300. Early Field Experience. (2 Units)**

Prerequisite: LIVESCAN and Negative TB. Provides prospective single subject teachers with planned, structured field experiences in departmentalized classrooms in middle and senior high schools. Minimum of 45 hours of observation/participation in public schools, grades 7-12, is required. Credit/no credit grading.

Offered Fall, Spring

**UNV 380. Portfolio Preparation. (1 Units)**

Prerequisite: Completion of 30 units in residence prior to assessment. Supervised preparation of a Portfolio to Assess Prior Learning. CR/NC grading.

Offered Fall, Spring

**UNV 382. Assess Of Prior Learn. (1-11 Units)**

Prerequisite: Completion of 30 units in residence prior to assessment. Evaluation of Portfolio of Prior Learning. Prior learning is evaluated for credit by faculty experts in various departments. Credit may be used as elective units or, on approval of Department Chair, as part of requirements for a major or a minor. CR/NC grading. Repeatable course.

Offered Fall, Spring

**UNV 394. Independent Study. (1-3 Units)**

Offered Fall, Spring

**UNV 395. Special Topics:. (1-3 Units)**

A course in a topic of special interest to both faculty and students for which no current course exists. Topic will be announced in the Schedule of Classes. Repeatable for credit. Graduate

Offered As needed

**UNV 396. Internship. (1-3 Units)**

Offered Fall, Spring

**UNV 492. Study Abroad Enrollment. (1-15 Units)**

Offered All terms

**UNV 494. Independent Study. (1-20 Units)**

Offered Fall, Spring

**UNV 495. Special Topics. (1-15 Units)**

Offered As needed

**UNV 496. Internship. (1-3 Units)**

Offered As needed

**UNV 600. Graduate Continuation Course. (1 Units)**

Graduate students who have completed their course work but not their culminating event or who have other requirements remaining for the completion of their degree, may maintain continuous attendance by enrolling in this course. Signature of graduate program director required.

Infrequently Offered Courses

Offered Fall, Spring

## Women's Studies (WMS)

**WMS 100. Gender, Sex, the Body, & Politics: An Introduction. (3 Units)**

An introduction to the rapidly expanding body of literature related to the gendered aspects of health and sexuality with an emphasis on women.

Offered Fall, Spring

**WMS 200. Foundations in Queer Studies. (3 Units)**

An introduction to the field of Queer Studies by analyzing the role of gender, race, class, ability, and nationalism in the construction of modern lesbian, gay, bisexual, and trans (LGBT) identities, and it considers how queerness can operate as a disruption, expansion, or refusal of these identity categories.

Offered Fall, Spring, Summer

**WMS 250. Foundations in Women's Studies. (3 Units)**

Introduces students to Women's Studies. Students learn about gender from a multicultural, multiracial feminist and global perspective. Emphasis is on women's history; gender, culture, and nation; social institutions; sexuality, sexism, and violence; and local and transnational women's movements.

Offered Fall, Spring, Summer

**WMS 295. Special Topics in Women's Studies. (1-3 Units)**

An introductory study of an issue or a concept in Women's Studies that is of particular interest to both the faculty member and the students. Repeatable course with different topics. Offered As needed

**WMS 310. The Witch in Literature. (3 Units)**

Examines representation of the witch and witchcraft in literature and culture in different historical periods and cultures. Offered Fall, Spring, Summer

**WMS 311. Comedy, Sex and Gender. (3 Units)**

Examines representations of gender and sexuality in comedy and humor from multicultural perspectives. Topics include feminist humor and comedy as vehicles of social criticism and advocacy, and the relationships of the comedic to ethnicity, race and class. Offered As needed

**WMS 314. Feminism and Film. (3 Units)**

Introduces issues that feminist theory poses for the analysis of film and culture. It focuses on women's contributions to, and representations in, film. Offered As needed

**WMS 315. Literary Topics in Gender Studies and Sexuality Studies. (3 Units)**

Provides comparatist perspectives on the representation of women's roles and rights as expressed in a variety of writings from different historical periods and cultures. Students will gain an understanding of women's differential treatment in legal systems and social institutions from antiquity to present. Offered As needed

**WMS 318. Race, Class and Gender. (3 Units)**

This cross-cultural, interdisciplinary course introduces students to women's issues as these interface with race and class. Students will recognize, analyze and evaluate the socio-political and economic forces that affect women's lives through a critical examination of race, class and gender. Offered Fall, Spring, Summer

**WMS 320. Feminist Principles. (3 Units)**

Prerequisite: WMS 250 is required. A primer to principles of feminist philosophy, history, thought, methodology and current issues pertaining to women. Offered Fall

**WMS 330. Queer Art and Visual Culture. (3 Units)**

Offers a reflection on key art practices and theories which develop an understanding of queerness. Stepping away from 'queer' as an identity marker, the readings and work offered will articulate how queer operates as a verb to subvert or wholly turn away from the conventional understandings of life to cultivate radical alternatives. Each week a theoretical text is paired with a 'case study' to offer an opening conversation on the political implications of queering art. Offered Fall, Spring, Summer

**WMS 340. Politics of Women's (Un)Paid Labor. (3 Units)**

Focuses on women's labor participation in the family and society. Topics include women in professional and domestic labor markets, the politics of mothering and maternal labor, sex work, family policies, labor rights, wage gaps, and invisible work. Offered Fall, Spring, Summer

**WMS 350. Feminist Research Methods. (3 Units)**

Prerequisites: WMS 250 and WMS 320 required. A primer to feminist research methods. Students will be introduced to a variety of ways in which feminists question and approach the production of knowledge. Offered Spring

**WMS 380. Gender and Sexuality in Popular Culture. (3 Units)**

Introduction to contemporary US popular culture, with a focus on the ways popular culture production, consumption and representation reinforce and resist ideologies about gender, race, and sexual orientation. Offered Fall, Spring, Summer

**WMS 390. Transnational Feminisms. (3 Units)**

Leaning away from older models of Global "Sisterhood" which privilege a singular western-focused model of democracy and gender, transnational feminisms are interested in respecting difference to understand local, historical, economic, and (post)-colonial conditions that women draw on to articulate resistance. This course offers differences between global feminism and transnational feminisms by moving through examples and case studies of how transnational feminisms look on the ground and in response to different modes of oppression. Offered Spring

**WMS 395. Selected Topics in Women's Studies. (3 Units)**

Study of an issue or a concept in Women's Studies that is of particular interest to both the faculty member and the students. Repeatable course with different topics. Repeatable for credit. Offered As needed

**WMS 400. Feminist Theories. (3 Units)**

Prerequisites: WMS 350 required. Advanced study in feminist theory. Course addresses major concepts and assumptions of feminist study in order to better understand how to address societal and power inequalities and to improve women's status globally. Offered Fall

**WMS 410. Queer of Color Critique. (3 Units)**

Brings Women of Color Feminisms to bear on Queer theory to understand that people have (political or intimate) desires and attachments which are not always legible. Familiarizes students with the cultural, political and economic concerns of QoCC and how it interrupts socially dominant categories of sexuality. Offered Fall, Spring, Summer

**WMS 490. Senior Capstone. (3 Units)**

Prerequisite: WMS 400 required. A critical analysis and interpretation of major feminist theories and contemporary issues in women's studies. Special attention will be paid to different discourse communities - academic, internet, personal - as they relate to feminism and the women's movement, in order to help students think more deeply about being a reader and writer of feminist scholarship. Students will be exposed to influential and emergent feminist theories in order to produce original research projects, papers, and/or creative works. A grade of C or better in this course fulfills the GVAR requirement for all Biology majors and minors. Offered Spring

**WMS 494. Independent Study. (1-3 Units)**

Prerequisites: Consent of instructor and program coordinator. Independent study of a particular problem, issue, or readings under the direction of a member of the Women's Studies faculty. Course is not repeatable for credit in the Women's Studies minor. Offered As needed

**WMS 495. Special Tpcs: Women's Studies. (3 Units)**

An intensive study of an issue or a concept in Women's Studies that is of particular interest to both the faculty member and the students.

Repeatable course with different topics. Three hours of seminar per week.

Offered As needed

**WMS 496. Internship in Women's Studies. (3 Units)**

Practical application of coursework in Women's Studies through supervised work and field experience in politics, law, art, communications, social welfare agencies or other area as approved by the instructor and coordinator of the program. Course is not repeatable for credit in the Women's Studies minor.

Offered Fall, Spring

# ACADEMICS

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Program	College	Level	Type
Accounting, Master of Science ( <a href="https://catalog.csudh.edu/academics/accounting/accounting-ms/">https://catalog.csudh.edu/academics/accounting/accounting-ms/</a> )	Business Administration and Public Policy	Graduate	Master
Advertising and Public Relations, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/advertising-public-relations/advertising-public-relations-ba/">https://catalog.csudh.edu/academics/advertising-public-relations/advertising-public-relations-ba/</a> )	Arts and Humanities	Undergraduate	Bachelor
Africana Studies, BA: Cultural Studies Concentration ( <a href="https://catalog.csudh.edu/academics/africana-studies/africana-studies-ba/cultural-studies-concentration/">https://catalog.csudh.edu/academics/africana-studies/africana-studies-ba/cultural-studies-concentration/</a> )	Arts and Humanities	Undergraduate	Bachelor
Africana Studies, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/africana-studies/africana-studies-ba/">https://catalog.csudh.edu/academics/africana-studies/africana-studies-ba/</a> )	Arts and Humanities	Undergraduate	Bachelor
Africana Studies, BA: Social Sciences Concentration ( <a href="https://catalog.csudh.edu/academics/africana-studies/africana-studies-ba/social-sciences-concentration/">https://catalog.csudh.edu/academics/africana-studies/africana-studies-ba/social-sciences-concentration/</a> )	Arts and Humanities	Undergraduate	Bachelor
Africana Studies, Minor ( <a href="https://catalog.csudh.edu/academics/africana-studies/africana-studies-minor/">https://catalog.csudh.edu/academics/africana-studies/africana-studies-minor/</a> )	Arts and Humanities	Undergraduate	Minor
Anthropology, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/anthropology/anthropology-ba/">https://catalog.csudh.edu/academics/anthropology/anthropology-ba/</a> )	Natural and Behavioral Sciences	Undergraduate	Bachelor
Anthropology, Minor ( <a href="https://catalog.csudh.edu/academics/anthropology/anthropology-minor/">https://catalog.csudh.edu/academics/anthropology/anthropology-minor/</a> )	Natural and Behavioral Sciences	Undergraduate	Minor
Cultural Resource Management, Certificate ( <a href="https://catalog.csudh.edu/academics/anthropology/cultural-resource-management-certificate/">https://catalog.csudh.edu/academics/anthropology/cultural-resource-management-certificate/</a> )	Natural and Behavioral Sciences	Undergraduate	Cert
Indigenous Peoples of the Americas, Minor ( <a href="https://catalog.csudh.edu/academics/anthropology/indigenous-peoples-americas-minor/">https://catalog.csudh.edu/academics/anthropology/indigenous-peoples-americas-minor/</a> )	Natural and Behavioral Sciences	Undergraduate	Minor
Art, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/art-design/art-ba/">https://catalog.csudh.edu/academics/art-design/art-ba/</a> )	Arts and Humanities	Undergraduate	Bachelor
Art, Minor ( <a href="https://catalog.csudh.edu/academics/art-design/art-minor/">https://catalog.csudh.edu/academics/art-design/art-minor/</a> )	Arts and Humanities	Undergraduate	Minor
Ceramics, Minor ( <a href="https://catalog.csudh.edu/academics/art-design/ceramics-minor/">https://catalog.csudh.edu/academics/art-design/ceramics-minor/</a> )	Arts and Humanities	Undergraduate	Minor

Art History, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/art-history/art-history-ba/">https://catalog.csudh.edu/academics/art-history/art-history-ba/</a> )	Arts and Humanities	Undergraduate	Bachelor
Art History, Minor ( <a href="https://catalog.csudh.edu/academics/art-history/art-history-minor/">https://catalog.csudh.edu/academics/art-history/art-history-minor/</a> )	Arts and Humanities	Undergraduate	Minor
Arts and Humanities, Master of Arts ( <a href="https://catalog.csudh.edu/academics/arts-humanities/arts-humanities-ma/">https://catalog.csudh.edu/academics/arts-humanities/arts-humanities-ma/</a> )	Arts and Humanities	Graduate	Master
Humanities, Minor ( <a href="https://catalog.csudh.edu/academics/arts-humanities/humanities-minor/">https://catalog.csudh.edu/academics/arts-humanities/humanities-minor/</a> )	Arts and Humanities	Undergraduate	Minor
Asian-Pacific Studies, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/asian-pacific-studies/asian-pacific-studies-ba/">https://catalog.csudh.edu/academics/asian-pacific-studies/asian-pacific-studies-ba/</a> )	Arts and Humanities	Undergraduate	Bachelor
Asian-Pacific Studies, Minor ( <a href="https://catalog.csudh.edu/academics/asian-pacific-studies/asian-pacific-studies-minor/">https://catalog.csudh.edu/academics/asian-pacific-studies/asian-pacific-studies-minor/</a> )	Arts and Humanities	Undergraduate	Minor
Audio Engineering, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/audio-engineering/audio-engineering-ba/">https://catalog.csudh.edu/academics/audio-engineering/audio-engineering-ba/</a> )	Arts and Humanities	Undergraduate	Bachelor
Behavioral Science, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/behavioral-science/behavioral-science-ba/">https://catalog.csudh.edu/academics/behavioral-science/behavioral-science-ba/</a> )	Natural and Behavioral Sciences	Undergraduate	Bachelor
Behavioral Science, Minor ( <a href="https://catalog.csudh.edu/academics/behavioral-science/behavioral-science-minor/">https://catalog.csudh.edu/academics/behavioral-science/behavioral-science-minor/</a> )	Natural and Behavioral Sciences	Undergraduate	Minor
Biochemistry, Bachelor of Science ( <a href="https://catalog.csudh.edu/academics/biochemistry/biochemistry-bs/">https://catalog.csudh.edu/academics/biochemistry/biochemistry-bs/</a> )	Natural and Behavioral Sciences	Undergraduate	Bachelor
Biology, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/biology/biology-ba/">https://catalog.csudh.edu/academics/biology/biology-ba/</a> )	Natural and Behavioral Sciences	Undergraduate	Bachelor
Biology, Bachelor of Science ( <a href="https://catalog.csudh.edu/academics/biology/biology-bs/">https://catalog.csudh.edu/academics/biology/biology-bs/</a> )	Natural and Behavioral Sciences	Undergraduate	Bachelor
Biology, Minor ( <a href="https://catalog.csudh.edu/academics/biology/biology-minor/">https://catalog.csudh.edu/academics/biology/biology-minor/</a> )	Natural and Behavioral Sciences	Undergraduate	Minor
Biology, Master of Science ( <a href="https://catalog.csudh.edu/academics/biology/biology-ms/">https://catalog.csudh.edu/academics/biology/biology-ms/</a> )	Natural and Behavioral Sciences	Graduate	Master
Biology, Subject Matter Preparation ( <a href="https://catalog.csudh.edu/academics/biology/biology-subject-matter-preparation/">https://catalog.csudh.edu/academics/biology/biology-subject-matter-preparation/</a> )	Natural and Behavioral Sciences	Graduate	Subject
Microbiology, Minor ( <a href="https://catalog.csudh.edu/academics/biology/microbiology-minor/">https://catalog.csudh.edu/academics/biology/microbiology-minor/</a> )	Natural and Behavioral Sciences	Undergraduate	Minor

Biophysics, Bachelor of Science ( <a href="https://catalog.csudh.edu/academics/biophysics/biophysics-bs/">https://catalog.csudh.edu/academics/biophysics/biophysics-bs/</a> )	Natural and Behavioral Sciences	Undergraduate	Bachelor
Accounting, Certificate ( <a href="https://catalog.csudh.edu/academics/business-administration/accounting-certificate/">https://catalog.csudh.edu/academics/business-administration/accounting-certificate/</a> )	Business Administration and Public Policy	Undergraduate	Cert
Business Administration, Bachelor of Science ( <a href="https://catalog.csudh.edu/academics/business-administration/business-administration-bs/">https://catalog.csudh.edu/academics/business-administration/business-administration-bs/</a> )	Business Administration and Public Policy	Undergraduate	Bachelor
Business Administration, Minor ( <a href="https://catalog.csudh.edu/academics/business-administration/business-administration-minor/">https://catalog.csudh.edu/academics/business-administration/business-administration-minor/</a> )	Business Administration and Public Policy	Undergraduate	Minor
Data Analytics, Minor ( <a href="https://catalog.csudh.edu/academics/business-administration/data-analytics-minor/">https://catalog.csudh.edu/academics/business-administration/data-analytics-minor/</a> )	Business Administration and Public Policy	Undergraduate	Minor
Economics, Minor (p. 273)	Business Administration and Public Policy	Undergraduate	Minor
Executive Management Certificate ( <a href="https://catalog.csudh.edu/academics/business-administration/executive-management/">https://catalog.csudh.edu/academics/business-administration/executive-management/</a> )	Business Administration and Public Policy	Undergraduate	Cert
Information Systems, Certificate ( <a href="https://catalog.csudh.edu/academics/business-administration/information-systems-certificate/">https://catalog.csudh.edu/academics/business-administration/information-systems-certificate/</a> )	Business Administration and Public Policy	Undergraduate	Cert
Information Systems, Minor ( <a href="https://catalog.csudh.edu/academics/business-administration/information-systems-minor/">https://catalog.csudh.edu/academics/business-administration/information-systems-minor/</a> )	Business Administration and Public Policy	Undergraduate	Minor
Information Systems Security, Minor ( <a href="https://catalog.csudh.edu/academics/business-administration/information-systems-security-minor/">https://catalog.csudh.edu/academics/business-administration/information-systems-security-minor/</a> )	Business Administration and Public Policy	Undergraduate	Minor
Logistics Management, Post-MBA Certificate ( <a href="https://catalog.csudh.edu/academics/business-administration/logistics-management-post-mba-certificate/">https://catalog.csudh.edu/academics/business-administration/logistics-management-post-mba-certificate/</a> )	Business Administration and Public Policy	Graduate	Cert
Management, Minor ( <a href="https://catalog.csudh.edu/academics/business-administration/management-minor/">https://catalog.csudh.edu/academics/business-administration/management-minor/</a> )	Business Administration and Public Policy	Undergraduate	Minor
Marketing, Certificate ( <a href="https://catalog.csudh.edu/academics/business-administration/marketing-certificate/">https://catalog.csudh.edu/academics/business-administration/marketing-certificate/</a> )	Business Administration and Public Policy	Undergraduate	Cert
Marketing, Minor ( <a href="https://catalog.csudh.edu/academics/business-administration/marketing-minor/">https://catalog.csudh.edu/academics/business-administration/marketing-minor/</a> )	Business Administration and Public Policy	Undergraduate	Minor



Marketing, Post-MBA Certificate ( <a href="https://catalog.csudh.edu/academics/business-administration/marketing-post-mba-certificate/">https://catalog.csudh.edu/academics/business-administration/marketing-post-mba-certificate/</a> )	Business Administration and Public Policy	Graduate	Cert
Sports Management, Certificate ( <a href="https://catalog.csudh.edu/academics/business-administration/sports-management-certificate/">https://catalog.csudh.edu/academics/business-administration/sports-management-certificate/</a> )	Business Administration and Public Policy	Undergraduate	Cert
Chemistry, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/chemistry/chemistry-ba/">https://catalog.csudh.edu/academics/chemistry/chemistry-ba/</a> )	Natural and Behavioral Sciences	Undergraduate	Bachelor
Chemistry, Bachelor of Science ( <a href="https://catalog.csudh.edu/academics/chemistry/chemistry-bs/">https://catalog.csudh.edu/academics/chemistry/chemistry-bs/</a> )	Natural and Behavioral Sciences	Undergraduate	Bachelor
Chemistry, Subject Matter Authorization ( <a href="https://catalog.csudh.edu/academics/chemistry/chemistry-subject-matter-authorization/">https://catalog.csudh.edu/academics/chemistry/chemistry-subject-matter-authorization/</a> )	Natural and Behavioral Sciences	Graduate	Subject
Organic/Biochemistry, Minor ( <a href="https://catalog.csudh.edu/academics/chemistry/organic-biochemistry-minor/">https://catalog.csudh.edu/academics/chemistry/organic-biochemistry-minor/</a> )	Natural and Behavioral Sciences	Undergraduate	Minor
Chicana/Chicano Studies, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/chicana-chicano-studies/chicana-chicano-studies-ba/">https://catalog.csudh.edu/academics/chicana-chicano-studies/chicana-chicano-studies-ba/</a> )	Arts and Humanities	Undergraduate	Bachelor
Chicana/Chicano Studies, Minor ( <a href="https://catalog.csudh.edu/academics/chicana-chicano-studies/chicana-chicano-studies-minor/">https://catalog.csudh.edu/academics/chicana-chicano-studies/chicana-chicano-studies-minor/</a> )	Arts and Humanities	Undergraduate	Minor
Child Development, Bachelor of Science (p. 277)	Health, Human Services, and Nursing	Undergraduate	Bachelor
Clinical Science, Bachelor of Science ( <a href="https://catalog.csudh.edu/academics/clinical-science/clinical-science-bs/">https://catalog.csudh.edu/academics/clinical-science/clinical-science-bs/</a> )	Health, Human Services, and Nursing	Undergraduate	Bachelor
Clinical Science - Cytotechnology, Post-Baccalaureate Certificate ( <a href="https://catalog.csudh.edu/academics/clinical-science/clinical-science-cytotechnology-post-baccalaureate-certificate/">https://catalog.csudh.edu/academics/clinical-science/clinical-science-cytotechnology-post-baccalaureate-certificate/</a> )	Health, Human Services, and Nursing	Post-Baccalaureate	Cert
Clinical Science - Medical Technology, Post-Baccalaureate Certificate ( <a href="https://catalog.csudh.edu/academics/clinical-science/clinical-science-medical-technology-post-baccalaureate-certificate/">https://catalog.csudh.edu/academics/clinical-science/clinical-science-medical-technology-post-baccalaureate-certificate/</a> )	Health, Human Services, and Nursing	Post-Baccalaureate	Cert
Advertising, Minor ( <a href="https://catalog.csudh.edu/academics/communications/advertising-minor/">https://catalog.csudh.edu/academics/communications/advertising-minor/</a> )	Arts and Humanities	Undergraduate	Minor

Communications, Minor ( <a href="https://catalog.csudh.edu/academics/communications/communications-minor/">https://catalog.csudh.edu/academics/communications/communications-minor/</a> )	Arts and Humanities	Undergraduate	Minor
Computer Science, Bachelor of Science (p. 297)	Natural and Behavioral Sciences	Undergraduate	Bachelor
Computer Science, Certificate (p. 300)	Natural and Behavioral Sciences	Undergraduate	Cert
Computer Science, Minor (p. 301)	Natural and Behavioral Sciences	Undergraduate	Minor
Computer Science, Master of Science ( <a href="https://catalog.csudh.edu/academics/computer-science/computer-science-ms/">https://catalog.csudh.edu/academics/computer-science/computer-science-ms/</a> )	Natural and Behavioral Sciences	Graduate	Master
Computer Technology, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/computer-technology/computer-technology-ba/">https://catalog.csudh.edu/academics/computer-technology/computer-technology-ba/</a> )	Natural and Behavioral Sciences	Undergraduate	Bachelor
Computer Technology, Certificate ( <a href="https://catalog.csudh.edu/academics/computer-technology/computer-technology-certificate/">https://catalog.csudh.edu/academics/computer-technology/computer-technology-certificate/</a> )	Natural and Behavioral Sciences	Undergraduate	Cert
Computer Technology, Minor ( <a href="https://catalog.csudh.edu/academics/computer-technology/computer-technology-minor/">https://catalog.csudh.edu/academics/computer-technology/computer-technology-minor/</a> )	Natural and Behavioral Sciences	Undergraduate	Minor
Child Welfare and Attendance Authorization ( <a href="https://catalog.csudh.edu/academics/counseling/child-welfare-attendance-authorization/">https://catalog.csudh.edu/academics/counseling/child-welfare-attendance-authorization/</a> )	Education	Graduate	Credential
College Counseling, Certificate ( <a href="https://catalog.csudh.edu/academics/counseling/college-counseling-certificate/">https://catalog.csudh.edu/academics/counseling/college-counseling-certificate/</a> )	Education	Graduate	Cert
Counseling, Master of Science (p. 304)	Education	Graduate	Master
School Counseling, Pupil Personnel Credential ( <a href="https://catalog.csudh.edu/academics/counseling/school-counseling-pupil-personnel-credential/">https://catalog.csudh.edu/academics/counseling/school-counseling-pupil-personnel-credential/</a> )	Education	Graduate	Credential
Criminal Justice Administration, Bachelor of Science ( <a href="https://catalog.csudh.edu/academics/criminal-justice-administration/criminal-justice-administration-bs/">https://catalog.csudh.edu/academics/criminal-justice-administration/criminal-justice-administration-bs/</a> )	Business Administration and Public Policy	Undergraduate	Bachelor
Criminal Justice Administration, Minor ( <a href="https://catalog.csudh.edu/academics/criminal-justice-administration/criminal-justice-administration-minor/">https://catalog.csudh.edu/academics/criminal-justice-administration/criminal-justice-administration-minor/</a> )	Business Administration and Public Policy	Undergraduate	Minor
Cyber Security, Master of Science ( <a href="https://catalog.csudh.edu/academics/cyber-security/cyber-security-ms/">https://catalog.csudh.edu/academics/cyber-security/cyber-security-ms/</a> )	Natural and Behavioral Sciences	Graduate	Master
Dance, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/dance/dance-ba/">https://catalog.csudh.edu/academics/dance/dance-ba/</a> )	Arts and Humanities	Undergraduate	Bachelor

Dance, Minor ( <a href="https://catalog.csudh.edu/academics/dance/dance-minor/">https://catalog.csudh.edu/academics/dance/dance-minor/</a> )	Arts and Humanities	Undergraduate	Minor
Design, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/design/design-ba/">https://catalog.csudh.edu/academics/design/design-ba/</a> )	Arts and Humanities	Undergraduate	Bachelor
Design, Minor ( <a href="https://catalog.csudh.edu/academics/design/design-minor/">https://catalog.csudh.edu/academics/design/design-minor/</a> )	Arts and Humanities	Undergraduate	Minor
Digital Graphics, Minor ( <a href="https://catalog.csudh.edu/academics/design/digital-graphics-minor/">https://catalog.csudh.edu/academics/design/digital-graphics-minor/</a> )	Arts and Humanities	Undergraduate	Minor
Photography, Minor ( <a href="https://catalog.csudh.edu/academics/design/photography-minor/">https://catalog.csudh.edu/academics/design/photography-minor/</a> )	Arts and Humanities	Undergraduate	Minor
Audio Technology, Certificate ( <a href="https://catalog.csudh.edu/academics/digital-media-arts/audio-technology-certificate/">https://catalog.csudh.edu/academics/digital-media-arts/audio-technology-certificate/</a> )	Arts and Humanities	Undergraduate	Cert
Digital Media Arts, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/digital-media-arts/digital-media-arts-ba/">https://catalog.csudh.edu/academics/digital-media-arts/digital-media-arts-ba/</a> )	Arts and Humanities	Undergraduate	Bachelor
Television Arts, Certificate ( <a href="https://catalog.csudh.edu/academics/digital-media-arts/television-arts-certificate/">https://catalog.csudh.edu/academics/digital-media-arts/television-arts-certificate/</a> )	Arts and Humanities	Undergraduate	Cert
Earth Science, Bachelor of Science ( <a href="https://catalog.csudh.edu/academics/earth-science/earth-science-bs/">https://catalog.csudh.edu/academics/earth-science/earth-science-bs/</a> )	Natural and Behavioral Sciences	Undergraduate	Bachelor
Earth Sciences, Minor ( <a href="https://catalog.csudh.edu/academics/earth-science/earth-sciences-minor/">https://catalog.csudh.edu/academics/earth-science/earth-sciences-minor/</a> )	Natural and Behavioral Sciences	Undergraduate	Minor
Educational Leadership Justice, Doctorate ( <a href="https://catalog.csudh.edu/academics/educational-leadership-justice/educational-leadership-justice-doctorate/">https://catalog.csudh.edu/academics/educational-leadership-justice/educational-leadership-justice-doctorate/</a> )	Education	Post-Baccalaureate	Doctorate
Educational Leadership Justice ( <a href="https://catalog.csudh.edu/academics/educational-leadership-justice/">https://catalog.csudh.edu/academics/educational-leadership-justice/</a> )	Education	Post-Baccalaureate	Doctorate
Creative Writing, Minor ( <a href="https://catalog.csudh.edu/academics/english/creative-writing-minor/">https://catalog.csudh.edu/academics/english/creative-writing-minor/</a> )	Arts and Humanities	Undergraduate	Minor
English, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/english/english-ba/">https://catalog.csudh.edu/academics/english/english-ba/</a> )	Arts and Humanities	Undergraduate	Bachelor
English, Master of Arts ( <a href="https://catalog.csudh.edu/academics/english/english-ma/">https://catalog.csudh.edu/academics/english/english-ma/</a> )	Arts and Humanities	Graduate	Master
English, Minor ( <a href="https://catalog.csudh.edu/academics/english/english-minor/">https://catalog.csudh.edu/academics/english/english-minor/</a> )	Arts and Humanities	Undergraduate	Minor

English, Subject Matter Preparation ( <a href="https://catalog.csudh.edu/academics/english/english-subject-matter-preparation/">https://catalog.csudh.edu/academics/english/english-subject-matter-preparation/</a> )	Arts and Humanities	Graduate	Subject
Language and Linguistics, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/english/language-and-linguistics-ba/">https://catalog.csudh.edu/academics/english/language-and-linguistics-ba/</a> )	Arts and Humanities	Undergraduate	Bachelor
Linguistics, Minor ( <a href="https://catalog.csudh.edu/academics/english/language-linguistics-minor/">https://catalog.csudh.edu/academics/english/language-linguistics-minor/</a> )	Arts and Humanities	Undergraduate	Minor
Professional and Creative Writing, Certificate ( <a href="https://catalog.csudh.edu/academics/english/professional-creative-writing-certificate/">https://catalog.csudh.edu/academics/english/professional-creative-writing-certificate/</a> )	Arts and Humanities	Undergraduate	Cert
Rhetoric and Composition, Certificate ( <a href="https://catalog.csudh.edu/academics/english/rhetoric-composition-certificate/">https://catalog.csudh.edu/academics/english/rhetoric-composition-certificate/</a> )	Arts and Humanities	Undergraduate	Cert
Teaching of English to Speakers of Other Languages (TESOL), Certificate ( <a href="https://catalog.csudh.edu/academics/english/teaching-english-second-language-certificate/">https://catalog.csudh.edu/academics/english/teaching-english-second-language-certificate/</a> )	Arts and Humanities	Graduate	Cert
Teaching English to Speakers of Other Languages, Master of Arts ( <a href="https://catalog.csudh.edu/academics/english/tesol-ma/">https://catalog.csudh.edu/academics/english/tesol-ma/</a> )	Arts and Humanities	Graduate	Master
Environmental Science, Master of Science ( <a href="https://catalog.csudh.edu/academics/environmental-science/environmental-science-ms/">https://catalog.csudh.edu/academics/environmental-science/environmental-science-ms/</a> )	Natural and Behavioral Sciences	Graduate	Master
Alcohol and Drug Counseling, Certificate ( <a href="https://catalog.csudh.edu/academics/extended-education-programs/alcohol-drug-counseling-certificate/">https://catalog.csudh.edu/academics/extended-education-programs/alcohol-drug-counseling-certificate/</a> )	Extended and International Education	Undergraduate	Cert
American Language and Culture Program ( <a href="https://catalog.csudh.edu/academics/extended-education-programs/american-language-culture-program/">https://catalog.csudh.edu/academics/extended-education-programs/american-language-culture-program/</a> )	Extended and International Education	Graduate	Credential
Assistive Technology, Specialist Certificate ( <a href="https://catalog.csudh.edu/academics/extended-education-programs/assistive-technology-specialist-certificate/">https://catalog.csudh.edu/academics/extended-education-programs/assistive-technology-specialist-certificate/</a> )	Extended and International Education	Undergraduate	Cert
Communication Sciences and Disorders, Certificate ( <a href="https://catalog.csudh.edu/academics/extended-education-programs/communication-sciences-disorders-certificate/">https://catalog.csudh.edu/academics/extended-education-programs/communication-sciences-disorders-certificate/</a> )	Extended and International Education	Undergraduate	Cert

Community College Teaching, Certificate ( <a href="https://catalog.csudh.edu/academics/extended-education-programs/community-college-teaching-certificate/">https://catalog.csudh.edu/academics/extended-education-programs/community-college-teaching-certificate/</a> )	Extended and International Education	Undergraduate	Cert
Designated Subjects Adult Education, Teaching Credential ( <a href="https://catalog.csudh.edu/academics/extended-education-programs/designated-subjects-adult-education-teaching-credential/">https://catalog.csudh.edu/academics/extended-education-programs/designated-subjects-adult-education-teaching-credential/</a> )	Extended and International Education	Graduate	Credential
Human Resources Management, Certificate ( <a href="https://catalog.csudh.edu/academics/extended-education-programs/human-resources-management-certificate/">https://catalog.csudh.edu/academics/extended-education-programs/human-resources-management-certificate/</a> )	Extended and International Education	Undergraduate	Cert
Mediation and Conflict Resolution, Certificate ( <a href="https://catalog.csudh.edu/academics/extended-education-programs/mediation-conflict-resolution-certificate/">https://catalog.csudh.edu/academics/extended-education-programs/mediation-conflict-resolution-certificate/</a> )	Arts and Humanities	Undergraduate	Cert
Production and Inventory Control, Certificate ( <a href="https://catalog.csudh.edu/academics/extended-education-programs/production-inventory-control-certificate/">https://catalog.csudh.edu/academics/extended-education-programs/production-inventory-control-certificate/</a> )	Extended and International Education	Undergraduate	Cert
Purchasing, Certificate ( <a href="https://catalog.csudh.edu/academics/extended-education-programs/purchasing-certificate/">https://catalog.csudh.edu/academics/extended-education-programs/purchasing-certificate/</a> )	Extended and International Education	Undergraduate	Cert
Sport and Fitness Psychology, Certificate ( <a href="https://catalog.csudh.edu/academics/extended-education-programs/sport-fitness-psychology-certificate/">https://catalog.csudh.edu/academics/extended-education-programs/sport-fitness-psychology-certificate/</a> )	Extended and International Education	Undergraduate	Cert
Film, Television, and Media, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/film-television-media/film-television-media-ba/">https://catalog.csudh.edu/academics/film-television-media/film-television-media-ba/</a> )	Arts and Humanities	Undergraduate	Bachelor
Film and Television Production, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/film-television-production/film-television-production-ba/">https://catalog.csudh.edu/academics/film-television-production/film-television-production-ba/</a> )	Arts and Humanities	Undergraduate	Bachelor
Geography, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/geography/geography-ba/">https://catalog.csudh.edu/academics/geography/geography-ba/</a> )	Natural and Behavioral Sciences	Undergraduate	Bachelor
Geography, Minor ( <a href="https://catalog.csudh.edu/academics/geography/geography-minor/">https://catalog.csudh.edu/academics/geography/geography-minor/</a> )	Natural and Behavioral Sciences	Undergraduate	Minor
Geotechniques, Certificate ( <a href="https://catalog.csudh.edu/academics/geography/geotechniques-certificate/">https://catalog.csudh.edu/academics/geography/geotechniques-certificate/</a> )	Natural and Behavioral Sciences	Undergraduate	Cert

Administrative Services Credential ( <a href="https://catalog.csudh.edu/academics/graduate-education/administrative-services-credential/">https://catalog.csudh.edu/academics/graduate-education/administrative-services-credential/</a> )	Education	Graduate	Credential
Higher Education Administration and Leadership (HEAL), Graduate Certificate ( <a href="https://catalog.csudh.edu/academics/graduate-education/higher-education-administration-leadership-graduate-certificate/">https://catalog.csudh.edu/academics/graduate-education/higher-education-administration-leadership-graduate-certificate/</a> )	Education	Graduate	Cert
Health Science, Bachelor of Science ( <a href="https://catalog.csudh.edu/academics/health-science/health-science-bs/">https://catalog.csudh.edu/academics/health-science/health-science-bs/</a> )	Health, Human Services, and Nursing	Undergraduate	Bachelor
Health Science, Minor ( <a href="https://catalog.csudh.edu/academics/health-science/health-science-minor/">https://catalog.csudh.edu/academics/health-science/health-science-minor/</a> )	Health, Human Services, and Nursing	Undergraduate	Minor
Health Science, Master of Science ( <a href="https://catalog.csudh.edu/academics/health-science/health-science-ms/">https://catalog.csudh.edu/academics/health-science/health-science-ms/</a> )	Health, Human Services, and Nursing	Graduate	Master
History, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/history/history-ba/">https://catalog.csudh.edu/academics/history/history-ba/</a> )	Arts and Humanities	Undergraduate	Bachelor
History, Minor ( <a href="https://catalog.csudh.edu/academics/history/history-minor/">https://catalog.csudh.edu/academics/history/history-minor/</a> )	Arts and Humanities	Undergraduate	Minor
Specific History Subject Matter Authorization ( <a href="https://catalog.csudh.edu/academics/history/specific-history-subject-matter-authorization/">https://catalog.csudh.edu/academics/history/specific-history-subject-matter-authorization/</a> )	Arts and Humanities	Graduate	Subject
Human Services, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/human-services/human-services-ba/">https://catalog.csudh.edu/academics/human-services/human-services-ba/</a> )	Health, Human Services, and Nursing	Undergraduate	Bachelor
Mental Health Recovery, Certificate ( <a href="https://catalog.csudh.edu/academics/human-services/mental-health-recovery-certificate/">https://catalog.csudh.edu/academics/human-services/mental-health-recovery-certificate/</a> )	Health, Human Services, and Nursing	Undergraduate	Cert
Humanities External, Master of Arts ( <a href="https://catalog.csudh.edu/academics/humanities-external-degree/humanities-external-ma/">https://catalog.csudh.edu/academics/humanities-external-degree/humanities-external-ma/</a> )	Extended and International Education	Graduate	Master
Academics (p. 254)	Extended and International Education		
Information Technology, Bachelor of Science (p. 308)	Natural and Behavioral Sciences	Undergraduate	Bachelor
Environmental Studies, Minor ( <a href="https://catalog.csudh.edu/academics/interdisciplinary-studies/environmental-studies-minor/">https://catalog.csudh.edu/academics/interdisciplinary-studies/environmental-studies-minor/</a> )	Arts and Humanities	Undergraduate	Minor
Global Studies, Minor ( <a href="https://catalog.csudh.edu/academics/interdisciplinary-studies/global-studies-minor/">https://catalog.csudh.edu/academics/interdisciplinary-studies/global-studies-minor/</a> )	Arts and Humanities	Undergraduate	Minor

Interdisciplinary Studies, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/interdisciplinary-studies/interdisciplinary-studies-ba/">https://catalog.csudh.edu/academics/interdisciplinary-studies/interdisciplinary-studies-ba/</a> )	Arts and Humanities	Undergraduate	Bachelor
Interdisciplinary Studies, Minor ( <a href="https://catalog.csudh.edu/academics/interdisciplinary-studies/interdisciplinary-studies-minor/">https://catalog.csudh.edu/academics/interdisciplinary-studies/interdisciplinary-studies-minor/</a> )	Arts and Humanities	Undergraduate	Minor
Journalism, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/journalism/journalism-ba/">https://catalog.csudh.edu/academics/journalism/journalism-ba/</a> )	Arts and Humanities	Undergraduate	Bachelor
Journalism: Latinx Concentration, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/journalism/journalism-ba/latinx-concentration/">https://catalog.csudh.edu/academics/journalism/journalism-ba/latinx-concentration/</a> )	Arts and Humanities	Undergraduate	Bachelor
Coaching, Minor ( <a href="https://catalog.csudh.edu/academics/kinesiology/coaching-minor/">https://catalog.csudh.edu/academics/kinesiology/coaching-minor/</a> )	Health, Human Services, and Nursing	Undergraduate	Minor
Fitness Instructor, Certificate ( <a href="https://catalog.csudh.edu/academics/kinesiology/fitness-instructor-certificate/">https://catalog.csudh.edu/academics/kinesiology/fitness-instructor-certificate/</a> )	Health, Human Services, and Nursing	Undergraduate	Cert
Education: Physical Education Administration, Master of Arts ( <a href="https://catalog.csudh.edu/academics/kinesiology/physical-education-administration-ma/">https://catalog.csudh.edu/academics/kinesiology/physical-education-administration-ma/</a> )	Health, Human Services, and Nursing	Graduate	Master
Physical Education, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/kinesiology/physical-education-ba/">https://catalog.csudh.edu/academics/kinesiology/physical-education-ba/</a> )	Health, Human Services, and Nursing	Undergraduate	Bachelor
Physical Education, Subject Matter Preparation ( <a href="https://catalog.csudh.edu/academics/kinesiology/physical-education-subject-matter-preparation/">https://catalog.csudh.edu/academics/kinesiology/physical-education-subject-matter-preparation/</a> )	Health, Human Services, and Nursing	Graduate	Subject
Teaching, Minor ( <a href="https://catalog.csudh.edu/academics/kinesiology/teaching-minor/">https://catalog.csudh.edu/academics/kinesiology/teaching-minor/</a> )	Health, Human Services, and Nursing	Undergraduate	Minor
Labor Studies, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/labor-studies/labor-studies-ba/">https://catalog.csudh.edu/academics/labor-studies/labor-studies-ba/</a> )	Arts and Humanities	Undergraduate	Bachelor
Labor Studies, Certificate ( <a href="https://catalog.csudh.edu/academics/labor-studies/labor-studies-certificate/">https://catalog.csudh.edu/academics/labor-studies/labor-studies-certificate/</a> )	Arts and Humanities	Undergraduate	Cert
Labor Studies, Minor ( <a href="https://catalog.csudh.edu/academics/labor-studies/labor-studies-minor/">https://catalog.csudh.edu/academics/labor-studies/labor-studies-minor/</a> )	Arts and Humanities	Undergraduate	Minor
Language and Linguistics, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/language-linguistics/language-linguistics-ba/">https://catalog.csudh.edu/academics/language-linguistics/language-linguistics-ba/</a> )	Arts and Humanities	Undergraduate	Bachelor
Liberal Studies, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/liberal-studies/liberal-studies-ba/">https://catalog.csudh.edu/academics/liberal-studies/liberal-studies-ba/</a> )	Education	Undergraduate	Bachelor

Liberal Studies: Integrated (Multiple Subject) Option, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/liberal-studies/liberal-studies-integrated-multiple-subject-option-ba/">https://catalog.csudh.edu/academics/liberal-studies/liberal-studies-integrated-multiple-subject-option-ba/</a> )	Education	Undergraduate	Bachelor
Liberal Studies ITEP Mild/Moderated Disabilities Option, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/liberal-studies/liberal-studies-itep-mildmoderated-disabilities-option-ba/">https://catalog.csudh.edu/academics/liberal-studies/liberal-studies-itep-mildmoderated-disabilities-option-ba/</a> )	Education	Undergraduate	Bachelor
Marital and Family Therapy, Master of Science ( <a href="https://catalog.csudh.edu/academics/marital-family-therapy/marital-family-therapy-ms/">https://catalog.csudh.edu/academics/marital-family-therapy/marital-family-therapy-ms/</a> )	Health, Human Services, and Nursing	Graduate	Master
Introductory Mathematics, Subject Matter Authorization ( <a href="https://catalog.csudh.edu/academics/mathematics/introductory-mathematics-subject-matter-authorization/">https://catalog.csudh.edu/academics/mathematics/introductory-mathematics-subject-matter-authorization/</a> )	Natural and Behavioral Sciences	Graduate	Subject
Mathematics, Bachelor of Science (p. 319)	Natural and Behavioral Sciences	Undergraduate	Bachelor
Mathematics, Minor ( <a href="https://catalog.csudh.edu/academics/mathematics/mathematics-minor/">https://catalog.csudh.edu/academics/mathematics/mathematics-minor/</a> )	Natural and Behavioral Sciences	Undergraduate	Minor
Bachelor of Music (p. 336)	Arts and Humanities	Undergraduate	Bachelor
Introductory and Specific Music, Subject Matter Authorization ( <a href="https://catalog.csudh.edu/academics/music/introductory-specific-music-subject-matter-authorization/">https://catalog.csudh.edu/academics/music/introductory-specific-music-subject-matter-authorization/</a> )	Arts and Humanities	Graduate	Subject
Music, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/music/music-ba/">https://catalog.csudh.edu/academics/music/music-ba/</a> )	Arts and Humanities	Undergraduate	Bachelor
Music Education, Minor ( <a href="https://catalog.csudh.edu/academics/music/music-minor/">https://catalog.csudh.edu/academics/music/music-minor/</a> )	Arts and Humanities	Undergraduate	Minor
Conflict Analysis and Resolution, Post-Master's Certificate ( <a href="https://catalog.csudh.edu/academics/negotiation-conflict-resolution-peacebuilding/conflict-analysis-resolution-post-masters-certificate/">https://catalog.csudh.edu/academics/negotiation-conflict-resolution-peacebuilding/conflict-analysis-resolution-post-masters-certificate/</a> )	Arts and Humanities	Graduate	Cert
Negotiation, Conflict Resolution and Peacebuilding, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/negotiation-conflict-resolution-peacebuilding/negotiation-conflict-resolution-peacebuilding-ba/">https://catalog.csudh.edu/academics/negotiation-conflict-resolution-peacebuilding/negotiation-conflict-resolution-peacebuilding-ba/</a> )	Arts and Humanities	Undergraduate	Bachelor



Negotiation, Conflict Resolution and Peacebuilding, Master of Arts ( <a href="https://catalog.csudh.edu/academics/negotiation-conflict-resolution-peacebuilding/negotiation-conflict-resolution-peacebuilding-ma/">https://catalog.csudh.edu/academics/negotiation-conflict-resolution-peacebuilding/negotiation-conflict-resolution-peacebuilding-ma/</a> )	Arts and Humanities	Graduate	Master
Clinical Nurse Specialist, Post-Master's Certificate ( <a href="https://catalog.csudh.edu/academics/nursing/clinical-nurse-specialist-post-masters-certificate/">https://catalog.csudh.edu/academics/nursing/clinical-nurse-specialist-post-masters-certificate/</a> )	Health, Human Services, and Nursing	Graduate	Cert
Neonatal Clinical Nurse Specialist, Post-Master's Certificate ( <a href="https://catalog.csudh.edu/academics/nursing/neonatal-clinical-nurse-specialist-post-masters-certificate/">https://catalog.csudh.edu/academics/nursing/neonatal-clinical-nurse-specialist-post-masters-certificate/</a> )	Health, Human Services, and Nursing	Post-Baccalaureate	Cert
Nursing Administration, Post-Master's Certificate ( <a href="https://catalog.csudh.edu/academics/nursing/nursing-administration-post-masters-certificate/">https://catalog.csudh.edu/academics/nursing/nursing-administration-post-masters-certificate/</a> )	Health, Human Services, and Nursing	Graduate	Cert
Nursing, Bachelor of Science ( <a href="https://catalog.csudh.edu/academics/nursing/nursing-bsn/">https://catalog.csudh.edu/academics/nursing/nursing-bsn/</a> )	Health, Human Services, and Nursing	Undergraduate	Bachelor
Nursing Education, Post-Master's Certificate ( <a href="https://catalog.csudh.edu/academics/nursing/nursing-education-post-masters-certificate/">https://catalog.csudh.edu/academics/nursing/nursing-education-post-masters-certificate/</a> )	Health, Human Services, and Nursing	Graduate	Cert
Nursing, Master of Science ( <a href="https://catalog.csudh.edu/academics/nursing/nursing-msn/">https://catalog.csudh.edu/academics/nursing/nursing-msn/</a> )	Health, Human Services, and Nursing	Graduate	Master
Occupational Therapy, Master of Science ( <a href="https://catalog.csudh.edu/academics/occupational-therapy/occupational-therapy-ms/">https://catalog.csudh.edu/academics/occupational-therapy/occupational-therapy-ms/</a> )	Health, Human Services, and Nursing	Graduate	Master
Occupational Therapy, Doctorate ( <a href="https://catalog.csudh.edu/academics/occupational-therapy/occupational-therapy-otd/">https://catalog.csudh.edu/academics/occupational-therapy/occupational-therapy-otd/</a> )	Health, Human Services, and Nursing	Graduate	Doctorate
Organizational Leadership Studies , Bachelor of Science ( <a href="https://catalog.csudh.edu/academics/organizational-leadership/organizational-leadership-studies-bs/">https://catalog.csudh.edu/academics/organizational-leadership/organizational-leadership-studies-bs/</a> )	Business Administration and Public Policy	Undergraduate	Bachelor
Philosophy, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/philosophy/philosophy-ba/">https://catalog.csudh.edu/academics/philosophy/philosophy-ba/</a> )	Arts and Humanities	Undergraduate	Bachelor
Philosophy, Minor ( <a href="https://catalog.csudh.edu/academics/philosophy/philosophy-minor/">https://catalog.csudh.edu/academics/philosophy/philosophy-minor/</a> )	Arts and Humanities	Undergraduate	Minor
Religious Studies, Minor ( <a href="https://catalog.csudh.edu/academics/philosophy/religious-studies-minor/">https://catalog.csudh.edu/academics/philosophy/religious-studies-minor/</a> )	Arts and Humanities	Undergraduate	Minor

Physics, Bachelor of Science ( <a href="https://catalog.csudh.edu/academics/physics/physics-bs/">https://catalog.csudh.edu/academics/physics/physics-bs/</a> )	Natural and Behavioral Sciences	Undergraduate	Bachelor
Physics, Minor ( <a href="https://catalog.csudh.edu/academics/physics/physics-minor/">https://catalog.csudh.edu/academics/physics/physics-minor/</a> )	Natural and Behavioral Sciences	Undergraduate	Minor
Political Science, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/political-science/political-science-ba/">https://catalog.csudh.edu/academics/political-science/political-science-ba/</a> )	Natural and Behavioral Sciences	Undergraduate	Bachelor
Political Science, Minor ( <a href="https://catalog.csudh.edu/academics/political-science/political-science-minor/">https://catalog.csudh.edu/academics/political-science/political-science-minor/</a> )	Natural and Behavioral Sciences	Undergraduate	Minor
Psychology, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/psychology/psychology-ba/">https://catalog.csudh.edu/academics/psychology/psychology-ba/</a> )	Natural and Behavioral Sciences	Undergraduate	Bachelor
Psychology, Master of Arts ( <a href="https://catalog.csudh.edu/academics/psychology/psychology-ma/">https://catalog.csudh.edu/academics/psychology/psychology-ma/</a> )	Natural and Behavioral Sciences	Graduate	Master
Psychology, Minor ( <a href="https://catalog.csudh.edu/academics/psychology/psychology-minor/">https://catalog.csudh.edu/academics/psychology/psychology-minor/</a> )	Natural and Behavioral Sciences	Undergraduate	Minor
Criminal Justice Administration, Minor ( <a href="https://catalog.csudh.edu/academics/public-administration/criminal-justice-administration-minor/">https://catalog.csudh.edu/academics/public-administration/criminal-justice-administration-minor/</a> )	Business Administration and Public Policy	Undergraduate	Minor
Public Administration, Bachelor of Science ( <a href="https://catalog.csudh.edu/academics/public-administration/public-administration-bs/">https://catalog.csudh.edu/academics/public-administration/public-administration-bs/</a> )	Business Administration and Public Policy	Undergraduate	Bachelor
Public Administration, Minor ( <a href="https://catalog.csudh.edu/academics/public-administration/public-administration-minor/">https://catalog.csudh.edu/academics/public-administration/public-administration-minor/</a> )	Business Administration and Public Policy	Undergraduate	Minor
Public Administration, Master of Public Administration ( <a href="https://catalog.csudh.edu/academics/public-administration/public-administration-mpa/">https://catalog.csudh.edu/academics/public-administration/public-administration-mpa/</a> )	Business Administration and Public Policy	Graduate	Master
Quality Assurance, Bachelor of Science (p. 357)	Extended and International Education	Undergraduate	Bachelor
Quality Assurance, Master of Science ( <a href="https://catalog.csudh.edu/academics/quality-assurance/quality-assurance-ms/">https://catalog.csudh.edu/academics/quality-assurance/quality-assurance-ms/</a> )	Extended and International Education	Graduate	Master
Radiologic Imaging Sciences, Certificate ( <a href="https://catalog.csudh.edu/academics/radiologic-imaging-sciences/radiologic-imaging-sciences-certificate/">https://catalog.csudh.edu/academics/radiologic-imaging-sciences/radiologic-imaging-sciences-certificate/</a> )	Health, Human Services, and Nursing	Undergraduate	Cert
Radiologic and Imaging Sciences, Master of Science ( <a href="https://catalog.csudh.edu/academics/radiologic-imaging-sciences/radiologic-imaging-sciences-ms/">https://catalog.csudh.edu/academics/radiologic-imaging-sciences/radiologic-imaging-sciences-ms/</a> )	Health, Human Services, and Nursing	Graduate	Master

School Leadership, Master of Arts ( <a href="https://catalog.csudh.edu/academics/school-leadership/school-leadership-ma/">https://catalog.csudh.edu/academics/school-leadership/school-leadership-ma/</a> )	Education	Graduate	Master
Social Work, Master of Social Work ( <a href="https://catalog.csudh.edu/academics/social-work/social-work-msw/">https://catalog.csudh.edu/academics/social-work/social-work-msw/</a> )	Health, Human Services, and Nursing	Graduate	Master
Community Organizing, Certificate ( <a href="https://catalog.csudh.edu/academics/sociology/community-organizing-certificate/">https://catalog.csudh.edu/academics/sociology/community-organizing-certificate/</a> )	Natural and Behavioral Sciences	Undergraduate	Cert
Social Research, Certificate ( <a href="https://catalog.csudh.edu/academics/sociology/social-research-certificate/">https://catalog.csudh.edu/academics/sociology/social-research-certificate/</a> )	Natural and Behavioral Sciences	Undergraduate	Cert
Social Research, Graduate Certificate ( <a href="https://catalog.csudh.edu/academics/sociology/social-research-graduate-certificate/">https://catalog.csudh.edu/academics/sociology/social-research-graduate-certificate/</a> )	Natural and Behavioral Sciences	Graduate	Cert
Sociology, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/sociology/sociology-ba/">https://catalog.csudh.edu/academics/sociology/sociology-ba/</a> )	Natural and Behavioral Sciences	Undergraduate	Bachelor
Sociology, Master of Arts ( <a href="https://catalog.csudh.edu/academics/sociology/sociology-ma/">https://catalog.csudh.edu/academics/sociology/sociology-ma/</a> )	Natural and Behavioral Sciences	Graduate	Master
Sociology, Minor ( <a href="https://catalog.csudh.edu/academics/sociology/sociology-minor/">https://catalog.csudh.edu/academics/sociology/sociology-minor/</a> )	Natural and Behavioral Sciences	Undergraduate	Minor
PRE-SERVICE TEACHER BILINGUAL AUTHORIZATION IN SPANISH, CERTIFICATE ( <a href="https://catalog.csudh.edu/academics/spanish/bilingual-authorization-certificate/">https://catalog.csudh.edu/academics/spanish/bilingual-authorization-certificate/</a> )	Arts and Humanities	Undergraduate	Cert
Spanish, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/spanish/spanish-ba/">https://catalog.csudh.edu/academics/spanish/spanish-ba/</a> )	Arts and Humanities	Undergraduate	Bachelor
Spanish Culture, Minor (p. 364)	Arts and Humanities	Undergraduate	Minor
Spanish Grammar and Writing, Minor ( <a href="https://catalog.csudh.edu/academics/spanish/spanish-grammar-writing-minor/">https://catalog.csudh.edu/academics/spanish/spanish-grammar-writing-minor/</a> )	Arts and Humanities	Undergraduate	Minor
Spanish Linguistics, Minor ( <a href="https://catalog.csudh.edu/academics/spanish/spanish-linguistics-minor/">https://catalog.csudh.edu/academics/spanish/spanish-linguistics-minor/</a> )	Arts and Humanities	Undergraduate	Minor
Spanish Literature, Minor ( <a href="https://catalog.csudh.edu/academics/spanish/spanish-literature-minor/">https://catalog.csudh.edu/academics/spanish/spanish-literature-minor/</a> )	Arts and Humanities	Undergraduate	Minor
Spanish, Subject Matter Preparation ( <a href="https://catalog.csudh.edu/academics/spanish/spanish-subject-matter-preparation/">https://catalog.csudh.edu/academics/spanish/spanish-subject-matter-preparation/</a> )	Arts and Humanities	Graduate	Subject
Assistive Technology Specialist, Certificate ( <a href="https://catalog.csudh.edu/academics/special-education/assistive-technology-specialist-certificate/">https://catalog.csudh.edu/academics/special-education/assistive-technology-specialist-certificate/</a> )	Education	Undergraduate	Cert

Preliminary Education Specialist: Early Childhood Special Education, Intern Option, Credential ( <a href="https://catalog.csudh.edu/academics/special-education/early-childhood-special-edu-intern-option/">https://catalog.csudh.edu/academics/special-education/early-childhood-special-edu-intern-option/</a> )	Education	Post-Baccalaureate	Credential
Preliminary Education Specialist: Early Childhood Special Education, Student Teaching Option, Credential ( <a href="https://catalog.csudh.edu/academics/special-education/early-childhood-special-edu-student-teaching-option/">https://catalog.csudh.edu/academics/special-education/early-childhood-special-edu-student-teaching-option/</a> )	Education	Post-Baccalaureate	Credential
Early Childhood Special Education Authorization ( <a href="https://catalog.csudh.edu/academics/special-education/early-childhood-special-education-authorization/">https://catalog.csudh.edu/academics/special-education/early-childhood-special-education-authorization/</a> )	Education	Post-Baccalaureate	Credential
Preliminary Education Specialist: Extensive Support Needs, Intern Option, Credential ( <a href="https://catalog.csudh.edu/academics/special-education/extensive-support-needs-intern-option/">https://catalog.csudh.edu/academics/special-education/extensive-support-needs-intern-option/</a> )	Education	Post-Baccalaureate	Credential
Preliminary Education Specialist: Extensive Support Needs, Student Teaching Option, Credential ( <a href="https://catalog.csudh.edu/academics/special-education/extensive-support-needs-student-teaching-option/">https://catalog.csudh.edu/academics/special-education/extensive-support-needs-student-teaching-option/</a> )	Education	Post-Baccalaureate	Credential
Preliminary Education Specialist: Mild to Moderate Support Needs, Intern Option, Credential ( <a href="https://catalog.csudh.edu/academics/special-education/mild-moderate-support-needs-intern-option/">https://catalog.csudh.edu/academics/special-education/mild-moderate-support-needs-intern-option/</a> )	Education	Post-Baccalaureate	Credential
Preliminary Education Specialist: Mild to Moderate Support Needs, Student Teaching Option, Credential ( <a href="https://catalog.csudh.edu/academics/special-education/mild-moderate-support-needs-student-teaching-option/">https://catalog.csudh.edu/academics/special-education/mild-moderate-support-needs-student-teaching-option/</a> )	Education	Post-Baccalaureate	Credential
PK-3 ECE Specialist Instruction Credential (p. 369)	Education	Post-Baccalaureate	Credential
Special Education, Master of Arts ( <a href="https://catalog.csudh.edu/academics/special-education/special-education-ma/">https://catalog.csudh.edu/academics/special-education/special-education-ma/</a> )	Education	Graduate	Master
Teacher Induction Program (Clear Credential) ( <a href="https://catalog.csudh.edu/academics/special-education/teacher-induction-program/">https://catalog.csudh.edu/academics/special-education/teacher-induction-program/</a> )	Education	Post-Baccalaureate	Credential
Systems Engineering, Master of Science ( <a href="https://catalog.csudh.edu/academics/systems-engineering/systems-engineering-ms/">https://catalog.csudh.edu/academics/systems-engineering/systems-engineering-ms/</a> )	Natural and Behavioral Sciences	Graduate	Master

Pre-Service Teacher Bilingual Authorization in Spanish, Certificate ( <a href="https://catalog.csudh.edu/academics/teacher-education/bilingual-authorization-certificate/">https://catalog.csudh.edu/academics/teacher-education/bilingual-authorization-certificate/</a> )	Education	Post-Baccalaureate	Cert
Dual Language Learning, Certificate ( <a href="https://catalog.csudh.edu/academics/teacher-education/dual-language-learning-certificate/">https://catalog.csudh.edu/academics/teacher-education/dual-language-learning-certificate/</a> )	Education	Undergraduate	Cert
Education, Master of Arts ( <a href="https://catalog.csudh.edu/academics/teacher-education/education-ma/">https://catalog.csudh.edu/academics/teacher-education/education-ma/</a> )	Education	Graduate	Master
Multiple Subject Preliminary: Student Teaching Option, Credential ( <a href="https://catalog.csudh.edu/academics/teacher-education/multiple-subject-student-teaching-option/">https://catalog.csudh.edu/academics/teacher-education/multiple-subject-student-teaching-option/</a> )	Education	Post-Baccalaureate	Credential
Multiple Subject Preliminary: University Intern Option, Credential ( <a href="https://catalog.csudh.edu/academics/teacher-education/multiple-subject-university-intern-option/">https://catalog.csudh.edu/academics/teacher-education/multiple-subject-university-intern-option/</a> )	Education	Post-Baccalaureate	Credential
Single Subject Preliminary: Student Teaching Option, Credential ( <a href="https://catalog.csudh.edu/academics/teacher-education/single-subject-student-teaching-option/">https://catalog.csudh.edu/academics/teacher-education/single-subject-student-teaching-option/</a> )	Education	Post-Baccalaureate	Credential
Single Subject Preliminary: University Intern Option, Credential ( <a href="https://catalog.csudh.edu/academics/teacher-education/single-subject-university-intern-option/">https://catalog.csudh.edu/academics/teacher-education/single-subject-university-intern-option/</a> )	Education	Post-Baccalaureate	Credential
Subject Matter Authorizations ( <a href="https://catalog.csudh.edu/academics/teacher-education/subject-matter-authorizations/">https://catalog.csudh.edu/academics/teacher-education/subject-matter-authorizations/</a> )	Education	Post-Baccalaureate	Subject
Transitional Kindergarten, Certificate ( <a href="https://catalog.csudh.edu/academics/teacher-education/transitional-kindergarten-certificate/">https://catalog.csudh.edu/academics/teacher-education/transitional-kindergarten-certificate/</a> )	Education	Undergraduate	Cert
Teaching English to Speakers of Other Languages (p. 371)	Arts and Humanities		
Teaching English to Speakers of Other Languages, Certificate (p. 372)	Arts and Humanities	Post-Baccalaureate	Postbaccalaureate
Teaching English to Speakers of Other Languages, Master of Arts (p. 373)	Arts and Humanities	Graduate	Master
Speech, Minor ( <a href="https://catalog.csudh.edu/academics/theatre-arts/speech-minor/">https://catalog.csudh.edu/academics/theatre-arts/speech-minor/</a> )	Arts and Humanities	Undergraduate	Minor
Theatre Arts, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/theatre-arts/theatre-arts-ba/">https://catalog.csudh.edu/academics/theatre-arts/theatre-arts-ba/</a> )	Arts and Humanities	Undergraduate	Bachelor

Theatre Education, Minor ( <a href="https://catalog.csudh.edu/academics/theatre-arts/theatre-education-minor/">https://catalog.csudh.edu/academics/theatre-arts/theatre-education-minor/</a> )	Arts and Humanities	Undergraduate	Minor
Theatre Performance, Minor ( <a href="https://catalog.csudh.edu/academics/theatre-arts/theatre-performance-minor/">https://catalog.csudh.edu/academics/theatre-arts/theatre-performance-minor/</a> )	Arts and Humanities	Undergraduate	Minor
Women's Studies, Bachelor of Arts ( <a href="https://catalog.csudh.edu/academics/womens-studies/womens-studies-ba/">https://catalog.csudh.edu/academics/womens-studies/womens-studies-ba/</a> )	Arts and Humanities	Undergraduate	Bachelor
Women's Studies, Minor ( <a href="https://catalog.csudh.edu/academics/womens-studies/womens-studies-minor/">https://catalog.csudh.edu/academics/womens-studies/womens-studies-minor/</a> )	Arts and Humanities	Undergraduate	Minor
CAH Student Success Center ( <a href="https://catalog.csudh.edu/general-information/division-academic-affairs/student-success-career-center/cah-student-success-center/">https://catalog.csudh.edu/general-information/division-academic-affairs/student-success-career-center/cah-student-success-center/</a> )	Arts and Humanities		
CBAPP Student Success Center ( <a href="https://catalog.csudh.edu/general-information/division-academic-affairs/student-success-career-center/cbapp-student-success-center/">https://catalog.csudh.edu/general-information/division-academic-affairs/student-success-career-center/cbapp-student-success-center/</a> )	Business Administration and Public Policy		
CHHSN Student Success Center ( <a href="https://catalog.csudh.edu/general-information/division-academic-affairs/student-success-career-center/chhsn-student-success-center/">https://catalog.csudh.edu/general-information/division-academic-affairs/student-success-career-center/chhsn-student-success-center/</a> )	Health, Human Services, and Nursing		
CNBS Student Success Center ( <a href="https://catalog.csudh.edu/general-information/division-academic-affairs/student-success-career-center/cnbs-student-success-center/">https://catalog.csudh.edu/general-information/division-academic-affairs/student-success-career-center/cnbs-student-success-center/</a> )	Natural and Behavioral Sciences		

## Business Administration

College of Business Administration and Public Policy  
 Department of Accounting, Finance and Economics  
 Department of Information Systems and Operations Management  
 Department of Management and Marketing

### About

#### Bachelor of Science in Business Administration

The Bachelor of Science in Business Administration program is designed to accomplish two objectives. The first of these is to prepare students for lifelong professional careers in commerce, finance and industry, as well as for management careers in the public and not-for-profit sectors. A second objective is to provide students with the knowledge and skills needed to obtain professional, entry level positions in one functional area of the business enterprise, or in some particular field of business. Business Administration students choose a concentration in which to specialize their degree, concentrations include: Accounting, Business Analytics, Entrepreneurship, Finance, General Business, Global Supply Chain Management, Information Systems, Information Systems Security, International Business, Management and Human Resources, Marketing, and Sports Entertainment and Hospitality.

The faculty possess a particularly strong combination of academic and professional credentials. Their doctoral degrees come from the finest universities in the world. Their expertise reflects specialization in different fields of business administration as well as practical experience in business and industry. The full-time faculty is augmented by highly qualified part-time faculty drawn from the business community surrounding the University. These faculty offer students a dimension of knowledge derived from actual experience, in addition to strong academic credentials.

## Minors in Business Administration

The College of Business Administration and Public Policy offers minors in Business Administration, Data Analytics, Information Systems, Marketing and Management. The Minor in Business Administration is designed for students majoring in other fields who wish to acquire a basic knowledge of business for the purpose of career preparation. The Minor in Information Systems offers students the opportunity to acquire skills and knowledge in the application of computers for business decision-making. The Minor in Marketing offers students the opportunity to acquire skills and knowledge in the application of marketing concepts for business decision-making. The Minor in Management offers students the opportunity to acquire skills and knowledge in the application of management concepts for business decision-making.

## Graduate Programs

Business Administration students with an Accounting concentration should consider completing the Master of Science in Accounting (MSA) (<https://www.csudh.edu/accounting-ms/>) at CSUDH. The MSA degree is designed for those with bachelor degrees in accounting disciplines who want to earn qualifications toward the certified public accountant (CPA) license or advance their professional development.

## Certificate Programs

The College of Business Administration and Public Policy offers numerous certificates for students, professionals, and graduate students to enhance their education and advance their skills

## Accreditation

The business programs under the College of Business Administration and Public Policy at CSU Dominguez Hills are accredited regionally by the Western Association of Schools and Colleges (WASC) (<https://www.acswasc.org/>) and internationally by the Association to Advance Collegiate Schools of Business (AACSB) (<https://www.aacsb.edu/>). AACSB International is the world's largest network and global standard-setting body for business education. This accreditation is recognized worldwide as the highest standard of quality, with only 6% of the world's leading business schools achieving AACSB accreditation and displaying the prestigious seal. AACSB-accredited schools are trailblazers in teaching, research, and societal impact.

## Student Organizations

Student Organizations include the Accounting Society, CSUDH Association of Latino Professionals for America (ALPFA), Economics Club, Finance Student Society, Human Resources Management Association, Information Technology Society, Latino Student Business Association (LSBA), Pre-Law Society, Sports Entertainment and Hospitality Club, and the Global Supply Chain Management Club. Students interested in participating in one of these organizations should consult the appropriate Department Chair or stop by the CSUDH Office of Student Life.

## Student Honor Societies

The College of Business Administration and Public Policy sponsors a Department Scholars program in addition to the Epsilon Mu Chapter of Delta Mu Delta, the national honor society for students in business administration. Founded in 1914, the main purpose of Delta Mu Delta is to promote higher scholarship in training for business and to recognize and reward scholastic attainment in business subjects. The Epsilon Mu chapter was chartered in 1989. The chapter inducts eligible business students each spring semester. To be eligible for membership, students must have obtained a grade point average that ranks them in the top ten percent of their class.

## Academic and Career Advisement

### Undergraduate

Candidates for the Bachelor of Science (B.S.) degree receive academic advisement for designing and completing their program of study. Specialized academic advisement can be obtained from the CBAPP Student Success Center (<https://www.csudh.edu/cbapp/student-services/student-support/>). Undergraduate students seeking career advisement should contact department faculty, who are available to discuss career options and current policy issues in professions within the areas of Public Administration and Public Policy.

### Graduate

Candidates for the Master of Science in Accounting (MSA) (<https://www.csudh.edu/accounting-ms/>) degree receive academic advisement through the CBAPP's Graduate and Professional Programs Office.

Office: II 3500

Phone: (310) 243-3646

Email: [busgrad@csudh.edu](mailto:busgrad@csudh.edu) / [mpaonline@csudh.edu](mailto:mpaonline@csudh.edu)

## Graduation with Honors

An undergraduate student may be a candidate for graduation with Honors in Business Administration provided he or she meets the following criteria:

1. A minimum of 36 units in Business Administration in residence at CSUDH. At least 12 of these units must be in the concentration and three units must be from MGT 490 Strategic Management Seminar;
2. A minimum grade point average of at least 3.5 in all courses used to satisfy the upper-division requirements in the major.

## Career Possibilities

Employment opportunities for students with a Major in Business Administration exist within many areas. In the private sector, students will find employment in a wide variety of business and professional organizations including public accounting firms, banks, savings and loans, and other financial institutions, commercial and high technology industries, and in a multitude of firms engaged in transportation, communications, and the increasingly important foreign trade sector. Furthermore, business majors are actively recruited by many not-for-profit and public organizations for their skills in accounting and financial management, marketing, computer and data processing, human resource administration, and general management. Those who want to engage in entrepreneurial activity and operate their own business also will benefit from a major in business administration. In addition, an undergraduate degree in business administration is excellent preparation for graduate study in business, law, and other academic areas offering a professional focus.

## Undergraduate Programs

### Bachelors

- Business Administration, Bachelor of Science (<https://catalog.csudh.edu/academics/business-administration/business-administration-bs/>)

### Minors

- Business Administration, Minor (<https://catalog.csudh.edu/academics/business-administration/business-administration-minor/>)
- Data Analytics, Minor (<https://catalog.csudh.edu/academics/business-administration/data-analytics-minor/>)
- Economics, Minor (p. 273)
- Information Systems Security, Minor (<https://catalog.csudh.edu/academics/business-administration/information-systems-security-minor/>)
- Information Systems, Minor (<https://catalog.csudh.edu/academics/business-administration/information-systems-minor/>)
- Management, Minor (<https://catalog.csudh.edu/academics/business-administration/management-minor/>)
- Marketing, Minor (<https://catalog.csudh.edu/academics/business-administration/marketing-minor/>)

### Certificates

- Accounting, Certificate (<https://catalog.csudh.edu/academics/business-administration/accounting-certificate/>)
- Executive Management Certificate (<https://catalog.csudh.edu/academics/business-administration/executive-management/>)
- Information Systems, Certificate (<https://catalog.csudh.edu/academics/business-administration/information-systems-certificate/>)
- Marketing, Certificate (<https://catalog.csudh.edu/academics/business-administration/marketing-certificate/>)
- Sports Management, Certificate (<https://catalog.csudh.edu/academics/business-administration/sports-management-certificate/>)

## Graduate Programs

### Certificates

- Logistics Management, Post-MBA Certificate (<https://catalog.csudh.edu/academics/business-administration/logistics-management-post-mba-certificate/>)
- Marketing, Post-MBA Certificate (<https://catalog.csudh.edu/academics/business-administration/marketing-post-mba-certificate/>)

## Faculty

Department of Accounting, Finance and Economics (<https://www.csudh.edu/cbapp/departments/accounting-finance/>)

José N. Martínez, Department Chair

Arek Arakelian, Jennifer Brodmann, Meredith Caliman, Gloria Del Rosario, Prakash Dheeriya, Sherine El Hag, Nestor Garza, Sunghoon Joo, S. David Kim, Cenap Ilter, Li-Lin (Sunny) Liu, Rama Malladi, Michael Manahan, José N Martínez, Harun Rashid, Mahmoud Salari, Meghna Singhvi, Hakjoo Song, Charles Thomas, Bingsheng Yi, Sheng Yi, Md Zubair Zuven



## Department of Information Systems and Operations Management (<https://www.csudh.edu/cbapp/departments/isom/>)

Myron Sheu, Department Chair

Chi-Wen Chen, Edward K. Chu, X. Nancy Deng, Mohammad Eyadat, Jian-Yu (Fisher) Ke, G. Keong Leong, Claudia Celene Navarrete, Hamid Pourmohammadi, Myron Sheu, Wang-chan Wong, Xun (Peter) Xu, Tianjian (Tj) Zhang

## Department of Management and Marketing (<https://www.csudh.edu/cbapp/departments/management-marketing/>)

Sari Silvanto-Ryan, Department Chair

Yann Abdourazakou, Orie Berezan, William David Brice, Kirti Celly, Natasa Christodoulidou, Rida Elias, Jessica Federman, David Hoopes, Chacko Kannothra, Lei Lai, Thomas J. Norman, Sari Silvanto-Ryan, Melissa St. James, Bing Xu, Meng Zhao, Xia Zhao

## Emeriti Faculty

Melvin P. Auerbach (Accounting & Finance), Donald J. Barnett (Accounting & Finance), Martin Blyn (Accounting & Finance), Potkin Basseer (Accounting & Finance), Barbara R. Chrispin (Management), George N. Clawson (Management), Dorothy M. Fisher (Information Systems), Raoul J. Freeman (Information Systems), Carolyn Harris (Business Communication), Steven Jenner (Management & Marketing), Jack Kitson (Marketing), C.W. Lee (Management), Carol V. Lopilato (Accounting & Finance), Richard Malamud (Accounting & Finance), Anthony Mastor (Accounting & Finance), Joseph F. McCloskey (Finance and Quantitative), Herbert J. Milgrim (Accounting & Finance), R. Bryant Mills (Management), George Morris (Marketing), Mazin M. Nashif (Accounting & Finance), Richard Nehrbass (Management), Larry Press (Information Systems), Fahimeh Rezayat (Information Systems), Harold A. Rothbart (Industrial Management), Stanley R. Schoen (Accounting & Law), Robert H. Schueler (Business Administration), Franklin Strier (Business Law), Ricardo Ulivi (Accounting & Finance), Burhan Yavas (Accounting & Finance), Kosaku Yoshida (Accounting & Finance), Cyril E. Zoerner, Jr. (Marketing)

## Academic Advisement and Student Services

The CBAPP Student Success Center (<https://www.csudh.edu/cbapp/student-services/student-support/>) provides undergraduate student services regarding major advisement, appointments with an advisor, registration issues, permission numbers, assistance with forms such as petitions, add/drop, and change of major/minor, etc.

Office: II 1100 and 3400

Phone: (310) 243-3561

## Faculty Office Hours and Support

Faculty office hours are posted on our website. Additional support is provided to students in regards to faculty office hours, contacting faculty, and classroom changes, etc.

Office: II 4524, 4526 and 4200

Phone: (310) 243-3548

Website: [www.csudh.edu/cbapp/faculty-support](http://www.csudh.edu/cbapp/faculty-support) (<https://www.csudh.edu/cbapp/faculty-support/>)

## Economics, Minor

### Program Description

The Minor in Economics is designed for students majoring in all fields who wish to acquire a basic knowledge of economics, fundamental skills for functional citizenship in modern societies and for students interested in social sciences.

The program focuses on basic micro, macro, environments, international trade and finance development. Students will engage in applied, hands on active learning to develop the skills needed in business making decisions. The program will provide resources for students to advance in their careers via networking events, panel discussions, tutoring, and applied research topics and cases. The program will offer flexible instruction via online, hybrid, and face-to-face courses.

The minor in economics offers the possibility of acquiring computer and data analysis skills, with the objective of engaging in discussion about important social phenomena, relevant in diverse labor posts in both public and private sectors.

### Requirements

The program is 18-month Program (18 units).

Required Courses (9 units)

Code	Title	Hours
ECO 210	Economic Theory 1A Micro	3
ECO 230	Statistics For Economists	3
ECO 211	Economic Theory 1B Macro (Required Courses)	3

Elective Courses (Any 9 units of the proposed elective courses)

Code	Title	Hours
ECO 322	Money And Banking	3
ECO 330	Labor Economics	3
ECO 340	International Trade Thry	3
ECO 341	International Finance	3
ECO 345	Economic Development	3

## Child Development

College of Health, Human Services, and Nursing  
Department of Child Development

### Program Description

The field of Child Development is dedicated to understanding how individuals change over time from conception through adolescence. Knowledge of developmental processes and the factors that influence development is essential for effectively working with children and for making sound decisions regarding their welfare and promoting individual success. The program in Child Development prepares students to become knowledgeable and effective child and family professionals. Foundational coursework prepares students to master the basics of development across different developmental periods. As students advance through the program, they take specialized courses to develop a deeper understanding of the factors related to development, its study, and its application.

### Features

The Child Development major is a single-field major. A minor is not required. The program offers students the opportunity to work in the field as well as receive rigorous scientific training. The curriculum spans the period of infancy through adolescence, thus preparing students for working with any age group. Specialized courses such as one on immigrant children or child and family policy provide concrete linkages to the challenges of growing up in diverse settings and of the powerful social and political contexts that shape children's development.

### Academic Advisement

New students are recommended to see an academic advisor before enrolling in the classes. Students may call the CHHSN Student Success Center at (310) 243-2120, WH 220. **Students are encouraged to use the Smart Planner to plan and enroll in their courses and need to bring their completed Smart Planner report to any advising appointment.** Please use this link for information and tutorials: <https://www.csudh.edu/registrar/registration/>.

### Preparation

High school students are encouraged to develop strong competencies in English, mathematics, and the social, behavioral, and life sciences. Both lower and upper-division courses in the major require substantive writing, analytical and critical thinking skills, and a comprehensive understanding of research methods. Thus, adequate academic preparation is strongly advised.

Transfer students should take equivalents of CDV 150 Intro Child Development and MAT 131 Elementary Statistics & Probability, MAT 132 Elementary Statistics & Probability with Algebra Review, MAT 134 Elementary Statistics & Probability – Supported, or PSY 230 Elementary Statistical Analysis in Psychology.

### Graduation With Honors

An undergraduate student may graduate with Honors in Child Development provided that the following criteria are met:

1. A minimum of 36 units in residence at CSU Dominguez Hills.
2. A minimum grade point average of 3.5 in all courses used to satisfy the upper-division requirements in Child Development.
3. Demonstrates a record of behavior consistent with the Student Code of Conduct.

### Career Possibilities

The Bachelor of Science degree in Child Development provides a basis for diverse professional careers including – but not limited to – early childhood and PK-12 education, special education, parent education, youth counseling, program development and administration for at-risk or special needs youth, case management in governmental agencies, occupational/ behavioral/speech therapy, social work, or child advocacy. Child development

majors work in settings such as schools, family courts, hospitals, governmental agencies, and non-profit agencies that deliver services to children and families, recreation programs, and for companies that manufacture products for children such as toys, books, and software, as well as in research settings. The degree also prepares students for credentialing programs and graduate studies.

## Undergraduate Programs

### Bachelor

- Child Development, Bachelor of Science (p. 277)

## Faculty

Megumi Kuwabara, Department Chair

Kaitlyn Breiner, Cornelia Brentano, Oona Fontanella-Nothom, Anupama Joshi, Kara Kogachi, Megumi Kuwabara, Angelica Lopez Fraire, Kimberley Radmacher, Christina Toolan

Program Office: WH A320, (310) 243-2029

## Courses

### CDV 150. Intro Child Development. (3 Units)

Overview of physical, cognitive, social and emotional development from conception through the end of adolescence; theoretical advances in child development; individual and contextual contribution to developmental processes.

Offered Fall, Spring

### CDV 220. Principles and Practices of Teaching Young Children. (3 Units)

Prerequisite(s): CDV 150 or CDV 325. Examines the historical approaches and theoretical principles of developmentally appropriate practice in early childhood learning environments, curriculum development, and teaching. Emphasis is placed on how play, adult-child interactions, and family-school relationships support children's physical, cognitive, social, emotional, and language development. Introduces the roles and responsibilities of an early childhood educator, including the reflective curriculum cycle.

Offered Fall, Spring

### CDV 225. Infant Development - FROZEN. (4 Units)

Prerequisites: Live Scan and current negative TB documentation. CDV 180. Development from conception through 2 years; changes through prenatal period; birth; development of attachment; infant care issues. 3 hours of lecture, 1 unit of observation in infant-care settings.

Offered Infrequent

### CDV 240. Early Childhood Development and Curriculum. (4 Units)

Prerequisite(s): CDV 220. Students will learn and begin to create developmentally appropriate curriculum and teaching practices for children ages 2 to 6 years across developmental domains and content areas. Connections between curriculum, curriculum design, and children's physical, cognitive, social, emotional, and language development are examined.

Offered Spring

### CDV 260. Introduction to Observation and Assessment in ECE. (3 Units)

Prerequisite(s): CDV 240. This course introduces the observation and assessment strategies and tools used to document development and learning in early childhood. Ethical issues, strengths, weakness and appropriate use of these methods will be discussed.

Offered Fall, Fall, Spring

### CDV 295. Special Topics in Child Development. (1-5 Units)

Prerequisite: CDV 150 is required. Contemporary topics of interest in Child Development.

Offered Fall, Spring

### CDV 320. Mthd & Analysis in Child Study. (4 Units)

Prerequisites: CDV 150 and MAT 131 or MAT 132 or PSY 230 are required. Junior Standing is recommended. Various methods used to study children; quantitative and qualitative data; measurement issues; basic data analytic techniques. 3 hours lecture, 1 hour lab. A grade of C or better in this course fulfills the GVAR requirement for Child Development majors.

Offered Fall, Spring

### CDV 325. Infancy and Early Childhood. (3 Units)

Prerequisite: CDV 150 is required. Provides an overview of physical, cognitive, social and emotional development from conception through 6 years.

Offered Fall, Spring

### CDV 330. Schoolage Years. (3 Units)

Prerequisite: CDV 150 is required. Physical, cognitive, social and emotional development from 6 to 12 years. Emphasis on home, school, and community contexts and their interconnections; developmental analysis related to contemporary issues in areas of health and education.

Offered Fall, Spring

**CDV 342. Advanced Observation and Assessment in Early Childhood. (3 Units)**

Prerequisite: CDV 180 and CDV 240 are required. Observation and assessment methods in early childhood and their significance in guiding development and designing programs for children birth through 8 years.

Offered Spring

**CDV 344. Supervision in Early Childhood Settings. (3 Units)**

Prerequisites: CDV 180, CDV 240 and CDV 325 are required. Provides students with the methods and principles of supervising teachers, volunteers, student teachers, staff and other adults in early childhood education settings. An emphasis is placed on the development and role of early childhood professionals as mentors and leaders.

Offered Fall

**CDV 360. Adolescence. (3 Units)**

Prerequisite: CDV 150 is required. Physical, cognitive, social and emotional development from 12 to 20 years, focusing on developmentally unique changes at individual, interpersonal and social levels.

Offered Fall, Spring

**CDV 363. Development in Diverse Contexts. (3 Units)**

Prerequisite(s): CDV 150. The development of the individual identity along multiple dimensions of age, gender and abilities in the contexts of class, culture, and ethnicity. Issues of hierarchies, the development of prejudice and discrimination at individual and institutional levels.

Offered Fall, Spring

**CDV 366. Parenting and Child Guidance. (3 Units)**

Prerequisites: CDV 320, CDV 325, and CDV 360. Co-Requisite: CDV 330. The development and key tasks of the parenting role are examined, focusing on the influences of family systems and diverse contexts. Evidence-based parent education approaches and child guidance strategies that promote healthy child outcomes across diverse caregiving roles and settings are discussed.

Offered Fall, Spring

**CDV 370. Enhancing Early Language and Literacy I. (3 Units)**

Prerequisite: Jumpstart Corp member and department consent. Examines early language, literacy, and multi-lingual development with an emphasis on environmental factors. Provides techniques for engaging children in language and literacy activities and opportunities for students to evaluate and reflect on their civic engagement. Course open to Jumpstart Corps members only. Department consent required.

Offered Spring

**CDV 372. Social Development and Interpersonal Relationships. (3 Units)**

Prerequisites: CDV 320, CDV 325, CDV 330 and CDV 360. Study of social and emotional development from birth through adolescence; development of the self; temperament and emotion; attachment, peer, parent-child, and early romantic relationships; interpersonal skills and moral development.

Offered Infrequent

**CDV 380. Stress, Risk, & Resilience. (3 Units)**

Prerequisites: CDV 320, CDV 325, and CDV 360. Co-Requisite: CDV 330. Childhood stress is examined within a risk and resilience framework. Concepts and theories explaining developmental risk and the protective factors and intervention strategies that promote adaptive coping and adjustment in various contexts will be discussed.

Offered Fall, Spring

**CDV 423. Chld Devpt Scl Policy. (3 Units)**

Prerequisite: CDV 320, CDV 325, CDV 330, CDV 360, CDV 380 are required. Enduring issues related to children's development that have led to policy decisions; process of policy making; current issues that require policy decisions; evaluating the impact of policy on children and families.

Offered Fall, Spring

**CDV 440. Immigrant Children and Families. (3 Units)**

Prerequisites: CDV 320, CDV 325, CDV 330 and CDV 360 are required. The process of immigration as an influential factor in development; changing ecologies and adaptation demands on individuals and families; informal and formal support structures.

Offered Fall, Spring

**CDV 442. Marriage, Family, and Community. (3 Units)**

Prerequisite: CDV 320, CDV 325 and CDV 330 and CDV 360 are required. Examines family structure, love, mate selection, marital communication, divorce, remarriage, gender roles, and domestic violence across diverse contexts with a special focus on the factors that enhance healthy family relationships and children's development.

Offered Fall, Spring

**CDV 444. Language, Cognition, and Schooling. (3 Units)**

Prerequisite: CDV 320, CDV 325, CDV 330, and CDV 360 Theoretical and empirical overview of cognitive and language development from birth through the end of adolescence; second language acquisition; interconnections between cognitive development, language development and schooling.

Offered Fall, Spring

**CDV 450. Devpt in Poverty. (3 Units)**

Prerequisites: CDV 320, CDV 325, CDV 330, and CDV 360 Poverty as a unique context of development; developmental processes and child outcomes in poverty; family interactions and generation of coping mechanisms in the context of poverty; special needs of poor children

Offered Fall, Spring

**CDV 462. Atypical Development. (3 Units)**

Prerequisite(s): CDV 320, CDV 325, CDV 330, CDV 360. Introduction to key concepts, developmental theories, empirical research, and evidence-based practices related to children and adolescents with developmental disorders and disabilities. Utilizes a developmental science approach to understanding the child and family within community and cultural contexts.

**CDV 480. Practicum in Early Childhood Education. (3 Units)**

Required Prerequisites: CDV 220, CDV 240, CDV 260, CDV 325. Recommended Prerequisites: CDV 462. Plan and implement curriculum activities with developmentally appropriate goals and methods based on observations of children. Practice and demonstrate skills expected of a beginning preschool teacher in California.

Offered Fall, Spring

**CDV 490. Senior Seminar. (3 Units)**

Prerequisites: CDV 363, CDV 366 and CDV 380 are required. Integration of knowledge about theories, empirical findings and practice in Child Development; emphasis on writing and presentation skills.

Offered Fall, Spring

**CDV 492. Seminar in Child Development Research. (4 Units)**

Prerequisite(s): CDV 320, CDV 363, CDV 366, CDV 380. Provides students an opportunity to integrate knowledge about theories, empirical findings and research practices in child development. Students learn and apply research methods. An emphasis is placed on writing and presenting research reports for academic or non-academic audiences.

Offered Fall, Spring

**CDV 494. Independent Study. (1-6 Units)**

Prerequisites: Consent of instructor. Investigation of a single topic, chosen in consultation with a faculty member, culminating in a paper, presentation, or project. Repeatable course.

Offered Fall, Spring

**CDV 495. Special Topics. (1-5 Units)**

Prerequisites: Upper division standing. Contemporary topics of interest in Child Development. Repeatable course.

Offered As needed

**CDV 496. Directed Field Experience. (3 Units)**

Pre-requisite: CDV 363, CDV 366 and CDV 380 are required. Must take Seminar and Supervision. Faculty supervised experience in any approved Child Development setting. Weekly seminar designed to facilitate the integration of Child Development knowledge and theory with students' fieldwork experience. Students will examine and integrate personal and professional goals and values to gain an understanding of the self in a professional role. Each seminar provides an opportunity to share field experiences and problem solve.

Offered Fall, Spring

**CDV 498. Directed Research. (1-6 Units)**

Prerequisites: CDV 320 and consent of instructor are required. Project selected in consultation with a faculty supervisor and a plan made to implement the project; meetings held regularly. May be repeated to a maximum of 6 units.

Offered Fall, Spring

## Child Development, Bachelor of Science

### Requirements

#### Total Course Requirements for the Bachelor's Degree

See the "Requirements for the Bachelor's Degree (<https://catalog.csudh.edu/general-information/baccalaureate-degrees-undergraduate-studies/>)" in the University Catalog for complete details on general degree requirements. A minimum of 40 units, including those required for the major, must be upper division.

#### Elective Requirements

Completion of elective courses (beyond the requirements listed below) to reach a total of a minimum of 120 units.

#### General Education Requirements (49 units)

See the "General Education (p. 59)" requirements in the University Catalog or the Class Schedule for the most current information on General Education requirements and course offerings.

#### Graduation Writing Assessment Requirement

See the "Graduation Writing Assessment Requirement (<https://catalog.csudh.edu/general-information/baccalaureate-degrees-undergraduate-studies/gwar-certifying-courses/>)" in the University Catalog.

#### Minor Requirements

Single field major, no minor required

## Major Requirements (43-45 units)

The following courses, or their approved transfer equivalents, are required of all candidates for this degree.

All Child Development courses applied to the B.S. in Child Development must be passed with a grade of "C" or better.

### CHILD DEVELOPMENT CORE COURSES

Code	Title	Hours
<b>Lower Division Courses</b>		
CDV 150	Intro Child Development (satisfies GE Area D1)	3
Select one of the following statistics courses: <sup>1</sup>		3-4
MAT 131	Elementary Statistics and Probability (satisfies GE Area B4)	
or MAT 132	Statistics and Probability with Support	
or MAT 134	Statistics & Probability - Supported	
or PSY 230	Elementary Statistical Analysis in Psychology	
<b>Foundational Courses</b>		
CDV 320	Mthd & Analysis in Child Study	4
CDV 325	Infancy and Early Childhood	3
CDV 330	Schoolage Years	3
CDV 360	Adolescence	3
CDV 363	Development in Diverse Contexts	3
<b>Specialized Courses</b>		
CDV 366	Parenting and Child Guidance	3
CDV 380	Stress, Risk, & Resilience	3
Specialized Electives - select five of the following courses: <sup>2,3</sup>		15-16
CDV 342	Advanced Observation and Assessment in Early Childhood	
CDV 344	Supervision in Early Childhood Settings	
CDV 370	Enhancing Early Language and Literacy I	
CDV 372	Social Development and Interpersonal Relationships	
CDV 423	Chld Devpt Scl Policy	
CDV 440	Immigrant Children and Families	
CDV 442	Marriage, Family, and Community <sup>3</sup>	
CDV 444	Language, Cognition, and Schooling	
CDV 450	Devpt in Poverty	
CDV 462	Atypical Development <sup>2</sup>	
Students may select one capstone course as a specialized elective:		
CDV 480	Practicum in Early Childhood Education <sup>2</sup>	
or CDV 490	Senior Seminar	
or CDV 492	Seminar in Child Development Research	
or CDV 496	Directed Field Experience	
or CDV 498	Directed Research	
<b>Total Hours</b>		<b>43-45</b>

<sup>1</sup> **Note:** MAT 131 Elementary Statistics and Probability, MAT 132 Statistics and Probability with Support, and MAT 134 Statistics & Probability - Supported may be used to meet the GE Area B4 Quantitative Reasoning requirement. PSY 230 Elementary Statistical Analysis in Psychology does not count towards GE Area B4.

<sup>2</sup> **Note:** CDV 462 Atypical Development, and CDV 480 Practicum in Early Childhood Education are required specialized courses for the Early Development and Learning Concentration.

<sup>3</sup> **Note:** CDV 442 Marriage, Family, and Community is a required specialized course for the Counseling and Family Services Concentration.

## Concentrations (12-21 units)

Students may select one of the following concentrations, but it is not required.

### EARLY DEVELOPMENT AND LEARNING CONCENTRATION (12-21 UNITS)

Students interested in the Early Development and Learning Concentration must select one of the tracks listed below. Students in each track complete the EDLC core courses. Credential tracks are designed to expedite students' completion of the stated credential program at CSUDH. Students will complete some of their credential coursework as an undergraduate and finish their credential coursework in the credential program after they graduate with their bachelor's degree. Students must apply for the desired credential program in the final year of their bachelor's degree program if they want to continue into the credential program.

#### Child Development Permit Track<sup>1</sup> (12 units)

Code	Title	Hours
<b>EDLC Core Courses<sup>1</sup></b>		
CDV 220	Principles and Practices of Teaching Young Children	3
CDV 240	Early Childhood Development and Curriculum	3
CDV 260	Introduction to Observation and Assessment in ECE	3
LBS 410	Early Language and Literacy	3
<b>Total Hours</b>		<b>12</b>

#### PK-3 Credential Track<sup>2</sup> (18 units)

Code	Title	Hours
<b>EDLC Core Courses<sup>1</sup></b>		
CDV 220	Principles and Practices of Teaching Young Children	3
CDV 240	Early Childhood Development and Curriculum	3
CDV 260	Introduction to Observation and Assessment in ECE	3
LBS 410	Early Language and Literacy	3
<b>PK-3 Credential Courses</b>		
ECE 400	Developmentally Appropriate Practices in Early Childhood Education	3
LBS 430	STEAM for Young Learners	3
<b>Total Hours</b>		<b>18</b>

#### Early Childhood Special Education Credential Track<sup>3</sup> (21 units)

Code	Title	Hours
<b>EDLC Core Courses<sup>1</sup></b>		
CDV 220	Principles and Practices of Teaching Young Children	3
CDV 240	Early Childhood Development and Curriculum	3
CDV 260	Introduction to Observation and Assessment in ECE	3
LBS 410	Early Language and Literacy	3
<b>Early Childhood Special Education Courses</b>		
SPE 458	Positive Classroom Environments	3
SPE 462	Language, Literacy and Cognition	3
SPE 480	Educating Exceptional Children and Youth	3
<b>Total Hours</b>		<b>21</b>

<sup>1</sup> In addition to the Child Development Core Curriculum, completion of the Early Development and Learning Concentration core courses will prepare students for the Child Development Teacher Level Permit.

<sup>2</sup> Completing the PK-3 Credential Track will prepare students for entry into the PK-3 ECE Specialist Instruction Credential at CSUDH. Students must apply for the credential program in the final year of their bachelor's degree if they want to continue into the credential program. Students who are accepted into the credential program may use the following courses towards their credential: CDV 363, ECE 400, LBS 410, and LBS 430. Students must receive a B- or better in these courses to count toward the PK-3 ECE Specialist Instruction Credential at CSUDH.

<sup>3</sup> Completing the Early Childhood Special Education Credential Track will prepare students for entry into the Early Childhood Special Education Instruction Credential at CSUDH. Students must apply for the credential program in the final year of their bachelor's degree if they want to continue into the credential program. Students who are accepted into the credential program may use the following courses towards their credential: LBS 410, SPE 458, SPE 462, and SPE 480. Students must receive a B- or better in these courses to count toward the PK-3 ECE Specialist Instruction Credential at CSUDH.

#### COUNSELING AND FAMILY SERVICES CONCENTRATION (12 UNITS)

Code	Title	Hours
Select four courses from the following:		
HUS 300	Introduction To Human Services	3
HUS 315	Intercultural Communication for Human Services	3
SOC 320	The Family	3
SOC 363	Sociology of Alcohol and Other Drug Use	3
SOC 386	Sociology of the Helping Professions	3
PSY 314	Behavior Modification	3
PSY 353	The Experience of Death and Dying: Psychological Perspectives	3
PSY 360	Theories Of Personality	3
PSY 363	Abnormal Psychology	3
PSY 464	Introduction to Clinical Psychology	3
PSY 367	Effective Communication Skills	3
or SOC 341	Seminar In Small Groups	

**Juvenile Delinquency Concentration (12 units)**

Code	Title	Hours
<b>Required Courses</b>		
CJA 444	Juvenile Justice Process	3
SOC 369	Juvenile Delinquency	3
<b>Electives</b>		
Select two courses from the following:		6
CJA 340	Crim Justice & Community	
CJA 443	Criminal Law & Justice Admin	
SOC 306	Program Evaluation	
SOC 362	Gangs and Adolescent Subcultures	
SOC 363	Sociology of Alcohol and Other Drug Use	
SOC 365	Deviant Behavior	
SOC 367	Sociology Of Law	
or SOC 341	Seminar In Small Groups	

**Total Hours** **12**

**Management and Administration Concentration (12 units)**

Code	Title	Hours
<b>Required Courses</b>		
MGT 310	Management Theory	3
or PUB 300	Foundations of Public Administration	
MGT 312	Organizational Behavior	3
or PUB 301	Administrative Leadership and Behavior	
<b>Electives</b>		
Select two of the following courses:		6
FIN 360	Business Finance	
HRM 313	Human Resources Management	
MGT 416	Leadership	
MKT 350	Principles Of Marketing	
PUB 426	Intergovernmental Relations and Grant-Writing	
PUB 426	Intergovernmental Relations and Grant-Writing	
PUB 450	Nonprofit & Voluntary Sector	
PUB 451	Managing the Nonprofit Organization	
SOC 306	Program Evaluation	
Select one of the following: <sup>1</sup>		3
PSY 367	Effective Communication Skills	3



BUS 301 & BUS 302 & BUS 303	Employment Communications and Written Communications and Oral Communication	1
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<sup>1</sup> **Note:** Students may take (BUS 301 Employment Communications, BUS 302 Written Communications and BUS 303 Oral Communication) or PSY 367 Effective Communication Skills.

## Program Learning Outcomes

- PLO 1: Describe and summarize (basic), apply (intermediate), and critically evaluate and synthesize (advanced) constructs, theories, and empirical findings pertaining to child development including developmental milestones and processes in the physical, cognitive, and social-emotional domains from conception through adolescence.
- PLO 2: Incorporate Diversity: analyze and illustrate how culture, gender, ethnicity, social class, and contextual variables contribute to variation in development.
- PLO 3: Demonstrate research knowledge and skills: explain and apply the scientific method; describe, evaluate, and apply research and observation methods used in the study of children’s development; and calculate and interpret basic statistics.
- PLO 4: Demonstrate effective oral and written communication skills that reflect the ability to summarize (basic), apply (intermediate), and evaluate/synthesize (advanced) developmental theories and empirical findings and that are consistent with the professional and ethical standards of the child development field.
- PLO 5: Develop and demonstrate professional and personal skills and qualities related to the field of child development (e.g., observation techniques, curriculum development/implementation, leadership and teamwork, professional ethics, accountability, reliability).
- PLO 6: Demonstrate technological and information and computer literacy that permits the access, utilization, production, and dissemination of electronic information.
- CPLO A: Describe, develop, evaluate, and engage young children in developmentally- and culturally appropriate learning experiences and environments that promote their physical, cognitive, social, and emotional development.
- CPLO B: Describe, develop, and demonstrate professional skills and knowledge related to counseling and family service settings.

## General Elective Option

### 4- Year Roadmap

### 4- Year Roadmap

#### First Year

Fall	Hours
GE Area A2 Written Communication	3
Lower Division GE Area C	3
HIS 101 History Of United States	3
CDV 150 Intro Child Development (satisfies GE Area D1)	3
GE Area E Lifelong Learning and Self-Development	3
<b>Hours</b>	<b>15</b>
Spring	
MAT 131 Elementary Statistics and Probability (satisfies GE Area B4) or MAT 132 or Statistics and Probability with Support or MAT 134 or Statistics & Probability - Supported or PSY 230 or Elementary Statistical Analysis in Psychology	3
POL 101 American Institutions	3
GE Area B1 Physical Sciences OR B2 Life Sciences	3
GE Area C	3
GE Area D	3
<b>Hours</b>	<b>15</b>

#### Second Year

Fall	
GE Area A1 Oral Communication	3
GE Area B1 Physical Sciences OR B2 Life Sciences	3
GE Area B3 - Science Laboratory	1
Additional GE in Area C1 or C2	3
Free Elective to meet 120 units	3
Free Elective to Meet 120 units	3
<b>Hours</b>	<b>16</b>

<b>Spring</b>		
GE Area A3 Logic/Critical Thinking		3
GE Area F - Ethnic Studies		3
CDV Foundational Core (CDV 325, CDV 330, or CDV 325)		3
CDV Foundational Core (CDV 325, CDV 330, or CDV 325)		3
Free Elective to meet 120 units		3
	<b>Hours</b>	<b>15</b>
<b>Third Year</b>		
<b>Fall</b>		
CDV 320	Mthd & Analysis in Child Study	4
CDV Foundational Core (CDV 325, CDV 330, or CDV 325)		3
Upper Division GE from Area B5, C3, or D3		3
Free Elective to meet 120 units		3
Free Elective to meet 120 units		1
	<b>Hours</b>	<b>14</b>
<b>Spring</b>		
CDV 363	Development in Diverse Contexts	3
CDV 366	Parenting and Child Guidance	3
CDV 380	Stress, Risk, & Resilience	3
Upper Division GE from Area B5, C3, or D3		3
Elective to meet 120 units		3
	<b>Hours</b>	<b>15</b>
<b>Fourth Year</b>		
<b>Fall</b>		
CDV Specialized Elective <sup>1,2</sup>		3
CDV Specialized Elective <sup>1,2</sup>		3
CDV Specialized Elective <sup>1,2</sup>		3
Upper Division GE from Area B5, C3, or D3		3
Free Elective to meet 120 units		3
	<b>Hours</b>	<b>15</b>
<b>Spring</b>		
CDV Specialized Elective <sup>1,2</sup>		3
CDV Specialized Elective <sup>1,2</sup>		3
Free Elective to meet 120 units		3
Free Elective to meet 120 units		3
Free Elective to meet 120 units		3
	<b>Hours</b>	<b>15</b>
	<b>Total Hours</b>	<b>120</b>

<sup>1</sup> Specialized Electives (complete five courses from the following): CDV 342, CDV 344, CDV 370, CDV 372, CDV 423, CDV 440, CDV 442, CDV 444, CDV 450, or CDV 462.

<sup>2</sup> Capstone Electives (may complete one of the following as Specialized Elective): CDV 480, CDV 490, CDV 492, CDV 496, or CDV 498.

## 2-Year Roadmap (transfer students)

## 2-Year Roadmap (transfer students)

<b>First Year</b>		
<b>Fall</b>		<b>Hours</b>
CDV 320	Mthd & Analysis in Child Study	4
CDV 325	Infancy and Early Childhood	3
CDV 330	Schoolage Years	3
CDV 360	Adolescence	3
Free Elective to meet 120 units		2
	<b>Hours</b>	<b>15</b>
<b>Spring</b>		
CDV 363	Development in Diverse Contexts	3
CDV 366	Parenting and Child Guidance	3
CDV 380	Stress, Risk, & Resilience	3
Upper Division GE from Area B5, C3, or D3		3
Free Elective to meet 120 units		3
	<b>Hours</b>	<b>15</b>

**Second Year**

Fall		Hours
CDV Specialized Elective <sup>1,2</sup>		3
CDV Specialized Elective <sup>1,2</sup>		3
CDV Specialized Elective <sup>1,2</sup>		3
Upper Division GE from Area B5, C3, or D3		3
Free Elective to meet 120 units		3
<b>Hours</b>		<b>15</b>
Spring		Hours
CDV Specialized Elective <sup>1,2</sup>		3
CDV Specialized Elective <sup>1,2</sup>		3
Upper Division GE from Area B5, C3, or D3		3
Free Elective to meet 120 units		3
Free Elective to meet 120 units		3
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>60</b>

<sup>1</sup> Specialized Electives (complete four courses from the following): CDV 342, CDV 344, CDV 370, CDV 372, CDV 423, CDV 440, CDV 442, CDV 444, CDV 450, or CDV 462.

<sup>2</sup> Capstone Electives (may complete one of the following as Specialized Elective): CDV 480, CDV 490, CDV 492, CDV 496, or CDV 498.

# Early Development and Learning Concentration

## 4- Year Roadmap

### Child Development Permit Track: 4-Year Roadmap

**First Year**

Fall		Hours
GE Area A2 Written Communication		3
Lower Division GE Area C		3
HIS 101	History Of United States	3
CDV 150	Intro Child Development (satisfies GE Area D1)	3
GE Area E Lifelong Learning and Self-Development		3
<b>Hours</b>		<b>15</b>
Spring		Hours
MAT 131 or MAT 132 or MAT 134 or PSY 230	Elementary Statistics and Probability (satisfies GE Area B4) or Statistics and Probability with Support or Statistics & Probability - Supported or Elementary Statistical Analysis in Psychology	3
POL 101	American Institutions	3
CDV 220	Principles and Practices of Teaching Young Children	3
GE Area B1 Physical Sciences OR B2 Life Sciences		3
Lower Division GE Area D		3
<b>Hours</b>		<b>15</b>

**Second Year**

Fall		Hours
CDV 240	Early Childhood Development and Curriculum	3
GE Area A1 Oral Communication		3
Additional GE in Area C1 or C2		3
GE Area B1 Physical Sciences OR B2 Life Sciences		3
GE Area B3: Science Lab		1
Free Elective to Meet 120 units		1
<b>Hours</b>		<b>14</b>
Spring		Hours
CDV 260	Introduction to Observation and Assessment in ECE	3
CDV 325	Infancy and Early Childhood	3
Lower Division GE Area C		3
GE Area A3 Logic/Critical Thinking		3
GE Area F Ethnic Studies		3
<b>Hours</b>		<b>15</b>

**Third Year**

<b>Fall</b>			
CDV 320	Mthd & Analysis in Child Study		4
CDV 330	Schoolage Years		3
CDV 360	Adolescence		3
Upper Division GE from Area B5, C3, or D3			3
Free Elective to meet 120 units			3
<b>Hours</b>			<b>16</b>
<b>Spring</b>			
CDV 363	Development in Diverse Contexts		3
CDV 366	Parenting and Child Guidance		3
CDV 380	Stress, Risk, & Resilience		3
CDV 462	Atypical Development		3
Upper Division GE from Area B5, C3, or D3			3
<b>Hours</b>			<b>15</b>

**Fourth Year**

<b>Fall</b>			
CDV Specialized Elective <sup>1</sup>			3
CDV Specialized Elective <sup>1</sup>			3
CDV Specialized Elective <sup>1</sup>			3
LBS 410	Early Language and Literacy		3
Free Elective to meet 120 units			3
<b>Hours</b>			<b>15</b>
<b>Spring</b>			
CDV 480	Practicum in Early Childhood Education		3
Upper Division GE from Area B5, C3, or D3			3
Free Elective to meet 120 units			3
Free Elective to meet 120 units			3
Free Elective to meet 120 units			3
<b>Hours</b>			<b>15</b>
<b>Total Hours</b>			<b>120</b>

<sup>1</sup> Specialized Electives (complete three courses from the following): CDV 342, CDV 344, CDV 370, CDV 372, CDV 423, CDV 440, CDV 442, CDV 444, or CDV 450.

**PK-3 Credential Track: 4-Year Roadmap****First Year**

<b>Fall</b>			<b>Hours</b>
GE Area A2 Written Communication			3
Lower Division GE Area C			3
HIS 101	History Of United States		3
CDV 150	Intro Child Development (satisfies GE Area D1)		3
GE Area E Lifelong Learning and Self-Development			3
<b>Hours</b>			<b>15</b>
<b>Spring</b>			
MAT 131 or MAT 132 or MAT 134 or PSY 230	Elementary Statistics and Probability (satisfies GE Area B4) or Statistics and Probability with Support or Statistics & Probability - Supported or Elementary Statistical Analysis in Psychology		3
POL 101	American Institutions		3
CDV 220	Principles and Practices of Teaching Young Children		3
GE Area B1 Physical Sciences OR B2 Life Sciences			3
Lower Division GE Area D			3
<b>Hours</b>			<b>15</b>

**Second Year**

<b>Fall</b>			
CDV 240	Early Childhood Development and Curriculum		3
GE Area A1 Oral Communication			3
Additional GE in Area C1 or C2			3
GE Area B1 Physical Sciences OR B2 Life Sciences			3
GE Area B3: Science Lab			1

Free Elective to Meet 120 units		1
<b>Hours</b>		<b>14</b>
<b>Spring</b>		
CDV 260	Introduction to Observation and Assessment in ECE	3
CDV 325	Infancy and Early Childhood	3
GE Area A3 Logic/Critical Thinking		3
GE Area F Ethnic Studies		3
Lower Division GE Area C		3
<b>Hours</b>		<b>15</b>
<b>Third Year</b>		
<b>Fall</b>		
CDV 320	Mthd & Analysis in Child Study	4
CDV 330	Schoolage Years	3
CDV 360	Adolescence	3
Upper Division GE from Area B5, C3, or D3		3
Free Elective to meet 120 units		3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
CDV 363	Development in Diverse Contexts	3
CDV 366	Parenting and Child Guidance	3
CDV 380	Stress, Risk, & Resilience	3
CDV 462	Atypical Development	3
Upper Division GE from Area B5, C3, or D3		3
<b>Hours</b>		<b>15</b>
<b>Fourth Year</b>		
<b>Fall</b>		
CDV Specialized Elective <sup>1</sup>		3
CDV Specialized Elective <sup>1</sup>		3
CDV Specialized Elective <sup>1</sup>		3
LBS 410	Early Language and Literacy	3
ECE 400	Developmentally Appropriate Practices in Early Childhood Education	3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
CDV 480	Practicum in Early Childhood Education	3
LBS 430	STEAM for Young Learners	3
Upper Division GE from Area B5, C3, or D3		3
Free Elective to meet 120 units		3
Free Elective to meet 120 units		3
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>120</b>

<sup>1</sup> Specialized Electives (complete three courses from the following): CDV 342, CDV 344, CDV 370, CDV 372, CDV 423, CDV 440, CDV 442, CDV 444, or CDV 450.

**Early Childhood Special Education Credential Track: 4-Year Roadmap**

<b>First Year</b>		
<b>Fall</b>		<b>Hours</b>
GE Area A2 Written Communication		3
Lower Division GE Area C		3
HIS 101	History Of United States	3
CDV 150	Intro Child Development (satisfies GE Area D1)	3
GE Area E Lifelong Learning and Self-Development		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
MAT 131	Elementary Statistics and Probability (satisfies GE Area B4)	3
or MAT 132	or Statistics and Probability with Support	
or MAT 134	or Statistics & Probability - Supported	
or PSY 230	or Elementary Statistical Analysis in Psychology	
POL 101	American Institutions	3
CDV 220	Principles and Practices of Teaching Young Children	3
GE Area B1 Physical Sciences OR B2 Life Sciences		3

Lower Division GE Area D		3
	<b>Hours</b>	<b>15</b>
<b>Second Year</b>		
<b>Fall</b>		
CDV 240	Early Childhood Development and Curriculum	3
GE Area A1 Oral Communication		3
Additional GE in Area C1 or C2		3
Lower Division GE Area C		3
GE Area B1 Physical Sciences OR B2 Life Sciences		3
GE Area B3: Science Lab		1
	<b>Hours</b>	<b>16</b>
<b>Spring</b>		
CDV 260	Introduction to Observation and Assessment in ECE	3
CDV 325	Infancy and Early Childhood	3
GE Area A3 Logic/Critical Thinking		3
GE Area F Ethnic Studies		3
Free Elective to Meet 120 units		1
	<b>Hours</b>	<b>13</b>
<b>Third Year</b>		
<b>Fall</b>		
CDV 320	Mthd & Analysis in Child Study	4
CDV 330	Schoolage Years	3
CDV 360	Adolescence	3
Upper Division GE from Area B5, C3, or D3		3
Free Elective to meet 120 units		3
	<b>Hours</b>	<b>16</b>
<b>Spring</b>		
CDV 363	Development in Diverse Contexts	3
CDV 366	Parenting and Child Guidance	3
CDV 380	Stress, Risk, & Resilience	3
CDV 462	Atypical Development	3
Upper Division GE from Area B5, C3, or D3		3
	<b>Hours</b>	<b>15</b>
<b>Fourth Year</b>		
<b>Fall</b>		
CDV Specialized Elective <sup>1</sup>		3
CDV Specialized Elective <sup>1</sup>		3
CDV Specialized Elective <sup>1</sup>		3
LBS 410	Early Language and Literacy	3
SPE 480	Educating Exceptional Children and Youth	3
	<b>Hours</b>	<b>15</b>
<b>Spring</b>		
CDV 480	Practicum in Early Childhood Education	3
SPE 458	Positive Classroom Environments	3
SPE 462	Language, Literacy and Cognition	3
Upper Division GE from Area B5, C3, or D3		3
Free Elective to meet 120 units		3
	<b>Hours</b>	<b>15</b>
	<b>Total Hours</b>	<b>120</b>

<sup>1</sup> Specialized Electives (complete three courses from the following): CDV 342, CDV 344, CDV 370, CDV 372, CDV 423, CDV 440, CDV 442, CDV 444, or CDV 450.

## 2-Year Roadmap (transfer students)

### Child Development Permit Track: 2-Year Roadmap (transfer students)

<b>First Year</b>		
<b>Fall</b>		
CDV 320	Mthd & Analysis in Child Study	4
CDV 325	Infancy and Early Childhood	3
CDV 330	Schoolage Years	3

CDV 360	Adolescence	3
Free Elective to meet 120 units		2
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
CDV 363	Development in Diverse Contexts	3
CDV 366	Parenting and Child Guidance	3
CDV 380	Stress, Risk, & Resilience	3
CDV 462	Atypical Development	3
Upper Division GE from Area B5, C3, or D3		3
<b>Hours</b>		<b>15</b>
<b>Second Year</b>		
<b>Fall</b>		
CDV Specialized Elective <sup>1</sup>		3
CDV Specialized Elective <sup>1</sup>		3
Upper Division GE from Area B5, C3, or D3		3
LBS 410	Early Language and Literacy	3
Free Elective to meet 120 units		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
CDV 480	Practicum in Early Childhood Education	3
CDV Specialized Elective <sup>1</sup>		3
Upper Division GE from Area B5, C3, or D3		3
Free Elective to meet 120 units		3
Free Elective to meet 120 units		3
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>60</b>

<sup>1</sup> Specialized Electives (complete three courses from the following): CDV 342, CDV 344, CDV 370, CDV 372, CDV 423, CDV 440, CDV 442, CDV 444, or CDV 450.

## PK-3 Credential Track: 2-Year Roadmap (transfer students)

<b>First Year</b>		
<b>Fall</b>		
CDV 320	Mthd & Analysis in Child Study	4
CDV 325	Infancy and Early Childhood	3
CDV 330	Schoolage Years	3
CDV 360	Adolescence	3
Free Elective to meet 120 units		2
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
CDV 363	Development in Diverse Contexts	3
CDV 366	Parenting and Child Guidance	3
CDV 380	Stress, Risk, & Resilience	3
CDV 462	Atypical Development	3
Upper Division GE from Area B5, C3, or D3		3
<b>Hours</b>		<b>15</b>
<b>Second Year</b>		
<b>Fall</b>		
CDV Specialized Elective <sup>1</sup>		3
CDV Specialized Elective <sup>1</sup>		3
Upper Division GE from Area B5, C3, or D3		3
LBS 410	Early Language and Literacy	3
ECE 400	Developmentally Appropriate Practices in Early Childhood Education	3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
CDV 480	Practicum in Early Childhood Education	3
LBS 430	STEAM for Young Learners	3
CDV Specialized Elective <sup>1</sup>		3
Upper Division GE from Area B5, C3, or D3		3

Free Elective to meet 120 units	3
<b>Hours</b>	<b>15</b>
<b>Total Hours</b>	<b>60</b>

<sup>1</sup> Specialized Electives (complete three courses from the following): CDV 342, CDV 344, CDV 370, CDV 372, CDV 423, CDV 440, CDV 442, CDV 444, or CDV 450.

## Early Childhood Special Education Credential Track 2-Year Roadmap (transfer students)

### First Year

Fall		Hours
CDV 320	Mthd & Analysis in Child Study	4
CDV 325	Infancy and Early Childhood	3
CDV 330	Schoolage Years	3
CDV 360	Adolescence	3
Free Elective to meet 120 units		2
<b>Hours</b>		<b>15</b>
Spring		Hours
CDV 363	Development in Diverse Contexts	3
CDV 366	Parenting and Child Guidance	3
CDV 380	Stress, Risk, & Resilience	3
CDV 462	Atypical Development	3
Upper Division GE from Area B5, C3, or D3		3
<b>Hours</b>		<b>15</b>

### Second Year

Fall		Hours
SPE 480	Educating Exceptional Children and Youth	3
LBS 410	Early Language and Literacy	3
CDV Specialized Elective <sup>1</sup>		3
CDV Specialized Elective <sup>1</sup>		3
Upper Division GE from Area B5, C3, or D3		3
<b>Hours</b>		<b>15</b>
Spring		Hours
CDV 480	Practicum in Early Childhood Education	3
SPE 458	Positive Classroom Environments	3
SPE 462	Language, Literacy and Cognition	3
CDV Specialized Elective <sup>1</sup>		3
Upper Division GE from Area B5, C3, or D3		3
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>60</b>

<sup>1</sup> Specialized Electives (complete three courses from the following): CDV 342, CDV 344, CDV 370, CDV 372, CDV 423, CDV 440, CDV 442, CDV 444, or CDV 450.

## Counseling and Family Services Concentration

### 4- Year Roadmap

### 4- Year Roadmap

#### First Year

Fall		Hours
GE Area A2 Written Communication		3
Lower Division GE Area C		3
CDV 150	Intro Child Development (satisfies GE Area D1)	3
HIS 101	History Of United States	3
GE Area E Lifelong Learning and Self-Development		3
<b>Hours</b>		<b>15</b>
Spring		Hours
MAT 131 or MAT 132 or MAT 134 or PSY 230	Elementary Statistics and Probability (satisfies GE Area B4) or Statistics and Probability with Support or Statistics & Probability - Supported or Elementary Statistical Analysis in Psychology	3



POL 101	American Institutions	3
GE Area B1 Physical Sciences OR B2 Life Sciences		3
Lower Division GE Area C		3
Lower Division GE Area D		3
<b>Hours</b>		<b>15</b>
<b>Second Year</b>		
<b>Fall</b>		
GE Area A1 Oral Communication		3
GE Area B1 Physical Sciences OR B2 Life Sciences		3
GE Area B3: Science Lab		1
Additional GE in Area C1 or C2		3
Free Elective to meet 120 units		3
Free Elective to meet 120 units		3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
GE Area A3 Logic/Critical Thinking		3
GE Area F Ethnic Studies		3
CDV Foundational Core (CDV 325, CDV 330, or CDV 325)		3
CDV Foundational Core (CDV 325, CDV 330, or CDV 325)		3
Free Elective to meet 120 units		3
<b>Hours</b>		<b>15</b>
<b>Third Year</b>		
<b>Fall</b>		
CDV 320	Mthd & Analysis in Child Study	4
CDV Foundational Core (CDV 325, CDV 330, or CDV 325)		3
Upper Division GE from Area B5, C3, or D3		3
CFS Concentration Elective <sup>3</sup>		3
Free Elective to meet 120 units		1
<b>Hours</b>		<b>14</b>
<b>Spring</b>		
CDV 363	Development in Diverse Contexts	3
CDV 366	Parenting and Child Guidance	3
CDV 380	Stress, Risk, & Resilience	3
Upper Division GE from Area B5, C3, or D3		3
CFS Concentration Elective <sup>3</sup>		3
<b>Hours</b>		<b>15</b>
<b>Fourth Year</b>		
<b>Fall</b>		
CDV 442	Marriage, Family, and Community	3
CDV Specialized Elective <sup>1,2</sup>		3
CDV Specialized Elective <sup>1,2</sup>		3
Upper Division GE from Area B5, C3, or D3		3
Free Elective to meet 120 units		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
CDV Specialized Elective <sup>1,2</sup>		3
CDV Specialized Elective <sup>1,2</sup>		3
CFS Concentration Elective <sup>3</sup>		3
CFS Concentration Elective <sup>3</sup>		3
Free Elective to meet 120 units		3
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>120</b>

<sup>1</sup> Specialized Electives (complete four courses from the following): CDV 342, CDV 344, CDV 370, CDV 372, CDV 423, CDV 440, CDV 444, CDV 450, or CDV 462.

<sup>2</sup> Capstone Electives (may complete one of the following as Specialized Elective): CDV 480, CDV 490, CDV 492, CDV 496, or CDV 498.

<sup>3</sup> Counseling and Family Services Concentration Electives (complete four from the following): HUS 300, HUS 315, SOC 320, SOC 341 (or PSY 367), SOC 363, SOC 336, PSY 314, PSY 353, PSY 360, PSY 363, or PSY 464.

**2-Year Roadmap (transfer students)****2-Year Roadmap (transfer students)****First Year**

		<b>Hours</b>
<b>Fall</b>		
CDV 320	Mthd & Analysis in Child Study	4
CDV 325	Infancy and Early Childhood	3
CDV 330	Schoolage Years	3
CDV 360	Adolescence	3
Free Elective to meet 120 units		2
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
CDV 363	Development in Diverse Contexts	3
CDV 366	Parenting and Child Guidance	3
CDV 380	Stress, Risk, & Resilience	3
Upper Division GE from Area B5, C3, or D3 (		3
CFS Concentration Elective <sup>3</sup>		3
<b>Hours</b>		<b>15</b>
<b>Second Year</b>		
<b>Fall</b>		
CDV 442	Marriage, Family, and Community	3
CDV Specialized Elective <sup>1,2</sup>		3
CDV Specialized Elective <sup>1,2</sup>		3
Upper Division GE from Area B5, C3, or D3		3
CFS Concentration Elective <sup>3</sup>		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
CDV Specialized Elective <sup>1,2</sup>		3
CDV Specialized Elective <sup>1,2</sup>		3
CFS Concentration Elective <sup>3</sup>		3
CFS Concentration Elective <sup>3</sup>		3
Upper Division GE from Area B5, C3, or D3		3
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>60</b>

<sup>1</sup> Specialized Electives (complete four courses from the following): CDV 342, CDV 344, CDV 370, CDV 372, CDV 423, CDV 440, CDV 444, CDV 450, or CDV 462.

<sup>2</sup> Capstone Electives (may complete one of the following as Specialized Elective): CDV 480, CDV 490, CDV 492, CDV 496, or CDV 498.

<sup>3</sup> Counseling and Family Services Concentration Electives (complete four from the following): HUS 300, HUS 315, SOC 320, SOC 341 (or PSY 367), SOC 363, SOC 336, PSY 314, PSY 353, PSY 360, PSY 363, or PSY 464.

# Computer Science

College of Natural and Behavioral and Sciences

Department of Computer Science

## Program Description

The modern electronic digital computer has become the indispensable tool of government, commerce, and technology because of its enormous appetite for data and its near-instantaneous processing speed. Computer Science is the discipline of designing methods for solving problems by means of such computers. The subject involves a surprising amalgam of logic, mathematics, engineering, electronics, communications, and ergonomics.

The curriculum is designed to provide preparation for professional careers in the areas of software design and applied computer science, as well as to give the necessary theoretical background for graduate study in the field and to allow a flexible response to a dynamic and growing profession. The required courses give students a firm foundation in the basic areas of computer science and related areas of mathematics, and a wide choice of electives allows them to tailor their program to their specific interests.

The baccalaureate program (Bachelor of Science in Computer Science) is accredited by the Computing Accreditation Commission of ABET, <http://www.abet.org> (<http://www.abet.org/>). The programs accredited by ABET are accredited as separate and distinct from any other programs or kinds of accreditation.

## Features

The University's location in the South Bay area of greater Los Angeles provides direct access to many major government contractors, manufacturers, and international centers of commerce and finance. This provides excellent opportunities for work-study and early job placement.

Our highly qualified full-time faculty are supplemented by talented and dedicated part-time faculty drawn from local firms and schools. Good teaching and easy on-campus access to professional quality computing systems enhance a degree program with a solid core curriculum and a broad range of electives.

All courses are offered alternatively day and evening so that students may complete their programs by enrolling at either time exclusively.

## Graduation with Honors

An undergraduate student may be a candidate for graduation with Honors in Computer Science provided he or she meets the following criteria:

1. A minimum of 36 units in residence at CSU Dominguez Hills at least 24 of which taken in Computer Science major;
2. A minimum GPA of 3.5 in all upper-division courses in the Computer Science major completed in residence at CSUDH.

Students who achieve Honors in Computer Science will have the information recorded on their transcripts and diplomas.

## Academic Advisement

Faculty guidance in the development of career goals and program planning to achieve those goals is available to all majors.

## Preparation

Students entering the computer science program should have completed high school mathematics through trigonometry. Remediation is available but will delay the student's progress toward a Computer Science Degree.

This is a demanding program that places a premium on the student's initiative and effort.

## Student Organizations

Contact the departmental office for membership information, or visit the websites:

Association for Computing Machinery (ACM) ACM@csudh.edu  
 Institute of Electrical and Electronics Engineers (IEEE) IEEE@csudh.edu  
 Cyber Security CyberSec@csudh.edu  
 Computing Alliance of Hispanic-Serving Institutions (CAHSI)  
 CAHSI@csudh.edu

## Career Possibilities

Entry-level positions in the areas of systems analysis, systems programming, applications programming, data engineering, data communications, and software engineering provide typical career opportunities for computer science graduates. Such positions are available in a wide variety of software vendors, aerospace and defense-related industries, manufacturing, and commercial firms, and government and other public agencies. Many graduates have also gone on to graduate school. Job opportunities for computer science graduates continue to be excellent because of the continued long-term growth of the computer industry.

## Undergraduate Programs

### Bachelor

- Computer Science, Bachelor of Science (p. 297)

### Minor

- Computer Science, Minor (p. 301)

### Certificate

- Computer Science, Certificate (p. 300)

## Graduate Programs

### Master

- Computer Science, Master of Science (<https://catalog.csudh.edu/academics/computer-science/computer-science-ms/>)
- Cyber Security, Master of Science (<https://catalog.csudh.edu/academics/cyber-security/cyber-security-ms/>)

## Faculty

Mohsen Beheshti, Department Chair

Jianchao (Jack) Han, Marek Suchenek, Bin Tang, Amlan Chatterjee, Liudong Zuo, Allireza Izaddoost, Brad Hollister, Khondaker Salehin, Ali (Ashkan) Jalooli, Sanaz Rahimi Moosavi, Sahar Hooshmand, Marsa Rayani, Benjamin Ahmadian

## Emeriti Faculty

William B. Jones, Kazimierz Kowalski, Marek Suchenek

## Staff

Angelica Tan, Administrative Assistant

Ken Leyba, IT Consultant

## Location

Department Office: NSM A132,

Department Phone: (310) 243-3398

<https://www.csudh.edu/csc/>

## Courses

### **CSC 101. Intro.to Computer Education. (3 Units)**

A computer literacy course designed to familiarize the learner with a variety of computer tools and computer concepts with emphasis on utilizing packaged programs. This course provides an introduction to the use of computers, common software programs and peripherals. Students are instructed in the use of a word processor, drawing programs, spreadsheet, database, presentation tools, internet applications and statistical package in scientific applications.

Offered Fall, Spring

### **CSC 111. Introduction to Computers and Basic Programming. (3 Units)**

Introduction to computer programming with particular emphasis on small systems through programming in the BASIC language.

Offered Fall, Spring

### **CSC 112. Intro Computers And Basic. (20 Units)**

Offered All terms

### **CSC 115. Introduction to Programming Concepts. (3 Units)**

Introduces students to computer programming by teaching techniques of problem solving. Students will become acquainted with decision constructs, looping structures, and subroutine modules. Students will learn the vocabulary of object-oriented programming.

Offered Fall, Spring

### **CSC 116. Introduction to Computer Hardware and Tools. (3 Units)**

Introduction to microcomputer hardware and operating systems. Students will be required to use application software to research, generate and prepare a semester project.

Offered Fall, Spring

### **CSC 121. Introduction to Computer Science and Programming I. (4 Units)**

Prerequisite: CSC 115 or equivalent and MAT 153 or consent of instructor. Organization of sequential, digital machine: CPU, I/O, storage, communications devices. Functions of operating systems: translators, editors, peripheral control utilities. The course covers the development, description, and analysis of elementary algorithms. It includes three hours of lecture and two hours of activity per week.

Offered Fall, Spring

### **CSC 123. Introduction to Computer Science and Programming II. (4 Units)**

Prerequisites: CSC 121. Continuation of CSC 121. Fundamental programming concepts using arrays, records, pointers, linked list, trees and recursion. Good style, documentation and structure will be emphasized. Introduction to analysis of algorithms for efficiency and correctness.

Offered Fall, Spring, Summer

### **CSC 195. Selected Topics in Computer Science. (1-4 Units)**

Prerequisite: Consent of Instructor. Content varies. Topics in computer science not covered by current course offerings.

Offered As needed

### **CSC 221. Assembly Language and Introduction to Computer Organization. (3 Units)**

Prerequisite: CSC 121. Programming problems in assembly language. Writing and using macros. Features of modern computer hardware and operating systems.

Offered Fall, Spring

**CSC 251. C Language Programming and Unix. (3 Units)**

Prerequisite: CSC 121. Introduction to programming in the C language and its use in systems programming in the UNIX operating system.

Offered Fall, Spring

**CSC 255. Dynamic Web Programming. (3 Units)**

The goal of the course is to provide instruction to the design and implementation of dynamic web applications. Topics include origins of Internet, TCP/IP basics, Standard Generalized Markup Language SGML, XML and XSL languages, client-side and server-side languages: Perl and PHP, interactivity in website design, front-end interface to databases, website access control, confidentiality, integrity, accessibility and their applicability in developing dynamic and distributed client/server web applications.

Offered All terms, Fall, Spring

**CSC 281. Discrete Structures. (3 Units)**

This course introduces fundamental structures and logical principles that form the foundation of computer science. Topics will be introduced with emphasis on applications in computer science. Students will be required to write programs to deepen their understanding about the topics.Â

Offered Fall, Spring

**CSC 295. Sel. Topics in Computer Sci. (1-4 Units)**

Prerequisite: Consent of Instructor. Content varies. Topics in computer science not covered by current course offerings. May be used for elective credit in departmental programs. Subject to approval.

Offered As needed

**CSC 300. Software Development. (3 Units)**

Prerequisites: CSC 123 is required. This is an advanced Java programming course. Students are expected to have a much deeper understanding about major aspects of Java and OOP, and significantly enhance their programming and problem-solving ability. Several data structure and algorithms will be introduced.

Offered Fall, Spring

**CSC 301. Computers And Society. (3 Units)**

Prerequisites: CSC 101 or CSC 111 or CSC 115 or CSC 121 or CSC 272 or consent of instructor. Ethical, legal, psychological, economic, and theoretical implications and limitations of the uses of digital computers. Oral and written presentations required.

Offered Fall, Spring

**CSC 311. Data Structures. (3 Units)**

Prerequisites: CSC 123 and CSC 281 or MAT 281. More advanced and detailed treatment of concepts of data organization introduced in CSC 123. Includes lists, trees, graphs and storage allocation and collection. Applications to such areas as symbol tables, string search and optimization.

Offered Fall, Spring, Summer

**CSC 321. Programming Languages. (3 Units)**

Prerequisite: CSC 123. A comparative study of programming languages. Characteristics of languages and formal description of languages.

Assignments in several languages.

Offered Fall, Spring

**CSC 331. Computer Organization. (3 Units)**

Prerequisites: CSC 221 and MAT 281. Structure of the modern digital computer. Introduction to Boolean algebra and design of digital circuits. Arithmetic, control, storage and input/output systems.

Offered Fall, Spring, Summer

**CSC 337. Microcomputers. (3 Units)**

Prerequisite: CSC 221, CSC 331, and MAT 281. The architecture, programming and interfacing of microcomputers. Topics include input/output, instruction sets, subroutines, interrupts and control. In-class use of microcomputer hardware. Repeatable course. Two hours of lecture and three hours of laboratory per week.

Offered Infrequent

**CSC 341. Operating Systems. (3 Units)**

Prerequisites: CSC 311, CSC 331, and MAT 321. Overall structure of batch and time-shared operating systems. Scheduling of jobs, CPU and I/O devices. Paged and segmented memory management. I/O programming and file handling. Synchronization of concurrent processes.

Offered Fall, Spring

**CSC 353. File Processing. (3 Units)**

Prerequisite: CSC 123 and CSC 251 are required; CSC 311 is recommended. Characteristics of secondary storage media. Logical vs. physical organization. Sequential, direct, and indexed access methods. Tree structure of indices; hashing.

Offered Infrequent

**CSC 361. Systems Programming. (3 Units)**

Prerequisite: CSC 311, CSC 331, and CSC 341. Design and construction of systems programs such as assemblers, macro processors and linking loaders. Introduction to software engineering.

Offered As needed

**CSC 371. Finite Automata. (3 Units)**

Prerequisite(s): CSC 311 is required. Introduces the formal foundations of computer science, the limits of computation, and the limits of efficient computation. The goal is to provide computer science students with a broad understanding of various models of computation and their power.

Offered Fall, Spring, Summer

**CSC 395. Sel Topics in Computer Science. (1-4 Units)**

Prerequisite: Consent of Instructor and upper division standing in major. Content varies. Advanced topics in computer science not covered by current course offerings. May be used for elective credit in departmental programs. Subject to approval.

Offered As needed

**CSC 401. Analysis Of Algorithms. (3 Units)**

Prerequisite: CSC 311. Mathematical study of non-numeric computer algorithms. Topics include combinatorial techniques, algorithm proof, and program complexity.

Offered Fall, Spring

**CSC 411. Artificial Intelligence. (3 Units)**

Prerequisites: CSC 311 and CSC 321. Introduction to the use of computers to simulate intelligent behavior; includes game playing, problem solving, use of natural languages and pattern recognition.

Offered Fall

**CSC 421. Advanced Programming Languages. (3 Units)**

Prerequisites: CSC CORE. Continuation of CSC 321. Methods of formal specification of syntax and semantics of programming languages and special purpose language features for such areas as simulation and systems programming.

Offered Infrequent

**CSC 431. Advanced Computer Organization. (3 Units)**

Prerequisites: CSC 221, CSC 331, CSC 341, MAT 271, and MAT 281. Alternate computer architectures and features of large scale systems. Microprogramming, parallel processing, memory organization, input/output systems, interprocessor communications and multiprocessing.

Offered Infrequent

**CSC 441. Advanced Operating Systems. (3 Units)**

Prerequisite: CSC CORE. Theoretical study of important topics in operating system design. Substantial individual and group programming projects.

Offered Infrequent

**CSC 451. Computer Networks. (3 Units)**

Prerequisite: CSC 311 and MAT 281. An introduction to computer networks including both long haul and local area networks. Topics include network topology, network access methodology, transmission media, protocols and applications.

Offered Fall, Spring

**CSC 453. Data Management. (3 Units)**

Prerequisite: CSC 311. Fundamental concepts in design, analysis and implementation of computerized database systems. Database models, user and program interfaces and database control.

Offered Fall, Spring

**CSC 455. WWW Design and Management. (3 Units)**

Prerequisites: CSC 251, CSC 311 and CSC 321. An introduction to the design, implementation and management of World Wide Web over the Internet and Intranet networks. Topics include Internet overview, web authoring, web programming, server setting and maintenance.

Offered Infrequent

**CSC 459. Security Engineering. (3 Units)**

The goal of the course is to provide introduction to the design, implementation and management of systems that remain dependable in the face of malice, error or mischance. Topics include the tools, processes and methods needed to design, implement and test complete systems and to adapt existing systems as their environment evolves. Specifically, it includes cryptography, privacy, hardware tamper resistance, firewalls, intrusion detection and prevention and security policies.

Offered Fall, Spring

**CSC 461. Computer Graphics I. (3 Units)**

Prerequisite: CSC 311. Fundamental concepts of programming for computer graphics. Graphics devices, languages and algorithms. Substantial graphics programming projects.

Offered Spring

**CSC 463. Computer Graphics II. (3 Units)**

Prerequisite: CSC 461. Advanced topics in computer graphics. Interactive graphics, animation, color and three dimensional modeling.

Offered Infrequent

**CSC 471. Compiler Construction I. (3 Units)**

Prerequisites: CSC 221, CSC 311 and MAT 361. Introduction to the theory and practice of compiler construction. Overall structure of compilers. Lexical and syntactic analysis, code generation for block structured languages and code optimization.

Offered Infrequent

**CSC 481. Software Engineering. (3 Units)**

Prerequisites: CSC 301, CSC 311 and CSC 321. Introduction to software engineering, with emphasis on software design and specification. Oral and written presentations required.

Offered Fall, Spring

**CSC 490. Senior Seminar. (3 Units)**

Prerequisite: CSC 301, CSC 311 and CSC 321. Intense, structured seminar. Exposure to current areas of research in Computer Science. Students will attend department colloquia; conduct research; present individual and group projects; and, prepare a written proposal for a senior project.

Offered Infrequent

**CSC 492. Senior Design. (3 Units)**

Prerequisites: CSC 301, CSC 321 and CSC 481. Intensive study under the guidance of a member of the Computer Science faculty which continues and expands the research carried out in Senior Seminar. Students will study system design and total project planning and management. A formal written report and oral presentation are required.

Offered Fall, Spring, Summer

**CSC 495. Selected Topics. (3 Units)**

Prerequisite: CSC 311 is required. Content varies. Advanced topics in computer science not covered by current course offerings. May be used for elective credit in departmental programs. Subject to approval.

Offered Fall, Spring

**CSC 497. Directed Study In Computer Science. (1-3 Units)**

Prerequisite: CSC CORE or consent of instructor. A project in computer science carried out on an independent study basis. Repeatable course.

Offered Infrequent

**CSC 498. Directed Research. (1-3 Units)**

Offered Infrequent

**CSC 500. Research Methods. (3 Units)**

Prerequisite: Graduate standing and consent of instructor. Series of lectures given by faculty and visiting computer scientists.

Offered Summer

**CSC 501. Design and Analysis of Algorithms. (3 Units)**

Prerequisite: CSC 401. Methods for the design of efficient algorithms: divide and conquer, greedy method, dynamic programming, backtracking, branch and bound, problem in string matching, polynomials and matrices, graph theory, NP-problems.

Offered Fall, Spring, Summer

**CSC 511. Artificial Intelligence and Expert Systems. (3 Units)**

Prerequisite: CSC 411. Introduction to in-depth engineering approach to the field of artificial neural networks. Topics include different types of network architectures and applications, and their properties and behavior.

Offered Fall

**CSC 521. Fundamentals and Concepts of Programming Languages. (3 Units)**

Prerequisite: CSC 321. Study of the principles that form the basis of programming language design. Research topics in high-level languages including : data abstraction, parameterization, scoping, generics, exception handling, parallelism and concurrency; alternative language designs; imperative, functional, descriptive, object-oriented and data flow; overview of interface with support environments.

Offered Spring

**CSC 531. Advanced Computer Architecture. (3 Units)**

Prerequisite: CSC 331. Covering new technological developments, including details of multiprocessor systems and specialized machines. The main focus is on the quantitative analysis and cost-performance tradeoffs in instruction-set, pipeline, and memory design. Description of real systems and performance data are also presented. Topics covered: quantitative performance measures, instruction set design, pipeline, vector processing, memory organization, input/output, and an introduction to parallel processing.

Offered Fall even

**CSC 541. Advanced Operating Systems. (3 Units)**

Prerequisite: CSC 341. Theoretical and practical aspects of operating systems: overview of system software, time-sharing and multiprogramming operating systems, network operating systems and the Internet, virtual memory management, inter-process communication and synchronization, file organization, and case studies. Giving advanced topics and examples, and simulation techniques used in performance evaluation.

Offered Fall

**CSC 546. Human Computer Interaction and Interface Design. (3 Units)**

Prerequisite: CSC 481. Research-oriented course; in-depth analyses of selected current topics with emphasis on problems related to computer systems, artificial intelligence, and human computer information interaction and interface design.

Offered Spring

**CSC 551. Data Communications and Computer Networks. (3 Units)**

Prerequisite: CSC 451. Topics related to the development of client-server based application, including two-tiers and multi-tiers Client-Server concepts and programming. Concurrency issues in the design of client and server programs. Trade-off of different architectures and usage of remote procedure calls. Broadcasting and multicasting.

Offered Fall odd

**CSC 552. Distributed Computing and Parallel Processing. (3 Units)**

Prerequisites: CSC 451, CSC 401. Comprehensive introduction to the field of parallel and distributed computing systems: Algorithms, architectures, networks, systems, theory and applications. The distributed parallel computation models, design and analysis of parallel algorithms will be discussed.

Offered Infrequent

**CSC 553. Advanced Database Management Systems. (3 Units)**

Prerequisite: CSC 453. Provides an in-depth treatment of one or more advanced topics in the management of information systems. The field of information systems consists of three major components: information systems technology, information systems development and information systems management. Deals with the latter area. Because of the many advances in information technology and the corresponding development techniques, new business opportunities are constantly emerging and with them the need to manage these applications effectively. Explores these new application areas and the management approaches needed to make them successful.

Offered Spring odd

**CSC 555. Information Assurance and Network Security. (3 Units)**

Prerequisites: CSC 451, CSC 401 and/or consent of instructor. Topics related to communications and IT infrastructures, their vulnerabilities as well as the size and complexity of security threats faced by enterprises, development of security practices, policies, awareness and compliance programs, and legal and regulatory issues will be examined. Fundamental encryption algorithms and systems supported in today's IT and secure communications networks Virtual Private Networks, Tunneling, Secure Socket Layer, SSH, and PGP will also be examined.

Offered Spring even

**CSC 561. Advanced Computer Graphics. (3 Units)**

Prerequisite: CSC 461. Solid modeling Euler operators, finite element methods. Rendering: filling, shading, ray tracing. Natural modeling: L-systems, fractals. Image processing: filtering anti-aliasing, enhancement. Color: physics, graphics, physiology.

Offered Spring

**CSC 564. Numerical Analysis. (3 Units)**

Prerequisite: MAT 361. Topics include numerical solution of partial differential equations by finite difference and finite element algorithms. Focus on direct and iterative methods for solving large, sparse linear systems and related eigenvalue and vector problems. Emphasis is placed on robust mathematical software and its interaction with computer hardware and languages.

Offered Infrequent

**CSC 565. Theory of Computation. (3 Units)**

Prerequisites: CSC 401 and MAT 361. Models of computation, complexity theory, intractable problems, complete problems, recursive function theory, incompleteness, formal theory of program semantics and correctness, logics of programs.

Offered Infrequent

**CSC 581. Advanced Software Engineering. (3 Units)**

Prerequisite: CSC 481. This course focuses on defining software requirements and provides an overview of advanced analysis and design techniques that can be used to structure applications. Topics of software requirements include interacting with end-users to determine needs and expectations, identifying functional requirements and identifying performance requirements. Analysis techniques include prototyping, modeling and simulation. Design topics include design in the system lifecycle, hardware vs. software trade-offs, subsystem definition and design, abstraction, information hiding, modularity and reuse.

Offered Spring

**CSC 582. Object-Oriented Analysis and Design. (3 Units)**

Prerequisite: CSC 481. Object-oriented analysis and design is essential in developing high-quality object-oriented systems. Topics will include object-oriented classes, attributes, methods and relations to other classes, objects, classifications and inheritance, encapsulation, polymorphism, object-oriented analysis, design and programming.

Offered Fall

**CSC 583. Software Engineering Processes. (3 Units)**

Prerequisite: CSC 581. The course focuses on the engineering of complex systems that have a strong software component. Topics include deriving and allocating requirements, system and software architectures, system analysis and design, integration, interface management, configuration management, quality, verification and validation, reliability, and risk.

Offered Fall

**CSC 584. Software Project. (3 Units)**

Prerequisite: CSC 581. The main topics of this course address the successful management of a software development project. This includes planning, scheduling, tracking, cost and size estimating, risk management, quality engineering, and process improvement. The course is centered on the concept of a software engineering process and includes discussion of life cycle models for software development.

Offered Spring



**CSC 585. Advanced Software Quality Assurance. (3 Units)**

Prerequisite: CSC 581. The relationship of software testing to quality is examined with an emphasis on testing techniques and the role of testing in the validation of system requirements. Topics include module and unit testing, integration, code inspection, peer reviews, verification and validation, statistical testing methods, preventing and detecting errors, selecting and implementing project metrics and defining test plans and strategies that map to system requirements. Testing principles, formal models of testing, performance monitoring and measurement also are examined.  
Offered Fall odd

**CSC 590. Master's Project. (3 Units)**

Prerequisite: Graduate standing and consent of the graduate adviser. Offered on the letter-grade basis only. The equivalent of three lecture hours a week.  
Offered Fall, Spring

**CSC 594. Independent Study. (3 Units)**

Prerequisites: Graduate standing and consent of instructor. Individual studies in advanced computer science and technology.  
Offered Infrequent

**CSC 595. Special Topics in Computer Science. (3 Units)**

Prerequisite: Graduate standing and consent of instructor. Exposes students to new and emerging concepts and technologies  
Offered Infrequent

**CSC 597. Directed Reading. (3 Units)**

Offered As needed

**CSC 599. Master's Thesis. (3 Units)**

Prerequisite: Graduate standing and consent of the graduate adviser. Computer research writing of thesis for a master's degree. CR/NC grading.  
Offered Fall, Spring

**CSC 600. Graduate Continuation Course. (1 Units)**

Prerequisite: Signature of graduate program coordinator required. Graduate students, who have completed their course work but not their thesis, project, or comprehensive examination, or who have other requirements remaining for the completion for their degree, may attain continuous enrollment by enrolling in this course.  
Offered Fall, Spring

## Computer Science, Bachelor of Science

### Requirements

#### Total Course Requirements for the Bachelor's Degree

See the "Requirements for the Bachelor's Degree (<https://catalog.csudh.edu/general-information/baccalaureate-degrees-undergraduate-studies/>)" in the University Catalog for complete details on general degree requirements. A minimum of 40 units, including those required for the major, must be upper division.

#### Elective Requirements

Completion of elective courses (beyond the requirements listed below) to reach a total of a minimum of 120 units.

#### General Education Requirements (49 units)

See the "General Education (p. 59)" requirements in the University Catalog or the Class Schedule for the most current information on General Education requirements and course offerings.

#### Graduation Writing Assessment Requirement

See the "Graduation Writing Assessment Requirement (<https://catalog.csudh.edu/general-information/baccalaureate-degrees-undergraduate-studies/gwar-certifying-courses/>)" in the University Catalog.

#### Minor Requirements

Single field major, no minor required.

#### Major Requirements (75 units)

Students entering the Computer Science program must complete the following.

1. Earn an overall grade point average of 2.0 or better in courses taken outside of the department.
2. Earn a grade of "C" or better in each course taken within the department.
3. Earn a grade of "C" or better in all direct and indirect prerequisite courses listed in the catalog before advancing to the next level course in a sequence for English, Mathematics, and Science courses.
4. Students must take capstone course CSC 492 Senior Design at CSUDH.

The following courses, or their approved transfer equivalents, are required of all candidates for this degree.

Code	Title	Hours
<b>Lower Division Requirements (37 units)</b>		
CSC 121	Introduction to Computer Science and Programming I <sup>1</sup>	4
CSC 123	Introduction to Computer Science and Programming II	4
CSC 221	Assembly Language and Introduction to Computer Organization	3
CSC 281	Discrete Structures	3
or MAT 281	Discrete Mathematics	
CSC 2xx Lower Division Computer Science Elective (3)		3
MAT 191	Calculus I	5
MAT 193	Calculus II	5
PHY 130	General Physics I	5
PHY 132	General Physics II	5
<b>Upper Division Requirements (38 units) <sup>2</sup></b>		
Core Requirements (15 units)		
CSC 300	Software Development	3
CSC 311	Data Structures	3
CSC 321	Programming Languages	3
CSC 331	Computer Organization	3
CSC 341	Operating Systems	3
Required Courses(18 units)		
CSC 301	Computers and Society	3
CSC 371	Finite Automata	3
CSC 401	Analysis of Algorithms	3
CSC 481	Software Engineering	3
CSC 492	Senior Design	3
MAT 321	Probability and Statistics	3
<b>Electives (5 units)</b>		
Select two courses from the following:		6
CSC 395	Sel Topics in Computer Science	
CSC 411	Artificial Intelligence	
CSC 421	Advanced Programming Languages	
CSC 431	Advanced Computer Organization	
CSC 441	Advanced Operating Systems	
CSC 451	Computer Networks	
CSC 453	Data Management	
CSC 455	WWW Design and Management	
CSC 459	Security Engineering	
CSC 461	Computer Graphics I	
CSC 463	Computer Graphics II	
CSC 471	Compiler Construction I	
CSC 490	Senior Seminar	
CSC 495	Selected Topics:	
MAT 367	Numerical Analysis I	
MAT 369	Numerical Analysis II	
<b>Total Hours</b>		<b>76</b>

<sup>1</sup> Major students may substitute this course for General Education Area A3. Please contact the CNBS Student Success Center to request the course substitution.

<sup>2</sup> A minimum of 18 upper division units in the major must be taken in residence at CSU Dominguez Hills.

## Program Learning Outcome

- Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
- Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
- Communicate effectively in a variety of professional contexts.
- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
- Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
- Apply computer science theory and software development fundamentals to produce computing-based solutions.

## 4- Year Roadmap

### First Year

Fall		Hours
CSC 121	Introduction to Computer Science and Programming I (satisfies GE Area A3)	4
HIS 101	History Of United States	3
GE Area A1 Oral Communication		3
GE Area A2 Written Communication		3
GE Area C1 Arts Courses		3
<b>Hours</b>		<b>16</b>

Spring		Hours
MAT 191	Calculus I (satisfies GE Area B4)	5
CSC 123	Introduction to Computer Science and Programming II	4
PHY 130	General Physics I (satisfy GE Areas B1 and B3)	5
GE Area C2 Letters Course		3
<b>Hours</b>		<b>17</b>

### Second Year

Fall		Hours
MAT 193	Calculus II	5
POL 101	American Institutions	3
PHY 132	General Physics II	5
<b>Hours</b>		<b>13</b>

Spring		Hours
CSC 281	Discrete Structures	3
CSC 251	C Language Programming and Unix (satisfies CSC lower division elective)	3
CSC 300	Software Development	3
CSC 221	Assembly Language and Introduction to Computer Organization	3
GE Area B2 Life Science		3
<b>Hours</b>		<b>15</b>

### Third Year

Fall		Hours
CSC 301	Computers and Society (satisfies GE Area B5)	3
MAT 321	Probability and Statistics	3
CSC 311	Data Structures	3
CSC 331	Computer Organization	3
GE Area D1 Perspectives on Individuals, Groups, and Society		3
<b>Hours</b>		<b>15</b>

Spring		Hours
CSC 401	Analysis of Algorithms	3
CSC 321	Programming Languages	3
Upper Division CSC Elective 1		3
Additional GE in Area C1 or C2		3
GE Area E Lifelong Learning and Self-Development		3
<b>Hours</b>		<b>15</b>

### Fourth Year

Fall		Hours
CSC 481	Software Engineering	3
CSC 341	Operating Systems	3
CSC 371	Finite Automata	3
ENG 350	Advanced Composition (satisfies GVAR requirement)	3
GE Area C3 Integrative Studies in the Humanities		3

GE Area D2 Global and Historical Perspectives		3
	<b>Hours</b>	<b>18</b>
<b>Spring</b>		
CSC 492	Senior Design	3
Upper Division CSC Elective 2		2
ITC 300	Security in a Digital Society (Meets GE Area D3)	3
GE Area F Ethnic Studies		3
	<b>Hours</b>	<b>11</b>
	<b>Total Hours</b>	<b>120</b>

## 2-Year Roadmap (transfer students)

### First Year

		Hours
<b>Fall</b>		
CSC 300	Software Development	3
CSC 301	Computers and Society (satisfies GE Area B5)	3
MAT 321	Probability and Statistics	3
CSC 311	Data Structures	3
CSC 331	Computer Organization	3
	<b>Hours</b>	<b>15</b>
<b>Spring</b>		
CSC 401	Analysis of Algorithms	3
CSC 321	Programming Languages	3
ENG 350	Advanced Composition (satisfies GVAR requirement)	3
Upper Division CSC Elective 1		3
GE Area C3 Integrative Studies in the Humanities		3
	<b>Hours</b>	<b>15</b>

### Second Year

<b>Fall</b>		
CSC 481	Software Engineering	3
CSC 341	Operating Systems	3
CSC 371	Finite Automata	3
GE Area D3 Integrative Studies in the Social Sciences		3
Elective to meet 120 units		3
	<b>Hours</b>	<b>15</b>
<b>Spring</b>		
CSC 492	Senior Design	3
Upper Division CSC Elective 2		3
Elective to meet 120 units		3
Elective to meet 120 units		3
Elective to meet 120 units		3
	<b>Hours</b>	<b>15</b>
	<b>Total Hours</b>	<b>60</b>

# Computer Science, Certificate Requirements

Code	Title	Hours
<b>Upper Division Requirements</b>		
CSC 311	Data Structures	3
CSC 321	Programming Languages	3
CSC 331	Computer Organization	3
<b>Electives</b>		
Select three courses from the following:		9
CSC 337	Microcomputers	
CSC 341	Operating Systems	
CSC 353	File Processing	
CSC 361	Systems Programming	
CSC 395	Sel Topics in Computer Science	

CSC 401	Analysis of Algorithms
CSC 411	Artificial Intelligence
CSC 421	Advanced Programming Languages
CSC 431	Advanced Computer Organization
CSC 441	Advanced Operating Systems
CSC 451	Computer Networks
CSC 453	Data Management
CSC 455	WWW Design and Management
CSC 459	Security Engineering
CSC 461	Computer Graphics I
CSC 463	Computer Graphics II
CSC 471	Compiler Construction I
CSC 490	Senior Seminar
CSC 492	Senior Design
CSC 495	Selected Topics:
MAT 361	Finite Automata
MAT 367	Numerical Analysis I
MAT 369	Numerical Analysis II

**Total Hours****18****Notes:**

1. Adequate preparation in terms of the completion of all lower division courses which are prerequisites of courses for this certificate is necessary.
2. At least four of the six upper division courses must be taken at CSU Dominguez Hills.
3. None of the upper division courses may be taken as credit/no credit.
4. A minimum grade point average of 2.0 is required for all units taken for the certificate.

1.

## Computer Science, Minor

Requirements (36 units)

Code	Title	Hours
<b>Lower Division Required Courses (24 units)</b>		
CSC 121	Introduction to Computer Science and Programming I	4
CSC 123	Introduction to Computer Science and Programming II	4
CSC 221	Assembly Language and Introduction to Computer Organization	3
CSC 281	Discrete Structures	3
or MAT 281	Discrete Mathematics	
MAT 191	Calculus I	5
MAT 193	Calculus II	5
<b>Upper Division Required Courses (12 units)</b>		
CSC 300	Software Development	3
CSC 311	Data Structures	3
<b>Elective (6 units)</b>		
Select two courses from the following, one of which must have a CSC prefix:		6
CSC 321	Programming Languages	
CSC 331	Computer Organization	
CSC 341	Operating Systems	
CSC 371	Finite Automata	
CSC 395	Sel Topics in Computer Science	
CSC 401	Analysis of Algorithms	
CSC 411	Artificial Intelligence	
CSC 421	Advanced Programming Languages	

CSC 431	Advanced Computer Organization
CSC 441	Advanced Operating Systems
CSC 451	Computer Networks
CSC 453	Data Management
CSC 455	WWW Design and Management
CSC 459	Security Engineering
CSC 461	Computer Graphics I
CSC 463	Computer Graphics II
CSC 471	Compiler Construction I
CSC 490	Senior Seminar
CSC 492	Senior Design
CSC 495	Selected Topics:
MAT 367	Numerical Analysis I
MAT 369	Numerical Analysis II
CIS 372	Systems Analysis and Design
CIS 373	Database Systems
CIS 375	Data Communications

Total Hours

36

## Counseling

College of Education

School and College Counseling Department

### Program Description

The Master of Science in Counseling program prepares students for careers in educational counseling settings and is designed to provide a broad conceptual knowledge base and the development of specialized counseling skills applicable to a diversity of student populations and counseling needs. Students choose to concentrate in School or College specializations and are able to concurrently pursue the PPS credential, which is required to work as a School Counselor in the pK-12 public school system. Through a framework of cultural humility and a commitment to justice in education, the program stresses the importance of self-awareness, reflective examination, and interpersonal and professional growth in order to provide a comprehensive preparation in K-16 educational counseling.

The PPS Credential program in School Counseling prepares candidates with the knowledge, skills, and professional dispositions to maximize the developmental potential of culturally diverse student populations in public elementary, middle, and high schools. The program is accredited by the California Commission on Teacher Credentialing to offer both the PPS credential and the Child Welfare and Attendance (CWA) authorization. The optional CWA specialization authorizes specialized counseling services specifically related to student attendance and truancy prevention and remediation.

### Pre-Admission Disclosure Programs Leading to Licensure or Credentialing

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or taxpayer-identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements is available from the program coordinator.

### Admission Requirements

#### Admission Procedures and Requirements for MS Degree and PPS Credential

All applicants to the program must apply for the Master's degree. In addition to the MS degree, applicants may also select admission to the PPS credential. Applicants to the School Counseling option may also select admission to the College Counseling Certificate.

Admission to the program does not automatically guarantee completion of the degree, fieldwork, credential, or certificate if there are any dispositional, interpersonal, intrapersonal, or psychological difficulties demonstrated that might inhibit the effectiveness of the candidate's role as a counselor.

1. Application to the University and the Counseling Program via Cal State Apply by the February 1 deadline
2. Submission of one official electronic set of transcripts for all undergraduate and any post-graduate work to the CSUDH Admissions Office at: admissions@csudh.edu.
3. The following items are required to be uploaded within the Cal State Apply application:
  - a. Unofficial set of transcripts showing BA degree (from a regionally accredited college or university) and any post-baccalaureate or graduate work.
  - b. A minimum grade point average of 3.0 or better in all undergraduate and if applicable, graduate coursework (or a minimum combined score of 300 on the Graduate Record Examination (GRE) (Revised) Verbal and Quantitative Tests).
  - c. Three professional recommendations from individuals who can evaluate the applicant's potential as a counselor.
  - d. Statement of Purpose (4-5 page minimum).
  - e. Small group interview (if selected).
  - f. A valid Certificate of Clearance or teaching credential.
  - g. A valid TB clearance

## Additional Degree and Credential Requirements

1. The Master of Science degree in Counseling, PPS credential, and College Counseling Certificate require completion of all courses with a "B" or higher.
2. Students must maintain continuous enrollment in the university by enrolling in a programming course or GED 600 every semester.
3. The Culminating Experience/Capstone Requirement includes an action research project, or completion of a thesis. Students choosing to complete the thesis must seek advisement from the program chair prior to beginning a thesis project.
4. Students must complete all of the requirements for the degree and credential within seven years.
5. Candidates must adhere to all ethical and professional standards required of the university, professional counseling organizations, and accrediting affiliations associated with the degree or credential. Candidates must, at all times, demonstrate high-quality interpersonal skills with faculty, staff, fellow students, and others in their field experiences. If candidates fail to meet this requirement, they are subject to disqualification from the program.
6. Students who have earned their baccalaureate degree outside the U.S. or from a non-English speaking university in the U.S. will need to consult with the CSUDH Testing Office to determine equivalency for the Graduate Writing Assessment Requirement (GWAR).
7. In addition to the major requirements, students must meet all university requirements for the Master's degree indicated in the section of the catalog entitled "Graduate Degrees and Postbaccalaureate Studies."

## Additional Requirements for the PPS Credential in School Counseling

1. Completion of degree requirements and required courses for the MS Counseling, School Counseling option with a "B" or higher.

## Additional Requirements for the Child Welfare and Attendance Authorization

1. Completion of degree requirements and required courses for the MS Counseling, School Counseling option with a "B" or higher.
2. Completion of the PPS credential.

## Conditionally Classified and Classified Standing

Students who satisfy the above requirements of program admission will be admitted as Conditionally Classified. Upon successful completion of PPS 525 Group Dynamics for Personal Growth, students will qualify for Classified Status in the program. Candidates who fail to demonstrate appropriate professional dispositions at any time are subject to disqualification from the program. Should the candidate wish to continue in the program, the program faculty will require the fulfillment of a remediation plan before the candidate can reapply to the program. Re-admittance to the program is not guaranteed.

## Graduate Programs

### Masters

- Counseling, Master of Science (p. 304)

### Certificates

- College Counseling, Certificate (<https://catalog.csudh.edu/academics/counseling/college-counseling-certificate/>)

## Credentials

- Child Welfare and Attendance Authorization (<https://catalog.csudh.edu/academics/counseling/child-welfare-attendance-authorization/>)
- School Counseling, Pupil Personnel Credential (<https://catalog.csudh.edu/academics/counseling/school-counseling-pupil-personnel-credential/>)

## Faculty

Adrieen Mancillas, Department Chair  
 Jeremy Hart, Margarita Landeros, Anna Baird  
 Department Office: COE 1446, (310) 243-3524

## Emeriti Faculty

Rita Lee, Sean R. Morgan, A. Terry Richardson

# Counseling, Master of Science

CIM Program Requirements

### Admission Requirements

Admission Procedures and Requirements for MS Degree and PPS Credential

All applicants to the program must apply for the Master's degree. If applicants already hold a Master's or Doctoral degree in Counseling, Psychology, Social Work, or Education and do not wish to pursue a second Master's, the degree objective can be modified to PPS only after admission. In addition to the MS degree, applicants may also select admission to the PPS credential and/or College Counseling Certificate.

Admission to the program does not automatically guarantee completion of the degree, fieldwork, credential, or certificate if there are any dispositional, interpersonal, intrapersonal, or psychological difficulties demonstrated that might inhibit the effectiveness of the candidate's role as a counselor.

1. Application to the University and the Counseling Program via Cal State Apply by the February 1 deadline
2. Submission of one official electronic set of transcripts for all undergraduate and any post-graduate work to the CSUDH Admissions Office at: [admissions@csudh.edu](mailto:admissions@csudh.edu).
3. The following items are required to be uploaded within the Cal State Apply application:
  - a. Unofficial set of transcripts showing BA degree from a regionally accredited college or university and any post-baccalaureate or graduate work. BA degree must post by the spring term prior to admission.
  - b. A minimum grade point average of 3.0 or better in all undergraduate and if applicable, graduate coursework (or a minimum combined score of 300 on the Graduate Record Examination (GRE) (Revised) Verbal and Quantitative Tests.
  - c. Three professional recommendations from individuals who can evaluate the applicant's potential as a counselor.
  - d. Statement of Purpose (4-5 page minimum).
  - e. Small group interview (if selected).
  - f. A valid Certificate of Clearance or teaching credential.
  - g. A valid TB clearance
  - h. For School Counseling applicants: verification of meeting the CA Basic Skills Requirement (BSR) will need to be furnished if admitted to the program.

### Additional Degree and Credential Requirements

1. The Master of Science degree in Counseling, PPS credential, and College Counseling Certificate require completion of all courses with a "B" or higher.
2. Students must maintain continuous enrollment in the university by enrolling in a programming course or GED 600 every semester.
3. The Culminating Experience/Capstone Requirement includes an action research project or the completion of a thesis. Students choosing to complete the thesis must seek advisement from the program chair prior to beginning a thesis project.
4. Students must complete all of the requirements for the degree and credential within seven years.
5. Candidates must adhere to all ethical and professional standards required of the university, professional counseling organizations, and accrediting affiliations associated with the degree or credential. Candidates must, at all times, demonstrate high-quality interpersonal skills with faculty, staff, fellow students, and others in their field experiences. If candidates fail to meet this requirement, they are subject to disqualification from the program.
6. Students who have earned their baccalaureate degree outside the U.S. or from a non-English speaking university in the U.S. will need to consult with the CSUDH Testing Office to determine equivalency for the Graduate Writing Assessment Requirement (GWAR). If the GWAR has not been met, then it must be satisfied in the first semester of studies.



7. In addition to the major requirements, students must meet all university requirements for the Master’s degree indicated in the section of the catalog entitled “Graduate Degrees and Postbaccalaureate Studies.”

**ADDITIONAL REQUIREMENTS FOR THE PPS CREDENTIAL IN SCHOOL COUNSELING**

1. Completion of degree requirements and required courses for the MS Counseling, School Counseling option with a “B” or higher.
2. Completion of the California Basic Skills Requirement.

**ADDITIONAL REQUIREMENTS FOR THE CHILD WELFARE AND ATTENDANCE AUTHORIZATION**

1. Completion of degree requirements and required courses for the MS Counseling, School Counseling option with a “B” or higher.
2. Completion of the PPS credential.
3. Additional 6 units of the following CWA coursework: PPS 557 and PPS 558.

**Requirements**

Master of Science in Counseling Core Requirements:

- GED 500 Research Methods in Education 3
- PPS 501 Leadership in School and College Counseling 3
- PPS 505 Human Diversity 3
- PPS 508 Law and Ethics in Educational Counseling 3
- PPS 515 Counseling Theories 3
- PPS 520 Program Development and Evaluation in Counseling 3
- PPS 525 Group Dynam Personal Growth 3
- PPS 530 Seminar: Techniques of Individual Counseling 3
- PPS 535 Seminar: Career and Academic Counseling 3
- PPS 540 Seminar: Technique of Group Counseling 3
- PPS 550 Crisis Intervention in Educational Settings 3

Plus one of the following Options:

School Counseling Option: Total Hours 51-54

College Counseling Option: Total Hours 48-51

**School Counseling Option**

Code	Title	Hours
<b>Required Specialized Courses</b>		
PPS 512	Consultation and Collaboration in Counseling	3
PPS 545	Comprehensive School Counseling	3
PPS 554	School Counseling Practicum	3
PPS 575	Fieldwork in School Counseling	6
<b>Capstone</b>		
PPS 560 or GED 599	MS Counseling Capstone Requirement Thesis	3-6
<b>Total Hours</b>		<b>18-21</b>

**College Counseling Option**

Code	Title	Hours
<b>Required Specialized Courses</b>		
PPS 536	Foundations of College Counseling	3
PPS 537	College Counseling Practicum	3
PPS 538	Fieldwork in College Counseling	3
<b>Electives</b>		
Select one of the following:		3
PPS 512	Consultation and Collaboration in Counseling	
PPS 545	Comprehensive School Counseling	
PPS 554	School Counseling Practicum	
<b>Capstone</b>		

**Total Hours****15-18**

- **Knowledge Base:** Students will demonstrate a broad knowledge base in Counseling, including a complex understanding of the challenges most typical to students in schools and colleges and how to intervene to improve student success.
- **Independent Performance:** Students will independently demonstrate the role of a school or college counselor in regards to improving student success.
- **Advanced Writing:** Students will demonstrate advanced writing skills reflective of styles predominant in the Counseling discipline at a graduate level.
- **Professional Conduct:** Students will demonstrate a critical understanding of ethical and professional behavior, including the importance of reflective practice and the process to counselor growth and skill.
- **Development of Profession:** Students will demonstrate professional counselor leadership that reflects a commitment to social justice and equity.

## Information Technology

College of Natural and Behavioral and Sciences  
Department of Computer Science

### Program Description

Information Technology forms the technological infrastructure of modern commerce. It's the driving force of every industry and permeates everyday life. The ability to combine the power of computing with the management of multimedia information is arguable the key to obtaining ascendancy in any field.

Information Technology is an ever-evolving, expanding field. The Information Technology Program will provide students with the background, knowledge, and skills they will need to adapt to the dynamic nature of the marketplace.

The BSIT degree provides a high-quality science degree program in information technology that will prepare the student for lifelong learning as they pursue professional careers in informational technology and leadership roles in the society in which they serve. It provides our students with a strong foundational base, state-of-the-art techniques, methodologies, and tools to specify, design, and develop technology-based solutions to complex system problems. This program prepares our students to communicate well, both orally and in writing, on moral and ethical development, in the knowledge of the liberal arts, and on the commitment to services to others. IT provides opportunities for students to contribute to the body of knowledge that serves the profession, by engaging in activities that support their interests and are in agreement with the goals and objectives of the College, and the university.

### Features

The University's location in the South Bay area of greater Los Angeles provides direct access to many major government contractors, manufacturers, and international centers of commerce and finance. This provides excellent opportunities for work-study and early job placement.

Our highly qualified full-time faculty are supplemented by talented and dedicated part-time faculty drawn from local firms and schools. Good teaching and easy on-campus access to professional quality computing systems enhance a degree program that provides both a solid core curriculum and a broad range of electives.

All courses are offered alternatively day and evening so that students may complete their programs by enrolling at either time exclusively.

### Graduation with Honors

An undergraduate student may be a candidate for graduation with Honors in Information Technology provided he or she meets the following criteria:

1. A minimum of 36 units in residence at CSU Dominguez Hills at least 24 of which taken in Computer Science major;
2. A minimum GPA of 3.5 in all upper division courses in the Computer Science major completed in residence at CSUDH;

Students who achieve Honors in Information Technology will have the information recorded on their transcripts and diplomas.

### Academic Advisement

Faculty guidance in the development of career goals and program planning to achieve those goals is available to all majors.

### Preparation

Students entering the Information Technology program should have completed high school mathematics through trigonometry. Remediation is available but will delay the student's progress toward an Information Technology degree.

This is a program that places a premium on the student's initiative and effort.

## Student Organizations

Contact departmental office for membership information, or visit the websites:

Association for Computing Machinery (ACM) [ACM@csudh.edu](mailto:ACM@csudh.edu)

Institute of Electrical and Electronics Engineers (IEEE) [IEEE@csudh.edu](mailto:IEEE@csudh.edu)

Cyber Security [CyberSec@csudh.edu](mailto:CyberSec@csudh.edu)

Computing Alliance of Hispanic-Serving Institutions (CAHSI)

[CAHSI@csudh.edu](mailto:CAHSI@csudh.edu)

## Career Possibilities

Bachelor of Science in Information Technology is a comprehensive program that is intended to provide students with the technology based skill set required immediately after degree completion to enter the workforce or a graduate program. Feedback and letters of support from members of our Industry Advisory Board indicate the need for professionals with the balance of practical and theoretical knowledge that extends beyond conventional information technology curricula.

## Undergraduate Programs

### Bachelor

- Information Technology, Bachelor of Science (p. 308)

## Faculty

Mohsen Beheshti, Department Chair  
Jianchao (Jack) Han,

Bin Tang, Amlan Chatterjee, Liudong Zuo, Alireza Izaddoost, Brad Hollister, Sanaz Rahimi Moosavi, Ali Jalooli, Sahar Hooshmand, Marsa Rayani, Benjamin Ahmadian

## Staff

Angelica Tan, Administrative Assistant  
Ken Leyba, IT Consultant

## Location

Department Office: NSM A132

Department Phone: (310) 243-3398  
<http://csc.csudh.edu>

## Emeriti Faculty

William B. Jones, Kazimierz Kowalski, Marek Suchenek

## Courses

### ITC 101. Introduction to Information Technology. (3 Units)

Designed to introduce the fundamentals of information technology. This includes, introduction to a variety of computer tools and computer concepts with an emphasis on information technology  
Offered Fall, Spring

### ITC 251. System Programming in C and Unix. (3 Units)

Prerequisite: CSC 121 is required. Provides a substantial exposure to the C programming language and the Unix programming environment for students with some prior programming experience but minimal exposure to C.  
Offered Fall, Spring

### ITC 300. Security in a Digital Society. (3 Units)

This course provides students with an understanding of what is involved in the journey of positioning the computer, security, privacy, internet, and cloud as a valuable service provide to the business and personal life of the digital society.  
Offered Fall, Spring

**ITC 310. IT Project Management. (3 Units)**

Prerequisite: CSC 301 is required. Aims to provide students with the basic skills, knowledge and competence to effectively understand and manage information technology projects. This course prepares students to gain a practical and theoretical foundation for managing IT projects.

Offered Fall, Spring

**ITC 395. Selected Topics in Information Technology. (1-3 Units)**

Prerequisite: Consent of Instructor. Content varies. Topics in computer technology not covered by current course offerings. May be used for elective credit in departmental programs. Subject to approval.

Offered As needed

**ITC 399. IT Practicum. (3 Units)**

Prerequisite: Consent of instructor is required. The information technology internship program allows students to gain hands-on experience in a technology environment by spending one semester as an intern in the Information Technology Division or a related area. The internship program provides students with the opportunity to gain technical experience related to their studies and to prepare them for future career opportunities in the field. CR/NC grading only.

Offered Fall, Spring

**ITC 453. Database Management Systems (DBMS). (3 Units)**

Prerequisite: CSC 311 is required. Covers the design methodology process for databases and how to verify its structural correctness. Students will learn how to implement databases and applications software, primarily in the relational model. This is through using querying languages, primarily SQL, and other database supporting software; and applying the theory behind various database models and query languages. It also includes implementing security and integrity policies relating to databases working in group settings during design.

Offered Fall, Spring

**ITC 459. IT Security. (3 Units)**

Prerequisite: CSC 311 or consent of instructor is required. Information Technology Security aims at securing systems that remain dependable in the face of malice, error or mischance. This course covers a number of principles, methods, tools and good practices to secure systems.

Offered Fall, Spring

**ITC 492. Senior Design. (3 Units)**

Prerequisite: ITC 453 is required. Intensive study under the guidance of a member of the Information Technology (IT) faculty to complete a research project from start to end. Students will study system design and total project planning and management. A formal written report and oral presentation will be required.

Offered Fall, Spring

# Information Technology, Bachelor of Science

## Requirements

### Total Course Requirements for the Bachelor's Degree

See the "Requirements for the Bachelor's Degree (<https://catalog.csudh.edu/general-information/baccalaureate-degrees-undergraduate-studies/>)" in the University Catalog for complete details on general degree requirements. A minimum of 40 units, including those required for the major, must be upper division.

### Elective Requirements

Completion of elective courses (beyond the requirements listed below) to reach a total of a minimum of 120 units.

### General Education Requirements (49 units)

See the "General Education (p. 59)" requirements in the University Catalog or the Class Schedule for the most current information on General Education requirements and course offerings.

### Graduation Writing Assessment Requirement

See the "Graduation Writing Assessment Requirement (<https://catalog.csudh.edu/general-information/baccalaureate-degrees-undergraduate-studies/gwar-certifying-courses/>)" in the University Catalog.

### Minor Requirements

Single field major, no minor required.

### Major Requirements (78 units)

Students entering the Information Technology program must complete the following:

1. Earn an overall grade point average of 2.0 or better in courses taken outside of the department;
2. Earn a grade of "C" or better in each course taken within the department;
3. Students must take capstone course ITC 492 Senior Design at CSUDH.

The following courses, or their approved transfer equivalents, are required of all candidates for this degree.

### Lower Division Requirements (40 units)

Code	Title	Hours
ITC 101	Introduction to Information Technology	3
CSC 116	Introduction to Computer Hardware and Tools	3
CSC 121	Introduction to Computer Science and Programming I	4
CSC 123	Introduction to Computer Science and Programming II	4
ITC 251	System Programming in C and Unix	3
CTC 228	Introduction to Operating Systems and Networks	4
CSC 281	Discrete Structures	3
or MAT 281	Discrete Mathematics	
CSC 255	Dynamic Web Programming	3
BIO 102	General Biology	3
BIO 103	General Biology Laboratory	1
PHY 100	Patterns In Nature	3
MAT 131	Elementary Statistics and Probability	3
Science- Any Physical or Life Science		3
<b>Total Hours</b>		<b>40</b>

<sup>1</sup> A minimum of 18 upper division units in the major must be taken in residence at CSU Dominguez Hills.

### Upper Division Requirements (38 units)

Code	Title	Hours
<b>Required Courses (30 units)</b>		
CSC 301	Computers and Society	3
ITC 310	IT Project Management	3
CSC 311	Data Structures	3
CTC 316	Operating Systems and Networks Support	3
CTC 362	Communication Systems Security	3
ITC 399	IT Practicum	3
CTC 452	Network Security and Hacking Prevention	3
ITC 453	Database Management Systems (DBMS)	3
ITC 459	IT Security	3
ITC 492	Senior Design	3
<b>Electives (8 units)</b>		
CSC Courses- Recomenended IT Architecture		8
<b>Total Hours</b>		<b>38</b>

## 4- Year Roadmap

### 4- Year Roadmap

#### First Year

Code	Title	Hours
<b>Fall</b>		
MAT 131	Elementary Statistics and Probability (GE B4)	3
CSC 116	Introduction to Computer Hardware and Tools	3
ITC 101	Introduction to Information Technology	3
GE Area A1 Oral Communication		3
GE Area A2 Written Communication		3
<b>Hours</b>		<b>15</b>

Code	Title	Hours
<b>Spring</b>		
CSC 121	Introduction to Computer Science and Programming I (see academic advisor for GE Area A3 credit)	4
BIO 102	General Biology (GE B2)	3
BIO 103	General Biology Laboratory (GE B3)	1
POL 101	American Institutions (statutory requirements)	3

GE Area C1 Arts Courses		3
<b>Hours</b>		<b>14</b>
<b>Second Year</b>		
<b>Fall</b>		
CSC 123	Introduction to Computer Science and Programming II	4
CSC 255	Dynamic Web Programming	3
CSC 281	Discrete Structures	3
GE Area C2 Letters Course		3
<b>Hours</b>		<b>13</b>
<b>Spring</b>		
ITC 251	System Programming in C and Unix	3
CTC 228	Introduction to Operating Systems and Networks	4
CSC 311	Data Structures	3
GE Area D1 Perspectives on Individuals, Groups, and Society		3
PHY 100	Patterns In Nature (GE B1)	3
<b>Hours</b>		<b>16</b>
<b>Third Year</b>		
<b>Fall</b>		
ENG 350	Advanced Composition (GWAR satisfying course)	3
CSC 301	Computers and Society (GE Area B5)	3
CTC 316	Operating Systems and Networks Support	3
ITC 399	IT Practicum	3
GE Area C1 or C2		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ITC 310	IT Project Management	3
ITC 453	Database Management Systems (DBMS)	3
GE Area D2 Global and Historical Perspectives		3
GE Area C3 Integrative Studies in the Humanities		3
Additional PHY or Life Science Course		3
<b>Hours</b>		<b>15</b>
<b>Fourth Year</b>		
<b>Fall</b>		
CTC 362	Communication Systems Security	3
CTC 452	Network Security and Hacking Prevention	3
ITC 459	IT Security	3
GE Area E Lifelong Learning and Self-Development		3
GE Area D3 Integrative Studies in the Social Sciences		3
Elective to meet 120		3
<b>Hours</b>		<b>18</b>
<b>Spring</b>		
ITC 492	Senior Design	3
CSC or ITC Elective Course 1		3
GE Area F Ethnic Studies		3
CSC or ITC Elective Course 2		3
CSC or ITC Elective Course 3		2
<b>Hours</b>		<b>14</b>
<b>Total Hours</b>		<b>120</b>

## 2-Year Roadmap

## 2-Year Roadmap

### First Year

<b>Fall</b>		<b>Hours</b>
CSC 301	Computers and Society (GE B5)	3
CSC 311	Data Structures	3
CTC 316	Operating Systems and Networks Support	3
ITC 399	IT Practicum	3
Elective to meet 120 units		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ITC 310	IT Project Management	3

ITC 453	Database Management Systems (DBMS)	3
ENG 350	Advanced Composition (GWAR satisfying course)	3
Elective to meet 120 units		3
GE Area C3 Integrative Studies in the Humanities		3
<b>Hours</b>		<b>15</b>
<b>Second Year</b>		
<b>Fall</b>		
CTC 362	Communication Systems Security	3
CTC 452	Network Security and Hacking Prevention	3
ITC 459	IT Security	3
ITC 300	Security in a Digital Society	3
Elective to meet 120 units		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ITC 492	Senior Design	3
CSC or ITC Upper Division Elective 1		3
CSC or ITC Upper Division Elective 2		3
CSC or ITC Upper Division Elective 3		3
Elective to meet 120 units		3
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>60</b>

## Mathematics

College of Natural and Behavioral Sciences  
Department of Mathematics

### Program Description

Mathematics is about number operations and algebra, motion and change (calculus and differential equations), logical analysis, scientific visualization, structure and geometry, the prediction of random events (probability), the extraction of useful information from large sets of data (statistics), the discovery of the best ways to do things (optimization). It is abstract and theoretical, and intensely down-to-earth and practical, all at the same time.

The mathematics major and minor prepare students for exciting and rewarding work in industry, for careers in teaching, and for advanced post-baccalaureate study. Our calculus, differential equations, analysis, and probability and statistics courses enable science students to analyze data and predict outcomes in static and dynamic situations.

Our foundations, discrete math, and algebra courses give students the tools they need for rigorous logical and structural analysis and a deep conceptual understanding of quantitative situations. Our mathematics education courses prepare students to be outstanding teacher leaders with a deep knowledge of mathematics and the best practices in teaching. Our general education courses give the general student the mathematical background she or he needs to function in life as an educated and informed citizen in an increasingly quantitative and data-driven world.

The Mathematics Department makes every effort to offer its courses at times that are convenient for students.

For additional information, please visit our website [http:// \(http://math.csudh.edu/\)math.csudh.edu \(http://math.csudh.edu/\)](http://math.csudh.edu/).

### Academic Advising

Students are welcome to see a math advisor at any time when faculty are available. All full-time math faculty serve as advisors. Please call the Math department office (310) 243-3378 or drop by NSM A-124 during regular business hours to schedule an appointment with an advisor. The math department requires majors to meet with an advisor at least once each semester.

### Preparation

High School students should complete Algebra II, a year of geometry and trigonometry. A mathematics course should be taken in the senior year. Transfer students should complete three semesters of calculus and one additional course if possible.

### Graduation With Honors

An undergraduate student may graduate with Honors in Mathematics provided that the following criteria are met:

1. A minimum of 36 units in residence at CSU Dominguez Hills;
2. A minimum grade point average of at least 3.5 in all courses used to satisfy the upper-division requirements in the major.

## Career Opportunities

A degree in mathematics is a key that opens the door to a world of opportunity. Students who major in mathematics are able to pursue a diverse range of careers. They are sought out by profit and non-profit institutions for their ability to use reasoning and logic and for their ability to solve problems. Many are interested in passing their learning on to future generations through teaching. Others seek advanced degrees in mathematics or other sciences and pursue cutting-edge research. Some will pursue degrees in business or economics, where the ability to work with numbers can be a great advantage. Those with mathematical training have gone on to careers as business executives at major software companies, as analysts for stock trading companies, as actuaries and risk management experts for insurance companies and the healthcare industry, as scientists and data analysts in engineering and biotech firms, as software designers and programmers, and a whole host of other careers.

## Undergraduate Programs

### Bachelor

- Mathematics, Bachelor of Science (p. 319)

### Minor

- Mathematics, Minor (<https://catalog.csudh.edu/academics/mathematics/mathematics-minor/>)

## Graduate Programs

### Subject Matter Authorization

- Introductory Mathematics, Subject Matter Authorization (<https://catalog.csudh.edu/academics/mathematics/introductory-mathematics-subject-matter-authorization/>)

## Faculty

Wai-Yan Pong, Department Chair

Jessalyn Bolkema, Alex Chen, Sharon Lanaghan, Ha Nguyen, Wai-Yan Pong, Serban

Raianu, Cynthia Sanchez-Tapia, Kristen Stagg, Alexander Stanoyevitch, Yi Wang, Carolyn Yarnall

Department Office: NSM A-115, (310) 243-3378

Website: [math.csudh.edu](http://math.csudh.edu) (<http://math.csudh.edu/>) (<https://math.csudh.edu>) (<http://math.csudh.edu/>) (<http://math.csudh.edu/>)

Center for Science and Mathematics Education NSM A-115, (310) 243-2203

## Emeritus Faculty

Jacqueline Barab, Frederic Brulois, Jackson Henry, Susan Huniu, George Jennings, Eunice Krinsky, Frank Miles, John Wilkins

## Courses

### **MAT 2. Beginning Algebra. (2.7 Units)**

Offered All terms, Fall, Spring, Summer

### **MAT 12. Trigonometry. (1.33 Units)**

Offered Fall, Spring, Summer, All terms

### **MAT 100. Calculus Success Academy. (2 Units)**

Preparation for MAT 103, MAT 153, and MAT 191. Students will strengthen their problem solving and algebra skills while working collaboratively on math problems arising from various STEM disciplines. For students majoring in Biochemistry, Chemistry, Computer Science, Mathematics and Physics.

Offered All terms, Spring, Summer

### **MAT 102. Foundations of Statistics. (3 Units)**

Preparation for MAT 105 or MAT 132. Fundamental mathematical and statistical reasoning, including linear functions, measures of center and spread, representative of data, interpreting graphs, counting methods. Not intended for science and math majors that require MAT 153 or higher.

Offered All terms, Fall, Spring, Summer

### **MAT 103. Introduction to College Algebra. (4 Units)**

Preparation for MAT 151 College Algebra. Graphic, numeric, analytic and applied perspectives on algebraic concepts of linear and nonlinear functions, linear programming, exponents, radicals, exponential functions and transformation of functions. Intended for science and math majors.

Offered All terms, Fall, Spring, Summer



**MAT 105. Finite Mathematics. (3 Units)**

Prerequisite: Quantitative Reasoning Placement Level 2 or completion of any of MAT 131, MAT 132, MAT 134, MAT 151, MAT 153, or MAT 191. Mathematics of finance, combinatorics, probability, statistical measures of central tendency and dispersion, problem solving and mathematical reasoning, and additional topical selected by instructor e.g. linear programming, statistics, graph theory, game theory. A-C-/NC grading. Satisfies the General Education Quantitative Reasoning Requirement.  
Offered Fall, Spring

**MAT 107. Mathematics for Elementary School Teachers: Real Numbers. (3 Units)**

Prerequisite: Quantitative Reasoning Placement Level 2 or completion of any of MAT 105, MAT 131, MAT 132, MAT 134, MAT 151, MAT 153, or MAT 191. Sets and set theoretic operations as related to counting numbers and rational numbers and arithmetic operations. Real number system and its origins, development, structure and use. Special emphasis on problem solving, and the development and application of algorithms. Does not satisfy General Education Quantitative Reasoning Requirement.  
Offered Fall, Spring, All terms

**MAT 111. Discovering Mathematics. (3 Units)**

Problem solving and applications of mathematics to personal and civic life involving chance and descriptive statistics and selected additional topics. Includes use of spreadsheets and other technologies. Not intended for majors that require statistics or calculus. A-C-/NC grading.  
Offered Fall, Spring

**MAT 131. Elementary Statistics and Probability. (3 Units)**

Prerequisite: Quantitative Reasoning Placement Level 2 or completion of any of MAT 105, MAT 151, MAT 153, or MAT 191. A practical course in probability and statistics including such topics as the binomial and normal distributions, confidence intervals, t, F, and chi-square tests, linear regression and correlation, and conditional probability. Satisfies the General Education Quantitative Reasoning Requirement.  
Offered Fall, Spring

**MAT 132. Statistics and Probability with Support. (4 Units)**

Recommended prerequisite: MAT 102 or GE Math Ready with Support (Level III) Includes the binomial and normal distributions, confidence intervals, linear regression and correlation, and conditional probability. Satisfies General Education Quantitative Reasoning Requirement.  
Offered Fall, Spring

**MAT 134. Statistics & Probability - Supported. (4 Units)**

MAT 134 is an introduction to statistics, including the binomial and normal distributions, confidence intervals, linear regressions and correlation, hypothesis testing, and conditional probability. Satisfies General Education Quantitative Reasoning. Not for students with credit for MAT 131 or MAT 132. Recommended for students designated "GE Ready with Support (Level III)."  
Offered Fall, Spring

**MAT 141. Computers for Mathematics Teaching. (3 Units)**

Quantitative Reasoning Placement Level 2 or completion of any of MAT 105, MAT 131, MAT 132, MAT 134, MAT 151, MAT 153, or MAT 191. Introduction to computers for teachers of mathematics. Topics include flowcharting, programming in LOGO on microcomputers. Applications of computers to problem solving, statistics, and other areas of mathematics relevant to teachers of mathematics. Applications packages, CAI and social issues are studied. A-C-/NC grading. Does not satisfy General Education Quantitative Reasoning Requirement.  
Offered Infrequent

**MAT 143. Problem Solving in Mathematics. (3 Units)**

Prerequisite: be Quantitative Reasoning Placement Level 2 or completion of any of MAT 105, MAT 131, MAT 132, MAT 134, MAT 151, MAT 153, or MAT 191. Objective is to increase students abilities to use knowledge and experience when encountering new and unexpected situations. Develop higher level thinking skills, learn to formulate, analyze, and model problems. Choosing relevant information, making conjectures, devising plans and testing solutions. A-C-/NC grading. Does not satisfy General Education Quantitative Reasoning Requirement.  
Offered Fall, Spring

**MAT 151. College Algebra and Trigonometry. (4 Units)**

Prerequisites: MAT 103 is required. Graphic, numeric, analytic and applied perspectives on topics including linear, quadratic, exponential, logarithmic and trigonometric functions, exponents and radicals, linear and nonlinear systems of equations and inequalities. Preparation for MAT 191: Calculus I. 3 units of discussion; 1 unit lab.  
Offered All terms, Fall, Spring

**MAT 153. Pre-Calculus with Trigonometry with Lab. (4 Units)**

Prerequisites: Math Placement Category Level 2 or completed GE Quantitative Reasoning. Topics include functions and their graphs; linear, quadratic, rational, exponential, and logarithmic functions; composition, transformation and arithmetic of functions; inverse function; inequalities; right-triangle trigonometry and circular motion; applications to contextual problems. This course is supported with Supplemental Instruction. Preparation for MAT 191: Calculus.  
Offered Fall, Spring

**MAT 155. Pre-Calculus. (4 Units)**

Prerequisite(s): Designation of "GE Ready (Level II)" or with permission of department. Topics include functions and their graphs; linear, quadratic, rational, exponential, and logarithmic functions; composition, transformation, and arithmetic of functions; inverse function; inequalities; right-triangle trigonometry and circular motion; applications to contextual problems. Preparation for MAT 191 Calculus.  
Offered Fall, Spring

**MAT 171. Survey of Calculus for Management and Life Sciences. (4 Units)**

Prerequisite: Quantitative Reasoning Placement Level 2 or completion of any of MAT 105, MAT 131, MAT 132, MAT 134, MAT 151, MAT 153, or MAT 191. Not available for credit to students who have credit in MAT 191 or its equivalent or courses which have MAT 191 as a prerequisite.

Functions, linear equations, the derivative and its applications, the integral and its applications, and partial derivatives. Satisfies the General Education Quantitative Reasoning Requirement.

Offered Fall, Spring

**MAT 191. Calculus I. (5 Units)**

Prerequisite: MAT 151 or MAT 153 or equivalent with a grade of C or better. Limits, continuity, derivatives, differentiation formulas, applications of derivatives, introduction to integration, fundamental theorem of calculus, application of integration. Satisfies the General Education Quantitative Reasoning Requirement.

Offered Fall, Spring

**MAT 193. Calculus II. (5 Units)**

Prerequisite: MAT 191 or equivalent with a grade of C or better. Differentiation and integration of transcendental function. Techniques and applications of integration. Polar coordinates. Infinite sequences and series, power series, convergence. Satisfies the General Education Quantitative Reasoning Requirement.

Offered Fall, Spring

**MAT 195. Selected Topics in Mathematics. (1-5 Units)**

A course in a topic of special interest to both faculty and students for which no current course exists. Topic will be announced in schedule of classes. Repeatable for credit. One to four hours of lecture per week.

Offered As needed, All terms

**MAT 207. Mathematics for Elementary School Teachers: Geometry & Statistics. (4 Units)**

Prerequisite: Quantitative Reasoning Placement Level 2 or completion of any of MAT 105, MAT 131, MAT 132, MAT 134, MAT 151, MAT 153, or MAT 191. Primarily for prospective elementary school teachers. Geometry from an intuitive problem solving standpoint. Constructions, symmetry, translations, rotations, patterns, area, volume, and the metric system. Topics from graph theory and topology. Two hours of lecture and two hours of activity per week. Does not satisfy General Education Quantitative Reasoning Requirement.

Offered Fall, Spring

**MAT 211. Calculus III. (5 Units)**

Prerequisite: MAT 193 or equivalent with a grade of C or better. Multivariable calculus: analytic geometry, scalar and vector products, partial differentiation, multiple integration, change of coordinates, gradient, optimization, line integrals, Green's theorem, elements of vector calculus.

Offered Fall, Spring

**MAT 213. Calculus IV. (4 Units)**

Prerequisite: MAT 211 or equivalent with a grade of C or better. Topics covered include vector calculus, line and surface integrals, and the theorems of Green, Gauss, and Stokes.

Offered Infrequent

**MAT 241. Programming and Technology for Teaching Secondary School Mathematics. (3 Units)**

Prerequisite: MAT 193 or equivalent with a grade of C or better. Introduction to application software appropriate for the teaching of secondary school mathematics. The programs include spreadsheet, geometric modeling, and statistics modeling. Writing simple programs for graphing calculators to demonstrate and solve mathematical problems.

Offered Fall

**MAT 247. Elements of Linear Algebra. (3 Units)**

Matrix algebra emphasizing small (2x2 and 3x3) matrices and vectors over the real numbers, solutions of systems of equations, determinants, inner product spaces, and linear transformations, with applications to other subjects, e.g. physical and computer science, economics, and operations research.

Offered Fall, Spring

**MAT 271. Foundations Of Higher Math. (3 Units)**

Prerequisite: MAT 193 with grade of C or better. Topics include logic, methods of mathematical proof, set theory, relations and functions. Introduction to complex numbers and proof strategies using ideas of vector algebra. Meant to prepare students for mathematics program as well as concepts of computer science.

Offered Fall, Spring

**MAT 281. Discrete Mathematics. (3 Units)**

Prerequisite: a) MAT 151 or MAT 153 and b) CSC 115 or CSC 121 or MAT 241 or equivalent with grade of C or better. Matrix algebra, graph theory, trees, combinatorics, Boolean algebra; with applications to computers and computer programming.

Offered Fall, Spring

**MAT 295. Selected Topics In Mathematics. (1-4 Units)**

Prerequisites: MAT 193 and consent of instructor. A course in a topic of special interest to both faculty and students for which no current course exists. Topic will be announced in schedule of classes. Repeatable for credit. One to four hours of lecture per week.

Offered As needed

**MAT 297. Independent Study. (1-4 Units)**

Prerequisites: MAT 193, consent of instructor and consent of department chair. A reading program of selected topics not covered by regularly offered courses conducted under the supervision of a faculty member.

Offered As needed

**MAT 307. Foundations of Middle School Mathematics I. (3 Units)**

Foundations of Mathematics related to the middle school curriculum. Course 1 includes the following topics: Reasoning with numbers, basic number proofs, understanding exponents, proportional reasoning, rates, linear functions, method of finite differences, and the theory and application of these topics.

Offered Infrequent, All terms

**MAT 308. Foundations of Middle School Mathematics II. (3 Units)**

Foundations of Mathematics related to the middle school curriculum. Course 2 includes the following topics: basic Euclidean facts, algebra-geometry connections, volume and surface area formulas, similarity, congruence, and scale factors, and the theory and application underlying these topics.

Offered Infrequent

**MAT 309. Foundations of Middle School Mathematics III. (3 Units)**

Foundations of Mathematics related to the middle school curriculum. Course 3 includes the following topics: concept of functions, inverse functions, properties of rational, trigonometric and exponential functions and fundamental concepts in Calculus.

Offered All terms, Infrequent

**MAT 311. Differential Equations. (3 Units)**

Prerequisite(s): MAT 211 and MAT 247 with a grades of C or better. Topics covered include first and second order linear equations including existence and uniqueness theorems, series solutions; nonlinear equations; systems of linear equations. Other topics may include the Laplace transform, qualitative theory.

Offered Fall

**MAT 315. Introduction to Survival Analysis. (3 Units)**

Prerequisites: CSC 115 or MAT 241; MAT 193, MAT 131 or MAT 132 are required. Co-requisites: MAT 323 and MAT 327 are recommended. Survival analysis is about the analysis of time-to-event data. This course will help you understand the fundamental concepts of survival analysis. Topics include, but are not limited to, time-to-event data, Log-rank test and Cox proportional hazards regression.

Offered Fall

**MAT 321. Probability and Statistics. (3 Units)**

Prerequisite: MAT 193 and MAT 271 or equivalent with grade C or better. A calculus based survey of topics in probability and statistics emphasizing applications.

Offered Fall, Spring

**MAT 323. Statistical Inference. (3 Units)**

Point and interval estimation, hypothesis testing, simple linear regression, re-sampling. Method of moments, maximum likelihood, bias and variance, mean-squared error, sufficiency, likelihood ratio tests, p-value, power calculation, analysis of variance, Neymann-Pearson lemma, uniformly most powerful tests.

Offered Fall

**MAT 327. Introduction to Machine Learning with Software. (3 Units)**

Required Prerequisites: MAT 281. Recommended Prerequisite: MAT 131 Machine learning uses methods and concepts to sift through data to create automated prediction and decision programs. This course will develop the underlying mathematical concepts and proficiency with R or similar software to understand, build, and apply machine learning.

Offered Spring

**MAT 331. Linear Algebra. (3 Units)**

Prerequisite: MAT 247 and MAT 271 or equivalent with a grade of C or better. Linear equations, vector spaces, matrices, linear transformations, determinants, eigenvalues, eigenvectors, etc.

Offered Fall, Spring

**MAT 333. Abstract Algebra. (3 Units)**

Prerequisite(s): MAT 247 and MAT 271 or equivalent with a grade of C or better. The theory of groups, rings, ideals, integral domains, fields and related results.

Offered Fall

**MAT 337. Mathematical Logic. (3 Units)**

Prerequisite: MAT 191 or equivalent with a grade of C or better. Topics covered include propositional calculus, classical and intuitionistic; completeness and consistency theorems; first order predicate calculus with equality; axiomatic arithmetic; Godel's incompleteness theorem.

Offered Infrequent

**MAT 347. Modern Geometry. (3 Units)**

Prerequisite: MAT 271 or equivalent with a grade of C or better. Topics in synthetic and analytic geometry; transformations, similarity, congruence, distance, angles, constructions; introduction to projective and/or non-Euclidean geometry.

Offered Spring

**MAT 351. Probability Theory. (3 Units)**

Prerequisite: MAT 193 or equivalent with a grade of C or better. Probability as a mathematical system, set theory, conditional probability and independent events, random variables, distribution and density functions, covariance and correlation, limit theorems, convolutions, computer generation of random numbers.

Offered Infrequent

**MAT 353. Stochastic Processes. (3 Units)**

Prerequisite: MAT 351 or equivalent with a grade of C or better. A selection from among several topics, including Markov chains; Markov processes; queuing, branching, Poisson, and Gaussian processes; stationary processes.

Offered Infrequent

**MAT 361. Finite Automata. (3 Units)**

Prerequisite: MAT 281 or equivalent with a grade of C or better. Study of the abstract formalization of digital computers. Applications to computation theory and formal linguistics.

Offered Infrequent

**MAT 367. Numerical Analysis I. (3 Units)**

Prerequisites: Experience in BASIC, FORTRAN or Pascal and MAT 211 or equivalent with a grade of C or better. Approximation of roots of functions, interpolation formulas, numerical solutions of systems of equations, numerical differentiation and integration, numerical solutions to ordinary differential equations.

Offered Infrequent

**MAT 369. Numerical Analysis II. (3 Units)**

Prerequisite: MAT 367 or equivalent with a grade of C or better. A continuation of MAT 367, including approximation of eigenvalues and eigenvectors, approximation by splines, numerical solutions of parabolic, elliptic, and hyperbolic partial differential equations.

Offered Infrequent

**MAT 395. Selected Topics in Math. (1-4 Units)**

Prerequisites: MAT 211 and consent of instructor. A course in a topic of special interest to both faculty and students for which no current course exists. Topic will be announced in schedule of classes. Repeatable for credit. One to four hours of lecture per week.

Offered As needed

**MAT 396. Practicum in Mathematics. (3 Units)**

Prerequisites: Consent on Department Chair or Instructor is required. Supervised work experience, emphasizing hands-on training and application of practical and/or technical skills in mathematics, in a suitable setting. Students will submit a comprehensive report or portfolio. CR/NC grading. Repeatable course.

Offered Fall, Spring

**MAT 398S. Directed Research. (1-3 Units)**

Offered Infrequent

**MAT 401. Advanced Analysis I. (3 Units)**

Prerequisites: MAT 211 and MAT 271, or equivalent with a grade of C or better. Elements of set theory, numerical sequences and series, continuity and differentiability of functions of one and several variables.

Offered Fall

**MAT 403. Advanced Analysis II. (3 Units)**

Prerequisite: MAT 401 or equivalent with a grade of C or better. Integration of functions of one and several variables, sequences and series of functions, uniform convergence, power series, differentiation of functions of several variables.

Offered Spring

**MAT 411. Mathematical Modeling. (3 Units)**

Prerequisite: MAT 211, MAT 241, and MAT 271 or CSC 121 or CSC 111. Flexible course content depending on interest of instructor and students. Possible topics are: epidemic and predator-prey models from differential equations; linear programming models; Arrow's theorem; and probability models.

Offered Spring

**MAT 413. An Introduction to Partial Differential Equations. (3 Units)**

Prerequisites: MAT 311 with a grade of C or better is required; MAT 213 is recommended. Solutions to partial differential equations by separation of variables and Fourier series. Applications to heat flow and diffusion, wave motion, and potentials. Some discussion of existence and uniqueness of solutions.

Offered Infrequent

**MAT 415. Financial Mathematics. (3 Units)**

Financial mathematics focuses on interest theory, financial data analysis, and the application of these concepts to calculating present and accumulated values for cash flows. The course also covers various important instruments such as loans, stocks, bonds, and financial derivatives

Offered Infrequent

**MAT 417. Math Methods for Data Science. (3 Units)**

Prerequisites: MAT 211 and MAT 247 are required; CSC 115 or MAT 241 are recommended. Methods include optimization (stochastic gradient descent, alternating direction method of multipliers (ADMM), L1 minimization) with applications to Linear Regression, K-means and Expectation-Maximization (EM) algorithm; matrix decomposition (singular value decomposition (SVD), principal component analysis (PCA) and nonnegative matrix decomposition) with applications to recommendation system, image processing and computer vision.

Offered Fall

**MAT 421. Complex Analysis. (3 Units)**

Prerequisites: MAT 211 and MAT 271 with a grade of C or better. MAT 331 and MAT 401 (may be taken concurrently) are recommended. Complex numbers; point sets, sequences and mappings; analytic functions; elementary functions; integration; power series; the calculus of residues; and applications.

Offered Spring

**MAT 443. History Of Mathematics. (3 Units)**

Prerequisite: MAT 193 with a grade of C or better. Traces the growth and development of mathematics from primitive origins to present, uses methods and concepts of mathematics to present the topics.

Offered Spring

**MAT 447. Number Theory. (3 Units)**

Prerequisite: MAT 271 with a grade of C or better. Divisibility, congruencies, prime number theory, Diophantine Equations, and other topics from elementary number theory.

Offered Spring

**MAT 448. Cryptography. (3 Units)**

Prerequisites: MAT 271 with a grade of C or better is required. CSC 115 or CSC 121 with a grade of C or better is recommended. Congruencies and number theory, history and early cryptosystems, cryptographic data structures, public key cryptography, additional cryptosystems such as DES, AES, and elliptic curve cryptography. Computer implementations will also be covered, as well any needed additional mathematical topics (e.g. finite fields.)

Offered Fall

**MAT 451. Mathematical Statistics. (3 Units)**

Prerequisite: MAT 351 or equivalent with a grade of C or better. Sums of independent random variables; functions of random variables; chi-square, F, and t distributions; estimation of parameters; maximum-likelihood, unbiased, consistent, minimum-variance, and minimum-mean-square error estimators; confidence intervals; central limit theorem.

Offered Infrequent

**MAT 460. Graph Theory and Algorithms. (3 Units)**

Prerequisites: MAT 211, MAT 271, and MAT 241, or CSC 121, or CSC 115 or equivalent with a grade of C or better are required. MAT 281 with a grade of C or better is recommended. Graphs, digraphs, multigraphs, graph modeling, degrees and degree sequences, subgraphs, isomorphisms of graphs, and digraphs, distance concepts and applications, trees, and tree algorithms, Hamiltonian and Eulerian graphs. The viewpoints will be conceptual, theoretical and algorithmic.

Offered Fall

**MAT 489. Fundamental Mathematics and Teaching in Secondary Schools. (4 Units)**

Prerequisite: 9 units of 300/400-level mathematics with a grade of C or better; In order to begin the hours for fieldwork in this course, you will need a valid Certificate of Clearance (fingerprints) and proof of a negative TB (within 4 months of the fieldwork course beginning). For information on submitting these documents, contact the Center for Teaching Careers. Synthesis and analysis of secondary mathematics and its teaching. Emphasis will be placed on algebraic thinking and its teaching in high school. Forty hours of secondary classroom observations will be a required activity in this course. A Certificate of Clearance is required.

Offered Spring

**MAT 490. Seminar in Mathematics Education. (3 Units)**

Prerequisite(s): Completion of at least one of MAT 333, MAT 447, or MAT 448 with a grade of C or better. The synthesis and analysis of the secondary mathematics curriculum from an advanced standpoint. Emphasis will be on the integration of problem solving, investigations, reasoning, and communication as recommended in state and national standards.

Offered Fall

**MAT 495. Selected Topics In Math. (1-4 Units)**

Prerequisites: Consent of instructor and MAT 271. A course in a topic of special interest to both faculty and students for which no current course exists. Topic will be announced in schedule of classes. Repeatable for credit. One to four hours of lecture per week.

Offered As needed

**MAT 497. Independent Study. (1-4 Units)**

Prerequisites: MAT 211, consent of instructor and consent of department chair. A reading program of selected topics not covered by regularly offered courses conducted under the supervision of a faculty member.

Offered As needed

**MAT 500. Mathematics Education Research Design and Statistics. (3 Units)**

Prerequisites: Students must have graduate standing and must have completed one year of full time secondary mathematics teaching. Includes topics such as normal distribution, confidence intervals, t, F, chi-squared tests, linear regression, and correlation. These topics are presented in the context of mathematics education research in typical classrooms.

Offered As needed

**MAT 501. Foundations of Geometric Thinking. (3 Units)**

Prerequisites: MAT 543 or concurrent enrollment. Students must have graduate standing and must have completed one year of full time secondary mathematics teaching. Research on Various topics in geometry. Focus on developing notions of rigorous proof and grade-appropriate explanations. Topics are chosen from the Geometry areas and standards emphasized in K-12.

Offered As needed

**MAT 505. Foundations of Mathematical Structures. (3 Units)**

Prerequisites: MAT 543 or concurrent enrollment. Students must have graduate standing and must have completed one year of full time secondary mathematics teaching. Topics include the algebraic properties of sets and operations applied to classical number systems, equivalence, modular arithmetic, Diophantine equations, decomposition of natural numbers, special families of natural numbers, current research on understanding and learning these topics.

Offered As needed

**MAT 506. Foundations of Rational Numbers. (3 Units)**

Prerequisites: MAT 543 or concurrent enrollment. Students must have graduate standing and must have completed one year of full time secondary mathematics teaching. Covers theory and applications of Rational numbers. Focus on number systems, representation of numbers, equivalence classes, rationality and irrationality, properties of the rational numbers system, central ideas of proportional reasoning, and developing intuitive models of standard rules and algorithms.

Offered As needed

**MAT 515. Topics in Advanced Finite Math. (3 Units)**

Prerequisites: Possession of a baccalaureate degree and one year of full-time secondary mathematics teaching. Topics from areas of Modern Mathematics which relate to the high school mathematics curriculum such as: algorithms, graph theory, coding theory, game theory, finite probability theory, difference equations, voting, recursion.

Offered As needed

**MAT 517. Fractals for Teachers. (3 Units)**

Prerequisites: Possession of a baccalaureate degree and one year of full-time secondary mathematics teaching. Topics from Fractal and Chaos Theory including: the Cantor Set, Koch Curve, Julia Sets, space filling curves. Brownian motion and Chaotic behavior. Selections to relate to the high school mathematics curriculum.

Offered Infrequent

**MAT 521. Geometry For Teachers. (3 Units)**

Prerequisites: MAT 543, graduate standing and one year of full time secondary mathematics teaching. Topics from Geometry including: points and lines in a triangle, properties of circles, collinearity, concurrence, transformations, arithmetic and geometric means, isoperimetric theorems, reflection principle.

Offered As needed

**MAT 522. Foundations of Algebraic Thinking. (3 Units)**

Prerequisites: Students must have graduate standing and must have completed one year of full time secondary mathematics teaching. Patterns, functions, and multiple representations; independent and dependent variables; discrete and continuous functions; linear and nonlinear relationships in context; connections to arithmetic operations; algebraic expressions and equations. Examines current research on the understanding and learning of these topics.

Offered As needed

**MAT 523. Theory of Function. (3 Units)**

Prerequisites: MAT 543, graduate standing and one year of full time secondary mathematics teaching. Topics from Function Theory including: mathematical models, linear functions, non-linear functions, transformations, limits, continuity, functions of several variables.

Offered As needed

**MAT 525. Algebraic Structures for Teachers. (3 Units)**

Prerequisites: MAT 543, graduate standing and one year of full time secondary mathematics teaching. Topics relating to the high school Algebra curriculum from an advanced standpoint including algorithms, fields, polynomials, groups, fields, and rings.

Offered As needed

**MAT 543. Advanced Problem Solving. (3 Units)**

Problem solving using non-routine strategies. Problems to be representative of several branches of mathematics and mathematically based disciplines.

Offered As needed

**MAT 545. History of Math Education. (3 Units)**

Prerequisites: Graduate standing and one year of full time secondary teaching. Traces the development of the mathematics curriculum K-12 in the United States and internationally, concentrating both on content taught at different stages and the teaching methods employed. Reviews the various mathematics reform efforts over the past 170 years.

Offered As needed

**MAT 555. Research in Mathematics Education. (3 Units)**

Prerequisites: GED 500 and consent of program. Integrates previous work and experience by emphasizing the application of theoretical models and research designs to the field of mathematics education. Special emphasis will be given to analyzing, organizing, and evaluating findings, and communicating the results.

Offered Infrequent

**MAT 557. Research in Math Education I. (3 Units)**

Prerequisites: MAT 500 and 15 units of program. Overview of the current research literature pertaining to mathematics education in elementary and secondary schools. Topics such as mathematical reasoning, communication, problem solving, algebra, and geometry will be discussed and analyzed.

Offered As needed

**MAT 559. Research in Math Education II. (3 Units)**

Prerequisite: MAT 557. Overview of the current research literature pertaining to mathematics education in elementary and secondary schools. Topics such as mathematical reasoning, communication, problem solving, algebra, and geometry will be discussed and analyzed.

Offered As needed

**MAT 590. Graduate Seminar in Mathematics Education. (1-4 Units)**

Prerequisites: Possession of a baccalaureate degree and one year of full-time secondary mathematics teaching. Presentation and discussion of selected topics in Mathematics Education. Repeatable course.

Offered Infrequent

**MAT 594S. Independent Study. (1-4 Units)**

Prerequisites: Consent of instructor and department chair. In consultation with a faculty member, the student will investigate in detail current scholarship in some area. Repeatable course.

Offered As needed

**MAT 595. Selected Topics. (1-4 Units)**

Â An intensive study of selected issues in mathematics education. Repeatable course.

Offered As needed

**MAT 597. Directed Reading. (1-4 Units)**

Prerequisites: Consent of instructor and department chair. Extensive reading in selected areas under the guidance of faculty mentor. Repeatable course.

Offered Infrequent

**MAT 598. Directed Research. (1-4 Units)**

Prerequisite: Classified graduate standing. Students will design and conduct research projects under the direct supervision of the instructor. Repeatable course.

Offered As needed

**MAT 599. Masters Project. (6 Units)**

Prerequisite: Advancement to Candidacy. Completion of classroom based project under the guidance of faculty advisor. The culminating learning experience of the program which emphasizes the application of the mathematics education curriculum in the classroom.

Offered As needed

**MAT 600. Graduate Continuation Course. (1 Units)**

Graduate students who have completed their course work but not their thesis, project, or comprehensive examination, or who have other requirements remaining for the completion of their degree, may maintain continuous attendance by enrolling in this course. Signature of graduate program coordinator required.

Offered Infrequent

## Mathematics, Bachelor of Science

### Requirements

#### Total Course Requirements for the Bachelor's Degree

See the "Requirements for the Bachelor's Degree (<https://catalog.csudh.edu/general-information/baccalaureate-degrees-undergraduate-studies/>)" in the University Catalog for complete details on general degree requirements. A minimum of 40 units, including those required for the major, must be upper division.

#### Elective Requirements

Completion of elective courses (beyond the requirements listed below) to reach a total of a minimum of 120 units.

**General Education Requirements (49 units)**

See the "General Education (p. 59)" requirements in the University Catalog or the Class Schedule for the most current information on General Education requirements and course offerings.

**Graduation Writing Assessment Requirement**

See the "Graduation Writing Assessment Requirement (<https://catalog.csudh.edu/general-information/baccalaureate-degrees-undergraduate-studies/gwar-certifying-courses/>)" in the University Catalog.

**Minor Requirements**

No minor is required.

**Major Requirements (60-66 units)**

Students must select one of the options listed below. The following courses, or their approved transfer equivalents, are required of all candidates for this degree. All courses used to satisfy this major must be passed with a grade of "C" or better.

**Core Requirements (35 units)**

Code	Title	Hours
<b>Lower Division Required Courses</b>		
MAT 191	Calculus I	5
MAT 193	Calculus II	5
MAT 211	Calculus III	5
MAT 247	Elements of Linear Algebra	3
MAT 271	Foundations Of Higher Math	3
MAT 281	Discrete Mathematics	3
PHY 130	General Physics I	5
<b>Upper Division Required Courses</b>		
MAT 331	Linear Algebra	3
MAT 401	Advanced Analysis I	3
<b>Total Hours</b>		<b>35</b>

**Mathematics Education Option (31 units)**

This option will satisfy the subject matter preparation necessary for a secondary teaching credential in mathematics. Students do not get Subject Matter Preparation on their diploma; the diploma says Mathematics Education option.

Code	Title	Hours
<b>Lower Division Required Courses</b>		
MAT 131	Elementary Statistics and Probability	3
MAT 143	Problem Solving in Mathematics	3
MAT 241	Programming and Technology for Teaching Secondary School Mathematics	3
<b>Upper Division Required Courses</b>		
MAT 333	Abstract Algebra	3
MAT 347	Modern Geometry	3
MAT 443	History Of Mathematics	3
MAT 489	Fundamental Mathematics and Teaching in Secondary Schools	4
MAT 490	Seminar in Mathematics Education	3
<b>Electives</b>		
<b>A. Select one of the following</b>		<b>3</b>
MAT 447	Number Theory	
MAT 448	Cryptography	
<b>B. Select an upper division mathematics modeling or statistics course approved by a mathematics advisor.</b>		<b>3</b>
<b>Total Hours</b>		<b>31</b>

**Mathematics Option (25 units)**

Code	Title	Hours
<b>Lower Division Required Courses</b>		
CSC 121	Introduction to Computer Science and Programming I	4



**Upper Division Required Courses**

MAT 321	Probability and Statistics	3
MAT 333	Abstract Algebra	3
MAT 403	Advanced Analysis II	3
MAT 421	Complex Analysis	3

**Electives**

**A. Select one of the following (3) 3**

MAT 447	Number Theory	
MAT 448	Cryptography	

**B. Select two upper division mathematical modeling or statistics courses approved by a mathematics advisor (6) 6**

**Total Hours 25**

## Program Learning Outcomes

- Demonstrate skill in using mathematical symbols, standard procedures and techniques, and definitions.
- Demonstrate a sense of inquiry and perseverance in mathematics.
- Demonstrate communication skills in conjunction with mathematical literacy in each major area.
- Prove or disprove mathematical statements as appropriate.
- Use technology and programming languages to model and solve mathematical problems.
- Demonstrate an understanding of the history of early mathematics (Math Ed Option only)

## Mathematics Education Option Roadmaps

### 4-Year Roadmap

**First Year**

		Hours
Fall		
GE Area A2 Composition		3
MAT 191	Calculus I	5
MAT 143	Problem Solving in Mathematics	3
HIS 101	History Of United States	3
<b>Hours</b>		<b>14</b>

Spring		
GE Area A1 Oral Communication		3
GE Area C or D		3
MAT 193	Calculus II	5
MAT 247	Elements of Linear Algebra	3
POL 101	American Institutions	3
<b>Hours</b>		<b>17</b>

**Second Year**

Fall		
MAT 211	Calculus III	5
MAT 271	Foundations Of Higher Math	3
MAT 241	Programming and Technology for Teaching Secondary School Mathematics	3
GE Area C or D		3
<b>Hours</b>		<b>14</b>

Spring		
MAT 131	Elementary Statistics and Probability	3
MAT 281	Discrete Mathematics	3
MAT 331	Linear Algebra	3
GE Area C or D		3
GE Area C or D		3
<b>Hours</b>		<b>15</b>

**Third Year**

Fall		
PHY 130	General Physics I	5
MAT 448	Cryptography	3
ENG 350	Advanced Composition	3
GE Area C or D		3
<b>Hours</b>		<b>14</b>

<b>Spring</b>		
MAT 347	Modern Geometry	3
MAT 443	History Of Mathematics	3
GE Area B2 Life Science		3
GE Area E Lifelong Learning and Self-Development		3
GE Area D3 Integrative Studies in the Social Sciences		3
<b>Hours</b>		<b>15</b>
<b>Fourth Year</b>		
<b>Fall</b>		
MAT 333	Abstract Algebra	3
MAT 401	Advanced Analysis I	3
MAT 490	Seminar in Mathematics Education	3
GE Area B5 Integrative Studies in Natural Sciences		3
GE Area F Ethnic Studies		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
MAT 489	Fundamental Mathematics and Teaching in Secondary Schools	4
Elective B - Select an upper division mathematical modeling or statistics elective with an advisor		3
GE Area C3 Integrative Studies in the Humanities		3
Elective to meet 120 units		3
Elective to meet 120 units		3
<b>Hours</b>		<b>16</b>
<b>Total Hours</b>		<b>120</b>

## 2-Year Roadmap (transfer students)

<b>First Year</b>		
<b>Fall</b>		
MAT 271	Foundations Of Higher Math	3
MAT 281	Discrete Mathematics	3
ENG 350	Advanced Composition	3
MAT 241	Programming and Technology for Teaching Secondary School Mathematics	3
GE Area B5 Integrative Studies in Natural Sciences		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
MAT 331	Linear Algebra	3
MAT 411	Mathematical Modeling	3
MAT 443	History Of Mathematics	3
GE Area C3 Integrative Studies in the Humanities		3
Elective to meet 120 units		3
<b>Hours</b>		<b>15</b>
<b>Second Year</b>		
<b>Fall</b>		
MAT 401	Advanced Analysis I	3
MAT 448	Cryptography	3
MAT 490	Seminar in Mathematics Education	3
GE Area D3 Integrative Studies in the Social Sciences		3
Elective to meet 120 units		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
MAT 333	Abstract Algebra	3
MAT 347	Modern Geometry	3
MAT 489	Fundamental Mathematics and Teaching in Secondary Schools	4
Elective to meet 120 units		2
Elective A - Select an upper division mathematical modeling or statistics elective with an advisor		3
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>60</b>

# Mathematics Option Roadmaps

## 4- Year Roadmap

### First Year

Fall		Hours
GE Area A2 Composition I		3
MAT 191	Calculus I	5
HIS 101	History Of United States	3
POL 101	American Institutions	3
<b>Hours</b>		<b>14</b>

Spring		Hours
GE Area A1 Oral Communication		3
MAT 193	Calculus II	5
CSC 115	Introduction to Programming Concepts	3
Additional elective to meet 120 units		3
<b>Hours</b>		<b>14</b>

### Second Year

Fall		Hours
GE Area A3 Logic/Critical Thinking		3
GE Area C1 Arts Courses		3
GE AreaB2 Life Sciences		3
MAT 211	Calculus III	5
MAT 271	Foundations Of Higher Math	3
<b>Hours</b>		<b>17</b>

Spring		Hours
GE Area D1 Perspectives on Individuals, Groups, and Society		3
MAT 247	Elements of Linear Algebra	3
MAT 281	Discrete Mathematics	3
PHY 130	General Physics I	5
<b>Hours</b>		<b>14</b>

### Third Year

Fall		Hours
MAT 321	Probability and Statistics	3
MAT 331	Linear Algebra	3
GE Area C2 Letters Course		3
Additional GE in Area C1 or C2		3
GWAR satisfying course		3
<b>Hours</b>		<b>15</b>

Spring		Hours
GE Area D2 Global and Historical Perspectives		3
GE Area C3 Integrative Studies in the Humanities		3
MAT 447	Number Theory	3
Elective B - Select an upper division mathematical modeling or statistics elective with an advisor		3
Elective B - Select an upper division mathematical modeling or statistics elective with an advisor		3
<b>Hours</b>		<b>15</b>

### Fourth Year

Fall		Hours
GE Area E Lifelong Learning and Self-Development		3
GE Area B5 Integrative Studies in Natural Sciences		3
GE Area F Ethnic Studies		3
MAT 333	Abstract Algebra	3
MAT 401	Advanced Analysis I	3
<b>Hours</b>		<b>15</b>

Spring		Hours
MAT 403	Advanced Analysis II	3
MAT 421	Complex Analysis	3
CSC 121	Introduction to Computer Science and Programming I	4
GE Area D3 Integrative Studies in the Social Sciences		3

Elective to meet 120 units	3
<b>Hours</b>	<b>16</b>
<b>Total Hours</b>	<b>120</b>

## 2-Year Roadmap (transfer students)

### First Year

	Hours
<b>Fall</b>	
MAT 271 Foundations Of Higher Math	3
CSC 115 Introduction to Programming Concepts	3
GWAR satisfying course	3
GE Area B5 Integrative Studies in Natural Sciences	3
Elective to meet 120 units	2
<b>Hours</b>	<b>14</b>

<b>Spring</b>	
MAT 321 Probability and Statistics	3
MAT 331 Linear Algebra	3
MAT 447 Number Theory	3
CSC 121 Introduction to Computer Science and Programming I	4
GE Area C3 Integrative Studies in the Humanities	3
<b>Hours</b>	<b>16</b>

### Second Year

<b>Fall</b>	
MAT 333 Abstract Algebra	3
MAT 401 Advanced Analysis I	3
GE Area D3 Integrative Studies in the Social Sciences	3
Elective B - Upper division mathematical modeling and statistics approved by advisor	3
Elective to meet 120 units	3
<b>Hours</b>	<b>15</b>

<b>Spring</b>	
MAT 403 Advanced Analysis II	3
MAT 421 Complex Analysis	3
Elective to meet 120 units	3
Elective B - Select an upper division mathematical modeling or statistics elective with an advisor	3
Elective B - Select an upper division mathematical modeling or statistics elective with an advisor	3
<b>Hours</b>	<b>15</b>

<b>Total Hours</b>	<b>60</b>
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## Music

College of Arts and Humanities

Department of Music

### Program Description

The objectives of the music program:

1. Music students acquire the cultural knowledge and professional skills necessary for a career in music.
2. Each music student will demonstrate a broad knowledge of music history and theory as well as those within their area of specialization.
3. Each music student will demonstrate musicianship skills adequate to support the performance and pedagogy of music. These skills include: eartraining, keyboard proficiency, sight-reading, and vocal technique.
4. Music students will acquire hands-on experience with current music and media-related technologies within their area of specialization.
5. Students will demonstrate the skill set needed of professional music teachers for studios and schools.
6. Music students will perform music from the standard repertoire related to their major area of study as soloists and as ensemble members.

### Features

The Music Program is accredited by the National Association of Schools of Music (NASM). The Program is distinguished by the wide range of possible experiences it offers the student: performance in multiple genres, composition, conducting, music history, and music education.

The program also is characterized by a close interaction between students and faculty. The size and quality of the department offer all of the advantages of a small, private college at a state-supported university. Student recitals each semester give the faculty the opportunity to monitor each student's progress.

The Department of Music is housed in the La Corte Hall Building, which contains the newly renovated Marvin Laser Recital Hall; a large rehearsal room for orchestra, chorus, and band; a theory and history classroom; a state-of-the-art piano classroom; and a number of teaching studios/practice rooms. Additional practice rooms are available in the nearby North Cain Library. Musical events also are held in the 485-seat University Theatre as well as the Laser Recital Hall.

Financial aid and scholarships are available through the Office of Financial Aid. Several scholarships are specifically for music majors and require a special application to the Department of Music. Auditions for scholarships are usually held in the early spring. The Music Department Scholarship Fund provides support to students who excel in music performance. Mu Phi Epsilon, the Honorary Music Fraternity, offers scholarships to members on the basis of grade point average, music performance, and service to the department and fraternity. Additional scholarships include the Marshall Bialosky Endowment Scholarship, the New Century Scholarship for composition students, and the Rod Butler Memorial Scholarship.

## Academic Advisement

Students and prospective students who have chosen CSU Dominguez Hills for the study of music should seek academic advisement from a Department of Music faculty member at the earliest opportunity.

## Preparation

High school students preparing for university music study should take every opportunity to study and perform music. High school participation in band, orchestra, chorus, chamber ensembles, and musical theater productions is highly recommended. In addition, private piano lessons, as well as vocal or instrumental lessons, will help to provide the incoming student with the basic musical skills and performance competencies necessary for success in pursuing a university degree in music.

Community college transfer students preparing for university music study should be sure that their program is paralleling equivalent courses being offered to freshman and sophomore music majors at CSU Dominguez Hills.

## Graduation with Honors

Undergraduate students may be candidates for graduation with Honors in Music if they meet the following criteria:

1. A minimum of 36 units in residence at CSU Dominguez Hills.
2. A minimum grade point average of 3.5 in all courses used to satisfy the upper-division requirements for the Music major.

## Career Possibilities

Graduates currently are working in the following fields: music teaching; private music teaching in music stores, studios, and in the home; community college teaching; arts administration; symphony orchestra performance; opera performance; church music composition and performance; church choir direction; music buying and music store management; popular music and jazz performance; gospel music performance and composition. Some graduates have elected to continue postgraduate study in the areas of teaching, musicology, composition, performance, and conducting.

## Undergraduate Programs

### Bachelor

- Music, Bachelor of Arts (<https://catalog.csudh.edu/academics/music/music-ba/>)

### Minor

- Music Education, Minor (<https://catalog.csudh.edu/academics/music/music-minor/>)

## Graduate Programs

### Subject Matter Authorization

- Introductory and Specific Music, Subject Matter Authorization (<https://catalog.csudh.edu/academics/music/introductory-specific-music-subject-matter-authorization/>)

## Faculty

Scott Morris, Chair, Department of Music

Lynn Gary Atkins, Teodross Avery, Jonathon Grasse, Kathleen Janert, Stephen Moore, Oghenevwarho Ojakovo, Hal Weary

Division Office: LCH E-303, (310) 243-3543

## Emeriti Faculty

David Bradfield, Marshall Bialosky, Hanson Caldwell, David Champion, Sally Etcheto, Francis Steiner

## Courses

### **MUS 100. Concert Music. (1 Units)**

This course provides training and support for music majors at a beginner level through in-class performances, masterclasses, music journalism essays, attendance at various music performances and department camaraderie. Required attendance in-class and at approved music performances as determined by the Department of Music. May be repeated once. CR/NC grading. Restricted to majors.

Offered Fall, Spring, All terms

### **MUS 101. Introducing Music. (3 Units)**

The technique of listening to music. The elements of music, musical forms, and historical styles. Concert attendance and discussion will be an integral part. Satisfies a General Education Requirement. This course is restricted to 1st time Freshman going through the First Year Experience.

Offered Fall, Spring, All terms

### **MUS 105. Introduction to Musicianship. (1 Units)**

Prerequisite: Concurrent enrollment in MUS 101 or MUS 110 is recommended. An activity course in which students will begin exercises in music perception skills, pitch matching, identification of musical patterns, beginning ear-training and sight-singing drills. Preparation for the Musicianship Proficiency Exam. Repeatable course. Two hours activity per week.

Offered Fall, Spring

### **MUS 106. Musicianship Skills. (1 Units)**

Prerequisites: MUS 105, MUS 110, and MUS 111 are recommended. Ear training, sight-singing, rhythm, keyboard harmony, and melodic and rhythmic dictation. This course is meant to parallel work in MUS 112 and MUS 113. Repeatable course. Two hours of activity per week.

Offered Fall, Spring

### **MUS 110. Music Fundamentals. (3 Units)**

Prerequisite: Concurrent enrollment in MUS 109 is recommended. Music rudiments taught through reading, writing, harmonizing and creating songs. Includes principles of notation, key signatures, scales, intervals, triads and chord progressions. Satisfies a General Education Requirement.

Offered Fall

### **MUS 111. Intro. To Music Theory. (3 Units)**

Prerequisite: MUS 110 or placement test. Elements of music taught through reading, writing and harmonizing at the keyboard. Topics include key signatures, scales, intervals and basic harmony.

Offered Spring

### **MUS 112. Music Theory I. (3 Units)**

Musical theory emphasizing materials from the Common Practice Period (1700-1900). The vocabulary of diatonic scales and modes, chords and their relationships, phrase structure and cadences, harmonic progressions, non-harmonic tones and the technique of harmonization.

Offered Fall

### **MUS 113. Music Theory II. (3 Units)**

Prerequisites: MUS 112 and concurrent enrollment in MUS 106. Chromatic Harmony of the Common Practice Period. Harmonic analysis, secondary dominants, modulation, borrowed chords, augmented sixth chords, Neapolitan sixth chords, diminished sevenths, and ninth, eleventh and thirteenth chords.

Offered Spring

### **MUS 120. Beginning Voice Class. (1 Units)**

Prerequisite: Consent of instructor. Fundamental principles of singing. Posture, breath control, tone production, diction and performance techniques and styles. Repeatable course. Two hours of activity per week.

Offered Fall, Spring

### **MUS 122. Beginning Guitar Class. (1 Units)**

Prerequisite: Previous or concurrent enrollment in MUS 101 and MUS 110 or consent of instructor is recommended. Beginning instruction in guitar technique, single string melody, and chord positions. Repeatable course. Two hours of activity per week.

Offered Fall, Spring

### **MUS 160. Repertoire. (1 Units)**

Special topics vary by section and semester. See Class Schedule for title and prerequisites. Repeatable course.

Offered Fall, Spring

### **MUS 167. Latin American Regional Music Ensemble. (1 Units)**

Students primarily focus on the performance practices of Latina American musical traditions. Through participation in varying-sized ensembles, students will demonstrate their acquired knowledge and skills in a public performance.

Offered Fall, Spring

**MUS 168. Pep Band. (1 Units)**

Prepares students for performances at university and athletic events while providing them an opportunity to grow and improve in individual and ensemble performance.

Offered Fall, Spring

**MUS 169. Early Music Collegium. (1 Units)**

Students primarily focus on the performance of music of the Middle Ages, Renaissance, and Baroque periods. Students will receive instructions on historically informed performance practice and present a concert at the end of each semester.

**MUS 170. Chamber Music. (1 Units)**

Prerequisite: Consent of instructor. Study of music through small instrumental ensemble rehearsal and performance. Type of group may vary. See Class Schedule for title. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Fall, Spring

**MUS 171. Chamber Singers. (1 Units)**

Prerequisite: Consent of instructor. Study of music through small vocal ensemble rehearsal and performance. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Fall, Spring

**MUS 172. Jubilee Choir. (1 Units)**

Prerequisite: Consent of instructor. Study and performance of choral music of Afro-American culture. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Spring

**MUS 173. Jazz Ensemble. (1 Units)**

Prerequisite: Consent of instructor. Techniques of improvisation and a study and performance of instrumental jazz repertoire. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Fall, Spring

**MUS 175. Band. (1 Units)**

Prerequisite: Consent of instructor. A study of music through rehearsal and performance of concert band music. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Infrequent

**MUS 176. Orchestra. (1 Units)**

Prerequisite: Consent of instructor. A study of music through rehearsal and performance of music for symphony orchestra. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Fall, Spring

**MUS 177. Chorus. (1 Units)**

Prerequisite: Consent of instructor. A study of music through rehearsal and performance of music for chorus. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Fall, Spring

**MUS 178. Guitar Ensemble. (1 Units)**

Prerequisite: Consent of Instructor (audition). A study of music through rehearsal and performance of music for guitar ensemble. Public performance expected. Repeatable once at each level. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Infrequent

**MUS 179. Music Theatre Workshop. (1 Units)**

Prerequisites: Audition and consent of instructor. Study of roles and representative excerpts from opera, operetta, and musical comedy and the basic musical, dramatic and language technique of the musical theater. Performance of excerpts or complete musical theatrical works. Repeatable once.

Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Infrequent

**MUS 180. Individual Lessons. (1 Units)**

Prerequisites: Audition and consent of Department Chair and Instructor. Individual instruction in the student's major performance medium developing technique and repertoire. Individual one-half hour lesson times are arranged with the studio teacher. Public performance and jury evaluation expected. Lessons are available in voice, piano, harpsichord, organ, accordion, flute, oboe, clarinet, bassoon, saxophone, trumpet, horn, trombone, tuba, percussion, violin, viola, cello, string bass, harp, classical guitar, lute, commercial guitar, and electric bass. Primarily for performance majors. Instrument fee may be required. Repeatable course.

Offered Fall, Spring

**MUS 182. Introduction to Piano II. (1 Units)**

Prerequisite: MUS 181 or consent of instructor. Beginning instruction in keyboard technique. Repeatable course. Two hours of activity per week.

Offered Infrequent

**MUS 183. Piano I. (1 Units)**

Prerequisites: MUS 181 and MUS 182 are recommended. Intermediate instruction in keyboard techniques. Keyboard harmony, scales, chords and improvised accompaniments. Repeatable course. Two hours of activity per week.

Offered Fall

**MUS 184. Piano II. (1 Units)**

Prerequisites: MUS 183 or consent of instructor. Intermediate instruction in keyboard technique. Keyboard harmony, scales, chords and improvised accompaniments. Repeatable course. Two hours of activity per week.

Offered Spring

**MUS 195. Special Topics in Music. (1-3 Units)**

Prerequisite: Consent of instructor. Study and performance of choral music of Afro-American culture. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered As needed

**MUS 200. Concert Music II. (1 Units)**

Prerequisite: MUS 100. Provides training and support for music majors at a beginner-intermediate level through in-class performances, masterclasses, music journalism essays, attendance at various music performances, and department camaraderie. Required attendance in-class and at approved music performances as determined by the Department of Music. May be repeated once. CR/NC grading.

Offered Fall, Spring, All terms

**MUS 201. Music in Film: From the Silent Era to The Lord of the Rings. (3 Units)**

Prerequisite: MUS 101 is recommended. Studies film music over the past century and is open to all majors. Through readings, lectures, listening, and film viewing, students study music's continually changing relationship with film, composition styles, and musical and cultural diversity.

Offered Fall, Spring

**MUS 206. Advanced Musicianship Skills. (1 Units)**

Prerequisites: MUS 106 is required. MUS 112 and MUS 113 are recommended. Ear training, sight-singing, rhythm, keyboard harmony, and melodic, harmonic and rhythmic dictation. This course parallels work in MUS 310 and MUS 311 and provide preparation for the Musicianship Proficiency Exam. Repeatable course. Two hours of activity per week.

Offered Fall, Spring

**MUS 212. Advanced Music Theory I. (3 Units)**

Structural, contrapuntal and harmonic analysis of musical forms from the Medieval through the Classical periods. A study of the literature, instrumentation, and notation. Practice includes aural analysis and creative composition.

Offered Fall

**MUS 213. Advanced Music Theory II. (3 Units)**

Prerequisites: MUS 212 or consent of instructor is required; concurrent enrollment in MUS 206 and MUS 316 is recommended. Structural, harmonic and contrapuntal analysis of musical forms from the Romantic period through the Twentieth Century. A study of the literature, instrumentation and notation. Practice includes aural analysis and creative composition.

Offered All terms, Spring

**MUS 220. Intermediate Voice Class. (1 Units)**

Prerequisites: MUS 101, MUS 110 and MUS 120 or Consent of instructor. Singing with an emphasis on the vocal mechanism, use of the voice in ensemble singing and style in songs. Development of solo repertoire. Repeatable course. Two hours of activity per week.

Offered Fall, Spring

**MUS 222. Intermediate Guitar Class. (1 Units)**

Prerequisites: MUS 101, MUS 110 and MUS 122 or consent of instructor. Intermediate instruction in guitar technique, scales, chords and improvised accompaniments. Repeatable course. Two hours of activity per week.

Offered Fall, Spring

**MUS 223. Intermediate Flamenco Guitar. (1 Units)**

Provides students with an introduction to the concepts and techniques necessary to play flamenco guitar, including tonality/mode and the workings of compas (the rhythmic structures unique to flamenco) Repeatable course. Two hours of activity per week.

Offered Fall, Spring

**MUS 250. History of Rock. (3 Units)**

Prerequisite: MUS 101 is recommended. Studies the origins and movements of rock music including blues, R&B, soul, funk, and hip hop. Includes historical development, social contexts, associated styles and sub-genres, aesthetics, meanings, and music technology. Examines influential and innovative performers, songwriters, and producers.

Offered Fall, Spring

**MUS 260. Repertoire. (1 Units)**

Pre-requisite: MUS 160 (two semesters) is required; Co-requisite: MUS 280. Studio instruction in an applied area that complements and provides additional depth to that which is offered in MUS 280. In depth study of Etudes, scales, arpeggios, and supplemental solo repertoire.

Offered Fall, Spring, All terms



**MUS 267. Latin American Regional Music. (1 Units)**

Students primarily focus on the performance practices of Latina American musical traditions. Through participation in varying-sized ensembles, students will demonstrate their acquired knowledge and skills in a public performance.

Offered Fall, Spring

**MUS 268. Pep Band. (1 Units)**

Prepares students for performances at university and athletic events while providing them an opportunity to grow and improve in individual and ensemble performance.

Offered Fall, Spring

**MUS 269. Early Music Collegium. (1 Units)**

Students primarily focus on the performance of music of the Middle Ages, Renaissance, and Baroque periods. Students will receive instructions on historically informed performance practice and present a concert at the end of each semester.

Offered All terms

**MUS 270. Chamber Music. (1 Units)**

Prerequisite: Consent of instructor. Music study through small instrumental ensemble rehearsal and performance. Type of group may vary. See Class Schedule for title. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Fall, Spring

**MUS 271. Chamber Singers. (1 Units)**

Prerequisite: Consent of instructor. Study of music through small vocal ensemble rehearsal and performance. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Fall, Spring, All terms

**MUS 272. Jubilee Choir. (1 Units)**

Prerequisite: MUS 110 or consent of instructor. An introduction to music fundamentals and techniques for dance accompaniment. Two hours of activity per week.

Offered Spring

**MUS 273. Jazz Ensemble. (1 Units)**

Prerequisite: Consent of instructor. Techniques of improvisation and a study and performance of instrumental jazz repertoire. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Fall, Spring, All terms

**MUS 275. Band. (1 Units)**

Prerequisite: Consent of instructor. Rehearsal and performance of concert band music. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Fall, Spring

**MUS 276. Orchestra. (1 Units)**

Prerequisite: Consent of instructor. Rehearsal and performance of music for symphony orchestra. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Fall, Spring

**MUS 277. Chorus. (1 Units)**

Prerequisite: Consent of instructor. Rehearsal and performance of music for chorus. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Fall, Spring

**MUS 278. Guitar Ensemble. (1 Units)**

Prerequisite: Consent of Instructor (audition). A study of music through rehearsal and performance of music for guitar ensemble. Public performance expected. Repeatable once at each level. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Infrequent

**MUS 279. Music Theatre Workshop. (1 Units)**

Prerequisites: Audition and consent of instructor. Study of roles and representative excerpts from opera, operetta, and musical comedy and the basic musical, dramatic and language technique of the musical theater. Performance of excerpts and complete musical theatrical works. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Infrequent

**MUS 280. Individual Lessons. (1 Units)**

Prerequisites: Audition and consent of department chair and instructor. Individual instruction in the student's major performance medium developing techniques and repertoire at a beginner-intermediate level. Individual one hour lesson times are arranged with the studio teacher. Public performance and jury evaluation expected. Lessons are available in voice, piano, harpsichord, organ, accordion, flute, oboe, clarinet, bassoon, saxophone, trumpet, French horn, Trombone, euphonium, tuba, percussion, violin, viola, cello, string bass, harp, classical guitar, lute, commercial guitar, and electric bass. Primarily for music majors. Instrument fee may be required. Repeatable course.

Offered Fall, Spring

**MUS 283. Piano III. (1 Units)**

Prerequisite: MUS 184 is required. Basic principles of the early childhood music teaching methods developed by Carl Orff. Music education through movement, singing, speech and drama and use of Orff musical instruments. Two hours of lecture and two hours of activity per week.  
Offered Fall

**MUS 284. Piano IV. (1 Units)**

Prerequisites: MUS 283 or consent of instructor. Advanced instruction in keyboard technique. Development of solo repertoire and preparation for the Piano Proficiency Exam. Repeatable course. Two hours of activity per week.  
Offered Spring

**MUS 290. Music Industry I: Survey of the Music Industry. (3 Units)**

Introduces students to careers in the music industry and enhances their ability to recognize how these professions affect and impact our daily lives. Course examines the many different career fields that make the music industry profitable and progressive.  
Offered Fall, Spring

**MUS 294. Independent Study. (1-3 Units)**

Prerequisites: Consent of instructor and department chair. The student investigates a scholarly topic or undertakes directed research or a creative project with the assistance of a Music faculty member. Repeatable course.  
Offered Infrequent

**MUS 295. Special Studies In Music. (3 Units)**

Special topics vary by section and semester. See Class Schedule for title and prerequisites. Repeatable course.  
Offered Infrequent, All terms

**MUS 300. Concert Music III. (1 Units)**

Prerequisite: MUS 200 is required. Provides training and support for music majors at an intermediate level through in-class performances, master classes, music journalism essays, attendance at various music performances, and department camaraderie. Required attendance in class and at approved music performances as determined by the Department of Music Repeatable once. CR/NC grading.  
Offered Fall, Spring

**MUS 301. Music In World Cultures. (3 Units)**

Prerequisite: MUS 101 or 110 or consent of instructor. Survey of non-Western cultures from a musical point of view. Using familiar folk and popular music for comparison, students will be guided into new listening experiences, develop a vocabulary for discussing world music, and gain an appreciation of cultural pluralism.  
Offered Fall, Spring

**MUS 302. African American Music. (3 Units)**

Introduction to the music of African Americans from roots in African cultural practice to current day. Musical genres include blues, spirituals, gospel, jazz, classical, R&B, soul, funk, hip-hop, rap, etc. The course is designed for music and non-music majors.  
Offered Spring

**MUS 305A. Music For Dance. (1 Units)**

Prerequisites: MUS 101 and MUS 110 or consent of instructor. Survey and analysis of music suitable for children. History and philosophy of American music education emphasizing influences of European systems of Kodaly, Dalcroze, and Orff. Two hours of lecture and two hours of activity per week.  
Offered Infrequent

**MUS 308. Popular & Jazz Harmony. (3 Units)**

Prerequisite: MUS 210 or consent of instructor. Analysis of chords and scale patterns, chord symbols, and chord substitutions in popular music and jazz.  
Offered Fall

**MUS 312. The Jazz Age. (3 Units)**

Explores the social, cultural, and historical turbulence of the 1920s with a focus on the ways jazz aesthetics in music, literature, and the arts influenced and reflected new ways of thinking about American identity.  
Offered Fall, Spring

**MUS 315. Counterpoint. (3 Units)**

Prerequisite: MUS 211 or consent of instructor. Counterpoint as a linear mode of compositional technique in Western music. Modal, tonal and post-tonal practices.  
Offered Spring

**MUS 316. Instrumentation. (3 Units)**

Prerequisite: MUS 211 or MUS 308. Acoustical and musical characteristics of all the major orchestral and band instruments. Written assignments will include transcriptions for combination of instruments both as families and mixed ensembles.  
Offered Fall, All terms

**MUS 320. Advanced Voice Class. (1 Units)**

Prerequisites: MUS 101, MUS 110 and MUS 220 or consent of instructor. Singing with emphasis on vocal mechanism, use of the voice in ensemble singing, and style in songs. Development of solo repertoire in foreign languages. Repeatable course. Two hours of activity per week.  
Offered Fall, Spring

**MUS 322. Advanced Guitar Class. (1 Units)**

Prerequisites: MUS 101, MUS 110 and MUS 222 or consent of instructor. Advanced instruction in guitar technique. Development of solo repertoire. Repeatable course. Two hours of activity per week.  
Offered Fall, Spring

**MUS 323. Advanced Flamenco Guitar. (1 Units)**

Prerequisite: Mus 223 required Course follows up on the concepts and techniques introduced in MUS 223, allowing students to move closer to mastery of flamenco guitar. Repeatable course. Two hours of activity per week  
Offered Fall, Spring

**MUS 325. Instrumental Conducting. (3 Units)**

Prerequisite: MUS 310 or consent of instructor. An introduction to the basic techniques of conducting both instrumental groups, score reading, baton technique and fundamentals of interpretation. Repeatable course. Two hours of lecture and two hours of activity per week.  
Offered Spring

**MUS 326. Choral Conducting. (3 Units)**

Prerequisite: MUS 212 or consent of instructor is required. An introduction to the basic techniques of conducting choral groups and the international phonetic alphabet (IPA). Score reading, hand technique, study of diction, pronunciation, and fundamentals of interpretation. Repeatable course. Two hours of lecture and two hours of activity per week.  
Offered Fall

**MUS 333. Foundations in Music Education. (3 Units)**

Prerequisite: MUS 180 and MUS 280; In order to begin the hours for fieldwork in this course, you will need a valid Certificate of Clearance (fingerprints) and proof of a negative TB (within 4 months of the fieldwork course beginning). For information on submitting these documents, contact the Center for Teaching Careers. A survey of the leading historical, technological, and pedagogical approaches to music education in the United States. This course contains an observation component in the field.  
Offered Infrequent

**MUS 340. Music For Children. (3 Units)**

Prerequisites: MUS 282 or consent of instructor.  
Offered Fall, Spring, All terms

**MUS 345. Global Popular Music: Identity and Social Change. (3 Units)**

Explores popular music and social change in Africa, Asia, South Asia, Southeast Asia, and Latin America. Students will consider social development, modernity, and political movements in relation to music and text as resistance and representing social change.  
Offered Fall

**MUS 360. Repertoire. (1 Units)**

Pre-requisite: MUS 260 (two semesters); Co-requisite: MUS 380. Studio instruction in an applied area that complements and provides additional depth to that which is offered in MUS 380. In depth study of Etudes, scales, arpeggios, and supplemental repertoire. Repeatable for credit.  
Offered Fall, Spring

**MUS 367. Latin American Regional Music Ensemble. (1 Units)**

Students primarily focus on the performance practices of Latina American musical traditions. Through participation in varying-sized ensembles, students will demonstrate their acquired knowledge and skills in a public performance.  
Offered Fall, Spring

**MUS 368. Pep Band. (1 Units)**

Prepares students for performances at university and athletic events while providing them an opportunity to grow and improve in individual and ensemble performance.  
Offered Fall, Spring

**MUS 369. Early Music Collegium. (1 Units)**

Students primarily focus on the performance of music of the Middle Ages, Renaissance, and Baroque periods. Students will receive instructions on historically informed performance practice and present a concert at the end of each semester.  
Offered All terms

**MUS 370. Chamber Music. (1 Units)**

Prerequisite: Consent of instructor. Study of music through small instrumental ensemble rehearsal and performance. Type of group may vary by section and semester. See Class Schedule for title. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.  
Offered Fall, Spring

**MUS 371. Chamber Singers. (1 Units)**

Prerequisite: Consent of instructor. Study of music through small vocal ensemble rehearsal and performance. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.  
Offered Fall, Spring, All terms

**MUS 372. Jubilee Choir. (1 Units)**

Prerequisite: Consent of instructor. Study and performance of choral music of Afro-American culture. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Spring

**MUS 373. Jazz Ensemble. (1 Units)**

Prerequisite: Consent of instructor. Techniques of improvisation and a study of performance of instrumental jazz repertoire. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Fall, Spring

**MUS 375. Band. (1 Units)**

Offered Infrequent

**MUS 376. Orchestra. (1 Units)**

Prerequisite: Consent of instructor. A study of music through rehearsal and performance of music for symphony orchestra. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Fall, Spring, All terms

**MUS 377. Chorus. (1 Units)**

Prerequisite: Consent of instructor. A study of music through rehearsal and performance of music for chorus. Public performances expected. Repeatable once. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Fall, Spring

**MUS 378. Guitar Ensemble. (1 Units)**

Prerequisite: Consent of Instructor (audition). A study of music through rehearsal and performance of music for guitar ensemble. Public performance expected. Repeatable once at each level. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Infrequent

**MUS 379A. Music Theatre Workshop. (1 Units)**

Prerequisites: Audition and consent of instructor. Study of roles and representative excerpts from opera, operetta, and musical comedy and the basic musical, dramatic and language technique of the musical theater. Performance of excerpts and complete musical theatrical works. Repeatable once. Three hours of activity per week plus extras rehearsal and performance times to be arranged.

Offered Infrequent

**MUS 380. Individual Lessons. (1 Units)**

Prerequisites: Audition and consent of department chair and instructor. individual instruction in the student's major performance medium developing technique and repertoire at an intermediate level. Individual one hour lesson times are arranged with the studio teacher. Public performance and jury evaluation expected. Lessons are available in voice, piano, harpsichord, organ, accordion, flute, oboe, clarinet, bassoon, saxophone, trumpet, French horn, trombone, euphonium, tuba, percussion, violin, viola, cello, string bass, harp, classic guitar, lute, commercial guitar, and electric bass. Primarily for music majors. Instrument fee may be required. Repeatable course.

Offered Fall, Spring, All terms

**MUS 382. Advanced Piano II. (1 Units)**

Prerequisites: MUS 381 or consent of instructor. Advanced instruction in keyboard technique. Development of solo repertoire and preparation for the Piano Proficiency Exam. Repeatable course. Two hours of activity per week.

Offered Spring, All terms

**MUS 385. Medieval and Renaissance Music. (3 Units)**

Prerequisites: MUS 101 and MUS 110 or consent of instructor. Music from the Medieval period through the Renaissance. Gregorian chant, Leonin, Perotin, Machaut, Dufay, Ockeghem, Josquin, Gombert, Willaert, Palestrina, Lasso, Gabrielli and other composers. Study of styles of music to uncover the various musical, aesthetic, and social determinants underlying the musical literature.

Offered Infrequent, All terms

**MUS 386. Music History I: Medieval to Renaissance. (3 Units)**

Prerequisites: MUS 101 and MUS 110 or consent of instructor. This course covers music from the Medieval through the Renaissance period. The study of styles of music to engage various musical, aesthetic, and social determinants underlying the musical literature..

Offered Spring

**MUS 390. Music Industry II: Music Marketing, Media and Management. (3 Units)**

Prerequisite: MUS 290 is required. Provides students with an understanding of the inner and outer-workings of artist and concert management, nonprofit arts management, arts enterprise management, advertising management, digital marketing, public relations, branding, merchandising, endorsements, sponsorships, promotion and touring, and big data.

Offered Fall, Spring

**MUS 395. Special Studies/Activities In Music. (1-3 Units)**

Offered Infrequent

**MUS 400. Concert Music IV. (1 Units)**

Prerequisite: MUS 300 is required. Provides training and support for music majors as an advanced level through in-class performances, masterclasses, music journalism essays, attendance at various music performances, and department camaraderie. Required attendance in-class and at approved music performances as determined by the Department of Music. May be repeated once. CR/NC grading.

Offered Fall, Spring

**MUS 408. Advanced Songwriting. (3 Units)**

Prerequisite: MUS 308 or consent of instructor. Original songs created by students will be performed, discussed, and constructively criticized. Well-known popular, show, country, rock and R and B songs will be studied as models of melodic, harmonic, rhythmic, structural and poetic composition. Field trips and guest lecturers from the industry. Publishing and copyright procedures.

Offered Infrequent

**MUS 415. Composition and Arranging: Art Music. (3 Units)**

Prerequisite: MUS 311 or consent of instructor. Composition and arranging of art music utilizing a variety of resources, from traditional instruments and voice to new instruments, electronics and computer. Repeatable course.

Offered Spring

**MUS 416. Composition and Arranging: Popular and Jazz. (3 Units)**

Prerequisite: MUS 308 or consent of instructor. Composition and arranging for popular and jazz ensembles with an emphasis on contemporary styles. Repeatable course.

Offered Spring

**MUS 421. Instrumental Methods: MUS ED. (3 Units)**

Required Co-requisite: MUS 333 Intensive preparation for prospective educators with focus on teaching instrumental music in schools (elementary, middle, and high school). Includes examination of appropriate literature, classroom management, and teaching pedagogy. Course contains a field experience component.

Offered Infrequent

**MUS 433. Contemporary Pedagogy. (3 Units)**

Prerequisites: MUS 333 and MUS 421 required. In order to begin the hours for fieldwork in this course, you will need a valid Certificate of Clearance (fingerprints) and proof of a negative TB (within 4 months of the fieldwork course beginning). For information on submitting these documents, contact the Center for Teaching Careers. Study of the contemporary principles, techniques, and procedures effective for small and large group music instruction. Emphasis on the development of philosophy, methodology, and teaching strategies. Course contains a field experience component.

Offered Infrequent

**MUS 440. Intro To Orff Schulwerk. (3 Units)**

Prerequisite: Consent of instructor. A study of music through rehearsal and performance of music for symphony orchestra. Public performances expected. Repeatable course. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Infrequent

**MUS 441. Marching Band Techniques. (1 Units)**

Pedagogy, management and administration of a marching band program. Content will address marching percussion, marching and maneuvering, and attached units.

Offered As needed

**MUS 445. String Instruments. (1 Units)**

Prerequisite: MUS 110 or consent of instructor. Introduction to the principles and literature of string instruments, with emphasis on skills necessary for future teachers of instrumental ensembles. Repeatable course. Two hours of activity per week. Instrument fee may be required.

Offered Spring

**MUS 446. Woodwind Instruments. (1 Units)**

Prerequisites: MUS 110 or consent of instructor. Instrument fee may be required. Introduction to the principles and literature of woodwind instruments with emphasis on skills necessary for future teachers of instrumental ensembles. Repeatable course. Two hours of activity per week.

Offered Fall

**MUS 447. Brass Instruments. (1 Units)**

Prerequisite: MUS 110 or consent of instructor. Introduction to the principles and literature of brass instruments with emphasis on skills, necessary for future teachers of instrumental performance times to be arranged.

Offered Spring

**MUS 448. Percussion Instruments. (1 Units)**

Prerequisite: MUS 110 or consent of instructor. Introduction to the principles and literature of percussion instruments with emphasis on skills necessary for future teachers of instrumental ensembles. Repeatable course. Two hours of activity per week. Instrument fee may be required.

Offered Fall

**MUS 449. Vocal & Choral Techniques. (1 Units)**

Prerequisites: MUS 106 or consent of instructor is required. Introduction to the principles and literature of vocal and choral instruction, with emphasis on skills necessary for future teachers of choral ensembles. Repeatable course. Two hours of activity per week.

Offered Spring

**MUS 460. Repertoire. (1 Units)**

Pre-requisite: MUS 360(two semesters); Co-requisite: MUS 480. Studio instruction in an applied area that complements and provides additional depth to that which is offered in MUS 380. In depth study of Etudes, scales, arpeggios, and supplemental repertoire. Repeatable for credit.

Offered Fall, Spring

**MUS 467. Latin American Regional Music Ensemble. (1 Units)**

Students primarily focus on the performance practices of Latina American musical traditions. Through participation in varying-sized ensembles, students will demonstrate their acquired knowledge and skills in a public performance.

Offered Fall, Spring

**MUS 468. Pep Band. (1 Units)**

Prepares students for performances at university and athletic events while providing them an opportunity to grow and improve in individual and ensemble performance.

Offered Fall, Spring

**MUS 469. Early Music Collegium. (1 Units)**

Students primarily focus on the performance of music of the Middle Ages, Renaissance, and Baroque periods. Students will receive instructions on historically informed performance practice and present a concert at the end of each semester.

Offered Fall, Spring

**MUS 470. Chamber Music. (1 Units)**

Prerequisite: Consent of instructor. Study of music through small instrumental ensemble rehearsal and performance. Type of group may vary by section and semester. See Class Schedule for title. Public performances expected. Repeatable course. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Fall, Spring

**MUS 471. Chamber Singers. (1 Units)**

Prerequisite: Consent of instructor. Study of music through small vocal ensemble rehearsal and performance. Public performances expected. Repeatable course. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Fall, Spring

**MUS 472. Jubilee Choir. (1 Units)**

Prerequisite: Consent of instructor. Study and performance of choral music of Afro-American culture. Public performances expected. Repeatable course. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Spring

**MUS 473. Jazz Ensemble. (1 Units)**

Prerequisite: Consent of instructor. Techniques of improvisation and a study and performance of instrumental jazz repertoire. Public performances expected. Repeatable course. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Fall, Spring

**MUS 475. Band. (1 Units)**

Offered Fall, Spring

**MUS 476. Orchestra. (1 Units)**

Prerequisites: Consent of department chair and instructor. Individual instruction and guidance in the technique of conducting instrumental and vocal ensembles. Individual lesson times are arranged with the instructor. Public performance and jury evaluation expected. Primarily for conducting majors. Repeatable course.

Offered Fall, Spring

**MUS 477. Chorus. (1 Units)**

Prerequisite: Consent of instructor. A study of music through rehearsal and performance of music for chorus. Public performances expected. Repeatable course. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Fall, Spring

**MUS 478. Guitar Ensemble. (1 Units)**

Prerequisite: Consent of Instructor (audition). A study of music through rehearsal and performance of music for guitar ensemble. Public performance expected. Repeatable once at each level. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Infrequent

**MUS 479A. Music Theatre Workshop. (1 Units)**

Prerequisites: Audition and consent of instructor. Study of roles and representative excerpts from opera, operetta, and musical comedy and the basic musical, dramatic and language technique of the musical theater. Performance of excerpts and complete musical theatrical works. Repeatable course. Three hours of activity per week plus extra rehearsal and performance times to be arranged.

Offered Infrequent

**MUS 480. Individual Lessons. (1 Units)**

Prerequisites: Audition and consent of department chair and instructor. Individual instruction in the student's major performance medium developing technique and repertoire at an advance level. Individual one hour lesson times are arranged with the studio teacher. Public performance and jury evaluation expected. Lessons are available in voice, piano, harpsichord, organ, accordion, flute, oboe, clarinet, bassoon, saxophone, trumpet, French horn, trombone, euphonium, tuba, percussion, violin, viola, cello, string bass, harp, classical guitar, lute, commercial guitar and electric bass. Primarily for music majors. Instrument fee may be required. Repeatable course.

Offered Fall, Spring

**MUS 481S. Ind Lessons-Comp & Arrang. (1 Units)**

Prerequisites: Consent of department chair and instructor. Individual instruction and guidance with music composition and arranging projects. Individual lesson times are arranged with the instructor. Jury evaluation expected. Primarily for composition majors. Repeatable course.

Offered Fall, Spring

**MUS 483A. Interpretation Of Music. (1 Units)**

Prerequisite: Concurrent enrollment in upper division individual lessons or consent of instructor. Exploration of a wide variety of topics relating to the interpretation of music from various stylistic periods. Recorded examples and student performances will be analyzed and compared with particular attention given to historic authenticity and contemporary practices. Repeatable course. Two hours of activity per week.

Offered Spring

**MUS 485. Music History II: Baroque to Romantic. (3 Units)**

Prerequisites: MUS 106 and MUS 112 or consent of instructor. Covers music from the Baroque through the Romantic period. The study of styles of music to engage various musical, aesthetic, and social determinants underlying the musical literature

Offered Fall

**MUS 486. Music History III: 1880 to Contemporary. (3 Units)**

Prerequisites: Two semesters of MUS 106 and 113 or consent of instructor. A critical analysis of music from the late Romantic through to the present. Students will focus on disciplinary writing on several styles of music to uncover the various technical, aesthetic, and social determinants underlying the musical literature. Students will actively refine their academic writing in music for diverse audiences, including writing for other musicians and the general public. Restricted to majors. A grade of C or better in this course fulfills the GVAR requirement for all Music majors and minors.

Offered Spring

**MUS 493. Recital. (1 Units)**

Prerequisite: Concurrent enrollment in MUS 480 or MUS 580. Preparation and performance of a full or half music recital. Repeatable course.

Offered Fall, Spring

**MUS 494. Independent Study. (1-3 Units)**

Prerequisites: Consent of instructor and department chair. In consultation with a Music faculty member, the student investigates a scholarly topic or undertakes a creative project. Repeatable course.

Offered Fall, Spring

**MUS 495. Special Studies In Music. (1-3 Units)**

Special topics vary by section and semester. See Class Schedule for title and prerequisites. Repeatable course.

Offered Fall, Spring

**MUS 496. Music Internship. (1-3 Units)**

Prerequisite: Consent of department chair. Students participate in an off-campus internship with an approved employer. Provides for an integration of academic study and related work experience. CR/NC grading. Repeatable course.

Offered Fall, Spring

**MUS 499. Senior Project. (3 Units)**

Prerequisites: Consent of instructor and department chair. In consultation with a Music faculty member, student undertakes a major project which may be one of the following: original research and thesis on a given music history or theoretical topic, a creative project such as an original composition or a full recital with supporting scholarly program notes.

Offered Fall, Spring

**MUS 580. Performance, Performance Practices and Repertoire. (2 Units)**

Prerequisite: Audition and consent of department chair and instructor. Ensembles. Repeatable course. Two hours of activity per week. Instrument fee may be required.

Offered Infrequent

**MUS 581S. Ind Lessons-Comp & Arrang. (1 Units)**

Prerequisites: Consent of department chair and instructor. Individual instruction and guidance with music composition and arranging projects. Individual lesson times are arranged with the instructor. Jury evaluation expected. Primarily for composition majors. Repeatable course.

Offered Infrequent

**MUS 582S. Indiv Lessons-Conducting. (1 Units)**

Prerequisites: NCR 290, NCR 390, and NCR 405. Preparation for application of knowledge of negotiation, conflict resolution, and peacebuilding in school settings. Explores pedagogies appropriate for the development of conflict resolution skills and techniques as basis for both elective and prescriptive training modules.

Offered Infrequent

**MUS 593S. Recital. (1 Units)**

Prerequisite: Concurrent enrollment in MUS 580. Preparation and performance of a full or half music recital. Repeatable course.

Offered Infrequent

**MUS 594. Independent Study. (1-3 Units)**

Prerequisites: Consent of instructor and department chair. In consultation with a Music faculty member, the student investigates a scholarly topic or undertakes a creative project. Repeatable

Offered Infrequent

# Bachelor of Music

## Program Description & Features

The music program offers a Bachelor of Arts in Music with options in Music Liberal Arts and Music Education and a Bachelor of Music with areas of emphasis in Instrumental Performance, Vocal Performance, Composition, and Contemporary Music. Each of these options and degrees share a common core that includes study in music theory, music history, musicianship, individual lessons, and ensemble work. The Music Program is accredited by the National Association of Schools of Music (NASM).

The Program is distinguished by the wide range of possible experiences it offers the student: performance in multiple genres, composition, conducting, music history, music education, and world music.

The program is characterized by a close interaction between students and faculty. The size and quality of the department offers all the advantages of a small, private college at a state supported university. Student recitals each semester give the faculty the opportunity to monitor the progress of each student. Students are encouraged to attend concerts and recitals on campus and in the community. Los Angeles has a number of outstanding symphony orchestras, chamber orchestras, and musical theater.

The Department of Music is housed in La Corte Hall, which contains the Marvin Laser Recital Hall; an audio recording and music synthesis complex of studios; a large rehearsal room for orchestra, chorus, and band; theory and history classroom; a state-of-the-art piano classroom; and a number of teaching studios/practice rooms. Additional practice rooms are available on the first floor of the nearby North Cain Library. Musical events also are held in the 485-seat University Theatre.

Financial aid and scholarships are available through the Office of Financial Aid. Several scholarships are specifically for music majors and require special application to the Department of Music. Auditions for scholarships are usually held in the early spring semester. The Music Department Scholarship Fund provides support to students who excel in music performance. Mu Phi Epsilon, the Honorary Music Fraternity, offers scholarships to members on the basis of grade point average, music performance, and service to the department and fraternity. Additional scholarships include the Marshall Bialosky Endowment Scholarship, the New Century Scholarship for composition students, and the Rod Butler Memorial Scholarship.

### Admission Requirements

A placement audition is required for placement into the Music Liberal Arts option, Music Education option, or Bachelor of Music degree at California State University, Dominguez Hills. During the audition students will also be considered for scholarship awards. If a student is unable to attend the scheduled audition date, they are asked to contact the Department of Music in order to schedule an individual audition.

### Bachelor of Music (Instrumental Performance, Vocal Performance, Composition, and Contemporary Music)

The Bachelor of Music degree is a professional degree that prepares students for a variety of diverse careers in music. According to the National Association of Schools of Music, the national accrediting organization, the B.M. is a professional degree in which students are "expected to develop the knowledge, skills, concepts, and sensitivities essential to the professional life of the musician. To fulfill various professional responsibilities, the musician must exhibit not only technical competence, but also broad knowledge of music and music literature, the ability to integrate musical knowledge and skills sensitive to musical styles, and an insight into the role of music in intellectual and cultural life".

### Bachelor of Arts (Music Education)

This degree option is intended for students who wish to prepare for a career as a public-school music educator in grades K-12. The degree prepares students to enter into the credential program offered by the university's College of Education (COE). Students who complete the Music Education option are granted a single-subject waiver in music, approved by the CCTC (California Commission of Teacher Credentialing), which allows them to bypass the CSET exam.



## Bachelor of Arts (Music Liberal Arts)

This degree option is intended for students who wish to pursue a liberal arts degree with a concentration in music, but who don't wish to prepare for a career as a professional performer or educator.

## Bachelor of Music

### Total Course Requirements for the Bachelor's Degree

See the "Requirements for the Bachelor's Degree (<https://catalog.csudh.edu/general-information/baccalaureate-degrees-undergraduate-studies/>)" in the University Catalog for complete details on general degree requirements. A minimum of 40 units, including those required for the major, must be upper division.

### Elective Requirements

Completion of elective courses (beyond the requirements listed below) to reach a total of a minimum of 120 units.

### General Education Requirements (49 units)

See the "General Education (p. 59)" requirements in the University Catalog or the Class Schedule for the most current information on General Education requirements and course offerings.

### Graduation Writing Assessment Requirement

See the "Graduation Writing Assessment Requirement (<https://catalog.csudh.edu/general-information/baccalaureate-degrees-undergraduate-studies/gwar-certifying-courses/>)" in the University Catalog.

## Major Requirements (65-71 units)

Students who major in Music must select one of the following degree options or areas of study: B.A. in Music Liberal Arts (72 units in the major), B.A. in Music Education (71 units in the major), B.M. in Instrumental Performance (65 units in the major), B.M. in Vocal Performance (66 units in the major), B.M. in Composition (70 units in the major), or B.M. in Contemporary Music (71 units in the major). The following courses, or their approved transfer equivalents, are recommended or required of all candidates for this degree.

### Core Requirements (56 units)

#### Lower division required courses (30 units)

Code	Title	Hours
MUS 106	Musicianship Skills <sup>1</sup>	1
MUS 112	Music Theory I	3
MUS 113	Music Theory II	3
MUS 122	Beginning Guitar Class	1
MUS 180	Individual Lessons <sup>2</sup>	1
MUS 183	Piano I	1
MUS 184	Piano II	1
MUS 206	Advanced Musicianship Skills <sup>3</sup>	1
MUS 212	Advanced Music Theory I	3
MUS 213	Advanced Music Theory II	3
MUS 280	Individual Lessons <sup>4</sup>	1
MUS 290	Music Industry I: Survey of the Music Industry	3
Lower Division Ensemble <sup>5</sup>		4

<sup>1</sup> Students must complete two semesters of MUS 106.

<sup>2</sup> Students must complete two semesters of MUS 180.

<sup>3</sup> Students must complete two semesters of MUS 206.

<sup>4</sup> Students must complete two semesters of MUS 280.

#### Upper Division Required Courses (26 units)

Code	Title	Hours
MUS 301	Music In World Cultures	3
MUS 316	Instrumentation	3
MUS 380	Individual Lessons <sup>1</sup>	1
MUS 386	Music History I: Medieval to Renaissance	3
MUS 390	Music Industry II: Music Marketing, Media and Management	3
MUS 480	Individual Lessons	1

MUS 485	Music History II: Baroque to Romantic <sup>2</sup>	3
MUS 486	Music History III: 1880 to Contemporary	3
Upper Division Ensemble		4

<sup>1</sup> Students must complete two semesters of MUS 380.

<sup>2</sup> Students must complete two semesters of MUS 480.

**NOTE:** MUS 112 fulfills General Education Area C2 for Music majors. MUS 301 fulfills General Education Area C1 for Music majors. MUS 486 fulfills General Education Area C3 and GWAR for Music majors.

## Additional Requirements for All Music Majors

**Ensemble Requirement:** Students must participate in one or more of the University's performing ensembles during each semester of full-time residency. All students are required to participate in an ensemble during each semester that they take Individual Lessons. This means that if students take longer than four years to complete their degree, this requirement may raise the number of units that a student needs to graduate.

### Area of Study: Instrumental Performance

#### A. Common Core Requirements (56 units)

#### B. Upper Division Required Courses (9 units)

Code	Title	Hours
MUS 325	Instrumental Conducting	3
MUS 493	Recital	1
Upper Division Ensemble <sup>1</sup>		4

<sup>1</sup> Students must complete four (4) semesters of upper division ensemble in addition to the core requirement.

#### C. Reparatory Requirements in Instrumental Performance Area

Before being approved for graduation, students must perform at a certain level of advancement and proficiency. A detailed list of representative repertory and technical requirements is available from the Department of Music website.

### Area of Study: Vocal Performance (66 units)

#### A. Common Core Requirements (56 units)

#### B. Upper Division Required Courses (10 units)

Code	Title	Hours
MUS 326	Choral Conducting	3
MUS 449	Vocal & Choral Techniques	1
MUS 493	Recital <sup>1</sup>	1
Upper Division Ensemble <sup>2</sup>		4

<sup>1</sup> Students must complete two semesters of MUS 493.

<sup>2</sup> Students must complete four (4) semesters of upper division ensemble in addition to the core requirement.

#### C. Reparatory Requirements in Vocal Performance Area

Before being approved for graduation, students must perform at a certain level of advancement and proficiency. A detailed list of representative repertory and technical requirements is available from the Department of Music website.

### Area of Study: Composition (70 units)

#### A. Common Core Requirements (56 units)

#### B. Upper Division Required Courses (14 units)

Code	Title	Hours
MUS 308	Popular & Jazz Harmony	3
MUS 325	Instrumental Conducting	3
or MUS 326	Choral Conducting	
MUS 408	Advanced Songwriting	3
MUS 416	Composition and Arranging: Popular and Jazz	3
MUS 493	Recital <sup>1</sup>	1

<sup>1</sup> Students must complete two semesters of MUS 493.

### C. Reparatory Requirements in Composition Area

Before being approved for graduation, students must perform at a certain level of advancement and proficiency. A detailed list of representative repertory and technical requirements is available from the Department of Music website.

### Area of Study: Contemporary Music (71 units)

#### A. Common Core Requirements (56 units)

#### B. Upper Division Required Courses (15 units)

Code	Title	Hours
MUS 308	Popular & Jazz Harmony	3
MUS 325 or MUS 326	Instrumental Conducting Choral Conducting	3
MUS 408	Advanced Songwriting	3
MUS 416	Composition and Arranging: Popular and Jazz	3
MUS 493	Recital <sup>1</sup>	1
MUS 496	Music Internship	1-3

<sup>1</sup> Students must complete two semesters of MUS 493.

### C. Reparatory Requirements in Major Performance Area

Before being approved for graduation, students must perform at a certain level of advancement and proficiency. A detailed list of representative repertory and technical requirements is available from the Department of Music website.

## 4-year Roadmap

#### First Year

Fall	Hours
Lower Division Ensemble (MUS 17X) <sup>1</sup>	1
MUS 180 Individual Lessons	1
MUS 183 Piano I	1
GE Area A1 Oral Communication	3
GE Area D1 Perspectives on Individuals, Groups, and Society	3
GE Area E Lifelong Learning & Self-Development	3
GE Area B1 Physical Science	3
<b>Hours</b>	<b>15</b>

Spring	Hours
HIS 101 History Of United States	3
MUS 122 Beginning Guitar Class	1
Lower Division Ensemble (MUS 17X) <sup>1</sup>	1
Lower Division Ensemble (MUS 17X) <sup>2</sup>	1
MUS 180 Individual Lessons	1
MUS 184 Piano II	1
GE Area B3 Natrual Sciences in Science Laboratory	1
Area F Ethnic Studies	3
GE Area A2 Written Communication	3
<b>Hours</b>	<b>15</b>

#### Second Year

Fall	Hours
MUS 106 Musicianship Skills I	1
MUS 112 Music Theory I <sup>3</sup>	3
Lower Division Ensemble (MUS 27X) <sup>4</sup>	1
MUS 280 Individual Lessons	1
GE Area A3 Logical/Critical Reasoning	3
GE Area B2 Natraul Sciences in Life Science	3
GE Area D2 Global & Historical Perspectives	3
<b>Hours</b>	<b>15</b>

Spring	Hours
MUS 106 Musicianship Skills I	1

MUS 113	Music Theory II	3
Lower Division Ensemble (MUS 27X) <sup>4</sup>		1
MUS 280	Individual Lessons	1
POL 101	American Institutions	3
GE Area B4 Quantitative Reasoning		3
GE Area C1 Arts or C2 Letters		3
<b>Hours</b>		<b>15</b>
<b>Third Year</b>		
<b>Fall</b>		
MUS 206	Advanced Musicianship Skills I	1
MUS 212	Advanced Music Theory I	3
MUS 290	Music Industry I: Survey of the Music Industry	3
MUS 301	Music In World Cultures <sup>5</sup>	3
MUS 316	Instrumentation	3
Upper Division ensemble (MUS 37X) <sup>6</sup>		1
MUS 380	Individual Lessons	1
Upper Division ensemble (MUS 3XX) <sup>7</sup>		1
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
MUS 206	Advanced Musicianship Skills I	1
MUS 213	Advanced Music Theory II	3
Upper Division Ensemble (MUS 37X) <sup>6</sup>		1
MUS 380	Individual Lessons	1
MUS 386	Music History I: Medieval to Renaissance	3
MUS 390	Music Industry II: Music Marketing, Media and Management	3
Upper Division Ensemble (MUS 3XX) <sup>7</sup>		1
GE Area B5 Integrative Studies in the Natural Sciences		3
<b>Hours</b>		<b>16</b>
<b>Fourth Year</b>		
<b>Fall</b>		
MUS 325	Conducting	3
Upper Division Ensemble (MUS 47X) <sup>6</sup>		1
MUS 480	Individual Lessons	1
MUS 485	Music History II: Baroque to Romantic	3
MUS 493	Recital	1
Upper Division Ensemble (MUS 4XX) <sup>6</sup>		1
GE Area D3 Integrative Studies in the Social Sciences		3
<b>Hours</b>		<b>13</b>
<b>Spring</b>		
MUS 302	African American Music <sup>10</sup>	3
MUS 312	The Jazz Age <sup>10</sup>	3
MUS 445	String Instruments <sup>10</sup>	1
MUS 449	Vocal & Choral Techniques <sup>10</sup>	1
Upper Division Ensemble (MUS 47X) <sup>8</sup>		1
MUS 480	Individual Lessons	1
MUS 486	Music History III: 1880 to Contemporary <sup>11</sup>	3
Upper Division Ensemble (MUS 4XX) <sup>9</sup>		1
MUS 493	Recital	1
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>120</b>

- 1 Select 17X-level ensemble courses in consultation with faculty advisor.
- 2 Select 17X-level ensemble elective course in consultation with faculty advisor.
- 3 Course meets General Education Area C2.
- 4 Select 27X-level ensemble courses in consultation with faculty advisor
- 5 Course meets General Education Area C1.
- 6 Select 37X-level ensemble courses in consultation with faculty advisor
- 7 Select 300-level ensemble courses in consultation with faculty advisor.
- 8 Select 47X-level ensemble courses in consultation with faculty advisor.
- 9 Select 400-level ensemble courses in consultation with faculty advisor.
- 10 Elective course.

<sup>11</sup> Course meets GWAR requirement and General Education Area C3.

## 2-year Roadmap

### First Year

Fall		Hours
MUS 206	Advanced Musicianship Skills I	1
MUS 212	Advanced Music Theory I	3
MUS 290	Music Industry I: Survey of the Music Industry	3
MUS 301	Music In World Cultures <sup>1</sup>	3
MUS 316	Instrumentation	3
Upper Division Ensemble (MUS 37X) <sup>2</sup>		1
MUS 380	Individual Lessons	1
Upper Division Ensemble (MUS 3XX) <sup>3</sup>		1

**Hours** **16**

Spring		Hours
MUS 206	Advanced Musicianship Skills I	1
MUS 213	Advanced Music Theory II	3
Upper Division Ensemble (MUS 37X) <sup>2</sup>		1
MUS 380	Individual Lessons	1
MUS 386	Music History I: Medieval to Renaissance	3
MUS 390	Music Industry II: Music Marketing, Media and Management	3
Upper Division Ensemble (MUS 3XX) <sup>3</sup>		1
GE Area B5 Integrative Studies in the Natural Sciences		3

**Hours** **16**

### Second Year

Fall		Hours
MUS 325	Conducting	3
Upper Division Ensemble (MUS 47X) <sup>4</sup>		1
MUS 480	Individual Lessons	1
MUS 485	Music History II: Baroque to Romantic	3
MUS 493	Recital	1
Upper Division Ensemble (MUS 4XX) <sup>5</sup>		1
GE Area D3 Integrative Studies in the Social Sciences		3

**Hours** **13**

Spring		Hours
MUS 302	African American Music <sup>7</sup>	3
MUS 312	The Jazz Age <sup>7</sup>	3
MUS 445	String Instruments <sup>7</sup>	1
MUS 449	Vocal & Choral Techniques <sup>7</sup>	1
Upper Division Ensemble (MUS 47X) <sup>4</sup>		1
MUS 480	Individual Lessons	1
MUS 486	Music History III: 1880 to Contemporary <sup>6</sup>	3
MUS 493	Recital	1
Upper Division Ensemble (MUS 4XX) <sup>5</sup>		1

**Hours** **15**

**Total Hours** **60**

- <sup>1</sup> Course meets General Education Area C1.
- <sup>2</sup> Select 37X-level ensemble elective course in consultation with faculty advisor.
- <sup>3</sup> Select 300- level ensemble courses in consultation with faculty advisor.
- <sup>4</sup> Select 47X-level ensemble courses in consultation with faculty advisor
- <sup>5</sup> Select 400- level ensemble courses in consultation with faculty advisor.
- <sup>6</sup> Course meets GWAR requirement and General Education Area C3.
- <sup>7</sup> Elective course.

#### General Education Requirements:

The above road map assumes that all lower division GE courses have been completed. Please check with an advisor to confirm that these requirements have been met for graduation.

Students must have taken four semesters of private lessons on their applied instrument and four semesters of lower division ensemble or their equivalent before transferring.

Students must have taken two semesters of class piano and beginning guitar at a Community College in order to meet lower division requirements.

\*Proficiency and/or Placement exams are required in Musicianship, Theory, and Piano. Students who do not pass out of 200-level theory and/or musicianship must take 100-level theory and/or musicianship to prepare them for the corresponding 200-level courses. Please contact Dr. Scott Morris at [ssmorris@csudh.edu](mailto:ssmorris@csudh.edu) for details.

## 4-year Roadmaps

### First Year

Fall		Hours
Lower Division Ensemble (MUS 17X) <sup>1</sup>		1
MUS 180	Individual Lessons	1
MUS 183	Piano I	1
GE Area A1 Oral Communication		3
GE Area D1 Perspectives on Individuals, Groups, and Society		3
GE Area E Lifelong Learning & Self-Development		3
GE Area B1 Physical Science		3
<b>Hours</b>		<b>15</b>

Spring		Hours
HIS 101	History Of United States	3
MUS 122	Beginning Guitar Class	1
Lower Division Ensemble (MUS 17X) <sup>1</sup>		1
Lower Division Ensemble (MUS 17X) <sup>2</sup>		1
MUS 180	Individual Lessons	1
MUS 184	Piano II	1
GE Area B3 Natrual Sciences in Science Laboratory		1
Area F Ethnic Studies		3
GE Area A2 Written Communication		3
<b>Hours</b>		<b>15</b>

### Second Year

Fall		Hours
MUS 106	Musicianship Skills I	1
MUS 112	Music Theory I <sup>3</sup>	3
Lower Division Ensemble (MUS 27X) <sup>4</sup>		1
MUS 280	Individual Lessons	1
GE Area A3 Logical/Critical Reasoning		3
GE Area B2 Natraul Sciences in Life Science		3
GE Area D2 Global & Historical Perspectives		3
<b>Hours</b>		<b>15</b>

Spring		Hours
MUS 106	Musicianship Skills I	1
MUS 113	Music Theory II	3
Lower Division Ensemble (MUS 27X) <sup>4</sup>		1
MUS 280	Individual Lessons	1
POL 101	American Institutions	3
GE Area B4 Quantitative Reasoning		3
GE Area C1 Arts or C2 Letters		3
<b>Hours</b>		<b>15</b>

### Third Year

Fall		Hours
MUS 206	Advanced Musicianship Skills I	1
MUS 212	Advanced Music Theory I	3
MUS 290	Music Industry I: Survey of the Music Industry	3
MUS 301	Music In World Cultures <sup>5</sup>	3
MUS 316	Instrumentation	3
Upper Division ensemble (MUS 37X) <sup>6</sup>		1
MUS 380	Individual Lessons	1
Upper Division ensemble (MUS 3XX) <sup>7</sup>		1
<b>Hours</b>		<b>16</b>

<b>Spring</b>		
MUS 206	Advanced Musicianship Skills I	1
MUS 213	Advanced Music Theory II	3
Upper Division Ensemble (MUS 37X) <sup>6</sup>		1
MUS 380	Individual Lessons	1
MUS 386	Music History I: Medieval to Renaissance	3
MUS 390	Music Industry II: Music Marketing, Media and Management	3
Upper Division Ensemble (MUS 3XX) <sup>7</sup>		1
GE Area B5 Integrative Studies in the Natural Sciences		3
<b>Hours</b>		<b>16</b>
<b>Fourth Year</b>		
<b>Fall</b>		
MUS 326	Choral Conducting	3
MUS 447	Brass Instruments <sup>8</sup>	1
Upper Division Ensemble (MUS 47X) <sup>9</sup>		1
MUS 480	Individual Lessons	1
MUS 485	Music History II: Baroque to Romantic	3
MUS 493	Recital	1
Upper Division Ensemble (MUS 4XX) <sup>10</sup>		1
GE Area D3 Integrative Studies in the Social Sciences		3
<b>Hours</b>		<b>14</b>
<b>Spring</b>		
MUS 312	The Jazz Age <sup>11</sup>	3
MUS 345	Global Popular Music: Identity and Social Change <sup>11</sup>	3
MUS 449	Vocal & Choral Techniques <sup>10</sup>	1
Upper Division Ensemble (MUS 47X) <sup>9</sup>		1
MUS 480	Individual Lessons	1
MUS 486	Music History III: 1880 to Contemporary <sup>11</sup>	3
MUS 493	Recital	1
Upper Division Ensemble (MUS 4XX) <sup>10</sup>		1
<b>Hours</b>		<b>14</b>
<b>Total Hours</b>		<b>120</b>

- 1 Select 17X-level ensemble courses in consultation with faculty advisor.
- 2 Select 17X-level ensemble elective course in consultation with faculty advisor.
- 3 Course meets General Education Area C2.
- 4 Select 27X-level ensemble courses in consultation with faculty advisor
- 5 Course meets General Education Area C1.
- 6 Select 37X-level ensemble courses in consultation with faculty advisor
- 7 Select 300-level ensemble courses in consultation with faculty advisor.
- 8 Elective course.
- 9 Select 47X-level ensemble courses in consultation with faculty advisor.
- 10 Select 400-level ensemble courses in consultation with faculty advisor.
- 11 Elective course.
- 12 Course meets GWAR requirement and General Education Area C3.

Placement exams are required in Musicianship, Theory, and Piano. Depending on entrance exam results, 100-level theory, musicianship, and piano may be required to prepare students for 200 and 300-level courses. Please contact Dr. Scott Morris at [ssmorris@csudh.edu](mailto:ssmorris@csudh.edu) for details.

## 2-Year Roadmaps

<b>First Year</b>		
<b>Fall</b>		
MUS 206	Advanced Musicianship Skills I	1
MUS 212	Advanced Music Theory I	3
MUS 290	Music Industry I: Survey of the Music Industry	3
MUS 301	Music In World Cultures	3
MUS 316	Instrumentation	3
Upper Division Ensemble (MUS 37X) <sup>1</sup>		1
MUS 380	Individual Lessons	1
Upper Division Ensemble (MUS 4XX) <sup>3</sup>		1
<b>Hours</b>		<b>16</b>

<b>Spring</b>		
MUS 206	Advanced Musicianship Skills I	1
MUS 213	Advanced Music Theory II	3
Upper Division Ensemble (MUS 37X) <sup>2</sup>		1
MUS 380	Individual Lessons	1
MUS 386	Music History I: Medieval to Renaissance	3
MUS 390	Music Industry II: Music Marketing, Media and Management	3
Upper Division ensemble (MUS 3XX) <sup>3</sup>		1
GE Area B5 Integrative Studies in the Natural Sciences		3
<b>Hours</b>		<b>16</b>
<b>Second Year</b>		
<b>Fall</b>		
MUS 326	Choral Conducting	3
MUS 447	Brass Instruments <sup>4</sup>	1
Upper Division Ensemble (MUS 47X) <sup>5</sup>		1
MUS 480	Individual Lessons	1
MUS 485	Music History II: Baroque to Romantic	3
MUS 493	Recital	1
Upper Division Ensemble (MUS 4XX) <sup>6</sup>		1
GE Area D3 Integrative Studies in the Social Sciences		3
<b>Hours</b>		<b>14</b>
<b>Spring</b>		
MUS 312	The Jazz Age <sup>7</sup>	3
MUS 345	Global Popular Music: Identity and Social Change <sup>7</sup>	3
MUS 449	Vocal & Choral Techniques	1
Upper Division Ensemble (MUS 47X) <sup>5</sup>		1
MUS 480	Individual Lessons	1
MUS 486	Music History III: 1880 to Contemporary <sup>8</sup>	3
MUS 493	Recital	1
Upper Division Ensemble (MUS 4XX) <sup>6</sup>		1
<b>Hours</b>		<b>14</b>
<b>Total Hours</b>		<b>60</b>

- <sup>1</sup> Meets General Education C1
- <sup>2</sup> Select 37X-level ensemble courses in consultation with faculty advisor.
- <sup>3</sup> Select 300-level ensemble courses in consultation with faculty advisor.
- <sup>4</sup> Elective course.
- <sup>5</sup> Select 47X-level ensemble courses in consultation with faculty advisor.
- <sup>6</sup> Select 4XX-level ensemble courses in consultation with faculty advisor.
- <sup>7</sup> Elective course.
- <sup>8</sup> Meets General Education Area C3 and GWAR requirement.

## 4-year Roadmap

### First Year

		Hours
<b>Fall</b>		
Lower Division Ensemble (MUS 17X) <sup>1</sup>		1
MUS 180	Individual Lessons	1
MUS 183	Piano I	1
GE Area A1 Oral Communication		3
GE Area B1 Physical Science		3
GE Area D1 Perspectives on Individuals, Groups, and Society		3
GE Area E Lifelong Learning & Self-Development		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
HIS 101	History Of United States	3
MUS 122	Beginning Guitar Class	1
Lower Division Ensemble (MUS 17X) <sup>1</sup>		1
Lower Division Ensemble (MUS 17X) <sup>2</sup>		1



MUS 180	Individual Lessons	1
MUS 184	Piano II	1
GE Area A2 Written Communication		3
GE Area B3 Natruul Sciences in Science Laboratory		1
Area F Ethnic Studies		3
<b>Hours</b>		<b>15</b>
<b>Second Year</b>		
<b>Fall</b>		
MUS 106	Musicianship Skills I	1
MUS 112	Music Theory I <sup>3</sup>	3
Lower Division Ensemble (MUS 27X) <sup>4</sup>		1
MUS 280	Individual Lessons	1
GE Area A3 Logical/Critical Reasoning		3
GE Area B2 Natraul Sciences in Life Science		3
GE Area D2 Global & Historical Perspectives		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
MUS 106	Musicianship Skills I	1
MUS 113	Music Theory II	3
Lower Division Ensemble (MUS 27X) <sup>4</sup>		1
MUS 280	Individual Lessons	1
POL 101	American Institutions	3
GE Area B4 Quantitative Reasoning		3
GE Area C1 Arts or C2 Letters		3
<b>Hours</b>		<b>15</b>
<b>Third Year</b>		
<b>Fall</b>		
MUS 206	Advanced Musicianship Skills I	1
MUS 212	Advanced Music Theory I	3
MUS 290	Music Industry I: Survey of the Music Industry	3
MUS 301	Music In World Cultures <sup>5</sup>	3
MUS 316	Instrumentation	3
Upper Division ensemble (MUS 37X) <sup>6</sup>		1
MUS 380	Individual Lessons	1
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
MUS 206	Advanced Musicianship Skills I	1
MUS 213	Advanced Music Theory II	3
Upper Division Ensemble (MUS 37X) <sup>6</sup>		1
MUS 380	Individual Lessons	1
MUS 386	Music History I: Medieval to Renaissance	3
MUS 390	Music Industry II: Music Marketing, Media and Management	3
GE Area B5 Integrative Studies in the Natural Sciences		3
<b>Hours</b>		<b>15</b>
<b>Fourth Year</b>		
<b>Fall</b>		
MUS 308	Popular & Jazz Harmony	3
MUS 325	Conducting	3
Upper Division Ensemble (MUS 47X) <sup>6</sup>		1
MUS 480	Individual Lessons	1
MUS 485	Music History II: Baroque to Romantic	3
MUS 493	Recital	1
GE Area D3 Integrative Studies in the Social Sciences		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
MUS 345	Global Popular Music: Identity and Social Change <sup>8</sup>	3
MUS 408	Advanced Songwriting	3
MUS 416	Composition and Arranging: Popular and Jazz	3
Upper Division Ensemble (MUS 47X) <sup>7</sup>		1
MUS 480	Individual Lessons	1
MUS 486	Music History III: 1880 to Contemporary <sup>9</sup>	3

MUS 493	Recital	1
	<b>Hours</b>	<b>15</b>
	<b>Total Hours</b>	<b>120</b>

- <sup>1</sup> Select 17X-level ensemble courses in consultation with faculty advisor.
- <sup>2</sup> Select 17X-level ensemble elective course in consultation with faculty advisor.
- <sup>3</sup> Course meets General Education Area C2.
- <sup>4</sup> Select 27X-level ensemble courses in consultation with faculty advisor.
- <sup>5</sup> Course meets General Education Area C1.
- <sup>6</sup> Select 37X-level ensemble courses in consultation with faculty advisor
- <sup>7</sup> Select 47X-level ensemble courses in consultation with faculty advisor.
- <sup>8</sup> Elective course.
- <sup>9</sup> Course meets GEAR requirement and General Education Area C3.

Placement exams are required in Musicianship, Theory, and Piano. Depending on entrance exam results, 100-level theory, musicianship, and piano may be required to prepare students for 200 and 300-level courses. Please contact Dr. Scott Morris at [ssmorris@csudh.edu](mailto:ssmorris@csudh.edu) for details.

## 2-year Roadmap

### First Year

Fall		Hours
MUS 206	Advanced Musicianship Skills I	1
MUS 212	Advanced Music Theory I	3
MUS 290	Music Industry I: Survey of the Music Industry	3
MUS 301	Music In World Cultures <sup>1</sup>	3
MUS 316	Instrumentation	3
Upper Division Ensemble (MUS 37X) <sup>2</sup>		1
MUS 380	Individual Lessons	1
	<b>Hours</b>	<b>15</b>
Spring		Hours
MUS 206	Advanced Musicianship Skills I	1
MUS 213	Advanced Music Theory II	3
Upper Division ensemble (MUS 37X) <sup>2</sup>		1
MUS 380	Individual Lessons	1
MUS 386	Music History I: Medieval to Renaissance	3
MUS 390	Music Industry II: Music Marketing, Media and Management	3
GE Area B5 Integrative Studies in the Natural Sciences		3
	<b>Hours</b>	<b>15</b>

### Second Year

Fall		Hours
MUS 308	Popular & Jazz Harmony	3
MUS 325	Conducting	3
Upper Division Ensemble (MUS 47X) <sup>3</sup>		1
MUS 480	Individual Lessons	1
MUS 485	Music History II: Baroque to Romantic	3
MUS 493	Recital	1
GE Area D3 Integrative Studies in the Social Sciences		3
	<b>Hours</b>	<b>15</b>
Spring		Hours
MUS 345	Global Popular Music: Identity and Social Change <sup>4</sup>	3
MUS 408	Advanced Songwriting	3
MUS 416	Composition and Arranging: Popular and Jazz	3
Upper Division Ensemble (MUS 47X) <sup>3</sup>		1
MUS 480	Individual Lessons	1
MUS 486	Music History III: 1880 to Contemporary <sup>5</sup>	3
MUS 493	Recital	1
	<b>Hours</b>	<b>15</b>
	<b>Total Hours</b>	<b>60</b>

- <sup>1</sup> Meets General Education Area C1.
- <sup>2</sup> Select 37X-level ensemble courses in consultation with faculty advisor.
- <sup>3</sup> Select 47X-level ensemble courses in consultation with faculty advisor.

<sup>4</sup> Elective course.

<sup>5</sup> Meets General Education Area C3 and GWAR Requirement.

### General Education Requirements

The road map assumes that all lower division GE courses have been completed. Please check with an advisor to confirm that these requirements have been met for graduation.

Students must have taken four semesters of private lessons on their applied instrument and four semesters of lower division ensemble or their equivalent before transferring.

Students must have taken two semesters of class piano and beginning guitar at a Community College in order to meet lower division requirements.

\*Proficiency and/or Placement exams are required in Musicianship, Theory, and Piano. Students who do not pass out of 200-level theory and/or musicianship must take 100-level theory and/or musicianship to prepare them for the corresponding 200-level courses. Please contact Dr. Scott Morris at [ssmorris@csudh.edu](mailto:ssmorris@csudh.edu) for details.

## 4-year Roadmap

### First Year

Fall		Hours
Lower Division Ensemble (MUS 17X) <sup>1</sup>		1
MUS 180	Individual Lessons	1
MUS 183	Piano I	1
GE Area A1 Oral Communication		3
GE Area B1 Physical Science		3
GE Area D1 Perspectives on Individuals, Groups, and Society		3
GE Area E Lifelong Learning & Self-Development		3
<b>Hours</b>		<b>15</b>

Spring		Hours
HIS 101	History Of United States	3
MUS 122	Beginning Guitar Class	1
Lower Division Ensemble (MUS 17X) <sup>1</sup>		1
Lower Division Ensemble (MUS 17X) <sup>2</sup>		1
MUS 180	Individual Lessons	1
MUS 184	Piano II	1
GE Area A2 Written Communication		3
GE Area B3 Natrual Sciences in Science Laboratory		1
Area F Ethnic Studies		3
<b>Hours</b>		<b>15</b>

### Second Year

Fall		Hours
MUS 106	Musicianship Skills I	1
MUS 112	Music Theory I <sup>3</sup>	3
Lower Division Ensemble (MUS 27X) <sup>4</sup>		1
MUS 280	Individual Lessons	1
GE Area A3 Logical/Critical Reasoning		3
GE Area B2 Natraul Sciences in Life Science		3
GE Area D2 Global & Historical Perspectives		3
<b>Hours</b>		<b>15</b>

Spring		Hours
MUS 106	Musicianship Skills I	1
MUS 113	Music Theory II	3
Lower Division Ensemble (MUS 27X) <sup>4</sup>		1
MUS 280	Individual Lessons	1
POL 101	American Institutions	3
GE Area B4 Quantitative Reasoning		3
GE Area C1 Arts or C2 Letters		3
<b>Hours</b>		<b>15</b>

### Third Year

Fall		Hours
MUS 206	Advanced Musicianship Skills I	1
MUS 212	Advanced Music Theory I	3
MUS 290	Music Industry I: Survey of the Music Industry	3

MUS 301	Music In World Cultures <sup>5</sup>	3
MUS 316	Instrumentation	3
Upper Division ensemble (MUS 37X) <sup>6</sup>		1
MUS 380	Individual Lessons	1
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
MUS 206	Advanced Musicianship Skills I	1
MUS 213	Advanced Music Theory II	3
Upper Division Ensemble (MUS 37X) <sup>6</sup>		1
MUS 380	Individual Lessons	1
MUS 386	Music History I: Medieval to Renaissance	3
MUS 390	Music Industry II: Music Marketing, Media and Management	3
GE Area B5 Integrative Studies in the Natural Sciences		3
<b>Hours</b>		<b>15</b>
<b>Fourth Year</b>		
<b>Fall</b>		
MUS 308	Popular & Jazz Harmony	3
MUS 325	Conducting	3
Upper Division Ensemble (MUS 47X) <sup>7</sup>		1
MUS 480	Individual Lessons	1
MUS 485	Music History II: Baroque to Romantic	3
MUS 493	Recital	1
GE Area D3 Integrative Studies in the Social Sciences		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
MUS 408	Advanced Songwriting	3
MUS 416	Composition and Arranging: Popular and Jazz	3
MUS 448	Percussion Instruments <sup>8</sup>	1
MUS 449	Vocal & Choral Techniques <sup>8</sup>	1
Upper Division Ensemble (MUS 47X) <sup>7</sup>		1
MUS 480	Individual Lessons	1
MUS 486	Music History III: 1880 to Contemporary <sup>9</sup>	3
MUS 493	Recital	1
MUS 496	Music Internship	1-3
<b>Hours</b>		<b>15-17</b>
<b>Total Hours</b>		<b>120-122</b>

- <sup>1</sup> Select 17X-level ensemble courses in consultation with faculty advisor.
- <sup>2</sup> Select 17X-level ensemble elective course in consultation with faculty advisor.
- <sup>3</sup> Course meets General Education Area C2.
- <sup>4</sup> Select 27X-level ensemble courses in consultation with faculty advisor
- <sup>5</sup> Course meets General Education Area C1.
- <sup>6</sup> Select 37X-level ensemble courses in consultation with faculty advisor
- <sup>7</sup> Select 47X-level ensemble courses in consultation with faculty advisor.
- <sup>8</sup> Elective course.
- <sup>9</sup> Course meets GEAR requirement and General Education Area C3.

Placement exams are required in Musicianship, Theory, and Piano. Depending on entrance exam results, 100-level theory, musicianship, and piano may be required to prepare students for 200 and 300-level courses. Please contact Dr. Scott Morris at [ssmorris@csudh.edu](mailto:ssmorris@csudh.edu) for details.

## 2-year Roadmap

First Year		Hours
<b>Fall</b>		
MUS 206	Advanced Musicianship Skills I	1
MUS 212	Advanced Music Theory I	3
MUS 290	Music Industry I: Survey of the Music Industry	3
MUS 301	Music In World Cultures <sup>1</sup>	3
MUS 316	Instrumentation	3
Upper Division Ensemble (MUS 37X) <sup>2</sup>		1
MUS 380	Individual Lessons	1
<b>Hours</b>		<b>15</b>

<b>Spring</b>		
MUS 206	Advanced Musicianship Skills I	1
MUS 213	Advanced Music Theory II	3
Upper Division Ensemble (MUS 37X) <sup>2</sup>		1
MUS 380	Individual Lessons	1
MUS 386	Music History I: Medieval to Renaissance	3
MUS 390	Music Industry II: Music Marketing, Media and Management	3
GE Area B5 Integrative Studies in the Natural Sciences		3
<b>Hours</b>		<b>15</b>
<b>Second Year</b>		
<b>Fall</b>		
MUS 308	Popular & Jazz Harmony	3
MUS 325	Conducting	3
Upper Division Ensemble (MUS 47X) <sup>3</sup>		1
MUS 480	Individual Lessons	1
MUS 485	Music History II: Baroque to Romantic	3
MUS 493	Recital	1
GE Area D3 Integrative Studies in the Social Sciences		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
MUS 408	Advanced Songwriting	3
MUS 416	Composition and Arranging: Popular and Jazz	3
MUS 448	Percussion Instruments <sup>4</sup>	1
MUS 449	Vocal & Choral Techniques <sup>4</sup>	1
Upper Division Ensemble (MUS 47X) <sup>3</sup>		1
MUS 480	Individual Lessons	1
MUS 486	Music History III: 1880 to Contemporary <sup>5</sup>	3
MUS 493	Recital	1
MUS 496	Music Internship	1-3
<b>Hours</b>		<b>15-17</b>
<b>Total Hours</b>		<b>60-62</b>

<sup>1</sup> Meets General Education Area C1.

<sup>2</sup> Select 37X-level ensemble courses in consultation with faculty advisor.

<sup>3</sup> Select 47X-level ensemble courses in consultation with faculty advisor.

<sup>4</sup> Elective course.

<sup>5</sup> Meets General Education Area C3 and GWAR Requirement.

### General Education Requirements

The road map assumes that all lower division GE courses have been completed. Please check with an advisor to confirm that these requirements have been met for graduation.

Students must have taken four semesters of private lessons on their applied instrument and four semesters of lower division ensemble or their equivalent before transferring.

Students must have taken two semesters of class piano and beginning guitar at a Community College in order to meet lower division requirements.

\*Proficiency and/or Placement exams are required in Musicianship, Theory, and Piano. Students who do not pass out of 200-level theory and/or musicianship must take 100-level theory and/or musicianship to prepare them for the corresponding 200-level courses. Please contact Dr. Scott Morris at [ssmorris@csudh.edu](mailto:ssmorris@csudh.edu) for details.

## Quality Assurance

### College of Natural and Behavioral Sciences

## Program Description

Quality Assurance is an interdisciplinary profession practiced by management personnel who are responsible for planning and assuring the quality of products and services. The career opportunities in this rapidly growing field are excellent. Quality professionals are members of management teams where their specialized skills promote organizational excellence, reduce wastes, and improve existing processes. The traditional applications of Quality as related to product performance have evolved to most every industry, such as healthcare, finance, hospitality, and non-profits.

The online Master of Science in Quality Assurance (MSQA) degree program is designed to prepare professionals in quality, engineering, science, management, health care, government and service industries for career advancement. Topics covered include Total Quality Management (TQM), Six Sigma, ISO 9000, reliability, benchmarking, process improvement, quality control, human factors in quality assurance, measurement and testing techniques, quality project management, productivity, quality function management, and customer satisfaction.

The degree programs are supported by local members of the ASQ- Global Voice of Quality Organization.

## Features

### Undergraduate

The CSUDH Bachelor of Science in Quality Assurance (BSQA) is designed to develop professionals in the discipline of quality. Quality professionals are members of teams in any profession where their specialized skills promote organizational excellence, reduce waste, and improve existing processes. The term "quality" is not commonly used in the job description or job title. Quality focused activities exist in many job descriptions.

Among the topics studied in the BSQA are; Process Improvement, Process Problem Solving, Risk Assessment, Metrology, Quality Management Methodologies, Technical Communication, Measurement Systems Applications, Quality Auditing, and Quality Product or Service Improvement.

The BSQA program curriculum is designed to develop skills which can be applied to most organizational functions where products and services are developed through structured processes. The BSQA includes a metrology concentration option, which is focused on the various types of measurements and calibration procedures applied in laboratory environments. BSQA graduates are process analysis and process improvement specialists.

The business world today is seeking the job resilient employees who demonstrate:

- Flexibility, agility, and adaptability
- Good time management skills
- Collaborative and efficient team participation
- Effective communications
- Detailed fact-based analytics acumen
- Imaginative fact-based problem-solving

The BSQA program of study provides knowledge and practical analytical techniques that apply quality improvement tools and methodologies related to each of these current business needs.

Students will acquire knowledge and skills in the following areas:

- Analyzing a Quality Management System/Organizational Excellence Program
- Examining and characterizing a quality management system to reflect the internal culture of an organization
- Illustrating a quality-focused new process development for organizational programs in current organizational programs such as environmental and social governance
- Determining root cause analysis and process improvement for both products and services
- Assessing development and alignment of the human and technological organizational environment
- Explaining in clear and concise, technical, and non-technical terms process-related and systems-related activities

Options include a concentration in traditional quality-focused manufacturing concepts, as well as a concentration in applications specific to Measurement Science - Metrology.

The degree is administered through an online modality in a 12-week semester format to serve working adults. Instructors are recognized experts in their respective subject matter. They provide a practical perspective to the theoretical concepts in the BSQA curriculum. The degree program is supported by local sections of ASQ-Global Voice of Quality.

### Graduate

The Master of Science in Quality Assurance (MSQA) is designed to prepare professionals in quality, engineering, science, and/or technical positions for career advancement. Quality professionals are leaders of teams where their specialized skills promote organizational excellence, reduce wastes, and improve existing processes. The traditional applications of Quality as related to product performance have evolved to most every industry, such as healthcare, finance, life science, hospitality, and non-profits. The curriculum is designed to meet the needs and interests of the working professional.

The program of study provides theoretical knowledge and analytical techniques, as well as management and communication skills that will enable the student to function in an active, analytic capacity in the implementation of processes, policies and practices. A unique feature of the MSQA program is that it gives students the ability to customize their program of study to include their areas of interest. During the course of the program students will acquire knowledge and skills in the following areas: managing a Quality organization; planning and implementing a Quality program; troubleshooting and solving quality problems; incorporating quality concepts and human factors techniques in the design of manufacturing operations; performing vendor surveys and assessing vendor quality; developing and analyzing statistical process control charts; developing and analyzing acceptance

sampling plans; design of experiments; analyzing the design and engineering of reliable products and processes; performing process capability studies; performing quality cost analyses; understanding and working with human behavior in the organization; performing reliability, maintainability, and safety systems reviews; performing quality system audits; and performing statistical studies and analyzing statistical reports. Options for a concentration in traditional manufacturing-focused Quality concepts, as well as applications specific to Healthcare and Service Industries are available.

Online and on-site versions of the degree are available to serve working adults. The degree program is supported by local chapters of the ASQ- Global Voice of Quality Organization.

## Academic Advisement

For general questions about admission or degree requirements for the Quality Assurance programs, students and perspective applicants may contact Student Support Coordinator, Karla Martinez.

For academic advisement, students can contact the MSQA Advising Consultant, Dr. Milton Krivokuca.

## Preparation

The Master of Science in Quality Assurance (MSQA) is designed to prepare professionals in quality, engineering, science, management, health care, government and service industries for career advancement

In order to help manage and lead today's organizations toward the objective of "total quality," an interdisciplinary approach is taken to blend study in management, quality concepts, and statistical tools. The curriculum is designed to meet the needs and interests of the working professional. Relevant theoretical and practical course work, independent study, interaction with fellow students and leading learning experience.

A unique feature of the MSQA program is the opportunity students have to customize their program of study to include areas of personal and professional interest.

Participating in the MSQA course work will help prepare professional to take the examinations leading to the Certified Quality Auditor (CQA), Certified Quality Engineer (CQE), Certified Quality Manager (CQM), Certified Supplier Quality Professional (CSQP), and Certified Reliability Engineer (CRE) certifications.

## Admission Requirements

To be admitted to the Master of Science in Quality Assurance program, applicant must meet the following requirements:

1. Meet all CSU Dominguez Hills graduate admission requirement;
2. A baccalaureate degree from a four-year accredited institution is required. An undergraduate major in engineering or science is preferred (please see note below);
3. A grade point average of at least 2.50 in the last 60-semester units of upper division coursework attempted;
4. Good standing at the last institution attended; and
5. Meet all other university admission requirements.

The baccalaureate degree should have included the following:

- 3 semester units of Chemistry (general)
- 3 semester units of Physics
- 6 semester units of Mathematical Statistics & Theories of Probability (upper division)
- 3 semester units of Principles of Computer Technology

**Note:** Individuals from other undergraduate disciplines who demonstrate exceptional promise may be admitted to the program, pending completion of additional undergraduate prerequisites coursework or other demonstrations of competence as determined by the Quality Assurance Academic Program Committee. All special admissions are subject to approval by the Quality Assurance Academic Program Committee.

## Undergraduate Programs

### Bachelor

The CSUDH Bachelor of Science in Quality Assurance (BSQA) is designed to develop professionals in the discipline of quality. Quality professionals are members of teams in any profession where their specialized skills promote organizational excellence, reduce waste, and improve existing processes. The term "quality" is not commonly used in the job description or job title. Quality focused activities exist in many job descriptions.

Among the topics studied in the BSQA are; Process Improvement, Process Problem Solving, Risk Assessment, Metrology, Quality Management Methodologies, Technical Communication, Measurement Systems Applications, Quality Auditing, and Quality Product or Service Improvement.

The BSQA program curriculum is designed to develop skills which can be applied to most organizational functions where products and services are developed through structured processes. The BSQA includes a metrology concentration option, which is focused on the various types of measurements and calibration procedures applied in laboratory environments. BSQA graduates are process analysis and process improvement specialists.

The business world today is seeking the job resilient employees who demonstrate:

- Flexibility, agility, and adaptability
- Good time management skills
- Collaborative and efficient team participation
- Effective communications
- Detailed fact-based analytics acumen
- Imaginative fact-based problem-solving

The BSQA program of study provides knowledge and practical analytical techniques that apply quality improvement tools and methodologies related to each of these current business needs.

The online BSQA program is designed primarily as an upper-division transfer program for students who have completed the majority of their lower-division general education courses. The program requires no on-campus attendance. Courses are offered throughout the year on a trimester basis.

Students will acquire knowledge and skills in the following areas:

- Analyzing a Quality Management System/Organizational Excellence Program
- Examining and characterizing a quality management system to reflect the internal culture of an organization
- Illustrating a quality-focused new process development for organizational programs in current organizational programs such as environmental and social governance
- Determining root cause analysis and process improvement for both products and services
- Assessing development and alignment of the human and technological organizational environment
- Explaining in clear and concise, technical, and non-technical terms process-related and systems-related activities

Options include a concentration in traditional quality-focused manufacturing concepts, as well as a concentration in applications specific to Measurement Science - Metrology.

The degree is administered through an online modality in a 12-week semester format to serve working adults. Instructors are recognized experts in their respective subject matter. They provide a practical perspective to the theoretical concepts in the BSQA curriculum. The degree program is supported by local sections of ASQ-Global Voice of Quality.

## Graduate Programs

### Master

- Quality Assurance, Master of Science (<https://catalog.csudh.edu/academics/quality-assurance/quality-assurance-ms/>)

## Faculty

### Milton Krivokuca DBA Interim Program Coordinator

Program Office: EE 1300, (310) 243-3880 or (949) 892-7994

## Courses

### QAS 200. Fundamentals of Quality. (3 Units)

A study of the fundamentals of Quality with an emphasis on the current international standards, planning, organizations, methods and tools.

Emphasizes the works of leading international Quality theorists, especially Juran and Deming.

Offered Fall, Spring, Summer

### QAS 220. Fundamentals of Measurement Science. (3 Units)

Prerequisites: MAT 131. Introductory overview of the fundamentals of measurement with emphasis on application of measurement science concepts to quality management. Upper Division

Offered Fall, Spring, Summer



**QAS 312. Interpretation of Technical Documentation. (3 Units)**

Prerequisites: MAT 153, QAS 200, QAS 220. Interpretation of basic engineering drawing concepts, including all related common symbolism and formatting. Emphasis on dimensions, tolerances, and configuration management. Introduction to Military and Federal Specifications/Handbooks, ANSI, IEC, and ISO documents, specifications and recommended practices issued by private organizations.

Offered Spring

**QAS 325. Technical Communications. (4 Units)**

Prerequisites: ENG 110, THE 120. Technical communications, written and oral, and how they differ from non-technical writing and speech. Emphasizes methods for the positive and unambiguous transfer of technical ideas so that they can be clearly understood by the reader or listener.

Offered Summer

**QAS 330. Statistical Quality Control and Inspection. (3 Units)**

Prerequisites: MAT 131, QAS 200, QAS 220. Introduction to the application of statistical methodologies to the analysis and solution of quality and management problems (including probability concepts, control charts, and sampling). Focus will be on application of these tools to the inspection process.

Offered Fall

**QAS 331. The Manufacturing Process. (3 Units)**

Prerequisites: QAS 312. Introduction to the fundamentals of manufacturing, where the conversion of raw materials and sub-assemblies into more useful entities adds value to the converted materials in the most efficient manner, using the least amount of time, money, space and manpower.

Offered Fall

**QAS 332. Electrical Metrology. (3 Units)**

Prerequisites: MAT 131, PHY 122, QAS 200, QAS 220. Electrical measurement concepts, circuits and devices; applications to DC and AC measurements. Theory of coupled circuits in magnetic and capacitive environments, and electrical laboratory practices, with analysis, construction, and troubleshooting of circuits. Documentary control procedures for calibrations and other measurements.

Offered Spring

**QAS 335. Quality Auditing. (3 Units)**

Prerequisites: QAS 200. The fundamental principles for preparing and planning, conducting, reporting and closing quality audits. Quality audit tools and techniques are introduced, with an emphasis on generally-accepted quality audit practices that support business performance.

Offered Fall

**QAS 340. Measurement Uncertainty. (3 Units)**

Prerequisites: MAT 131, MAT 153, QAS 200, QAS 220. Theoretical versus actual measurements. Probability and statistical concepts to define accuracy, precision, error, uncertainty, and bias. Differences between measurement accuracy and measurement error; random and systematic error; uncertainty interval; tolerance limits; accuracy ratio; relative errors; and propagation of measurement errors.

Offered Spring

**QAS 347. Dimensional Metrology. (3 Units)**

Prerequisites: PHY 122, QAS 200, QAS 220. Measurement of length, angularity, relative position, flatness, parallelism, concentricity, squareness, and threads. Lasers and optical tooling in large-scale measurements; also gauges, comparators, and measurement machines. Measurement uncertainties pertinent to dimensional metrology; sources of error; the effect of the measurement environment.

Offered Infrequent

**QAS 350. Physical Metrology. (3 Units)**

Prerequisites: PHY 122, QAS 200, QAS 220. Theoretical and practical applications of measurement principles as applied to various physical properties. Measurement of pressure, mass, force, torque, temperature, humidity, flow, and rotational motion. Identifying sources of error, techniques to minimize errors and maintaining measurement traceability.

Offered Infrequent

**QAS 355. Safety and Reliability. (3 Units)**

Prerequisites: MAT 131, MAT 153, QAS 200, QAS 220. Reliability, maintainability, and safety technology with practical industrial applications. Basic models; metrics; testing; methods of implementing improvements; accelerated life testing. Failure mechanisms for chemical, electro-chemical, electronics, electro-mechanical and opto-electronics systems. Introduction to software reliability. Focus on qualification for ISO 9000.

Offered Spring

**QAS 360. Fundamentals of Lean Manufacturing. (3 Units)**

Prerequisites: QAS 200, QAS 220. Deals with the strategies and practices of lean production, as well as assess with areas of waste, interrelationships among the various components of a system, theories of leadership and management of people, and process variation.

Offered Spring

**QAS 395. Selected Topics in Quality Assurance. (1-4 Units)**

Prerequisite: Consent of Instructor. An intensive study of an issue, concept, or theory in Quality Assurance that is of special interest to both the faculty member and the student. Repeatable course.

Offered As needed

**QAS 427. Quality Improvement. (3 Units)**

Prerequisites: QAS 200, QAS 220. Quality factors involving customer satisfaction, demonstrating that meeting quality needs requires an active role by all the major sectors of an organization. Operational and statistical techniques most often used to monitor, control, and improve the quality of products or services.

Offered Fall

**QAS 445. Systems Failure Analysis. (3 Units)**

Prerequisites: QAS 200 and QAS 220. Integrates Quality, Manufacturing and Procurement efforts to identify and eliminate the root causes of failures in systems, sub-systems and components, emphasizing fault tree and Pareto analyses. Hardware and statistical analysis, design of experiments, and technical data package evaluations.

Offered Fall

**QAS 450. Value Based Quality. (3 Units)**

Prerequisites: QAS 200, QAS 220 and consent of instructor. Used value received, as perceived by the customer, as the primary measure of quality in the development of cohesive enterprise-wide quality management systems. A systemic approach to establishing the correct things to do and a measurement-based process for implementation.

Offered Spring

**QAS 494. Independent Study. (1-3 Units)**

Prerequisites: Consent of instructor. Independent study of a particular problem under the direction of a member of the Quality Assurance Department. Repeatable course.

Offered Infrequent

**QAS 495. Selected Topics in Quality Assurance. (1-4 Units)**

Prerequisites: Consent of instructor. An intensive study of an issue, concept, or theory in Quality Assurance that is of special interest to both the faculty member and the students. Repeatable course. Three hours of lecture per week.

Offered Fall, Spring

**QAS 496. Internship in Quality Assurance. (3 Units)**

Prerequisites: Completion of all 300 level courses in the major. Assignment in an off-campus internship with a cooperating organization, to be selected in consultation with the program coordinator. Emphasis on the role of professionalism and ethics in the life of the quality professional.

Offered Infrequent

**QAS 498. Directed Research in Q.A.. (3 Units)**

Prerequisites: Completion of all 300 level courses in the major. Directed research on one or more topics to be selected in consultation with the program coordinator. Emphasis on the role of professionalism and ethics in the life of the Quality professional.

Offered Fall, Spring

**QAS 499. Senior Project. (3 Units)**

Prerequisites: QAS 496 or QAS 498. A capstone project focusing on the role of leadership in relation to professionalism and ethical standards in the field of Quality Assurance. Graduate

Offered Fall, Spring

**QAS 510. Advanced Probability and Statistics. (3 Units)**

Prerequisites: undergraduate calculus, Probability and statistics. A study of measures of central tendency and dispersion, important discrete and continuous probability distributions, sampling theory, hypothesis testing and estimation. Linear regression and correlation will also be covered. The uses of statistics in testing, inspection, and production will be identified.

Offered Fall, Spring

**QAS 511. Quality Function Management and TQM. (3 Units)**

A study of the functions and responsibilities of the quality organization. TQM concepts, quality function deployment, and the tools for continuous improvement are analyzed for sequence of use and development.

Offered Fall, Spring, Summer, All terms

**QAS 512. Reliability. (3 Units)**

Prerequisite: QAS 510. Overview of reliability engineering. Use of mathematical models of predictions, confidence assessment, and systems reliability. Emphasis on practical applications for product or system design.

Offered Fall

**QAS 513. Statistical Quality Control and Sampling. (3 Units)**

Prerequisite: QAS 510. The application of advanced statistical methodologies to the analysis and solution of quality and management problems, including probability theory, control charts, sampling, regression analysis and the design of experiments. Focus on statistical process control and related quality technologies.

Offered Fall, Spring, Summer

**QAS 514. Advanced Experimental Design. (3 Units)**

Prerequisite: QAS 510. Analysis of statistical experimental design strategies. Planning of experiments for the best strategy and objectives.

Offered Fall, Spring, Summer

**QAS 515. Human Factors in Quality Assurance. (3 Units)**

A comprehensive survey of human factors engineering theory, research and applications which are of particular relevance to quality assurance. A systems framework will be utilized, emphasizing feedback and interrelations among system components, including the human operator. Emphasis will be placed on operator constraints in the design of work processes, workplaces and instrumentation.

Offered Fall, Spring, Summer

**QAS 516. Measurement and Testing Techniques. (3 Units)**

Prerequisite: QAS 510 or consent of instructor. In-depth discussion of equipment, principles and techniques of measurement assurance.

Offered Fall, Spring, Summer

**QAS 518. Quality Project Management and Productivity. (3 Units)**

An in-depth examination of current theory and techniques in QA project management. Topics include description of project management techniques as well as procedures for evaluating their overall effectiveness and contributions to production and service quality.

Offered Fall, Spring, Summer, All terms

**QAS 521. Process Control and Capability. (3 Units)**

Prerequisites: QAS 513 and QAS 514. Detailed study of procedures and methods for performing machine and process capability studies, troubleshooting production and test problems, and maintaining continuous production and process evaluation in manufacturing operations.

Offered Infrequent

**QAS 522. Applied Systems Reliability, Maintainability and Safety. (3 Units)**

Prerequisite: QAS 512. Advanced and detailed analysis of appropriate reliability models, life-cycle reliability prediction and assessment, accelerated test models and techniques, test parameter variation studies, test tailoring and program plans for various reliability test types, maintainability concepts, prediction and assessment techniques, and safety programs.

Offered Infrequent

**QAS 523. Software Reliability. (3 Units)**

A study of the theory and applications of reliability concepts as they relate to software design and implementation.

Offered Fall

**QAS 525. ISO 9000 & The Audit Function. (3 Units)**

Prerequisite: QAS 511 is recommended. A study of the ISO 9000 series of quality system standards with emphasis on manufacturing and service industry applications. The studies address the standards interpretation, documentation and implementation including preparation for and creation of internal and external audits.

Offered Fall

**QAS 526. Supplier Quality Assurance. (3 Units)**

Prerequisite: QAS 511. Encompasses a study of the fundamental quality requirements attendant to the successful procurement and delivery of end item products or services. It includes the basic supplier issues of specifications, site inspection, selection, rating, certification, and related quality audits.

Offered Spring

**QAS 527. Quality Measurement. (3 Units)**

Prerequisite: QAS 511. Study of Quality Metrics and their application throughout the life cycle of a product or service in a business entity. The study includes Quality Standards, Customer Satisfaction, Quality Tools, Continuous Improvement, Cost of Quality, Supplier and System auditing.

Offered Summer

**QAS 530. Statistical Quality Control (SQC) for Service Professionals. (3 Units)**

Techniques for applying Statistical Quality Control (SQC) in controlling processes and delivering customer services. Examines methods for establishing and maintaining SPC, QC auditing and sampling and continuous improvement in various service industries.

Offered Fall, Spring

**QAS 531. Customer Satisfaction and Quality Assurance. (3 Units)**

In-depth study of current methods for obtaining customer satisfaction. Examines techniques of determining customer needs and development of customer service strategy Quality Control criteria.

Offered Fall, Spring

**QAS 532. Quality Assurance of the Service Delivery Process. (3 Units)**

Analyze processes used to deliver service and methods used to assure satisfaction. Examines the relationship of Strategic Quality Planning, the Delivery process, and the usage of TQC and Quality Assurance to achieve strategic goals.

Offered Fall, Spring

**QAS 534. Change Management. (3 Units)**

Prerequisite: QAS 511 is recommended. In depth analysis of current theory, empirical research and best practices related to effective implementation of Quality improvement methodologies that result in desired organizational change, both cultural and operational.

Offered Summer

**QAS 535. Lean Manufacturing. (3 Units)**

Prerequisite: QAS 511 is recommended. In depth study of the theory and practices of lean production. Covers waste minimization, interrelationships among various components of a system, theories of leadership and management, and process variability reduction.

Offered Spring

**QAS 536. Six Sigma Principles and Applications. (3 Units)**

Prerequisite: QAS 510 OR QAS 511 are required. QAS 511 is recommended. In depth study of the application of the six sigma process; covers content of the methodology areas of Define Measure, Analyze, Improve and Control (DMAIC) including team concepts, project management, advanced statistical process control and techniques, and measurement systems analysis.

Offered Summer

**QAS 537. Quality Function Deployment: Understanding Customer Requirements. (3 Units)**

Prerequisite: QAS 511 is recommended. In depth study of the theory and application of the quality management process, Quality Function Deployment, for designing customer requirements into products and services. Course will evaluate the tools of QFD and study their application in analysis of customer requirements.

Offered Summer

**QAS 538. Evaluation and Outcome Analysis for Healthcare Delivery. (3 Units)**

Examines operational and statistical techniques used to monitor, control, and improve the quality of services provided by healthcare. Considers the tools of Quality and their direct application to practical situations and healthcare processes.

Offered Spring

**QAS 539. Good Manufacturing Practices. (3 Units)**

Prerequisite: QAS 511 is recommended. Current Good Manufacturing Practice regulations to assure quality of medical devices and pharmaceutical products. Covers development, manufacturing, Quality management and organizational requirements of medical devices. Pharmaceutical regulations include personnel, facilities and equipment, process and product controls, laboratory and reporting.

Offered Spring

**QAS 540. Food and Drug Law. (3 Units)**

Prerequisite: QAS 511 is recommended. This course is designed to provide a practical interpretation of the food and drug laws and interpretations for professionals who are providing products or services in industries regulated by the Federal Food & Drug Administration.

Offered Spring

**QAS 541. Biomedical Quality Control Methods. (3 Units)**

In depth study of quality control discipline as applied to medical device, pharmaceutical and/or biologics regulated environments. Topics include influencing discipline and applying models; methods that monitor, maintain and/or improve product or service quality; and operational efficiency.

Offered Fall

**QAS 542. Risk Management in FDA Regulated Industries. (3 Units)**

Prerequisite: QAS 511 is recommended. Risk Management as applied to FDA-regulated and other industries (product and process-related); emphasizes application of risk management tools, plan and program from inception of product and process including manufacturing process and field experience of the product, process or service.

Offered Spring

**QAS 543. Identification and Mitigation of Suspect and Counterfeit Items. (3 Units)**

Prerequisite: QAS 511 is required. Designed to distinguish the characteristics of suspect/counterfeit items (S/CI) and how to mitigate and prevent their occurrences through the development of corrective and preventative action plans into common quality management systems by applying quality tools and methodologies.,

Offered Summer

**QAS 544. Digital Transforming Quality 4.0 with Industry 4.0. (3 Units)**

Prerequisite: QAS 511 is required. Examines contemporary process-related issues and assesses how to develop a digital organizational self-assessment through the application of quality tools and methodologies that contribute to continuous improvement and organizational excellence as appropriate in Industry 4.0.

Offered Fall

**QAS 545. Laboratory Conformity Assessment. (3 Units)**

Prerequisite: QAS 511 is required. Evaluates the various systems for laboratory accreditation and certification in compliance with industry and government regulatory requirements to assure safe and reliable products and services are provided for both industry and consumers through assessment and appraisal techniques.

Offered Fall

**QAS 546. Case Studies in Quality. (3 Units)**

Prerequisite: Completion of 18 units in MSQA program. Provides students an opportunity to apply their MSQA acquired skills to encourage and enhance dialogue, reinforce comprehension, bridge the gap between theory and practice, develop analytical and critical thinking skills, and to solve practical industry-related problems.

Offered Fall, Spring

**QAS 553. Lean Accounting & Financial Analysis. (3 Units)**

Focus on the application of Lean Six Sigma concepts and techniques to help in the problem-solving challenges that confront today's quality professionals. Builds a strong foundation for the quality professional in any sector.

Offered Fall, Spring

**QAS 591. Credit for Prior Learning: Quality Auditing. (3 Units)**

The Certified Quality Auditor (CQA) is a professional certification from the American Society of Quality (ASQ). Students holding this certification satisfy the elective course QAS 525. The ASQ CQA must be current when entered into the student transcripts.

Offered As needed

**QAS 592. Credit for Prior Learning (CPL) Quality Measurement. (3 Units)**

The Certified Manager of Quality-Organizational Excellence (CMQ-OE) is a professional certification from the American Society of Quality. Students holding this certification satisfy the elective course QAS 527. The ASQ CMQ-OE must be current when entered into the student transcript.

Offered As needed

**QAS 593. Credit for Prior Learning (CPL) Six Sigma Principles and Applications. (3 Units)**

The Certified Six Sigma Black Belt (CSSBB) is a professional certification from the American Society of Quality (ASQ). Students holding this certification satisfy the elective course QAS 536. The ASQ CSSBB must be current when entered into the student transcript.

Offered As needed

**QAS 594. Ind Study In Assurance Science. (1-4 Units)**

Prerequisites: Instructor and program Coordinator approval; QAS 510, QAS 511 and a minimum of five QAS courses recommended. Independent research or special project to be conducted in consultation with an instructor.

Offered Infrequent

**QAS 595. Special Topics by Directed Study: Quality Assurance Applications. (3 Units)**

A course of study designed cooperatively by student and instructor, and approved by the Program Coordinator, in which students apply quality assurance theory and principles to a particular occupational setting relevant to their professional interests and aspirations. Repeatable course. Three hours of lecture per week.

Offered Infrequent

**QAS 598. Directed Research. (3 Units)**

Prerequisites: Completion of 18 units toward degree and GWAR. Directed reading and research, designed cooperatively by student and instructor and approved by the program coordinator, emphasizing application of Quality Assurance theory and principles to a particular occupational setting.

Offered Fall, Spring, Summer

**QAS 599. Project. (3 Units)**

Prerequisites: Completion of all other coursework in the degree program. The goal of all students enrolled in this culminating experience course is to complete a project under the guidance of an assigned instructor. It is the culminating learning experience of the program, and includes a significant written report. To meet the standards established by the faculty, the project must demonstrate a rigorous scientific approach to the quality profession.

Offered Fall, Spring

**QAS 600. Grad Continuation Course. (1 Units)**

Graduate students who have completed their coursework but not their thesis, project, or comprehensive examination, or who may have other requirements remaining for completion of their degree, may maintain continuous attendance by enrolling in this course. Signature of graduate program director required.

Offered Fall, Spring, Summer

## Quality Assurance, Bachelor of Science

The CSUDH Bachelor of Science in Quality Assurance (BSQA) is designed to develop professionals in the discipline of quality. Quality professionals are members of teams in any profession where their specialized skills promote organizational excellence, reduce waste, and improve existing processes. The term "quality" is not commonly used in the job description or job title. Quality focused activities exist in many job descriptions.

Among the topics studied in the BSQA are; Process Improvement, Process Problem Solving, Risk Assessment, Metrology, Quality Management Methodologies, Technical Communication, Measurement Systems Applications, Quality Auditing, and Quality Product or Service Improvement.

The BSQA program curriculum is designed to develop skills which can be applied to most organizational functions where products and services are developed through structured processes. The BSQA includes a metrology concentration option, which is focused on the various types of measurements and calibration procedures applied in laboratory environments. BSQA graduates are process analysis and process improvement specialists.

The business world today is seeking the job resilient employees who demonstrate:

- Flexibility, agility, and adaptability
- Good time management skills
- Collaborative and efficient team participation

- Effective communications
- Detailed fact-based analytics acumen
- Imaginative fact-based problem-solving

The BSQA program of study provides knowledge and practical analytical techniques that apply quality improvement tools and methodologies related to each of these current business needs.

Students will acquire knowledge and skills in the following areas:

- Analyzing a Quality Management System/Organizational Excellence Program
- Examining and characterizing a quality management system to reflect the internal culture of an organization
- Illustrating a quality-focused new process development for organizational programs in current organizational programs such as environmental and social governance
- Determining root cause analysis and process improvement for both products and services
- Assessing development and alignment of the human and technological organizational environment
- Explaining in clear and concise, technical, and non-technical terms process-related and systems-related activities

Options include a concentration in traditional quality-focused manufacturing concepts, as well as a concentration in applications specific to Measurement Science - Metrology.

The degree is administered through an online modality in a 12-week semester format to serve working adults. Instructors are recognized experts in their respective subject matter. They provide a practical perspective to the theoretical concepts in the BSQA curriculum. The degree program is supported by local sections of ASQ-Global Voice of Quality.

## Requirements

### Total Course Requirements for the Bachelor's Degree

See the "Requirements for the Bachelor's Degree (<https://catalog.csudh.edu/general-information/baccalaureate-degrees-undergraduate-studies/>)" in the University Catalog for complete details on general degree requirements. A minimum of 40 units, including those required for the major, must be upper division.

### Elective Requirements

Completion of elective courses (beyond the requirements listed below) to reach a total of a minimum of 120 units.

### General Education Requirements (49 units)

See the "General Education (p. 59)" requirements in the University Catalog or the Class Schedule for the most current information on General Education requirements and course offerings.

### Graduation Writing Assessment Requirement

See the "Graduation Writing Assessment Requirement (<https://catalog.csudh.edu/general-information/baccalaureate-degrees-undergraduate-studies/gwar-certifying-courses/>)" in the University Catalog.

**The Quality Assurance program is currently not accepting students into the Bachelor of Science in Quality Assurance (BSQA). For more information, please contact the Quality Assurance program office.**

### Minor Requirements

Single field major, no minor required.

### Major Requirements (66 units)

#### Degree Requirements (66 units)

Code	Title	Hours
<b>Lower Division Requirements</b>		
BIO 102	General Biology	3
CHE 108	Introduction to College Chemistry	5
MAT 131	Elementary Statistics and Probability	3
MAT 153	Pre-Calculus with Trigonometry with Lab	4
PHY 120	Elements Of Physics I	4
PHY 122	Elements Of Physics II	4
QAS 200	Fundamentals of Quality	3
QAS 220	Fundamentals of Measurement Science	3
<b>Upper Division Requirements</b>		

QAS 312	Interpretation of Technical Documentation	3
QAS 325	Technical Communications	4
QAS 330	Statistical Quality Control and Inspection	3
QAS 331	The Manufacturing Process	3
QAS 335	Quality Auditing	3
QAS 355	Safety and Reliability	3
QAS 360	Fundamentals of Lean Manufacturing	3
QAS 427	Quality Improvement	3
QAS 445	Systems Failure Analysis	3
QAS 450	Value Based Quality	3
QAS 496	Internship in Quality Assurance	3
or QAS 498	Directed Research in Q.A.	
QAS 499	Senior Project	3
<b>Total Hours</b>		<b>66</b>

**Measurement Science Option (66 units)**

Code	Title	Hours
<b>Lower Division Requirements</b>		
BIO 102	General Biology	3
CHE 108	Introduction to College Chemistry	5
MAT 131	Elementary Statistics and Probability	3
MAT 153	Pre-Calculus with Trigonometry with Lab	4
PHY 120	Elements Of Physics I	4
PHY 122	Elements Of Physics II	4
QAS 200	Fundamentals of Quality	3
QAS 220	Fundamentals of Measurement Science	3
<b>Upper Division Requirements</b>		
QAS 312	Interpretation of Technical Documentation	3
QAS 325	Technical Communications	4
QAS 330	Statistical Quality Control and Inspection	3
QAS 332	Electrical Metrology	3
QAS 340	Measurement Uncertainty	3
QAS 347	Dimensional Metrology	3
QAS 350	Physical Metrology	3
QAS 427	Quality Improvement	3
QAS 445	Systems Failure Analysis	3
QAS 450	Value Based Quality	3
QAS 496	Internship in Quality Assurance	3
or QAS 498	Directed Research in Q.A.	
QAS 499	Senior Project	3
<b>Total Hours</b>		<b>66</b>

## BSQA Student Learning Outcomes

- Analyzing a Quality Management System/Organizational Excellence Program
- Examining and characterizing a quality management system to reflect the internal culture of an organization
- Illustrating a quality-focused new process development for organizational programs in current organizational programs such as environmental and social governance
- Determining root cause analysis and process improvement for both products and services
- Assessing development and alignment of the human and technological organizational environment
- Explaining in clear and concise, technical, and non-technical terms process-related and systems-related activities

Options include a concentration in traditional quality-focused manufacturing concepts, as well as a concentration in applications specific to Measurement Science – Metrology

# Spanish

## College of Arts and Humanities

Department of Modern Languages (<https://www.csudh.edu/modern-languages/>)

## Program Description

The Spanish Language has become an important global language and those who hold a degree in Spanish are of an invaluable asset in California, across the country, and the world. Over 534 million people worldwide speak Spanish as a first and second language. More than 41 million people in the U.S. speak Spanish. The US Census Bureau reports that the population of Latino origin is expected to jump to 119 million by 2060.

Moreover, the employment opportunities for Spanish majors continue to grow with both the passage of Proposition 58, which removes restrictions on bilingual education programs for California and the Global California 2030 Initiative which calls for the expansion of the teaching and learning of world languages and the number of in more than one language over the next 12 years.

## Spanish Programs

The Department of Modern Languages offers students a Spanish major with two concentration options: Linguistics or Literature. Both options prepare students who intend to teach Spanish in high schools and students who plan to continue their studies in graduate school either in the academic fields of Spanish Linguistics, Romance Linguistics, Spanish Literature, and Latin American literature. Additionally, the B.A. in Spanish also provides opportunities for employment to those who want to become:

1. academic counselor,
2. criminal justice administrator,
3. customs inspector,
4. importer/exporter,
5. international marketing representative,
6. international student advisor,
7. interpreter or translator,
8. language consultant
9. lawyer,
10. librarian,
11. NGO employee, etc.

Additionally, the Department offers four Minors in Spanish:

1. Spanish Culture,
2. Spanish Grammar and Writing,
3. Spanish Linguistics and
4. Spanish Literature.

These minors complement and enhance all majors. It is particularly useful to students majoring in business, in the public and health service fields, in paralegal work, criminal justice, etc.

Due to the passage of Proposition 58, the most urgent need for majors in Spanish is in public-school teaching, from K-12. For students who plan to teach at the elementary level and who are majoring in Liberal Studies, the Spanish program offers a Spanish option and the Bilingual Authorization. The Spanish option in Liberal Studies provides an in-depth study of Spanish. This option is particularly helpful for those potential elementary teachers who intend to seek bilingual certification.

The Bilingual Authorization is an additional program that students of the Multiple and Single Subject Credential Programs can add to their teaching credentials. This Bilingual Authorization permits candidates and teachers to teach in a K-12 bilingual immersion setting. The Subject Matter Preparation Program in Spanish (also known as the Single Subject Waiver Program in Spanish) is designed for students who plan to teach the Spanish language at the secondary school level. Additionally, the Spanish Subject Matter Authorization is designed for teachers who would like to teach Spanish in middle school.

## Academic Advisement

The Department of Modern Languages is eager to provide all its students with the advisement they will need to continue their studies in a modern language. An advisor is vital in choosing the Spanish course best suited to the background and needs of each student. Students must see an advisor upon admission, upon completion of 60-semester units, and during the first semester of the senior year.



## Preparation

High school students who plan to major or minor in Spanish are encouraged to take at least two years of Spanish in high school. Students who have taken AP Spanish, French or Japanese may receive credit for some lower-division courses.

Community college transfer students planning to take upper-division Spanish courses at CSU Dominguez Hills should have completed four semesters of college-level Spanish successfully. All students are required to take SPA 280. Those who have taken fewer than four semesters of Spanish in a community college will be placed at an appropriate level by means of advisement.

## Student Organizations

**Sigma Delta Pi:** Membership in our Nu Psi Chapter of Sigma Delta Pi, the Spanish National Honorary Society, is open to students who have completed at least 18 upper-division semester units in Spanish including at least one upper-division course in literature or culture, and who have a 3.0-grade point average in all classes, including a 3.0-grade point average in all Spanish courses. Sigma Delta Pi seeks to honor those who seek and attain excellence in the study of Spanish language, literature, and culture; to honor those who strive to make Hispanic contributions to modern culture better known in the world in general; to encourage college students to acquire a greater interest in and deeper understanding of Hispanic culture, and to foster friendly relations and mutual respect between Spanish speaking nations and other peoples of the world. Students interested in applying for membership should consult the Department of Modern Languages chair.

## Graduation With Honors

An undergraduate student may graduate with Honors in Spanish provided that the following criteria are met:

1. A minimum of 36 units in residence at CSU Dominguez Hills;
2. A minimum grade point average of at least 3.5 in all courses used to satisfy the upper division requirements in the major.

## Undergraduate Programs

### Bachelor

- Spanish, Bachelor of Arts (<https://catalog.csudh.edu/academics/spanish/spanish-ba/>)

### Minor

- Spanish Culture, Minor (p. 364)
- Spanish Grammar and Writing, Minor (<https://catalog.csudh.edu/academics/spanish/spanish-grammar-writing-minor/>)
- Spanish Linguistics, Minor (<https://catalog.csudh.edu/academics/spanish/spanish-linguistics-minor/>)
- Spanish Literature, Minor (<https://catalog.csudh.edu/academics/spanish/spanish-literature-minor/>)

### Certificate

- PRE-SERVICE TEACHER BILINGUAL AUTHORIZATION IN SPANISH, CERTIFICATE (<https://catalog.csudh.edu/academics/spanish/bilingual-authorization-certificate/>)

## Graduate Programs

### Subject Matter Preparation

- Spanish, Subject Matter Preparation (<https://catalog.csudh.edu/academics/spanish/spanish-subject-matter-preparation/>)

## Faculty

Benito Gómez, Department Chair

Michael Galant, Melissa Gonzalez-Contreras, Ivonne Heinze-Balcazar, Sachi Johnston Katagiri, Seongin Lee, Yulder Daza, Claudia Mendoza Diaz, and Cynthia Villanueva.

Modern Languages Department Office: LCH C-308, (310) 243-3315

## Emeriti Faculty

Richard Beym, José S. Cuervo, Frances Lauerhass, Porfirio Sánchez, Luz Watts, Raul Romero, Miguel Dominguez

## Courses

### SPA 110. Beginning Spanish I. (3 Units)

Prerequisite: Grade of C or better in SPA 100. Basic instruction in Spanish. Training in speaking, listening, reading, and writing for students who have had no previous work in Spanish.

Offered Fall, Spring, All terms

**SPA 111. Beginning Spanish II. (3 Units)**

Prerequisite(s): SPA 110 or equivalent.. Translation from Spanish to English and English to Spanish with practical application for journalistic, advertising, commercial, and governmental activities. Introduction to the art of consecutive translation.

Offered Fall, Spring, All terms

**SPA 115. Intensive Beginning Spanish. (6 Units)**

Prerequisite: Grade of C or better in SPA 100. An accelerated course in beginning Spanish; emphasis on speaking and listening comprehension. Development of elementary reading and writing skills. Active participation and engagement. The equivalent of SPA 110 plus SPA 111.

Offered Infrequent

**SPA 151. Introduction to Hispanic Culture. (3 Units)**

Introduction to Hispanic Culture. A designated geographical area studies course focusing on patterns of culture in the Spanish-speaking world. Topics will vary from semester to semester; for example, Mexico and the Southwestern U.S., or Contemporary Spain. Conducted in English.

Offered Fall, Spring

**SPA 220. Intermediate Spanish I. (3 Units)**

Prerequisite: SPA 111 or equivalent. A continuation of Spanish 111, with emphasis on oral communication skills.

Offered Fall, Spring, All terms

**SPA 221. Intermediate Spanish II. (3 Units)**

Prerequisite: SPA 220 or equivalent. A continuation of Spanish 220, with emphasis on reading and writing.

Offered Fall, Spring

**SPA 230. Spanish Conversation. (3 Units)**

Intermediate-level Spanish conversation with special emphasis on increasing the oral proficiency of second-language learners of Spanish.

Conversational functions practiced will include describing and identifying people, places, things and events, requesting and providing information, and expressing opinions. Students will be exposed to various aspects of Spanish-speaking cultures.

Offered Fall

**SPA 280. Grammar for Spanish Composition. (3 Units)**

Students advance their knowledge of Spanish grammar in the areas of orthography, accentuation, punctuation, parts of speech, verb morphology, sentence types. Students will study essay types, with an emphasis on narration.

Offered Fall, Spring

**SPA 302. Business Spanish. (3 Units)**

The principal objective of this course is to prepare students to use Spanish for business. Topics for this course include: 1) informal vs. formal Spanish; 2) the communicative purpose: informative vs persuasive presentations; 3) technology and business; 4) the language of finance; 5) legal language for business; and 7) ethical considerations and their reflection on language use.

Offered Spring

**SPA 305. Advanced Composition, Syntax and Stylistics I. (3 Units)**

Prerequisite: SPA 280 or equivalent. A reading, composition, and discussion course concerned with elements of style and syntax, with emphasis on expository and argumentative writing by the students.

Offered Fall, Spring

**SPA 306. Advanced Composition, Syntax and Stylistics II. (3 Units)**

Prerequisite: SPA 280 or equivalent is required. A reading, composition and discussion course that focuses on expository writing and literary or linguistic analysis. Three hours of lecture per week.

Offered Fall, Spring

**SPA 310. Romantic Love in the Western Tradition. (3 Units)**

Students evaluate the construct of love using historical, aesthetic, and social perspectives, how it defines psychological patterns, develops styles in literature, is the center of some philosophical approaches, and is linked to values and ethical definitions in contemporary movements.

Offered Infrequent

**SPA 311. Structure Of Spanish. (3 Units)**

Prerequisite: SPA 280. An analysis of the sounds, formations, and routines of the language, focusing on global characteristics of Spanish that English speakers need to acquire. Selected language acquisition problems of English speakers featured.

Offered Fall

**SPA 312. Hispanic Literature, Art and Culture. (3 Units)**

Historical development and the cultural artistic production created by Hispanic authors and artists through an interdisciplinary perspective. Study of artwork, historical texts, music, and literature to expand by discussing the links of cultural production that develop in Latin America.

Offered Spring

**SPA 313. Encountering the Other. (3 Units)**

Analysis of major contemporary issues will be undertaken from a humanistic perspective about encountering the other in the Western tradition. Historical, literary, musical, philosophical, and art works will be introduced to develop critical thinking about how diverse groups interact.

Offered Spring even

**SPA 318. Movements of Latin America. (3 Units)**

This interdisciplinary and pluricultural course introduces students to the contemporary social and sociolinguistic movements of Latin America. It analyzes the indigenous movements for linguistic and cultural rights, and populist movements and other movements through their cultures, narratives, rhetoric, and discourse.

Offered Fall, Spring, Summer

**SPA 330. Interpreting Hispanic Literature. (3 Units)**

Prerequisite: SPA 305. Analysis and interpretation of representative Hispanic prose, poetry, and drama.

Offered Fall

**SPA 340. Practical Spanish for Interpreters and Translators. (3 Units)**

Intensive study of a single author, a literary movement, a literary genre, or a single literary work, or an issue/topic in linguistics. Repeatable with different topics for credit. Three hours of seminar per week.

Offered Spring

**SPA 341. Advanced Conversation. (3 Units)**

Prerequisite: SPA 221 or equivalent. Intensive conversation leading to fluency in the use of academic Spanish. The course aims to develop a comprehensive vocabulary which prepares the student for persuasive and oratory speeches, as well as for upper division linguistics and literature courses. Useful for public service and the bilingual/cross-cultural credential program.

Offered Fall, Spring

**SPA 350. Contemporary Hispanic Culture: Spain. (3 Units)**

Prerequisite: SPA 280 or equivalent, or concurrent enrollment. An area studies course focusing on patterns of culture in contemporary Spain .

Offered Spring

**SPA 351. Contemporary Hispanic Culture: Spanish-Speaking America. (3 Units)**

Prerequisite: SPA 280 or equivalent, or concurrent enrollment. A designated geographical area studies course focusing on patterns of culture in the Spanish-speaking world. Specific topics may vary from semester to semester. Norms, intergroup relations, institutions, language, and societal values of rural and urban people.

Offered Infrequent

**SPA 353. Cinema of the Spanish-Speaking World. (3 Units)**

Prerequisites: SPA 280 and SPA 305 are required. SPA 351 is recommended. This course is designed to introduce students to the cultures and societies of Spain and Latin America through the cinematic work of Spanish-speaking film productions.

Offered Fall

**SPA 398S. Directed Research in Spanish. (1-3 Units)**

Offered Infrequent

**SPA 400. Teaching School Subject Matter in Spanish. (3 Units)**

Prerequisite: Knowledge of Spanish or consent of instructor. Vocabulary and materials used in elementary or secondary schools for teaching reading, writing, mathematics, science, and social studies in Spanish. Aspects and problems of language acquisition and linguistic transitions made by English speakers acquiring Spanish proficiency. Required for credential candidates.

Offered Fall, Spring

**SPA 414. Spanish Phonology. (3 Units)**

Prerequisite: SPA 311. A beginning course in the segmental and suprasegmental phonetic systems: phonological pronunciation phenomena of standard and regional Spanish.

Offered Spring

**SPA 430. Spanish Morphology. (3 Units)**

In-depth introduction to selected topics of Morphology. Topics include inflection, derivation, and compounding, as well as the relation of morphology to phonology, syntax and the lexicon.

Offered Fall

**SPA 435. A Sociolinguistic Approach to Chicano/Latino Dialect. (3 Units)**

Identification of characteristic linguistic difficulties of Spanish-speaking children correlated to social-cultural background. Contrastive analyses of the linguistic competencies and performances for these children learning English. Repeatable course.

Offered Infrequent

**SPA 440. Spanish Syntax. (3 Units)**

Study of the formation and structure of phrases, clauses, and sentences in Spanish, informed by the Generative Syntax theoretical framework.

Offered Fall

**SPA 450. History of the Spanish Language. (3 Units)**

History of the development of the Spanish language from Vulgar Latin to the present.

Offered Fall

**SPA 453. Literature Of Spain. (3 Units)**

Prerequisites: SPA 330. Readings and analysis of Spanish literary works in all genres. Topic varies from semester to semester. Repeatable course. Offered Fall

**SPA 454. Cervantes: Don Quijote. (3 Units)**

Prerequisite: SPA 330 or equivalent. Reading and analysis of the major work of Spanish literature. Offered Spring

**SPA 456. Literature of Spanish America. (3 Units)**

Prerequisites: SPA 330. Readings and analysis of selected works of Spanish American literature. Course content may cover a single country or a literary movement or genre as represented in various Spanish American countries. Topic varies from semester to semester. Repeatable course. Offered Fall, Spring

**SPA 461. Lecturas Mexicanas y Chicanas. (3 Units)**

Reading and analysis of Mexican and Chicano literary works in all genres. Specific genre and country will vary from semester to semester. Three hours of lecture per week.

Offered Spring

**SPA 490. Seminar in Special Topics in Literature and Linguistics. (3 Units)**

Prerequisite: SPA 305, SPA 306, SPA 311, SPA 330, SPA 340, SPA 350, SPA 351 are required. Intensive study of a single author, a literary movement, a literary genre, or a single literary work, or an issue/topic in linguistics. Repeatable with different topics for credit. Three hours of seminar per week.

Offered Spring

**SPA 494. Independent Study. (3 Units)**

Prerequisites: B average in Spanish; consent of instructor and department chair. Independent study of a literary or linguistic problem, an author, or a literary movement. Repeatable course.

Offered Fall, Spring

**SPA 495. Special Topics in Spanish. (3 Units)**

Prerequisites: Senior Standing and consent of the instructor. Intensive study of a topic in Spanish literature, linguistics or culture. May be repeated with a different topic for up to six units.

Offered Infrequent

**SPA 498. Directed Research in Spanish. (1-3 Units)**

Offered Infrequent, All terms

**SPA 594S. Independent Study. (1-3 Units)**

Prerequisites: Consent of department chair and faculty advisor. In consultation with a faculty member, the student will investigate, in detail, current scholarship in selected area(s) or will undertake a project involving original research or creative study. Repeatable course.

Offered Infrequent

**SPA 595. Special Topics in Spanish. (3 Units)**

Prerequisites: Two upper division courses in Spanish Literature, two upper division courses in Spanish Linguistics, or consent of the instructor. Intensive study of a topic of current interest to the disciplines of Spanish Literature and Spanish Linguistics. Topic and content will vary each term. New topics will be offered each term. Course may be repeated with different topic.

Offered Infrequent

**SPA 597S. Directed Reading. (1-3 Units)**

Prerequisites: Consent of department chair and faculty advisor. Extensive reading in selected areas under the guidance of a faculty member. Repeatable course.

Offered Infrequent

**SPA 599S. Final Project. (3 Units)**

Offered Infrequent

## Spanish Culture, Minor

### Required courses and electives

Code	Title	Hours
<b>Lower Division Course</b>		
<b>Prerequisite Courses</b>		
SPA 110	Beginning Spanish I <sup>1</sup>	<b>0-12</b>
SPA 111	Beginning Spanish II <sup>1</sup>	
SPA 220	Intermediate Spanish I <sup>1</sup>	
SPA 221	Intermediate Spanish II <sup>1</sup>	
<b>Required Course</b>		

SPA 280	Grammar for Spanish Composition <sup>2,3</sup>	3
<b>Upper Division Required Courses (6 units)</b>		
SPA 305	Advanced Composition, Syntax and Stylistics I	3
SPA 350	Contemporary Culture of Spain	3
SPA 351	Contemporary Culture of Spanish-Speaking America	3
SPA 353	Cinema of the Spanish-Speaking World	3
<b>Total Hours</b>		<b>15-27</b>

<sup>1</sup> Prerequisites Course, taken as needed - those who have completed two, three, or four years of high school Spanish or any community college Spanish will be placed in the appropriate semester of college Spanish in consultation with a departmental advisor. Students may get credit for some of these courses through the Advanced Placement Examination in either Language or Literature, by challenging them (but never in descending order), and/or by transferring equivalent courses from other institutions.

<sup>2</sup> The Modern Languages Department strongly recommends those students who need additional fluency in Spanish to travel to a Spanish-speaking country (under the guidance of an advisor) or to take SPA 230 Spanish Conversation before they take this course.

<sup>3</sup> All Spanish Literature minors must take this course at CSUDH.

Students choosing this minor may also complete the BA in Spanish in the Literature and Linguistics Option or the Spanish for the Professions Option. If they choose to do so, they may count SPA350 and SPA351 towards both this minor and the BA.

## Special Education

College of Education

Division of Teacher Education

### Special Education Program Description

The Special Education Program is designed to offer candidates both core and advanced specialization in the delivery of special education services from infancy to adulthood. The program meets the needs of college graduates who wish to pursue careers in special education. Candidates can obtain the following: Master of Arts degree in Special Education, Education Specialist Instruction Preliminary Credentials (Mild/Moderate Support Needs, Extensive Support Needs, and Early Childhood Special Education), Teacher Induction Program (Clear Credential), Early Childhood Special Education Added Authorization, and Assistive Technology Certificate. Credential, authorization, and certificate coursework combines theory, methods, and field experiences that enrich candidates teaching practices. Master degree level courses combine theory, field assignments, and a culminating experience that enhances candidates' professional expertise and specialized knowledge.

The following information is described in detail on the California Commission on Teacher Credentialing (CCTC) website at <https://www.ctc.ca.gov/credentials/assignment-resources/special-education-credentials> (<https://www.ctc.ca.gov/credentials/assignment-resources/special-education-credentials/>). The Education Specialist Instruction Credential authorizes the holder to conduct Educational Assessments related to the candidate's access to the academic core curriculum and progress towards meeting instructional academic goals, provide instruction, and Special Education Support to individuals in the area of specialization listed on the credential in the following settings:

- General education settings
- Resource rooms or services
- Special education settings
- Non-public, schools and agencies
- Home/hospital settings
- Correctional facilities

The Education Specialist Instruction Credentials require specific course work to meet teacher performance expectations and competencies established by the California Commission on Teacher Credentialing (CCTC). CSUDH Special Education programs are accredited by CCTC. The requirements of the Individuals with Disabilities Education Act (IDEA), ESSA (2016), California Curriculum Framework and Standards, and California Reading Initiative also serve as underpinnings for instruction, field supervision, and evaluation.

## Pre-Admission Disclosure for Academic Programs Leading to Licensure or Credentialing

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or taxpayer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to

admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements is available from the **College of Education Dean's Office: COE 1490 - (310) 243-3510**.

## Master of Arts in Special Education

The MA program prepares candidates to assume advanced roles in the field of Special Education. Current research and evidence-based practices in the field of Special Education underpin the curriculum. The program consists of a core of advanced coursework, electives, and a culminating experience (project or thesis) that supports advanced study in the field of Special Education. There are 30 units of course work with a minimum of 19-semester units completed in residence. Candidates who apply to both the Master of Arts Degree and the Teacher Induction Program must adhere to the requirements for both programs (e.g., GPA and course grade requirements).

## Preliminary Credentials

The Special Education Program offers the following Education Specialist Instruction Credentials:

- Mild/Moderate Support Needs (MMSN), authorizes the holder to conduct assessments specific to student progress in the core academic areas and to provide services to students who have Autism (Autism), Emotional Disturbance (ED), Intellectual Disability (ID), Multiple Disabilities (MD), Other Health Impairment (OHI) , Orthopedic Impairment (OI) , Specific Learning Disability (SLD) and Traumatic Brain Injury (TBI) and authorizes service in grades K-12 and classes organized primarily for adults through age 22.
- Extensive Support Needs (ESN), authorizes the holder to work with students who have Autism (Autism), Deaf-Blindness (DB), Emotional Disturbance (ED), Intellectual Disability (ID), Multiple Disabilities (MD), Other Health Impairment (OHI) , Orthopedic Impairment (OI), Specific Learning Disability (SLD) and Traumatic Brain Injury (TBI) and authorizes service in grades K-12 and classes organized primarily for adults through age 22.
- Early Childhood Special Education (ECSE), authorizes the holder to work with children who have mild/moderate support needs and extensive support needs listed above and traumatic brain injury; and authorizes the provision of services to infants, toddlers, and young children from birth to age 5 with stated disabilities and their families.

CSUDH offers two credential pathways: Intern and Student Teaching. Both programs consist of pre-service, general and special education coursework, robust field experiences, and a culminating experience.

Student Teaching is a traditional credential pathway that allows candidates to student teach in public school P-12 classrooms under the guidance of a Master Teacher while completing university coursework. The University works with the candidate to match the candidate with Master Teachers in schools we have formal agreements with.

The Intern pathway allows candidates to work in P-12 schools as teachers of record while they complete the needed university coursework to become fully credentialed teachers. The Special Education program has formal agreements with school districts, non-public schools (NPS), and charter schools where interns are employed.

## Integrated Teacher Education Program (ITEP) Education Specialist Mild/Moderate Support Needs

The ITEP Program for the Education Specialist Mild/Moderate Support Needs Credential is an option within the undergraduate Liberal Studies major wherein students earn a BA degree in Liberal Studies while also earning an Education Specialist Credential-Mild/Moderate Support Needs (Student Teaching Option only). To meet all requirements for the ITEP program, students must also complete a depth of study in Educating Children with Disabilities and be accepted into the Special Education Credential Program. The total number of units for the BA and Credential is 135 units. Please see the Liberal Studies section of the catalog, as well as an advisor in the Liberal Studies Office for more information about the ITEP Option. **Note: Liberal Studies is not currently accepting students into the Integrated Teacher Education Program - Education Specialist Mild/Moderate Support Needs Program.**

## Teacher Induction Program (Clear Credential)

The California Commission on Teacher Credentialing (CCTC) established a two-tier special education teaching credential structure. A five-year Preliminary Education Specialist Instruction Credential is the first document issued after an individual has met basic credential requirements. The Clear Credential is issued on completion of a CCTC approved Teacher Induction Program that focuses on the teacher's needs to expand and deepen knowledge, skills, and abilities targeted to the teacher's employment and career goals in their development as a special education teacher. An individual with special education preliminary teaching credentials completes the Clear Credential requirements through the development of an Individual Learning Plan (ILP) in the Teacher Induction Program. The ILP includes appropriate professional development and/or coursework designed to expand and apply the candidate's skills and knowledge based on the California Standards for the Teaching Profession. The ILP identifies the coursework, experiences, and/or tasks that must be completed and assessed while guiding the activities to support the growth and improvement of professional practice.

## Admission Requirements

Below are the general program admissions requirements for entry into the Special Education programs followed by program specific requirements. Candidates may apply to the Preliminary or Teacher Induction Program, the MA, or the MA and Teacher Induction Program. Candidates must hold a Preliminary credential to enroll in the Induction Program.

Candidates who desire to enroll in the Teacher Induction Program and MA are advised to do so simultaneously. In addition to the admission requirements listed below, candidates are advised to follow the detailed requirements on the Special Education program application.

## General Program Admission Requirements

1. Admission to the university.
2. Application (with resume) to specific credential and/or MA degree program.
3. A bachelor's degree from an accredited college or university; official transcripts of all college course history including degree posted.
4. Acceptable grade point average (GPA): Preliminary credential programs require a 2.75 GPA in the last 60 semester units of upper-division and the Teacher Induction Program and MA degree require a 3.0 GPA in the last 60 semester units of upper-division and post-baccalaureate work.
5. Two professional references from supervisory individuals acquainted with the applicant's professional work with children or adolescents and his/her ability to complete successfully a graduate-level program.

## Master of Arts in Special Education Admission Requirements

In addition to the General Program Admission Requirements the following MA requirements must be met:

1. Valid initial and/or advanced Special Education credential (e.g., California Level I/II, Preliminary/Clear, or Life Special Education Teaching Credential; hold closely aligned certification or demonstration of content knowledge in the field; out of state or international candidates must have equivalent credentials, or demonstration of deep content knowledge).
2. Candidates who are applying to both the MA and Teacher Induction Program must do so simultaneously.
3. Successful admission to the university with the following conditions:
  - Candidates who satisfy all the requirements for university and program admission will be admitted fully with Classified Standing.
  - Candidates accepted with Conditional Standing will have one semester to meet the conditions for Classified Standing.
4. The Graduation Writing Assessment Requirement (GWAR) must also be met in order to advance to Classified status.
5. The Graduation Writing Assessment Requirement can be met on the CSU Dominguez Hills campus by one of the following:
  - A baccalaureate degree from an accredited college or university in the United States.
  - A baccalaureate degree from an accredited non-US institution where English is the primary language of instruction.
  - Graduate students who earned a 4 or above on the analytical writing component of the Graduate Record Examinations (GRE) or the Graduate Management Admission Test (GMAT).
  - Students from a baccalaureate program offered in non-English speaking university settings can qualify to enter a graduate program by meeting one of the following options: take the Test of English as a Foreign Language (TOEFL) and achieve a score of 550 (paper-based); 80 (internet-based); 213 (computer-based); or achieve an International English Language Testing System (IETLS) score of 6.5.

## Preliminary Credentials Admission Requirements

In addition to the general program admission requirements, the following prerequisites are common to all Preliminary credential programs (Intern and Student Teaching Options):

1. Verification of Basic Skills Requirement (BSR may be met by a passing score on the CBEST, verification of coursework, or other qualifying exams). See options for meeting basic skills at <https://www.csudh.edu/coe/resources-links/meeting-the-basic-skills-requirement/>
2. Verification of Subject Matter through the CSET Exam or through a CTC-approved Subject Matter Program or coursework (for additional information please see Ways to Meet Subject Matter (csudh.edu) (<https://www.csudh.edu/coe/info-students/ways-to-meet-subject-matter/>)  
**Notes:** 1. Subject Matter is not required for the ECSE credential. 2. Subject Matter is required to enter Final Fieldwork in the Student Teaching Option. 3. Subject Matter is required to apply for an Intern Credential in both MMSN and ESN programs.
3. Verification of U.S. Constitution requirement through university coursework with a minimum grade of C or passage of the US Constitution Exam.
4. Valid Certificate of Clearance.
5. Tuberculosis test and vaccination verifications.

In addition to the general program admission requirements, the following are specific for the Intern Option only:

1. Verification of full-time employment in an appropriate teaching position in a public school district, non-public school (NPS), or charter school with CSUDH Memorandum of Understanding (Intern Agreement).

2. Successful completion of the three pre-service courses (SPE 480 Educating Exceptional Children and Youth; SPE 458 Positive Classroom Environments and SPE 462 Language, Literacy and Cognition) or the equivalent with a grade of "B-" or better for advancement to Intern status. Candidates who hold a Preliminary or Level I credential in another specialization or General Education may take the Pre-services classes in the first semester of their Internship.
3. Proof of advisement from Special Education Faculty or Advisor prior to applying for the Intern Credential.
4. Submission of Intern Credential Application **and** obtaining verification of the Intern Credential issued by CCTC.

## Teacher Induction Program Admission Requirements

In addition to the general program admission requirements, the following are specific for the Teacher induction Program (Leading to a Clear Credential):

1. Initial credential (e.g., California Level I or Preliminary; out-of-state candidates must have equivalent credentials).
2. Verification of full-time employment in an appropriate teaching position in a public school district, non-public school (NPS), or charter school.
3. Agreement by the employer to provide a site-based mentor.
4. Certificate of Clearance.
5. Tuberculosis test and vaccination verification

## Program Requirements

All programs require candidates to adhere to specific requirements throughout the length of the program. Foremost, candidates must adhere to all ethical and professional standards required by the university, professional organizations, and/or accrediting affiliations associated with the degree and credential. Candidates must, at all times, demonstrate high-quality interpersonal skills with faculty, staff, fellow candidates, and others. If candidates fail to meet this requirement, they are subject to disqualification from the program. The following are the requirements for the MA degree and credential programs.

## Master of Arts in Special Education Program Requirements

1. A minimum GPA of "B" in all coursework. Candidates must maintain a "B" average in all coursework. No course grade lower than a "C" may be used toward the MA. However, for candidates who are simultaneously in the Clear and MA, no course grade lower than a "B-" may be used toward the Clear credential.
2. Continuous Enrollment. Candidates are required to maintain enrollment throughout their MA program. Candidates who have completed the maximum number of required units but have not completed their culminating activity (e.g., thesis or comprehensive examination) must enroll in SPE 600 Graduate Continuation Course every semester, not to exceed two semesters. As per University Policy graduate courses may only be taken two times. In order to enroll in SPE 600 Graduate Continuation Course, candidates must submit an application form (available online) prior to enrollment (see University Policy on Continuous Attendance Requirement).
3. Transfer Credit. A maximum of 12 units of coursework from an accredited college or university; coursework must be no older than seven (7) years from the date of MA degree completion.
4. Time Limit on Coursework. Candidates must complete all of the requirements for the degree or credential within seven (7) years. This time limit commences with the semester of the earliest course used on the candidate's program of study. Outdated coursework must be validated or repeated (see University Policy on Outdated Coursework).
5. Capstone Requirement for the Master's Degree. Candidates have the option of completing an approved project or a thesis and are required to make this decision when applying for classified standing. Once candidates have advanced to candidacy, they may not change from one option to the other.
6. Candidates completing a thesis must enroll in SPE 599 Graduate Capstone in Special Education for a minimum of one semester. To satisfy the continuous enrollment policy, students are expected to enroll in SPE 600 Graduate Continuation Course unless they are enrolled in other courses.

## Preliminary Credentials Program Requirements

1. A minimum GPA. Candidates must maintain an overall "B" average in all Special Education coursework. No course grade lower than a "B-" may be used toward any credential. **Note:** TED courses in the Preliminary credential must have a grade of "C" or higher.
2. Field Experience. Candidates must have access to classrooms to complete field experience coursework.
3. Transfer Credit. A maximum of 9 units of coursework from an accredited college or university; coursework must be no older than seven (7) years from the date of credential completion.
4. Time Limit on Coursework. Candidates must complete all of the requirements for the degree or credential within seven (7) years. This time limit commences with the semester of the earliest course used on the candidate's program of study. Outdated coursework must be repeated and validated (see University Policy on Outdated Coursework).

For information specific to undergraduate pathways please see BA Liberal Studies (<https://catalog.csudh.edu/academics/liberal-studies/liberal-studies-ba/>)



## Post-Baccalaureate Programs

### Authorization

- Early Childhood Special Education Authorization (<https://catalog.csudh.edu/academics/special-education/early-childhood-special-education-authorization/>)
- Pre-Service Teacher Bilingual Authorization in Spanish, Certificate (<https://catalog.csudh.edu/academics/teacher-education/bilingual-authorization-certificate/>)

### Certificates

- Assistive Technology Specialist, Certificate (<https://catalog.csudh.edu/academics/special-education/assistive-technology-specialist-certificate/>)
- Pre-Service Teacher Bilingual Authorization in Spanish, Certificate (<https://catalog.csudh.edu/academics/teacher-education/bilingual-authorization-certificate/>)

### Credentials

- Early Childhood Special Education Authorization (<https://catalog.csudh.edu/academics/special-education/early-childhood-special-education-authorization/>)
- PK-3 ECE Specialist Instruction Credential (p. 369)
- Preliminary Education Specialist: Early Childhood Special Education, Intern Option, Credential (<https://catalog.csudh.edu/academics/special-education/early-childhood-special-edu-intern-option/>)
- Preliminary Education Specialist: Early Childhood Special Education, Student Teaching Option, Credential (<https://catalog.csudh.edu/academics/special-education/early-childhood-special-edu-student-teaching-option/>)
- Preliminary Education Specialist: Extensive Support Needs, Intern Option, Credential (<https://catalog.csudh.edu/academics/special-education/extensive-support-needs-intern-option/>)
- Preliminary Education Specialist: Extensive Support Needs, Student Teaching Option, Credential (<https://catalog.csudh.edu/academics/special-education/extensive-support-needs-student-teaching-option/>)
- Preliminary Education Specialist: Mild to Moderate Support Needs, Intern Option, Credential (<https://catalog.csudh.edu/academics/special-education/mild-moderate-support-needs-intern-option/>)
- Preliminary Education Specialist: Mild to Moderate Support Needs, Student Teaching Option, Credential (<https://catalog.csudh.edu/academics/special-education/mild-moderate-support-needs-student-teaching-option/>)
- Teacher Induction Program (Clear Credential) (<https://catalog.csudh.edu/academics/special-education/teacher-induction-program/>)

## Master's Programs

### Master

- Special Education, Master of Arts (<https://catalog.csudh.edu/academics/special-education/special-education-ma/>)

### Faculty

Dr. Kate Esposito, Chair

Drs. Kelli Beard, Jenny Chiappe, Kai Greene, Conrad Oh Young

Dr. Elaine Semple, Clinical Coordinator

Dr. Patricia Maricich,, Teacher Induction Coordinator

Department Office: COE 1401, (310) 243-2779

### Emeriti Faculty

Dr. Carrie Ann Blackaller, Dr. Judith Jackson, Dr. Caron Mellblom-Nishioka, Dr. Ann Selmi, Dr. Karl Skindrud

## PK-3 ECE Specialist Instruction Credential

### Program Description

The PK-3 Early Childhood Education Specialist Credential is designed to prepare candidates for teaching in self-contained early childhood settings from preschool to grade 3. The program also allows for English learner authorization and potential to add a Bilingual Authorization in Spanish.

The program offers a traditional student teaching pathway where candidates are not contracted teachers and assigned to a mentor teacher for their supervised practicum. Candidates will have two semesters of clinical practice (one in PK/TK and one in K-3 setting). Candidates will also be able to receive up to 200 hours of clinical practice equivalency based on the guidelines set forth by the California Commission on Teacher Credentialing

(CCTC). The program will also offer an intern option after students have completed their pre-service courses and are offered a teacher position in a school/district that has a Memo of Understanding with the College of Education.

The program is structured in 3 semesters in the traditional student teaching pathway. Students can complete their first semester during their last semester of their senior year or as a post-baccalaureate. During the last two semesters of the credential program, students will participate in practicum in a range of settings. Students can receive up to 200 hours of clinical practice equivalency (based on the criteria set by CCTC in the PK-3 Handbook). However, students will need sufficient hours to meet expectations set forth by their practicum setting and to complete both cycles of the California Teaching Performance Assessment (CalTPA). Depending on when students switch over to the intern credential, they may take up to 4 semesters.

Coursework and practicum will provide students the opportunity to apply knowledge of the Teaching Performance Expectations (TPEs) for the PK-3 credential. The program is designed to engage future PK-3 teachers to design, implement, and facilitate learning activities based on students' developmental levels. The program also prepares teachers to work in urban schools with multicultural and multilingual students with diverse needs. The program ensures candidates learn how to use state adopted student content standards and frameworks such as California's K-3 Student Content Standards and Frameworks and the Preschool Learning Foundations and Curriculum Framework to provide accessible for all young children.

The PK-3 Early Childhood Education Specialist Credential will be accredited by the California Commission on Teacher Credentialing (CCTC, 1900 Capitol Street, Sacramento, CA 95814).

### Pathways Options

There are two pathways that candidates can take in the program: Student Teaching Pathway and Intern Pathway. The traditional Student Teaching Pathway will allow students to complete their clinical practice in two different settings (PK/TK and K-3) in a Pre-Student Teaching practicum and a Student Teaching practicum. Candidates in this option may receive up to 200 hours of clinical practice equivalency for their prior ECE teaching experience or undergraduate supervised ECE practicum (criteria set by the CCTC). Students who receive 200 hours of clinical practice equivalency do not need to complete the Pre-Student Teaching Practicum in PK/TK (200 hours), and they will complete the Student Teaching Practicum in a K-3 setting (400 hours). The Intern Pathway will allow candidates who receive an offer of employment to work as an intern teacher in PK-3 settings. Candidates will complete the Pre-Student Teaching Practicum and Seminar in one of two settings (PK/TK OR K-3) and complete their Advanced Intern Practicum in the other setting. If candidates receive 200 hours of clinical practice equivalency for an ECE setting, they will complete their Initial and Advanced Intern Practicums in a K-3 setting.

## Admission Requirements

Apply to the University and COE online

- Official transcripts of all colleges with degree posted
- 2.75 GPA in the last 60 semester units attempted or 2.50 in all baccalaureate and post baccalaureate coursework
- Copy of valid Certificate of Clearance. Live Scan Service form must be filed with the State of California, Commission on Teacher Credentialing
- Evidence of current negative TB test results or chest x-ray, no older than 4 years at the time of start term
- Verification of U.S. Constitution requirement by course (grade C or better) or by US Constitution Exam

### Program Requirements

There are two pathways that candidates can take in the program: Student Teaching Option and Intern Option.

#### Student Teaching Pathway

The traditional Student Teaching Pathway will allow students to complete their clinical practice in two different settings (PK/TK and K-3) in a Pre-Student Teaching practicum and a Student Teaching practicum.

Code	Title	Hours
<b>Semester 1</b>		
ECE 400	Developmentally Appropriate Practices in Early Childhood Education	3
LBS 410	Early Language and Literacy	3
LBS 430	STEAM for Young Learners	3
LBS 370	Multicultural Studies	3-4
or CDV 363	Development in Diverse Contexts	
<b>Semester 2</b>		
ECE 420	Math for Early Childhood and Elementary Learners	3
ECE 450	Curriculum and Instruction 1: Engaging Families in Instruction and Assessment	3
SPE 482	Educating Students with Special Needs within Inclusive Settings	3
ECE 469	Pre-Student Teaching Practicum <sup>1</sup>	6

ECE 470	Pre-Student Teaching Seminar and CalTPA Cycle 1 <sup>1</sup>	2
<b>Semester 3</b>		
ECE 451	Curriculum and Instruction 2: Integrated Methods	3
ECE 460	Language and Literacy for K-3	3
ECE 479	Student Teaching Practicum <sup>1</sup>	6
ECE 480	Student Teaching Seminar and CalTPA Cycle 2 <sup>1</sup>	2
<b>Total Hours</b>		<b>43-44</b>

<sup>1</sup> Candidates who receive 200 hours of clinical practice equivalency do not need to complete the Pre-Student Teaching Practicum (ECE 469) and Seminar (ECE 470). They will complete the Student Teaching Practicum in a K-3 setting (400 hours).

### Intern Pathway

The Intern Pathway will allow candidates who receive an offer of employment to work as an intern teacher in PK-3 settings. Candidates will complete the Pre-Student Teaching Practicum and Seminar in one of two settings (PK/TK OR K-3) and complete their Advanced Intern Practicum in the other setting. If candidates receive 200 hours of clinical practice equivalency for an ECE setting, they will complete their Initial and Advanced Intern Practicums in a K-3 setting.

Code	Title	Hours
<b>Semester 1</b>		
ECE 400	Developmentally Appropriate Practices in Early Childhood Education	3
LBS 410	Early Language and Literacy	3
LBS 430	STEAM for Young Learners	3
LBS 370	Multicultural Studies	3-4
or CDV 363	Development in Diverse Contexts	
<b>Semester 2</b>		
ECE 420	Math for Early Childhood and Elementary Learners	3
ECE 450	Curriculum and Instruction 1: Engaging Families in Instruction and Assessment	3
SPE 482	Educating Students with Special Needs within Inclusive Settings	3
ECE 469	Pre-Student Teaching Practicum <sup>1</sup>	6
or ECE 471	Initial Intern Practicum	
ECE 470	Pre-Student Teaching Seminar and CalTPA Cycle 1 <sup>1</sup>	2
or ECE 472	Initial Intern Seminar and CalTPA Cycle 1	
<b>Semester 3</b>		
ECE 451	Curriculum and Instruction 2: Integrated Methods	3
ECE 460	Language and Literacy for K-3	3
ECE 481	Advanced Intern Practicum <sup>1</sup>	6
ECE 482	Advanced Intern Seminar and CalTPA Cycle 2	2
<b>Total Hours</b>		<b>43-44</b>

<sup>1</sup> Candidates who receive 200 hours of clinical practice equivalency will take ECE 471 and ECE 472. Their Initial Intern Practicum and Advanced Intern Practicum will be completed in a K-3 setting.

## Teaching English to Speakers of Other Languages

### Program Description and Features

Our TESOL M.A. program prepares students to teach adult English as a second language or English as a foreign language. Many of our graduates go on to teach community college or adult school ESL classes; many others have found good positions teaching abroad. Also, this program provides a good foundation for those who plan to pursue a doctorate in either Linguistics or Applied Linguistics. The program consists of 10 core classes and comprehensive examinations. Students learn about theories of second language acquisition and applied linguistic theories. They learn how to support English as a second language learners, what techniques to use in the classroom and what activities will make their learning experience better. They learn how to lesson plan, write teaching objectives, and design classes for any level of English learners. They also reflect on how to prepare second language learners to confront the challenges they face every day, both linguistically and culturally.

## Academic Advisement

All full-time faculty serve as academic advisors. Students may either choose their own advisor, or they might be assigned to advisors. Students who might like to be assigned to an advisor should come to the department office for assistance.

## Program Requirements

The Master of Arts Degree in Teaching English to Speakers of Other Languages requires completion of 10 courses. After completion of all course work or during the last semester of course work, the M.A. degree candidate may apply to take the culminating exercise, the M.A. comprehensive examination. Candidates must pass the comprehensive written examination to earn the master's degree. There is only one retake opportunity.

## Admission Requirements

All applicants to the M.A. in the Teaching of English to Speakers of Other Languages (TESOL) must follow all application and admission procedures outlined in the university graduate application booklet. To be admitted to the program, the applicant must have earned a baccalaureate degree from an accredited university or college and a grade point average of 3.0 or better in the last 60 semester units of upper division course work attempted (not including extension units). Applicants with majors other than linguistics may be accepted into the program, but should expect to do additional work to gain the background necessary for success in their graduate courses.

*No results were found.*

## Faculty

Andrew Kalaidjian, Department Chair

Iara Mantenuto, Associate Chair

Debra Best, Iara Mantenuto, Malik Stevenson

Department Office: LCH E-315, (310) 243-3322

## Emeriti Faculty

Burckhard Mohr, Vanessa Wenzell, Ed Zoerner

## Teaching English to Speakers of Other Languages, Certificate

The Certificate in the Teaching of English to Speakers of Other Languages (TESOL) is a program of study designed for teachers and prospective teachers seeking competence in the teaching of English to speakers of other languages. The program combines upper division and graduate courses in English, linguistics and education. Courses completed as part of other programs of study may be applicable toward the certificate. Candidates must maintain a grade point average of 3.0 or better in the program.

## Requirements

### Prerequisites

1. An acceptable baccalaureate degree from an accredited institution and a grade point average of 2.5 or better over the last 60 semester units attempted.
2. A minimum of one year's work in a foreign language.

Code	Title	Hours
ENG 314	English Syntax: Traditional	3
ENG 486 or ENG 586	ESL Teaching Methods	3
ENG 311 or ENG 312	Phonology	3
	Morphology	3
Select two courses from the following:		6
ENG 487	Introduction to Second-Language Learning and Teaching	
ENG 581	Semantics, Pragmatics and Discourse	
ENG 585	Second Language Acquisition	
ENG 587	Seminar: Current Issues in TESL/Applied Linguistics	
ENG 588	Sem: Pedag Gram For TESOL	

Select a practicum with the prior approval of the TESOL Coordinator

**Total Hours** 15

## Teaching English to Speakers of Other Languages, Master of Arts Requirements (39 units)

Code	Title	Hours
<b>Prerequisites</b>		
ENG 311	Phonology	3
ENG 312	Morphology	3
ENG 315	Theoretical Syntax	3
<b>Required Courses</b>		
ENG 513	History of English Language	3
ENG 514	American English	3
ENG 581	Semantics, Pragmatics and Discourse	3
ENG 582	Seminar: Linguistic Analysis	3
ENG 583 or ENG 584	Seminar: Psycholinguistics Seminar: Sociolinguistics	3
ENG 585	Second Language Acquisition	3
ENG 586	ESL Teaching Methods	3
ENG 587	Seminar: Current Issues in TESL/Applied Linguistics	3
ENG 588	Sem:Pedag Gram For TESOL	3
ENG 592	Seminar:Topics in Linguistics	3
Capstone: Comprehensive Examination		

**Total Hours** 39

- Knowledge Base. Linguistics/Applied Linguistics. Students will demonstrate expertise, both orally and in writing, in important subdisciplines of linguistics and applied linguistics, including language pedagogy. Students will respond critically to linguistics scholarship, citing appropriate sources. (ILO 1, 2, 3, 4, 5)
- Effective Communication. Students will write a variety of documents (e.g., essays, short papers, reviews, fieldwork), following disciplinary
- Research. Students will produce original research papers and/or projects that present new findings or proposals in the fields of linguistics and ESL pedagogy. Students will situate their work within current disciplinary and/or theoretical understandings and conduct their research following ethical conventions of the profession throughout all stages. (ILO 1,2,3,5,6)
- Language Pedagogy. Students will evaluate theories, approaches, and methods that influence language teaching. Students will connect language teaching activities to relevant theories, approaches, and methods. Students will prepare and deliver effective and socially responsible ESL/EFL lessons, both individually and in groups. (ILO 1,2,3,4,6)