

## Address all inquiries to:

Office of Admissions California State College, Dominguez Hills 809 East Victoria Dominguez Hills, California 90247

> Catalog Price: One Dollar, plus tax and postage

# CALIFORNIA STATE COLLEGE DOMINGUEZ HILLS

CATALOG 1968 - 1969

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## ACADEMIC CALENDAR 1968-69

#### FALL QUARTER 1968

September 23, Monday	First day to file application for admission or readmission for the Winter Quarter 1969.	
October 9, Wednesday	Testing for freshmen; orientation, aca- demic advisement, and registration for transfer students.	
October 10, Thursday	Orientation, academic advisement, and reg- istration for freshmen.	
October 14, Monday	Classes begin.	
October 18, Friday	Last day to add classes.	
October 28, Monday	Last day for refund of Materials and Serv- ice Fee.	
November 7, Thursday– November 18, Monday		
November 8, Friday	Last day to drop classes without academic penalty; last day for refund of Non-Resi- dent Tuition Fee.	
November 12, Tuesday– November 15, Friday	Academic advisement for continuing stu- dents.	
November 18, Monday– November 26, Tuesday		
November 28, Thursday– December 1, Sunday-		
December 2, Monday	First day to file for admission or readmission for the Spring Quarter 1969.	
December 17, Tuesday	Last day of classes.	
December 18, Wednesday– December 20, Friday		
December 23, Monday– January 1, Wednesday	Christmas recess.	

#### WINTER QUARTER 1969

January 2, Thursday	Orientation and academic advisement for new students; registration and payment of fees for all students.
January 3, Friday	Classes begin.
January 9, Thursday	Last day to add classes.

January 17, Friday	Last day for refund of Materials and Serv- ice Fee.
January 30, Thursday	Last day to drop classes without academic penalty.
January 31, Friday	Last day for refund of Non-Resident Tui- tion Fee.
February 17, Monday	First day to file application for admission or readmission for the Fall Quarter 1969.
	Registration materials available for con- tinuing students.
February 25, Tuesday– February 28, Friday	Academic advisement for continuing stu- dents.
March 3, Monday- March 7, Friday	Registration-by-mail period for continuing students.
March 14, Friday	Last day of classes.
March 17, Monday– March 19, Wednesday	Final examinations.
March 20, Thursday– March 24, Monday	Academic recess.
SPRING	QUARTER 1969
March 25, Tuesday	Orientation and academic advisement for new students; registration and payment of fees for all students.
March 26, Wednesday	Classes begin.
April 1, Tuesday	Last day to add classes.
April 4, Friday	Good Friday—College Holiday.
April 8, Tuesday	Last day for refund of Materials and Serv- ice Fee.
April 22, Tuesday	Last day to drop classes without academic penalty.
April 25, Friday	Last day for refund of Non-Resident Tui- tion Fee.
May 15, Thursday– May 26, Monday	Registration materials available for con- tinuing students.
May 26, Monday– June 5, Friday	Registration-by-mail period for continuing students.
	Memorial Day—All-College Holiday.

June 9, Monday.....Last day of classes.

June 11, Wednesday-June 13, Friday-Final examinations.

June 14, Saturday......Commencement.

## TRUSTEES OF THE CALIFORNIA STATE COLLEGES

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Max Rafferty, A.B., M.A., Ed.D. State Superintendent of Public Instruction 721 Capitol Mall, Sacramento 95814

Glenn S. Dumke, A.B., M.A., Ph.D., LL.D., L.H.D. 5670 Wilshire Boulevard, Los Angeles 90036 Chancellor of the California State Colleges

#### APPOINTED TRUSTEES

Appointments are for a term of eight years expiring March 1 on dates in parentheses. Names are listed in order of accession to the Board.

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> > Donald M. Hart, B.A. (1968) P.O. Box 1556, Bakersfield 93302

Charles Luckman, LL.D., A.F.D. (1974) 9220 Sunset Boulevard, Los Angeles 90069

Paul Spencer, B.A. (1969) 1323 La Terracita Drive, San Dimas 91773

> Theodore Meriam, A.B. (1971) P.O. Box 370, Chico 95927

Albert J. Ruffo, LL.B., B.S. in E.E. (1971) 600 Bank of America Building, San Jose 95113

Mrs. Philip Conley, B.A. (1972) 3729 Huntington Boulevard, Fresno 93702

> E. Guy Warren, B.A. (1973) P.O. Box 59, Hayward 94541

Daniel H. Ridder, B.A. (1975) 604 Pine Street, Long Beach 90801

George D. Hart, A.B. (1975) 111 Sutter Street, San Francisco 94104

Gregson E. Bautzer, B.A., LL.B. (1968) 9601 Wilshire Boulevard, Suite 726, Beverly Hills 90210

> James F. Thacher, A.B., LL.B. (1970) 310 Sansome Street, San Francisco 94104

Alec L. Cory, B.A., LL.B. (1973) 1900 First National Bank Building, San Diego 92101

> William A. Norris, B.A., LL.B. (1972) 609 South Grand, Los Angeles 90017

> > Edward O. Lee, B.A. (1974) 1100 67 Street, Oakland 94608

Earle M. Jorgensen (1970) 10650 South Alameda, Los Angeles 90054

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Theodore Meriam Vice-Chairman Chancellor Glenn S. Dumke Secretary-Treasurer

### OFFICE OF THE CHANCELLOR THE CALIFORNIA STATE COLLEGES

5670 WILSHIRE BOULEVARD LOS ANGELES, CALIFORNIA 90036 213 938-2981

Chancellor

**Executive Vice Chancellor** 

Vice Chancellor, Academic Affairs

Vice Chancellor, Business Affairs

Assistant Chancellor, Faculty and Staff Affairs

Glenn S. Dumke Raymond A. Rydell Russell G. Whitesel Harry E. Brakebill C. Mansel Keene

## THE CALIFORNIA STATE COLLEGES

California State College, Dominguez Hills 809 East Victoria Street, Dominguez Hills, California 90247	,	
Leo F. Cain, President		532-4300
California State College at Fullerton 800 North State College Boulevard, Fullerton, California 926	31	
William B. Langsdorf, President	714	871-3300
California State College at Hayward 25800 Hillary Street, Hayward, California 94542		
Ellis E. McCune, Interim President	415	538-8000
California State College at Long Beach 6101 East Seventh Street, Long Beach, California 90804		
Carl W. McIntosh, President	213	433-0951
California State College at Los Angeles 5151 State College Drive, Los Angeles, California 90032		
John A. Greenlee, President	213	224-2011
California State College at San Bernardino 5500 State College Parkway, San Bernardino, California 924	07	
John M. Pfau, President	714	887-6311
California State Polytechnic College, Kellogg-Voorhis 3801 West Temple Avenue, Pomona, California 91766		
Robert C. Kramer, President	714	964-6424
California State Polytechnic College, San Luis Obispo San Luis Obispo, California 93401		
Robert E. Kennedy, President	805	546-0111
Chico State College 1st and Normal Streets, Chico, California 95926		
Robert F. Hill, President	916	343-4411

Fresno State College		
Shaw and Cedar Avenues, Fresno, California 93726		
Frederic W. Ness, President	209	487-9011
Humboldt State College Arcata, California 95521		
Cornelius H. Siemens, President	707	822-1771
Sacramento State College 6000 Jay Street, Sacramento, California 95819		
Robert Johns, President	916	454-6011
San Diego State College 5402 College Avenue, San Diego, California 92115		
Malcolm A. Love, President	714	286-5000
San Fernando Valley State College 18111 Nordhoff Street, Northridge, California 91324		
Ralph Prator, President	213	349-1200
San Francisco State College 1600 Holloway Avenue, San Francisco, California 94132		
John Summerskill, President	415	469-9123
San Jose State College 125 South Seventh Street, San Jose, California 95114		
Robert D. Clark, President	408	294-6414
Sonoma State College 1801 East Cotati Avenue, Rohnert Park (Cotati), California 9	4928	
Ambrose R. Nichols, President	707	795-2011
Stanislaus State College 800 Monte Vista Avenue, Turlock, California 95380		
Alexander Capurso, President	209	634-9101
California State College in Kern County 615 California Avenue, Bakersfield, California 93304		
Paul F. Romberg, President	805	327-9101

## THE STATE COLLEGE SYSTEM

The California State Colleges are a unique development of the democratic concept of tax-supported public higher education for all qualified students.

Spanning the state from Humboldt County in the north to San Diego in the south, the 18 campuses of the California State Colleges (with another campus soon to be constructed) represent the largest system of public higher education in the Western Hemisphere and one of the largest in the world. Current enrollment exceeds 188,000 full and parttime students. The faculty and administrative staff numbers approximately 10,000.

The individual colleges, each with a geographic, curricular and academic character of its own, offer a solid basic program in the liberal arts. Beyond this, each college is noted for its individuality in academic emphasis which makes for a diversified system. Course offerings leading to the bachelor's and master's degree are designed to satisfy existing student interests and to serve the technical and professional manpower requirements of the state.

The California State Colleges are dedicated to rigorous academic standards. Constant striving for academic excellence is at the heart of the system. The primary responsibility of each faculty within the system is the instructional process on the teacher-student level, with appropriate recognition of the necessary and constructive role of research in any institution of higher education.

Responsibility for the California State Colleges is vested in the Board of Trustees, which is appointed by the Governor, and the Board's administrative arm, the Chancellor. The Trustees and the Chancellor set broad policy for the colleges while delegating considerable independent responsibility for implementation at the college level. A statewide Academic Senate, made up of representatives elected by the faculty at each college, acts as a consultative body to the Chancellor in the area of academic affairs.

Although the oldest of the colleges, San Jose State College, dates back a century, the California State College system under an independent Board of Trustees was created by the Donahoe Act of 1960. Formerly, the colleges were under the jurisdiction of the State Board of Education.

Today, the California State Colleges are in a particularly dynamic period of their development. Prior to World War II, there were seven State Colleges with a peak total enrollment of some 13,000. Since 1947, eleven new colleges have been established and sites have been selected for new colleges in Kern, Ventura, San Mateo, and Contra Costa counties. Enrollment in the system is expected to reach 225,000 by 1970.

## CALIFORNIA STATE COLLEGE, DOMINGUEZ HILLS

#### ADVISORY BOARD

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#### COLLEGE ADMINISTRATION

President	Leo F. Cain
Assistant to the President	Robert M. Bersi
Secretary to the President	Mary R. McFall

#### **Academic Affairs**

Dean of Academic Affairs	Lyle E. Gibson
Dean, School of Humanities and Fine Arts	Marvin Laser
Dean, School of Natural Sciences and Mathematics	Robert B. Fischer
Dean, School of Social and Behavioral Sciences	Donald A. MacPhee
Director of Teacher Education Programs	Ruth A. Martinson

#### **Student Affairs**

Dean of Student Affairs M. Milo Mil	12
Associate Dean, Admissions, Records, and Relations with SchoolsPeter D. Ell	is
RegistrarLarry D. McClellan	d
Director, Counseling, Placement, and Financial AidsQuentin C. Stodo.	la
Coordinator, Placement and Financial Aids	n
Director, Student Activities and College Cultural ProgramWilliam Haga	in
Director, Health ServicesElsie Giorg	gi

#### **Business Affairs**

Business Manager	
Accounting Officer	Joseph O'Neil
Business Service Officer	Rudolph E. Pliska
Personnel Officer	Basilio Moran

#### **College Services and Facilities Planning**

Dean of College Services and Facilities	PlanningHarry A. Nethery
Building Program Coordinator	Thomas S. Bullock
Director of Research and Institutional	StudiesJ. Donald Mild
Associate Systems Analyst	Donald D. Doughty

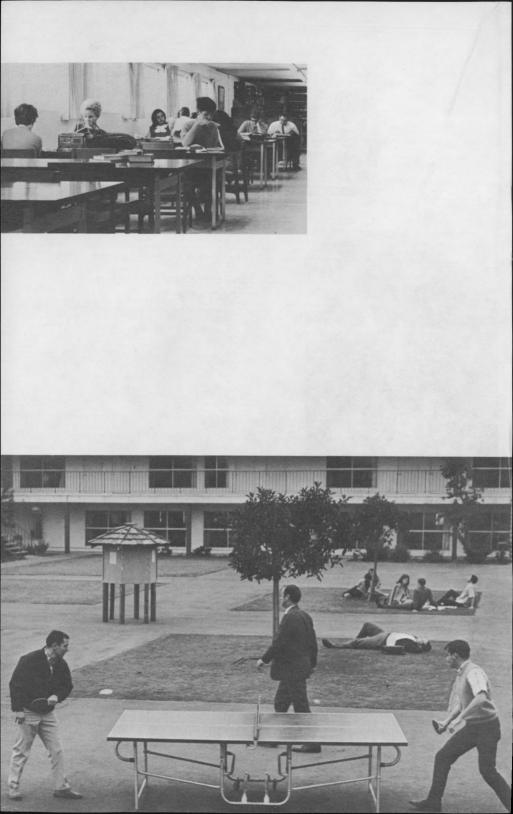
College Librarian	Edwin W. Reichard
*** * ** * **** * * ***	Bela Gallo
Librarian, Head of Public Services	
Librarian, Acquisitions	Marion K. Cobb
Librarian, Cataloging	
Coordinator, Audio Visual Services	David J. Hudson, Jr.





GROUNDBREAKING CEREMONY DECEMBER 5,1967







# THE COLLEGE

### THE COLLEGE

The Legislature of the State of California, at the First Extraordinary Session in 1960, authorized the establishment of this college as part of the California State College system to meet higher education needs in southwest Los Angeles. The first members of the planning staff were appointed in 1962. Freshman and junior students enrolled in the fall of 1965 for the first classes offered by the college.

To guide the development of this new institution, the planning staff, during the pre-opening years, undertook a series of studies designed to provide information on student needs, community needs and trends in higher education. These studies included a compilation of the future plans of students in 21 high schools and four junior colleges in the area, a survey of recent curriculum trends in colleges and universities throughout the United States, an analysis of curricula in eight nearby institutions of higher education, and a survey of industrial, business, and civic needs in the area. In addition, a series of meetings was held with administrators of the nearby junior colleges to develop articulation of program.

The undergraduate academic program, developed by the California State College, Dominguez Hills, emphasizes the liberal arts and sciences as an educational foundation for all students. It has been designed so that students will acquire competency in a specific field as well as a broad understanding of the forces and issues in modern society. Opportunity for specialization, not only in specific disciplines but also in certain applied fields and professions, is provided in later work, particularly at the graduate level. Graduates of this college, it is expected, will have developed the judgment and maturity to function as productive citizens within the changing patterns of our society.

The college stands amid the countryside of historic Rancho San Pedro and is easily accessible from anywhere in Southwest Los Angeles County. The location at 809 East Victoria Street, Dominguez Hills, is approximately one mile northeast of the junction of the Harbor and San Diego Freeways.

#### ACCREDITATION

The California State College, Dominguez Hills, is accredited by the Western Association of Schools and Colleges. Standard procedures of credit transfer between accredited institutions are therefore in effect.

#### THE COLLEGE LIBRARY

Library resources of the college include books, films, phono-discs, periodicals, tapes, slides, and maps—all of which are indispensable to modern education. These materials are conveniently available to students and faculty in an instructional materials center which is staffed by librarians and audio-visual specialists prepared to assist students in attaining their educational goals.

The basic book collection consists of 55,000 volumes, carefully selected, classified according to the Library of Congress classification system, and fully processed for use. Current subscriptions have been placed for more than 625 periodicals, and students will have easy access to these periodicals containing the latest reports and ideas in science, in the fine arts and humanities, and in the social sciences. Carefully selected retrospective periodicals are also available in bound volumes and on microfilm. The library is growing rapidly in size and value.

#### RESEARCH AND INSTITUTIONAL STUDIES

The office of Research and Institutional Studies provides centralized technical assistance and data processing services for instructional support, research, and administration.

Services supporting instructional programs include technical advice and computer processing for students enrolled in the Information Systems field as well as other departmental and interdepartmental programs and for faculty in the development and implementation of improved methods. Technical staff assistance in research methods and data processing services are available for college research programs, including the development and implementation of government and industrial research contracts and institutional evaluations and studies. Technical assistance in the development and implementation of administrative procedures and data processing for all areas of the college are also provided through this office.

#### INTERNATIONAL PROGRAMS

The California State Colleges offer academic year programs of study at a number of distinguished universities abroad. For 1968-69 the cooperating universities are: University of Aix-Marseille, France; Free University of Berlin and University of Heidelberg, Germany; University of Florence, Italy; Waseda University, Tokyo, Japan; University of Granada and University of Madrid, Spain; University of Stockholm and University of Uppsala, Sweden; National University, Taiwan. Academic work successfully completed at the cooperating universities abroad may be applied toward the degree requirements of the college in accordance with college regulations. A selection among applicants from all California State Colleges is made on the basis of academic, linguistic and personal qualifications. The criteria are:

- a. Upper division or graduate standing by the beginning of the academic year abroad;
- b. Academic achievement;
- c. Proficiency in the language of instruction;
- d. Faculty recommendations.

Cost to the student includes round trip transportation from San Francisco to the host university, room and board for the academic year, and medical insurance. In 1968–69 these costs are: France, Germany, Spain, \$2,070; Italy, Japan, \$2,170; Sweden, \$2,370; Taiwan, \$1,770. Payments may be scheduled throughout the year.

Programs in Italy, Japan, Sweden and Taiwan do not require previous linguistic preparation; applicants for all other programs must demonstrate adequate facility in the language of instruction at the host university.

Application for the 1969–70 academic year should be made early in the fall semester of 1968. Detailed information may be obtained at the office of the Dean of Students, California State College, Dominguez Hills, or by writing to the Office of International Programs, The California State Colleges, 1600 Holloway Avenue, San Francisco, California 94132.

## STUDENT ACTIVITIES AND SERVICES

The same basic educational principles underlie both the student affairs program and the instructional program of the college. The extra-class activities of the college are designed to serve the abilities, needs and interests of all students. Participants must select wisely those activities which will broaden their cultural and intellectual lives and avail themselves of those services which contribute to their self-understanding and long-range career objectives.

#### STUDENT ACTIVITIES

Student activities are coordinated by the Director of the Student Activities and College Cultural Program. Lectures, films and musical presentations; recreational intramural athletics, singing, drama, debate, and talent programs; student publications; student organizations; and student government are all a part of this phase of student life. More detailed information about the schedule of events and the policies of the college regulating these activities is available in the Student Handbook.

#### Student Government

The Student Association of the California State College, Dominguez Hills, has been organized and a constitution and by-laws for this association serve as a framework for student self-government. A student activity fee is collected from each enrolled student to support all activities of the association. The Student Association Council is the student governing body. Four commissions serve to coordinate the various activities of the Student Association: the Student Activity and College Cultural Commission, the Student Publications Commission, Inter-Club Commission, and the Finance Commission. Students from all class levels have an opportunity to participate in student government affairs.

#### Physical Education and the Athletic Program

The program of physical education is operated under the jurisdiction of the Department of Health and Physical Education within the School of Natural Sciences and Mathematics. The Basic Studies physical education instructional classes attempt to prepare the student with skills, knowledge, and appreciation for successful participation in a variety of physical activities. In addition to the instructional classes the student is provided with the opportunity to participate in intramural sports and recreational activities as regularly as his time and interests permit. The intercollegiate and extramural programs are designed for the student with ability in specific sport areas to represent the college in athletic competition with other colleges and universities.

#### STUDENT SERVICES

Student services are vital to the college in order that students gain a full educational experience—intellectual, personal, social, and physical. While the instructional program focuses on the development of the intellect, student services enrich this classroom experience. Enrolled students are encouraged to make frequent use of these services.

#### Counseling

The Student Counseling Center is provided for students who wish to confidentially discuss any problem which could deter them from fulfilling their educational objectives. While some students may be concerned with the selection of an appropriate major or vocation, other students may require the opportunity to realistically evaluate a personal or social problem which is related to the achievement of their educational objectives. A testing service, as well as the guidance of counselors, is available to students who desire to clarify the level of ability required to do academic work. The professionally trained staff of the counseling center is available to all enrolled students.

#### Placement

The College Placement Office functions as an integral part of the counseling service of the college. This office provides information, including the requirements for certain work and trends of employment, to students striving to make career decisions. The placement office arranges for employers to interview candidates for career placement prior to the completion of their degree or credential programs.

#### **Financial Aids**

Loans, grants-in-aid, and part-time employment are some of the alternatives offered to qualified students who have financial need. Students should plan to submit their financial aid applications six months prior to the expected date of entrance. In order to ascertain financial need, interested students under age 25 are required to submit a Parents' Confidential Statement to the College Scholarship Service. This form is available either from the high school scholarship counselor or from the Office of Financial Aids at California State College, Dominguez Hills. Independent students over age 25 are required to complete a special financial aid questionnaire.

Financial planning with the Coordinator of Financial Aids is recommended in order to select an appropriate program. Since several of the financial aid programs now available are sponsored by the federal government, it is important to note that these financial aid commitments are subject to change depending upon governmental appropriations. Applicants should consult with their high school counselors or the college Coordinator of Financial Aids for further information. Two *loan funds*, a college loan fund and a Federal National Defense Education Act loan fund, are available to full-time students who are in good academic standing. College loans are limited to a maximum amount of \$100 repayable in 60 days. Federal loans are approved for larger amounts and are long-term, low-interest loans which are repayable after graduation from college. Applicants for admission to the California State College, Dominguez Hills, may apply for a federal loan prior to enrollment, but loans are not granted until after students are formally enrolled in classes. More detailed information and loan applications are available upon request.

Grants-in-aid are monetary gifts for students in certain programs and activities of the college. Awards of this type frequently stipulate that the student applicant has some financial need. Information concerning these awards may be obtained from the Coordinator of Financial Aids or through campus publications.

Scholarships and fellowships are awards for academic excellence or meritorious achievement and generally are awarded to students regardless of their financial need. The Committee on Scholarship Awards receives nominations for these awards and announces recipients at various times throughout the academic year.

Part-time employment opportunities, both on-campus and off-campus, are listed by the Coordinator of Financial Aids. Since part-time work opportunities are largely dependent upon the demand for services in the community, students are encouraged to register in advance for this assistance.

The college will have *Economic Opportunity Act College Work-Study Funds* available. To be approved for college work-study, an applicant must demonstrate financial need in accordance with the criteria established by the Economic Opportunity Act. On-campus as well as off-campus work, not to exceed a total of 15 hours per week, will be available to those enrolled students who qualify.

Participants in the College Work-Study Program will be selected from applicants who meet the following qualifications:

- a. Students whose parents have a combined income of \$3,000 or less, except when the income is derived substantially from assets such as stocks or bonds or as a return on other investments, are eligible.
- b. Students from families receiving, or eligible to receive, cash or other financial assistance under a public welfare or private welfare program are eligible.
- c. Students from homes where the income level is above \$3,000 and need can be demonstrated may be eligible.

Applicants should consult the Financial Aids Office of the college for further information.

#### **Student Health**

Limited health services are available through the Health Center. Emergency medical treatment is available to students through the Health Center and through a student health insurance program. All students are encouraged to participate in a supplementary medical plan which is made available through the college. This insurance plan provides for major hospital expenses and surgical benefits for the insured. Information concerning the medical insurance programs of the college can be obtained from the Health Center.

New students are required to have their reports of medical examination on file before they enter. Medical examination forms are sent to each student with his notification of admission and must be returned to the Health Center at least three weeks prior to the commencement of the quarter in which he intends to enroll. Medical examinations are to be conducted by the family doctor at the expense of the matriculating student.

#### **Student Housing**

Until the college operates student residence halls on campus, it will have no college-approved housing for students. A housing rental listing service will be maintained by the Director of Student Activities and College Cultural Program, but this is provided solely for the convenience of students. Parents are urged to assist minor students in selecting appropriate living accommodations.

#### STANDARDS FOR STUDENT CONDUCT

The college seeks to create the optimum climate for academic excellence for both students and faculty. Within this climate, students must have the opportunity to develop an understanding of their roles as citizens in a democracy. In order to achieve these goals, the college strives to minimize its regulatory controls over individual student conduct and to maximize the opportunity for student self-control and selfdiscipline.

Students who attend the college are expected to conduct themselves in a manner compatible with the laws of federal, state and local governments, as well as with the stated purposes of the college. In general, those individual or group actions which the college finds unacceptable or detrimental to the education process are: (1) conduct generally looked upon as disorderly, unethical, vicious or immoral; (2) misuse, abuse, theft or destruction of property; and (3) willful violation of those regulations (community or college) which have been established for the general safety of all members of the group.

In a college community, it is particularly important to emphasize certain ethical standards which must be maintained, hopefully through student self-discipline. Plagiarism, cheating on examinations and the falsification of records are types of unethical behavior which would constitute an infraction of the college's academic standard for students.

While students have every opportunity to learn self-discipline in matters of social conduct, those who are unable to achieve a reasonably acceptable level of maturity are subject to certain disciplinary actions. Individual cases of student misconduct are studied by the Dean of Students and his staff and, when appropriate, referred to the Campus Judicial Board for recommended action. Since final action in cases of student misconduct can be taken only by the President of the college, the Campus Judicial Board's recommendations will be addressed to him. Penalties for misconduct may vary from expulsion from the college to a letter of censure, depending upon the circumstances of the case. In every instance where such action is prescribed, the college strives to weigh its decision in terms of its educational value to the student.

Students may appeal decisions by presenting a written petition to the Dean of Students stating the reasons why the action is considered unjust or presenting additional evidence concerning the case. The President's Council serves as an appeal board and recommends action to the President.

### THE ACADEMIC PROGRAM

The undergraduate curriculum has been developed within the framework of the liberal arts and sciences. The total program, both undergraduate and graduate, is designed to preserve a balance among offerings in the humanities and fine arts, the social and behavioral sciences, and the natural sciences and mathematics. The curriculum pattern has been designed to make certain that every student earning a degree from the college will have pursued a program of studies characterized both by breadth and by depth.

The undergraduate program for all students consists of three segments:

- 1. The Basic Studies program—approximately 40% of the course work required for the bachelor's degree.
- 2. A major consisting of a departmental field and an interdepartmental field—approximately 40%.
- 3. Elective courses—approximately 20%.

#### THE BASIC STUDIES PROGRAM

The Basic Studies program is not conceived as a set of miscellaneous courses covering the various major fields of knowledge. It consists of a group of courses that are organized in a meaningful pattern of study and have been designed to meet specific educational goals.

- 1. To help students acquire four basic intellectual abilities:
  - a. The ability to read with critical perception materials written for the non-professional in the humanities, social sciences, and natural sciences;
  - b. The ability to express ideas easily and effectively (both in written form and orally);
  - c. The ability to handle quantitative data and concepts easily, to the level that is necessary for the non-professional;
  - d. The ability to think coherently and logically about problems facing human beings.
- 2. To help students gain a knowledge of the basic facts and key principles and concepts they will need in order to participate constructively as members of a family, a community, a nation, and the entire world.
- 3. To give students an acquaintance with the nature, scope, and practical applications of every major field of knowledge.

There are eighteen full courses, plus three quarter units in Health and Physical Education 100 and 101. Six courses are required in each of the three schools of the college, with five of these offered in the lower division and the sixth one in the upper division.

#### **Basic Studies Courses**

School of Humanities and Fine Arts Art 100. Basic Studies Art English 100 and 101. Basic Studies English I, II English 102. Basic Studies Literature Music 100. Basic Studies Music Philosophy 200. Basic Studies Philosophy

School of Natural Sciences and Mathematics Biological Science 102. Basic Studies Biology Chemistry 100. Basic Studies Structure of Matter Chemistry 102. Basic Studies Chemistry Mathematics 100. Basic Studies Mathematics Physics 102. Basic Studies Physics Physics 200. Basic Studies Earth and Space Sciences

School of Social and Behavioral Sciences Economics 100. Basic Studies Economics Geography 100. Basic Studies Geography History 100. Basic Studies History Political Science 100. Basic Studies Political Science Psychology 100. Basic Studies Psychology Anthropology 200. Basic Studies Anthropology OR Sociology 200. Basic Studies Sociology

#### Substitutions for Basic Studies Courses in the Sciences

Students who plan to select departmental or interdepartmental major fields in the School of Natural Sciences and Mathematics will be permitted to substitute the following six courses for the six Basic Studies courses in the School of Natural Sciences and Mathematics.

Mathematics 110-112	Chemistry 110–112
Biology 110	Physics 110

A student majoring in one of the natural sciences or in mathematics will not forfeit his eligibility to use the above substitutions by subsequently transferring to a departmental field in the School of Humanities and Fine Arts or in the School of Social and Behavioral Sciences. If his transfer is made after completing only a portion of this substitution, the student must complete the Basic Studies requirements by selecting, under advisement, some of the regular Basic Studies courses.

#### MAJOR WITH DUAL FIELDS OF CONCENTRATION

The curriculum pattern developed at the California State College, Dominguez Hills, joins the disciplinary and interdisciplinary approaches through the major with dual fields of concentration, providing for depth in a single discipline and, through an interdepartmental field, the breadth of perspective which specialized study confined to a single field often does not give.

For the bachelor's degree, every undergraduate at the California State College, Dominguez Hills, must complete a major with two fields of concentration, a departmental field and an interdepartmental field.

The programs in the interdepartmental fields are designed to explore areas of study to which several disciplines contribute, and courses from the total offerings of the college which are pertinent to the topic under study are utilized. Each interdepartmental field will culminate in a senior seminar, which serves as a capstone to the program. The seminar is planned to give the student an opportunity to interrelate and extrapolate meanings from the content of the entire curriculum.

#### **Departmental Fields of Concentration**

<sup>1</sup>School of Humanities and Fine Arts

- 1. Art
- 2. English
- 3. French
- 4. Music
- 5. Philosophy
- 6. Spanish

#### School of Natural Sciences and Mathematics

- 7. Biological Science
- 8. Chemistry
- 9. Mathematics
- 10. Physics

School of Social and Behavioral Sciences

- 11. Anthropology<sup>2</sup>
- 12. Economics
- 13. Geography
- 14. History
- 15. Political Science
- 16. Psychology
- 17. Sociology

#### Interdepartmental Fields of Concentration

School of Humanities and Fine Arts

- 1. East Asian Studies<sup>2</sup>
- 2. Latin American Studies<sup>2</sup>

 <sup>&</sup>lt;sup>1</sup> Present course offerings in Chinese and German are listed on pages 38 and 46. Upper division courses will be added in 1970.
 <sup>2</sup> Juniors may begin this program in 1969-70.

- 3. Linguistics
- 4. Theater Arts
- 5. Twentieth Century Thought and Expression

School of Natural Sciences and Mathematics

- 6. Earth and Space Sciences
- 7. The Foundations of Natural Science
- 8. Information Systems

School of Social and Behavioral Sciences

- 9. American Business and Economic Systems
- 10. American Studies
- 11. Behavioral Sciences
- 12. International Relations<sup>1</sup>
- 13. Urban Studies and Environmental Design

<sup>1</sup> Juniors may begin this program in 1970-71.

### GRADUATE PROGRAMS

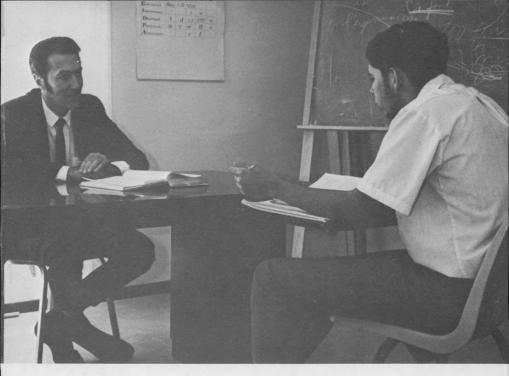
The college is currently offering programs preparing candidates for credential certification as elementary and secondary teachers. Prerequisites for admission to either of these programs and education course listings may be found on page 86.

Graduate programs leading to the master of arts degree will be gradually phased into the college curriculum in selected departmental and interdepartmental fields and in certain applied arts and sciences, such as business, subsequent to approval by the Board of Trustees of the California State Colleges.

#### Master of Arts in Behavioral Sciences

The Master of Arts in Behavioral Sciences will be the first graduate degree program offered by the college. Its objectives, as well as the requirements for the undergraduate interdepartmental program in this field, are described on pages 81–82. A brochure outlining this graduate program and requirements for admission to graduate standing may be obtained from the School of Social and Behavioral Sciences.





## MAJOR FIELDS OF CONCENTRATION AND COURSE OFFERINGS

### THE SCHOOL OF HUMANITIES AND FINE ARTS

The School of Humanities and Fine Arts offers instruction in language, literature, music, philosophy and visual arts. The School is responsible for instruction in the Basic Studies program in the humanities and fine arts; for departmental fields in art, English, foreign languages, music, and philosophy; for much of the course work in the interdepartmental fields of East Asian Studies, Latin American Studies, Linguistics, Theater Arts, and Twentieth Century Thought and Expression; and for elective courses in the departmental fields named.

Among the course offerings open to all students in the college are activities courses and workshops in drama, music, and art. These courses offer training and experience in creating works in the visual arts and in creating and performing works in the arts of music and drama. Such courses are designed as part of an overall framework for lifelong interests and not primarily as preparation for a professional career in one of these arts.

Students choosing departmental or interdepartmental fields offered by the School of Humanities and Fine Arts will ordinarily be pursuing one or more of the following objectives: completing a college education in the liberal arts and sciences with an emphasis on humanistic and fine arts studies; preparing for graduate study leading to advanced degrees in one of the fields offered by the School; preparing for a career in teaching; or preparing for a variety of pursuits in which an emphasis on the humanities and fine arts is especially desirable.

#### School Requirements for the B.A. Degree

In addition to satisfying all other college requirements for the B.A. degree, students who plan to take the degree in one of the departmental fields offered by the School of Humanities and Fine Arts have two School requirements to meet:

- a. A B.A. degree candidate must complete satisfactorily at least nine upper division full courses (or a combination of full and half courses equivalent to nine full courses) in one of the departmental patterns specified in the following pages.
- b. A B.A. degree candidate must perform satisfactorily on a comprehensive examination set by the department. The examination may consist partly of writing short papers on assigned topics in the library or at home, or with open-book privileges in an examination room. Part of the test may be oral.

#### Foreign Language

Students with major fields in the School of Humanities and Fine Arts are urged to achieve proficiency in a foreign language before completing their college careers. Such proficiency, however, is not a requirement for the B.A. degree.

#### ART

#### REQUIREMENTS FOR THE DEPARTMENTAL FIELD OF CONCENTRATION IN ART

#### Lower Division

Art 180. Visual Elements Workshop I

Art 190. Three-Dimensional Media Workshop I

#### **Upper Division**

Art 210. Ancient Art

Art 215. Medieval Art

Art 220. Renaissance Art

Art 225. Baroque Art

Art 230. Modern Art

Art 235. Oriental Art I (China, Japan, Korea) or

Art 236. Oriental Art II (India, Southeast Asia)

NOTE: An art major electing East Asian Studies as his indepartmental field and taking Oriental Art I as part of it, must also take Oriental Art II.

Art 295. Seminar in Theories of Art Criticism

One course selected upon advisement from the following:

Art 235. Oriental Art I or

Art 236. Oriental Art II

Art 250. American Art and American Society

Art 260. Latin American Art

Art 265. Primitive Art

Art 270. Twentieth Century Artists: Their Writings and Their Art

Select by advisement either

Art 280. Visual Elements Workshop II and

Art 285. Three-Dimensional Media Workshop II or

Art 297. Directed Research

In addition, each student is required to take a comprehensive examination in the field of art.

#### COURSE OFFERINGS IN ART

#### Lower Division

100. BASIC STUDIES ART. A course presenting a series of steps designed to lead to an art of seeing. Intensive study of the materials, elements, and compositional factors of a limited number of art works to uncover the underlying principles of knowing and discerning the literature of art works in several different media. Two hours of lecture and two hours of small group discussion per week.

Full Course (4)

120. FIELD STUDY IN ART. Guided observation and analysis of visual arts in various media through visits to studios, galleries, museums, and public buildings. One hour of lecture and three hours in the field per week.

One-Half Course (2)

175. DESIGN WORKSHOP. A studio course introducing the student to various problems and techniques of design in relation to practical application. Three hours per week plus additional work by arrangement.

One-Half Course (2)\*

**180.** VISUAL ELEMENTS WORKSHOP I. A studio course introducing the student to the various elements of art and their use in visual communication. Three hours per week plus additional work by arrangement.

One-Half Course (2)\*

**190. THREE-DIMENSIONAL MEDIA WORKSHOP I.** A studio course introducing the student to problems and materials of a three-dimensional medium. *Three hours per week plus additional work by arrangement.* 

One-Half Course (2)\*

**Upper Division** 

- 210. ANCIENT ART. The architecture, painting, sculpture, and minor arts in the Mediterranean Basin from the dawn of civilization to the triumph of Christianity. Full Course (4)
- 215. MEDIEVAL ART. The architecture, painting, sculpture, and minor arts of Europe and the Near East from the founding of Constantinople to ca. 1400. Prerequisite: Art 210 or consent of instructor.

Full Course (4)

**220. RENAISSANCE ART.** The architecture, painting, and sculpture of Western Europe in the fifteenth and sixteenth centuries. *Prerequisite: Art 215 or consent of instructor.* 

Full Course (4)

225. BAROQUE ART. The architecture, painting, and sculpture of Western Europe in the seventeenth and eighteenth centuries. *Prerequisite: Art 220 or consent of instructor*.

Full Course (4) Not offered in 1968-69

230. MODERN ART. The architecture, painting, and sculpture of Europe and America in the nineteenth and twentieth centuries. Prerequisite: Art 225 or consent of instructor.

Full Course (4) Not offered in 1968-69

235. ORIENTAL ART I. The architecture, painting, sculpture, and minor arts of China, Korea, and Japan.

Full Course (4)

**236.** ORIENTAL ART II. The architecture, painting, sculpture, and minor arts of India, Southeast Asia, and Indonesia. (Art 235 and 236 may be taken separately and in either order.)

Full Course (4)

**250.** AMERICAN ART AND AMERICAN SOCIETY. A study of the ways in which American artists, architects, and designers have reacted to, have been influenced by, and have initiated important world trends in the arts.

Full Course (4)

**255. HISTORY OF URBAN AESTHETICS.** Explores the aesthetic problems of design within the framework of the development of urbanization.

Full Course (4) Not offered in 1968-69

\* Repeatable Course

**260.** LATIN AMERICAN ART. The architecture, painting, and sculpture of the various Latin American nations from the conquest to present times with an introduction dealing with the arts of the pre-Columbian civilizations.

Full Course (4) Not offered in 1968–69

265. PRIMITIVE ART. The architecture, painting, sculpture, and minor arts of pre-Columbian America, Black Africa, and Oceania.

Full Course (4) Not offered in 1968-69

270. TWENTIETH-CENTURY ARTISTS: THEIR WRITINGS AND THEIR ART. An examination of some of the outstanding documents by or concerning twentieth century artists to understand the art of this period and to locate both similarities and differences between their "20th-centuryness" and their relationship to tradition. Prerequisite: Art 100 or equivalent or consent of instructor.

Full Course (4)

275. ENVIRONMENTAL DESIGN. Problems of design in relation to the urban environment from a functional and aesthetic point of view. Two hours of lecture, three hours of studio work plus field work by arrangement. Prerequisite: Art 175 or equivalent.

Full Course (4) Not offered in 1968-69

**280.** VISUAL ELEMENTS WORKSHOP II. A continuation of Art 180. Three hours per week plus additional work by arrangement. Prerequisite: Upper division standing.

One-Half Course(2)\* Not offered in 1968-69

285. THREE-DIMENSIONAL MEDIA WORKSHOP II. A continuation of Art 190. Three hours per week plus additional work by arrangement. Prerequisite: Upper division standing.

One-Half Course(2)\* Not offered in 1968–69

295. SEMINAR IN THEORIES OF ART CRITICISM. Various approaches to art criticism throughout the centuries with particular emphasis on contemporary problems of criticism. Prerequisite: Senior standing and consent of instructor.

Full Course (4) Not offered in 1968-69

297. DIRECTED RESEARCH. Preparation of the bachelor's paper. Prerequisite: Senior standing and consent of instructor.

Full Course (4) Not offered in 1968-69

298. INDEPENDENT STUDY. Prerequisite: Senior standing and consent of the department head.

Full Course (4) Not offered in 1968-69

\* Repeatable Course

#### CHINESE

## COURSE OFFERINGS IN CHINESE

#### Lower Division

110. FIRST-QUARTER CHINESE. Introduction to the National Language (Kuo Yü) of China, with emphasis on oral competence; reading and writing in transliteration.

Full Course (4)

111. SECOND-QUARTER CHINESE. A continuation of Chinese 110. Prerequisite: Chinese 110 or consent of instructor.

Full Course (4)

112. THIRD-QUARTER CHINESE. A continuation of Chinese 111 with an introduction to the calligraphy and practice in newspaper style. Prerequisite: Chinese 111 or consent of instructor.

Full Course (4)

120. FOURTH-QUARTER CHINESE. A continuation of Chinese 112. Prerequisite: Chinese 112 or consent of instructor.

Full Course (4) Not offered in 1968-69

121. FIFTH-QUARTER CHINESE. A continuation of Chinese 120. Prerequisite: Chinese 120 or consent of instructor.

Full Course (4) Not offered in 1968-69

122. SIXTH-QUARTER CHINESE. A continuation of Chinese 121. Prerequisite: Chinese 121 or consent of instructor.

Full Course (4) Not offered in 1968-69

130. SPOKEN CHINESE. Practice in the conversational use of the National Language (Kuo Yü). Four hours per week. Prerequisite: Chinese 112 or equivalent. One-Holf Course (2) Not offered in 1968-69

## EAST ASIAN STUDIES

### An Interdepartmental Field of Concentration

This field is designed to provide an understanding of social, political, and cultural patterns of East Asia, with emphasis on China and Japan. The study of major philosophic and artistic works of East Asian civilization is included.

Juniors may begin the program in 1969.

## REQUIREMENTS FOR THE INTERDEPARTMENTAL FIELD OF CONCENTRATION IN EAST ASIAN STUDIES

#### **Upper Division**

A. Three courses from the School of Humanities and Fine Arts, selected from the following:

Art 235. Oriental Art I (China, Japan and Korea)

- + English 238. Literature of China and Japan Music 255. Music of China and Japan Philosophy 285. Philosophies of Eastern Civilization
- B. Three courses from the School of Social and Behavioral Sciences, selected from the following:
  - Anthropology 235. Peoples of East Asia † Economics 240. International Economics Geography 270. Geography of East Asia History 270. Asia to 1600 History 272. Asia from 1600

Political Science 241. Government and Politics of East Asia

C. Two additional courses selected by advisement from the above lists or from Chinese and Japanese language. Art 236 (Oriental Art II) may be opted but only if the student also takes Art 235 (Oriental Art I).

D. The senior seminar in this field.

One or two years of college-level study of Chinese or Japanese language is recommended as electives.

† Consult course description for prerequisite

#### ENGLISH

## REQUIREMENTS FOR THE DEPARTMENTAL FIELD OF CONCENTRATION IN ENGLISH

#### Lower Division

No lower division requirements are specified, but electives recommended include English 130, 131, and 132.

#### **Upper Division**

English 210. Introduction to Linguistics One course selected from the following: English 213. History of the English Language English 214. The Structure of English English 216. Linguistic Analysis English 230. Readings in British Literature English 235. Readings in World Literature English 240. American Literature I or English 241. American Literature II English 245. Literary Criticism English 295. Seminar in Special Topics in British Literature English 296. Seminar in Special Topics in American Literature English 298. Independent Study

As part of the comprehensive examination for the B.A. degree, the English major is required to show his understanding of literary forms and of the structure of contemporary English, and to demonstrate knowledge of the major trends and movements of American, English, and world literature. Preparation for the examination should include first-hand knowledge of all works on the English Reading List, whether these works are studied in courses or independently. A copy of the English Reading List should be obtained during the student's first quarter of upper division work in English.

#### COURSE OFFERINGS IN ENGLISH

#### Lower Division

100. BASIC STUDIES ENGLISH I. Tutorials in composition, oral and written. One section meeting per week plus individual and small group conferences.

Full Course (4)

NOTE: Credit for English 100 and 101 is earned by an examination taken after the completion of English 101.

101. BASIC STUDIES ENGLISH II. A continuation of English 100. One section meeting per week plus individual and small group conferences. Prerequisite: English 100.

#### Full Course (4)

102. BASIC STUDIES LITERATURE. Analysis and appreciation of major literary forms-fiction, drama, poetry-with continuation of practice in written expression. Prerequisite: English 101.

111. THE DEVICES OF PERSUASION. How to identify the devices of persuasion in written or oral discourse and practice in the use of such devices in speaking and in writing. Four hours per week.

#### One-Half Course (2)

120. DRAMA WORKSHOP. An activity course for the general student and for the prospective major in theater arts, with participation in one or more productions each quarter. Four hours per week plus additional hours to be arranged.

One-Half Course (2)\*

125. FIELD STUDY IN DRAMA. Guided observation and analysis of rehearsal, staging, and production of dramatic performances in educational and community theaters, repertory groups, and the professional theater, including motion picture and television. One hour of lecture and three hours in the field per week.

One-Half Course (2)

130. UNDERSTANDING FICTION. Analysis and discussion of selected masterpieces in the short story and the novel; regularly assigned papers.

Full Course (4)

**131. UNDERSTANDING DRAMA.** Analysis and discussion of selected masterpieces in dramatic literature; regularly assigned papers.

Full Course (4)

**132.** UNDERSTANDING POETRY. Analysis and discussion of selected masterpieces in verse; regularly assigned papers.

Full Course (4)

#### **Upper Division**

**210.** INTRODUCTION TO LINGUISTICS. A beginning course in the descriptive and historical study of language; phonological, morphological, and syntactic systems; usage; dialect study. (Same as French 210 and Spanish 210.)

Full Course (4)

**213. HISTORY OF THE ENGLISH LANGUAGE.** The evolution of English from its Indo-European origins. *Prerequisite: English 210.* 

Full Course (4)

214. THE STRUCTURE OF ENGLISH. English syntax approached through a generative-transformational model; sketch of English phonology; inflectional morphophonemics; sound-spelling correspondences. *Prerequisite: English 210*.

Full Course (4)

**215.** THE HISTORY OF LINGUISTIC SCIENCE. The historical context for considera tion of current theories in linguistics. *Prerequisite: English 210.* 

Full Course (4)

- **216.** LINGUISTIC ANALYSIS. Descriptive analysis of phonological, morphological, and syntactic systems. *Prerequisite: English 210 or consent of instructor*. Full Course (4)
- **220.** DRAMA WORKSHOP. A laboratory course for upper division students with previous theater experience. Emphasis on extending the range of participants' experiences in a variety of theatrical styles and assignments. Participation in one or more productions each quarter. Three hours per week plus additional hours to be arranged.

One-Half Course (2)\*

- 230. READINGS IN BRITISH LITERATURE. Intensive study of selected major writers and periods. Prerequisite: English 102 or equivalent. Full Course (4)
- 235. READINGS IN WORLD LITERATURE. Intensive study of selected major writers from the world's literature, read in translation. Prerequisite: English 102 or equivalent.

Full Course (4)

238. LITERATURE OF CHINA AND JAPAN. Study of selected works in translation from the classical and modern periods of Chinese and Japanese literature. Prerequisite: English 102 or equivalent.

Full Course (4)

240. AMERICAN LITERATURE I. Intensive study of selected American works of fiction in relation to the culture which produced them and which they reflect. *Prerequisite: English 102 or equivalent.* 

Full Course (4)

241. AMERICAN LITERATURE II. Intensive study of selected American works of poetry and non-fiction in relation to the culture which produced them and which they reflect. English 240 and 241 may be taken separately and in either order. Prerequisite: English 102 or equivalent.

Full Course (4)

245. LITERARY CRITICISM. Exploration of major critical systems for the judgment of literary works. Exercises in practical criticism. Prerequisite: English 230, 235, or equivalents.

Full Course (4)

246. DRAMATIC THEORY AND CRITICISM. Analysis of dramatic theory and criticism from Aristotle to the present. Prerequisite: English 102 or equivalent.

Full Course (4)

250. ADVANCED COMPOSITION. Advanced practice in expository writing. Prerequisite: English 100 and 101.

Full Course (4)

251. CREATIVE WRITING. Practice in various forms of imaginative writing. Prerequisite: English 101 and consent of instructor.

Full Course (4)\*

261. HISTORY OF THE THEATER I. Development of the theater and the dramatic literature from ancient times to the sixteenth century, studied in relation to the cultural environment.

Full Course (4)

**262. HISTORY OF THE THEATER II.** Development of the theater and the dramatic literature from the age of Shakespeare to the eighteenth century, studied in relation to the cultural environment.

Full Course (4)

**263. HISTORY OF THE THEATER III.** Development of the theater and the dramatic literature of the eighteenth and nineteenth centuries, studied in relation to the cultural environment.

Full Course (4)

267. SHAKESPEARE. Selected comedies, histories, and tragedies. Prerequisite: English 102 or equivalent.

Full Course (4)

269. CONTEMPORARY THEATER. Selected masterpieces of the contemporary stage including the Theater of the Absurd and the experimental theater.

Full Course (4)

**270. TWENTIETH CENTURY EXPERIMENTS IN LITERARY FORM.** Explorations of relations between form and matter in literary works through intensive study of some of the experimental writing of this century.

Full Course (4)

275. MODERN SOCIAL AND POLITICAL FICTION. Selected fiction concerned with social and political ideals, movements, and conditions. Works from the nineteenth and twentieth centuries, both American and European, will be considered. Pre-requisite: English 102 or equivalent.

Full Course (4)

280. STYLISTICS. An investigation of style in empirical terms, bringing contemporary linguistic analysis to bear on the aesthetics of English narrative and expository prose. Prerequisite: English 210 or consent of instructor.

Full Course (4)

281. SEMANTICS. A study of the theories of meaning in language; the semantic component of a grammatical description: relationships between form and meaning. *Prerequisite: English 210.* 

Full Course (4)

294. SEMINAR: SPECIAL TOPICS IN LINGUISTICS. An intensive investigation of a topic or group of related topics of special interest to students and instructor. These may vary from the study of a single earlier period of a language to the consideration of a "school" of linguists or the investigation of local dialects. Prerequisite: Consent of instructor.

Full Course (4)

295. SEMINAR IN SPECIAL TOPICS IN BRITISH LITERATURE. Intensive study of a single author (e.g., Chaucer, Milton, T. S. Eliot), a single period (e.g., the Renaissance, the Age of Reason), or a literary genre (e.g., satire, the epic). Prerequisite: Senior standing and consent of instructor.

Full Course (4)\*

296. SEMINAR IN SPECIAL TOPICS IN AMERICAN LITERATURE. Intensive study of a single author (e.g., Whitman, Melville, Faulkner), a single period (e.g., The American Renaissance, Twentieth Century), or a literary movement (e.g., naturalism, transcendentalism). Prerequisite: Senior standing and consent of instructor.

#### Full Course (4)\*

297. DIRECTED RESEARCH. Preparation of a bachelor's paper. Prerequisite: Consent of instructor.

Full Course (4)

298. INDEPENDENT STUDY. Preparation for the comprehensive examination. Individual readings and reports. Prerequisite: Consent of the department head.

Full Course (4)

## FRENCH

## REQUIREMENTS FOR THE DEPARTMENTAL FIELD OF CONCENTRATION IN FRENCH

## Lower Division

French 110-111-112. First, Second, and Third Quarter French

French 120-121-122. Fourth, Fifth, and Sixth Quarter French

NOTE: Students who have completed two, three, or four years of high school French and who pass a proficiency test will be placed in the appropriate quarter of college French. Consult a departmental adviser for details.

## **Upper Division**

The completion of two years of college French (six quarters or four semesters) —or equivalent—is prerequisite to upper division work.

French 210. Introduction to Linguistics
French 211. The Structure of French
French 230. Techniques of Literary Study I
French 231. Techniques of Literary Study II
French 232. Explication de Textes
French 250. French Culture I
French 251. French Culture II
French 297. Directed Research
French 298. Independent Study

The B.A. candidate in French is required, as part of his comprehensive examination, to demonstrate proficiency in audio-lingual and reading-writing skills, to show understanding of contemporary French culture, and to show knowledge of major developments in French literature.

## COURSE OFFERINGS IN FRENCH

All courses are conducted in French.

#### Lower Division

110. FIRST-QUARTER FRENCH. Basic instruction in French. Training in speaking, listening, reading, and writing for students who have had no previous work in French.

Full Course (4)

**111. SECOND-QUARTER FRENCH.** A continuation of French 110. Prerequisite: French 110 or a satisfactory score on a placement test.

Full Course (4)

112. THIRD-QUARTER FRENCH. A continuation of French 111. Prerequisite: French 111 or a satisfactory score on a placement test.

Full Course (4)

120. FOURTH-QUARTER FRENCH. A continuation of French 112. Prerequisite: French 112 or a satisfactory score on a placement test. Full Course (4) 121. FIFTH-QUARTER FRENCH. A continuation of French 120. Prerequisite: French 120 or a satisfactory score on a placement test.

Full Course (4)

122. SIXTH-QUARTER FRENCH. A continuation of French 121. Prerequisite: French 121 or a satisfactory score on a placement test.

Full Course (4)

130. FRENCH CONVERSATION. An activity course focusing on progressive exercises for building speaking proficiency. Four hours per week. Prerequisite: One year of college French or equivalent.

One-Half Course (2)

150. DRAMA WORKSHOP. An activity course open to all students who understand French and have minimal speaking proficiency. Three hours per week plus additional work by arrangement.

One-Half Course (2)\* Not offered in 1968-69

**Upper Division** 

**210.** INTRODUCTION TO LINGUISTICS. A beginning course in the descriptive and historical study of language; phonological, morphological, and syntactic systems; usage; dialect study. (Same as English 210 and Spanish 210.)

Full Course (4)

211. THE STRUCTURE OF FRENCH. A linguistic analysis of the phonological and syntactic systems of the French language. Prerequisite: French 210.

Full Course (4)

230. TECHNIQUES OF LITERARY STUDY I. An introduction to the basic principles and techniques used in studying works of French literature. Prerequisite: Two years of college French or equivalent.

Full Course (4)

231. TECHNIQUES OF LITERARY STUDY II. A continuation of French 230. Prerequisite: French 230.

Full Course (4)

232. EXPLICATION DE TEXTES. Practice in the explication of literary texts selected from French writers. *Prerequisite: French 231*.

Full Course (4)

250. FRENCH CULTURE I. An area studies course focusing on patterns of French civilization and culture.

Full Course (4)

- 251. FRENCH CULTURE II. A continuation of French 250. Prerequisite: French 250. Full Course (4) Not offered in 1968-69
- 297. DIRECTED RESEARCH. Preparation of the bachelor's paper. Prerequisite: Senior standing and consent of the department head.

Full Course (4) Not offered in 1968-69

**298.** INDEPENDENT STUDY. Preparation for the B.A. comprehensive examination. Prerequisite: Senior standing and consent of the department head.

Full Course (4) Not offered in 1968-69

#### GERMAN

## COURSE OFFERINGS IN GERMAN

#### Lower Division

110. FIRST-QUARTER GERMAN. Basic instruction in German. Training in speaking, listening, reading, and writing for students who have had no previous work in German.

Full Course (4)

111. SECOND-QUARTER GERMAN. A continuation of German 110. Prerequisite: German 110 or a satisfactory score on a placement test.

Full Course (4)

112. THIRD-QUARTER GERMAN. A continuation of German 111. Prerequisite: German 111 or a satisfactory score on a placement test.

Full Course (4)

120. FOURTH-QUARTER GERMAN. A continuation of German 112. Prerequisite: German 112 or a satisfactory score on a placement test.

Full Course (4)

121. FIFTH-QUARTER GERMAN. A continuation of German 120. Prerequisite: German 120 or a satisfactory score on a placement test.

Full Course (4)

122. SIXTH-GUARTER GERMAN. A continuation of German 121. Prerequisite: German 121 or a satisfactory score on a placement test.

Full Course (4)

**130.** CONVERSATIONAL GERMAN. An activity course focusing on progressive exercises for building speaking proficiency. Four hours per week. Prerequisite: One year of college German or equivalent.

One-Half Course (2)

## LATIN AMERICAN STUDIES

An Interdepartmental Field of Concentration

This interdepartmental field is designed to provide an understanding of social, cultural, political, and economic patterns of Latin America. Juniors may begin the program in 1969.

## REQUIREMENTS FOR THE INTERDEPARTMENTAL FIELD OF CONCENTRATION IN LATIN AMERICAN STUDIES

#### **Upper Division**

A. Three courses from the School of Humanities and Fine Arts, selected from such areas as:

Contemporary Hispanic culture Latin American literature Arts of Latin America

Alts of Latin America

B. Three courses from the School of Social and Behavioral Sciences, selected from such areas as:

Latin American history

Geography of Latin America

Government and politics of Latin America

International economics

Peoples of Latin America

C. Two additional courses, selected with approval of the adviser, from the above lists or from Spanish language.

D. The senior seminar in this field.

Recommended elective:

Two or more years of college-level study of Spanish or Portuguese language is recommended.

## LINGUISTICS

#### An Interdepartmental Field of Concentration

The interdepartmental field in linguistics is designed to define a network of channels along which a student may pursue his investigation of (1) language as a neurological, psychological, historical, or cultural phenomenon; (2) the use of language as an aesthetic medium, a political weapon, or a scholarly tool; (3) man's attitudes toward language and his attempts to explain and describe it; and (4) current theories and principles of linguistic analysis.

## REQUIREMENTS FOR THE INTERDEPARTMENTAL FIELD OF CONCENTRATION IN LINGUISTICS

#### **Upper Division**

A. Two courses in linguistics selected upon advisement from the following:

- English 210. Introduction to Linguistics (Same as French 210 and Spanish 210)
- +English 213. History of the English Language+Spanish 211. The Structure of Spanish+French 211. The Structure of French

- †English 214. The Structure of English
- <sup>†</sup>English 215. The History of Linguistic Science
- †English 216. Linguistic Analysis
- <sup>†</sup>English 294. Seminar: Special Topics in Linguistics
- B. Two courses from the School of Humanities and Fine Arts selected from the following:

Philosophy 240. Symbolic Logic

- †English 280. Stylistics†English 281. Semantics

Upper division courses in any language other than the student's native tongue or departmental field of concentration.

C. Two courses from the School of Social and Behavioral Sciences, distributed as follows:

Anthropology 212. Language and Culture

Plus one of the following:

Political Science 270. Public Opinion and Propaganda

Psychology 210. Motivation and Learning

<sup>†</sup>Psychology 282. Seminar in Cognitive Psychology

D. Any two additional courses from A, B, or C above.

E. The senior seminar in this field.

NOTE: Proficiency in at least one foreign language is strongly recommended.

#### COURSE OFFERING

#### **Upper Division**

290. SEMINAR IN LINGUISTICS. An integrative seminar serving as a capstone to the interdepartmental major in linguistics. Prerequisite: Senior standing and consent of instructor.

Full Course (4)

† Consult course description for prerequisite

#### MUSIC

## REQUIREMENTS FOR THE DEPARTMENTAL FIELD OF CONCENTRATION IN MUSIC

#### Lower Division

Music 110-111-112. Music Theory I, II, III

## **Upper Division**

Music 210-211-212. Advanced Music Theory I, II, III

Music 213. Counterpoint

Music 214. Instrumentation

Music 215. Composition

Music 216. Seminar in Medieval and Renaissance Music

Music 217. Seminar in Baroque and Classical Music

Music 218. Seminar in Romantic and Modern Music

Candidates for the B.A. with the departmental field in music must also:

a. Meet the requirements of the School of Humanities and Fine Arts, listed on page 33.

b. Demonstrate a minimal level of competency on the piano.

c. Participate in one of the college's performing groups during each quarter in residence following declaration of candidacy for the degree.

## COURSE OFFERINGS IN MUSIC

## Lower Division

100. BASIC STUDIES MUSIC. An introduction to the technique of listening to music. The elements of music, basic principles of continuity, and their realizations in large structures will be studied in music drawn from all periods of history. Two hours of lecture and two hours of small group discussion per week.

Full Course (4)

**110. MUSIC THEORY I.** An introduction to the basic theory of music with emphasis on materials derived from the common practice of the Classical period: the vocabulary of diatonic scales and modes, chords and their relationships, harmonic analysis, sight-singing, keyboard harmony, dictation, rhythmic drills, and other forms of instruction.

#### Full Course (4)

111. MUSIC THEORY II. Detailed examination, in theoretical as well as applied contexts, of the interchangeability of the modes, secondary dominants, non-dominant harmony, and other basic altered-chord types characteristic of the common-practice period. *Prerequisite: Music 110.* 

Full Course (4)

112. MUSIC THEORY III. Enlargement and application of the vocabulary of chromatic and modulatory concepts as practiced in the late Classical and early Romantic periods. *Prerequisite: Music 111*.

**180.** VOCAL ENSEMBLE. Performance of the outstanding vocal literature of all periods. Three hours per week plus additional work by arrangement.

One-Fourth Course (1)\*

**181.** CLASS VOICE. A small class, along with private lessons when appropriate, for the study of the literature and techniques of the solo song. Two hours per week.

One-Fourth Course (1)\*

**190. EARLY INSTRUMENTS.** Study and repertory of some of the instruments of the early periods of music history. Elementary principles of playing the recorder, lute, viola da gamba, and harpsichord. *Two hours per week*.

One-Fourth Course (1)\*

- 191. CLASS PIANO. A study of the technique and literature of the piano conducted on a small class basis and using private lessons when appropriate. Two hours per week. Primarily for music majors; others by consent of instructor. One-Fourth Course (1)\*
- 192. INSTRUMENTAL ENSEMBLE. Study, rehearsal, and performance in concert of instrumental music from all periods. Three hours per week.

One-Fourth Course (1)\*

#### **Upper Division**

**210.** ADVANCED MUSIC THEORY I. A continuation and deepening of the Music 110-111-112 sequence. More complex harmonic, linear, and rhythmic functions in music drawn from Baroque, Classical, and Romantic periods. *Prerequisite:* Music 112.

Full Course (4)

211. ADVANCED MUSIC THEORY II. Examination of the problem of chromatic harmony drawn from the works of such composers as Wagner, Strauss, Mahler, Debussy, and Ravel. Prerequisite: Music 210.

Full Course (4)

**212.** ADVANCED MUSIC THEORY III. Introduction to the techniques of the modern and contemporary period, emphasizing such tonality-extending devices as quartal and quintal harmony, modality, pandiatonicism, pantonality, and atonality. *Prerequisite: Music 211.* 

Full Course (4)

**213.** COUNTERPOINT. Basic contrapuntal principles as found in the outstanding "linear" periods of music history. Exercises in a modal, tonal, and modern style will be used. *Prerequisite: Music 112.* 

Full Course (4)

**214. INSTRUMENTATION.** An exploration of the acoustical and musical characteristics of all the major orchestral and band instruments. Combinations of instruments, both as families and in mixed ensembles, will be examined and written for. *Prerequisite: Music 213.* 

Full Course (4)

**215.** COMPOSITION. A synthesis of the various theoretical courses studied so far. Student-composed works, in the simpler forms, for small groups will be played and discussed. *Prerequisite: Music 214.* 

<sup>\*</sup> Repeatable Course

216. MEDIEVAL AND RENAISSANCE MUSIC. An exploration of the development of music from the Medieval Period to Renaissance. Styles of music will be studied to uncover the various musical, aesthetic, and social determinants underlying the musical literature. *Prerequisite: Music 215*.

Full Course (4)

217. BAROQUE AND CLASSICAL MUSIC. A continuation of Music 216. Prerequisite: Music 216.

Full Course (4)

218. ROMANTIC AND MODERN MUSIC. A continuation of Music 217. Prerequisite: Music 217.

Full Course (4)

**250.** AMERICAN MUSIC. An examination of selected works in American music from colonial times to the present, concentrating on the emergence of several important styles and composers in the twentieth century and their relationship to American society.

Full Course (4)

**253. MUSIC FOR THE THEATER.** A study of opera, ballet music, and musical comedy. Whenever feasible, this course will include consideration of current productions of the drama workshop.

Full Course (4)

255. MUSIC OF CHINA AND JAPAN. An introduction to the musical cultures of China and Japan with emphasis on their instruments and musical system; relationships of the music to the social and intellectual milieu.

Full Course (4)

270. TWENTIETH CENTURY COMPOSERS: THEIR WRITINGS AND THEIR MUSIC. An interdisciplinary course examining some of the outstanding documents of twentieth century composers (such as the books of Stravinsky, Schönberg, Bartok, and Ives) to increase understanding of their ideas and music. Prerequisite: Music 100 or equivalent or consent of instructor.

### PHILOSOPHY

## REQUIREMENTS FOR THE DEPARTMENTAL FIELD OF CONCENTRATION IN PHILOSOPHY

## Lower Division

Philosophy 110. Language, Logic, and Truth

#### **Upper Division**

A. Seven courses selected upon advisement from the following:
Philosophy 215. Ethics
Philosophy 220. Aesthetics
Philosophy 230. The Nature of Scientific and Humanistic Inquiry
Philosophy 231. Social and Political Philosophy
Philosophy 240. Symbolic Logic
Philosophy 250. Epistemology
Philosophy 260. Selected Works in Existentialist Thought
Philosophy 270. Philosophy in the Modern World
Philosophy 280. Philosophy of Religion
Philosophy 285. Philosophies of Eastern Civilization

- B. Philosophy 295. Seminar: Problems in the History of Philosophy
- C. Philosophy 298. Independent Study

#### COURSE OFFERINGS IN PHILOSOPHY

## Lower Division

110. LANGUAGE, LOGIC, AND TRUTH. Practice in the analysis of fundamental problems relating to language and logic and the meaning of "truth" in the world of the logician. Prerequisite: English 101 and Mathematics 100, or equivalent.

Full Course (4)

## **Upper Division**

**200. BASIC STUDIES PHILOSOPHY.** Analysis through the study of philosophic masterpieces of a single key concept in philosophic thought, e.g., the concept of freedom.

Full Course (4)

**215.** Ethics. Ethics approached from the standpoint of its relation to the sciences of man, especially anthropology and social psychology.

Full Course (4)

**220. AESTHETICS.** A review of basic questions about the existence and nature of the aesthetic object (and the experience such objects engender) with readings representing major positions on these questions.

230. THE NATURE OF SCIENTIFIC AND HUMANISTIC INQUIRY. An exploration of major questions in the philosophy of science and in the relationships between the sciences and the humanities.

Full Course (4)

231. SOCIAL AND POLITICAL PHILOSOPHY. Philosophy approached from the standpoint of political science, sociology, and anthropology.

Full Course (4)

240. SYMBOLIC LOGIC. Principles of symbolic logic and the standard notations and methods used in determining the validity and invalidity of arguments.

Full Course (4)

**250. EPISTEMOLOGY.** Theories of knowing, approached from the standpoint of their relation to psychology and the relevant behavioral sciences.

Full Course (4)

**260. SELECTED WORKS IN EXISTENTIALIST THOUGHT.** Intensive analysis of a small number of works of the major continental existentialist thinkers. *Prerequisite: Philosophy 200 or equivalent.* 

Full Course (4)

**270.** PHILOSOPHY IN THE MODERN WORLD. Philosophy in relation to twentiethcentury thought and culture, with emphasis on the doctrinal complex: Man-Nature-Society-History.

Full Course (4)

271. ANALYTIC PHILOSOPHY. The history of the development of British philosophy from Moore, Russell, and Wittgenstein to the Oxford school of ordinary language.

Full Course (4)

**280. PHILOSOPHY OF RELIGION.** Inquiry into religious thought of western civilization on the interrelationship of God, man, the world, and human value.

Full Course (4)

285. PHILOSOPHIES OF EASTERN CIVILIZATION. A comparative study of Indian, Chinese and Japanese philosophies.

Full Course (4)

295. SEMINAR: PROBLEMS IN THE HISTORY OF PHILOSOPHY. Intensive study of a single problem, e.g., epistemology from Descartes to Kant or dialectic from Hegel to Marx. Prerequisite: Senior standing or consent of instructor.

Full Course (4) Not offered in 1968-69

297. DIRECTED RESEARCH. Preparation of the bachelor's paper. Prerequisite: Senior standing and consent of instructor.

Full Course (4) Not offered in 1968-69

**298.** INDEPENDENT STUDY. Preparation for the comprehensive examination. Individual readings and reports. Prerequisite: Senior standing and consent of the department head.

Full Course (4) Not offered in 1968-69

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## SPANISH

## REQUIREMENTS FOR THE DEPARTMENTAL FIELD OF CONCENTRATION IN SPANISH

#### Lower Division

Spanish 110-111-112. First, Second, and Third Quarter Spanish Spanish 120-121-122. Fourth, Fifth, and Sixth Quarter Spanish

NOTE: Students who have completed two, three, or four years of high school Spanish and who pass a proficiency test will be placed in the appropriate quarter of college Spanish. Con-sult a departmental adviser for details.

## **Upper Division**

Spanish 210. Introduction to Linguistics

Spanish 211. The Structure of Spanish

Spanish 230-231. Techniques of Literary Study I, II

- Spanish 232. Explicacion de Textos (or a special topics course in linguistics as advised)
- Spanish 250. Contemporary Hispanic Culture: Spain
- Spanish 251. Contemporary Hispanic Culture: Latin America

Spanish 297. Directed Research

Spanish 298. Independent Study

The B.A. candidate in Spanish is required, as part of his comprehensive examination for the bachelor's degree, to demonstrate proficiency in audio-lingual and reading-writing skills, to show understanding of the contemporary cultures of Spain and of Latin America, and to show knowledge of major developments in Spanish and Latin-American literature.

## COURSE OFFERINGS IN SPANISH

All courses are conducted in Spanish.

#### Lower Division

110. FIRST-QUARTER SPANISH. Basic instruction in Spanish. Training in speaking, listening, reading, and writing for students who have had no previous work in Spanish.

Full Course (4)

111. SECOND-QUARTER SPANISH. A continuation of Spanish 110. Prerequisite: Spanish 110 or a satisfactory score on a placement test.

Full Course (4)

112. THIRD-QUARTER SPANISH. A continuation of Spanish 111. Prerequisite: Spanish 111 or a satisfactory score on a placement test.

Full Course (4)

120. FOURTH-QUARTER SPANISH. A continuation of Spanish 112. Prerequisite: Spanish 112 or a satisfactory score on a placement test. Full Course (4)

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121. FIFTH-QUARTER SPANISH. A continuation of Spanish 120. Prerequisite: Spanish 120 or a satisfactory score on a placement test.

Full Course (4)

122. SIXTH-QUARTER SPANISH. A continuation of Spanish 121. Prerequisite: Spanish 121 or a satisfactory score on a placement test.

Full Course (4)

130. SPANISH CONVERSATION. An activity course focusing on progressive exercises for building speaking proficiency. Four hours per week. Prerequisite: One year of college Spanish or the equivalent.

One-Half Course (2)

150. DRAMA WORKSHOP. An activity course open to all students who can understand Spanish and have minimal speaking proficiency. Three hours per week plus additional work by arrangement.

One-Half Course (2)\*

**Upper Division** 

**210.** INTRODUCTION TO LINGUISTICS. A beginning course in the descriptive and historical study of language; phonological, morphological, and syntactic systems; usage; dialect study. (Same as English 210 and French 210.)

Full Course (4)

211. THE STRUCTURE OF SPANISH. A linguistic analysis of the phonological and syntactic systems of the Spanish language. Prerequisite: Spanish 210.

Full Course (4)

230. TECHNIQUES OF LITERARY STUDY I. An introduction to the basic principles and techniques used in studying works of literature. Selection will be made from Spanish and Latin-American works of fiction, drama, and poetry. Prerequisite: Two years of college Spanish or equivalent.

Full Course (4)

231. TECHNIQUES OF LITERARY STUDY II. A continuation of Spanish 230 with emphasis on the Spanish essay. Prerequisite: Spanish 230.

Full Course (4)

- 232. EXPLICACION DE TEXTOS. Practice in the explication of literary texts selected from Spanish and Latin-American writers. Prerequisite: Spanish 231. Full Course (4)
- **250.** CONTEMPORARY HISPANIC CULTURE: SPAIN. An area studies course focusing on patterns of culture in contemporary Spain.

Full Course (4)

**251. CONTEMPORARY HISPANIC CULTURE: LATIN AMERICA.** An area studies course focusing on patterns of culture in contemporary Latin America.

Full Course (4)

297. DIRECTED RESEARCH. Preparation of the bachelor's paper. Prerequisite: Senior standing and consent of the department head.

Full Course (4)

**298.** INDEPENDENT STUDY. Preparation for the B.A. comprehensive examination. Prerequisite: Senior standing and consent of the department head.

Full Course (4)

## THEATER ARTS

## An Interdepartmental Field of Concentration

This interdepartmental field is designed to give strong emphasis to the literature and history of the theater as well as to outstanding critical theories of drama. An introduction to the technique and mechanics of the theater is included, as well as courses dealing with human personality and the social and culture matrix that influences theatrical art.

#### REQUIREMENTS FOR THE INTERDEPARTMENTAL FIELD OF CONCENTRATION IN THEATER ARTS

#### Lower Division

No lower division courses are required; however recommended electives include such courses as English 120, Drama Workshop, and English 131, Understanding Drama.

#### Upper Division

A. Five courses from the School of Humanities and Fine Arts selected from the following:

<sup>+</sup>English 246. Dramatic Theory and Criticism English 261. History of the Theater I

- English 262. History of the Theater II
- English 263. History of the Theater III

+English 267. Shakespeare English 269. Contemporary Theater

B. One course from the following: Philosophy 220. Aesthetics +Philosophy 260. Selected Works in Existentialist Thought Philosophy 270. Philosophy in the Modern World Music 253. Music for the Theater

C. One course from the Social and Behavioral Sciences selected from the following: Political Science 250. History of Political Ideas Psychology 240. Social Psychology Psychology 260. Theories of Personality

D. Two one-half courses in Drama Workshop, English 220.

E. The senior seminar in this field:

Theater Arts 290. Seminar in Theater Arts

Note: Additional experience in drama workshop and other courses in dramatic literature and theory are recommended as electives. Consult an adviser for suggestions.

## COURSE OFFERINGS

290. SEMINAR IN THEATER ARTS. An integrative seminar serving as a capstone to the interdepartmental major in theater arts. Prerequisite: Senior standing and consent of instructor.

#### Full Course (4)

+ Consult course description for prerequisite

## TWENTIETH CENTURY THOUGHT AND EXPRESSION

An Interdepartmental Field of Concentration

The interdepartmental field in Twentieth Century Thought and Expression is designed to give the student a broad background in significant modern trends and developments in the humanities, the social sciences and natural science, and in many of the basic issues facing twentieth-century man.

## REQUIREMENTS FOR THE INTERDEPARTMENTAL FIELD OF CONCENTRATION IN TWENTIETH CENTURY THOUGHT AND EXPRESSION

#### **Upper Division**

A. Three courses, selected from at least two different departments in the School of Humanities and Fine Arts:

- †Art 270. Twentieth Century Artists: Their Writings and Their Art
- English 269. Contemporary Theater English 270. Twentieth Century Experiments in Literary Form
- +English 275. Modern Social and Political Fiction
- †Music 270. Twentieth Century Composers: Their Writings and Their Music Philosophy 270. Philosophy in the Modern World
- <sup>†</sup>Philosophy 260. Selected Works in Existentialist Thought
- B. Three courses, selected from at least two different departments in the School of Social and Behavioral Sciences:

+Economics 260. Management in Theory and Practice

+Economics 285. Economics Policy and Social Values

- History 228. Twentieth Century Europe
- History 248. United States: Recent Period

Political Science 251. Modern Political Thought

Political Science 270. Public Opinion and Propaganda

Psychology 260. Theories of Personality

Sociology 215. Contemporary Social Problems

Sociology 255. Modern Sociological Theories

C. Two additional courses from outside the student's departmental major field.

D. The senior seminar in this field.

## COURSE OFFERING

## **Upper Division**

290. SEMINAR IN TWENTIETH CENTURY THOUGHT AND EXPRESSION. Prerequisite: Senior standing and consent of instructor.

#### Full Course (4)

† Consult course description for prerequisite

## THE SCHOOL OF NATURAL SCIENCES AND MATHEMATICS

The School of Natural Sciences and Mathematics includes departments of biological science, chemistry, health and physical education, mathematics and physics. The School is responsible for instruction in the Basic Studies program in the biological and physical sciences and mathematics; for the required course work in health and physical education; for departmental fields in biological science, chemistry, mathematics, and physics; for much of the course work in the interdepartmental fields of Earth and Space Sciences, The Foundations of Natural Science, and Information Systems, among others; and for elective courses in the various departments.

Curriculums in the School are designed to emphasize the principles, concepts, and tools which unify and underlie all of the natural sciences and mathematics, without minimizing the distinctiveness of each.

Programs in the departmental fields are sufficiently flexible to serve students with various educational, vocational, and professional goals. Suitable combinations of departmental and interdepartmental fields will enable a student to prepare for graduate work and a subsequent career as a professional scientist; to prepare for professional graduate schooling in medicine, dentistry, or engineering; to enter directly into industrial or government laboratories; to prepare for teaching; or to provide a scientific background for a future career in business, law, or management.

Lower division students who plan to choose departmental or interdepartmental fields in the School of Natural Sciences and Mathematics will normally substitute for the prescribed group of Basic Studies courses in sciences and mathematics most or all of a separate group of courses designed as preparation for the upper division major fields. The complete group of lower division courses to be substituted consists of course sequences in chemistry and in mathematics in the freshman year, and course sequences in physics and in biological science in the sophomore year.

## **BIOLOGICAL SCIENCE**

### REQUIREMENTS FOR THE DEPARTMENTAL FIELD OF CONCENTRATION IN BIOLOGICAL SCIENCE

#### Lower Division

Biology 110-112-114. Principles of Biology

Chemistry 110-112-114. General and Quantitative Chemistry

Chemistry 120. Organic Chemistry

Physics 102. Basic Studies Physics or

Physics 110. General Physics

Mathematics 110-112. Differential and Integral Calculus I and II

## **Upper** Division

Biology 210-212-214. Organism Biology

Biology 220. Cell Biology I

Biology 230. Population Biology Biology 240. Genetics

Biology 294. Senior Seminar in Biology (One-Fourth Course)

Two full courses selected from:

- Biology 222. Cell Biology II
- Biology 224. Microbiology

Biology 232. Ecology

Biology 250. Plant Physiology

Biology 252. Animal Physiology

- Biology 281. Laboratory in Selected Topics in Biology
- Biology 295. Selected Topics in Biology

Biology 297. Directed Research

Chemistry 250. Biochemistry

#### COURSE OFFERINGS IN BIOLOGICAL SCIENCE

### Lower Division

102. BASIC STUDIES BIOLOGY. 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 and three hours of laboratory per week. Prerequisite: Chemistry 100.

#### Full Course (4)

110. PRINCIPLES OF BIOLOGY. A broad introduction to biological substances and systems on the molecular, cellular, organism and population levels; structures of plants and animals. Three hours of lecture and three hours of laboratory per week. Prerequisite: Chemistry 112.

Full Course (4)

112. PRINCIPLES OF BIOLOGY. A continuation of Biology 110. Three hours of lecture and three hours of laboratory per week. Prerequisite: Biology 110 and Chemistry 114.

Full Course (4)

114. PRINCIPLES OF BIOLOGY. A continuation of Biology 112. Three hours of lecture and three hours of laboratory per week. Prerequisite: Biology 112.

#### **Upper Division**

**210.** ORGANISM BIOLOGY. A study of the development, structure, systematics and function of organisms with emphasis on multicellular organisms. Two hours of lecture and six hours of laboratory per week. Prerequisite: Biology 114.

Full Course (4)

- 212. ORGANISM BIOLOGY. A continuation of Biology 210. Two hours of lecture and six hours of laboratory per week. Prerequisite: Biology 210. Full Course (4)
- 214. ORGANISM BIOLOGY. A continuation of Biology 212. Two hours of lecture and six hours of laboratory per week. Prerequisite: Biology 212.

Full Course (4)

220. CELL BIOLOGY I. Basic biological problems at the cellular level. Chemical composition of cells, metabolism, synthesis and membrane phenomena. Two hours of lecture and six hours of laboratory per week. Prerequisite: Biology 114 and Chemistry 120.

Full Course (4)

222. CELL BIOLOGY II. Structure and organization of cells during division, growth and development and their integration into tissues. Two hours of lecture and six hours of laboratory per week. Prerequisite: Biology 114 and Chemistry 120.

Full Course (4)

224. MICROBIOLOGY. The morphology, physiology, genetics and development of microorganisms. Basic bacteriological techniques included in the laboratory. Two hours of lecture and six hours of laboratory per week. Prerequisite: Biology 220, or Biology 114 and Chemistry 250.

Full Course (4)

230. POPULATION BIOLOGY. Structure and organization of populations; principles of population growth and density control; traffic of materials and energy between populations. Three hours of lecture and three hours of laboratory and field work per week. Prerequisite: Biology 114, or completion of the lower division Basic Studies science program.

Full Course (4)

- 232. ECOLOGY. Distribution of plants and animals with reference to environmental factors and adaptation to special habitats. Three hours of lecture and three hours of laboratory and field work per week. Prerequisite: Biology 114, or completion of the lower division Basic Studies science program. Full Course (4)
- 240. GENETICS. Facts and theories of heredity; the action of genes on the molecular and organismic levels; variations and mutations. Three hours of lecture and three hours of laboratory per week. Prerequisite: Biology 114, or completion of the lower division Basic Studies science program.

Full Course (4)

246. HUMAN HEREDITY. Introduction to human genetics, including human reproduction, Mendelian inheritance, chemical basis of gene action, mutation and eugenics. Three hours of lecture and three hours of laboratory per week. Prerequisite: Completion of lower division Basic Studies science requirements (or California State Code science requirements), and Mathematics 150.

250. PLANT PHYSIOLOGY. A study of plant relations to water and solutes, plant nutrition, photosynthesis and plant metabolism. Two hours of lecture and six hours of laboratory per week. Prerequisite: Biology 214.

#### Full Course (4)

252. ANIMAL PHYSIOLOGY. A study of the digestive, circulatory and respiratory systems, and of the role of muscular, sensory, nervous and endocrine systems in animal organisms. Two hours of lecture and six hours of laboratory per week. Prerequisite: Biology 214.

Full Course (4)

260. BIOLOGICAL OCEANOGRAPHY. A study of the oceans and their phenomena, with particular emphasis upon the animal and plant inhabitants of ocean waters. Three hours of lecture and three hours of laboratory per week. Prerequisite: Biology 114 or completion of the lower division Basic Studies science program.

Full Course (4)

264. PALEONTOLOGY. A study of the life of past geological periods on the basis of fossil remains of plants and animals; the significance of such study in understanding natural science today. Three hours of lecture and three hours of laboratory per week, with field work assignments. Prerequisite: Biology 114 or completion of the lower division Basic Studies science program.

Full Course (4)

281. LABORATORY IN SELECTED TOPICS IN BIOLOGY. Advanced laboratory work for small groups of biology majors. Six or twelve hours of laboratory per week. Prerequisite: Consent of instructor.

One-Half Course (2)\* or Full Course (4)\*

294. SENIOR SEMINAR IN BIOLOGY. Intensive use of current biological literature and bibliographies. Two hours of presentation and discussion per week. Prerequisite: Senior standing and Biological Science major.

One-Fourth Course (1)\*

295. SELECTED TOPICS IN BIOLOGY. Advanced course which may include laboratory exercises. Prerequisite: Consent of instructor.

One-Half Course (2)\* or Full Course (4)\*

297. DIRECTED RESEARCH. Advanced laboratory work, with each student undertaking an independent and original investigation. Six or twelve hours of laboratory per week. Prerequisite: Senior standing and consent of instructor.

One-Half Course (2)\* or Full Course (4)\*

#### CHEMISTRY

## REQUIREMENTS FOR THE DEPARTMENTAL FIELD OF CONCENTRATION IN CHEMISTRY

### Lower Division

Chemistry 110-112-114. General and Quantitative Chemistry Chemistry 120. Organic Chemistry I Mathematics 110-112-114. Differential and Integral Calculus I, II, III Physics 110-112-114. General Physics Biology 102. Basic Studies Biology or Biology 110. Principles of Biology

#### **Upper Division**

Chemistry 212-214. Organic Chemistry II, III Chemistry 211-213. Organic Chemistry Laboratory I, II Chemistry 220-222-224. Physical Chemistry Chemistry 230-231. Analytical Chemistry Chemistry 240. Inorganic Chemistry

## COURSE OFFERINGS IN CHEMISTRY

#### Lower Division

100. BASIC STUDIES STRUCTURE OF MATTER. Review of operational mathematics. The basic nature and meaning of science; the structures of atoms and of groupings of atoms; structures in the solid, liquid and gaseous states; laws of mechanics and energy factors as related to structure. Three hours of lecture and one hour of discussion per week.

Full Course (4)

102. BASIC STUDIES CHEMISTRY. Representative topics in modern chemistry, emphasizing the present state of knowledge and the major means whereby this knowledge is being expanded. Three hours of lecture and one hour of discussion per week. Prerequisite: Chemistry 100 and Mathematics 100.

Full Course (4)

110. GENERAL AND QUANTITATIVE CHEMISTRY. Atomic structure and periodicity, chemical bonding; elementary thermodynamics, kinetics and equilibrium; inorganic chemistry; qualitative analysis; quantitative measurements. Three hours of lecture and three hours of laboratory per week.

Full Course (4)

112. GENERAL AND QUANTITATIVE CHEMISTRY. A continuation of Chemistry 110. Three hours of lecture and three hours of laboratory per week. Prerequisite: Chemistry 110.

Full Course (4)

114. GENERAL AND QUANTITATIVE CHEMISTRY. A continuation of Chemistry 112. Two hours of lecture and six hours of laboratory per week. Prerequisite: Chemistry 112.

120. ORGANIC CHEMISTRY I. A systematic study of organic compounds, with emphasis on molecular structure and reaction mechanisms. Introduction to spectroscopic methods of analysis of organic compounds. Prerequisite: Chemistry 114.

Full Course (4)

#### **Upper** Division

211. ORGANIC CHEMISTRY LABORATORY I. Basic experimental techniques. Preparation of compounds. Introduction to infrared spectroscopy, gas chromatography, and other instrumental methods. Six hours of laboratory per week. Pre-requisite: Chemistry 120.

**One-Half** Course (2)

212. ORGANIC CHEMISTRY II. Structures and reactions of organic compounds containing oxygen, sulfur, nitrogen, and other elements. Synthetic and analytical methods. Prerequisite: Chemistry 120.

Full Course (4)

213. ORGANIC CHEMISTRY LABORATORY II. Preparation of organic compounds. Analysis and identification of known compounds via chemical and instrumental methods. Six hours of laboratory per week. Prerequisite: Chemistry 211 and Chemistry 212, or concurrent enrollment in Chemistry 212.

One-Half Course (2)

214. ORGANIC CHEMISTRY III. Polyfunctional systems, heterocyclics. Advanced aspects of theoretical organic chemistry. Laboratory work includes analysis of unknown compounds, methods of investigating reaction mechanisms, isolation of natural products. Two hours of lecture and six hours of laboratory per week. Prerequisite: Chemistry 213.

Full Course (4)

220. PHYSICAL CHEMISTRY. The first of a series of courses covering thermodynamics, properties of matter, atomic and molecular structure, chemical kinetics, photochemistry, and surface chemistry. Prerequisite: Chemistry 114, Mathematics 114, and Physics 114.

Full Course (4)

222. PHYSICAL CHEMISTRY. A continuation of Chemistry 220 including laboratory exercises demonstrating physical chemical techniques. Three hours of lecture and three hours of laboratory per week. Prerequisite: Chemistry 220.

Full Course (4)

224. PHYSICAL CHEMISTRY. A continuation of Chemistry 222, emphasizing laboratory methods. Two hours of lecture and six hours of laboratory per week. Prerequisite: Chemistry 222.

Full Course (4)

230. ANALYTICAL CHEMISTRY. Discussions of titrimetric, gravimetric, electroanalytical, optical, and other methods of separation and measurement. Prerequisite: Chemistry 120 and Chemistry 220 and concurrent enrollment in Chemistry 231. (Chemistry 212 and Chemistry 222 recommended.)

Full Course (4)

231. LABORATORY IN ANALYTICAL CHEMISTRY. Six hours of laboratory per week. Prerequisite: Concurrent enrollment in Chemistry 230.

One-Half Course (2)

240. INORGANIC CHEMISTRY. Structural inorganic chemistry; coordination compounds; mechanisms of inorganic reactions; inorganic synthetic methods. Prerequisite: Chemistry 224.

Full Course (4)

250. BIOCHEMISTRY. The chemistry of biological systems, including carbohydrates, lipids, proteins, nucleic acids, enzymes, and vitamins; metabolic processes. Prerequisite: Chemistry 212 or consent of the instructor. (Chemistry 230 recommended.)

Full Course (4)

251. LABORATORY IN BIOCHEMISTRY. A study of properties of chemical substances incorporated in biological systems, including isolation and analytical techniques. Six hours of laboratory per week. Prerequisite: Chemistry 250 or concurrent enrollment in Chemistry 250.

One-Half Course (2)

260. RADIOCHEMICAL TECHNIQUES. A survey of the principles and methods of nuclear science as applied to the investigation of chemical problems. Topics include nuclear reactions, radiation detection and measurement, preparation of tracers and the techniques of handling and using radioactive materials. Two hours of lecture and six hours of laboratory per week. Prerequisite: Chemistry 114 and Physics 114.

Full Course (4)

270. CHEMICAL OCEANOGRAPHY. A study of the composition and the chemical and physical properties of ocean waters. Three hours of lecture and three hours of laboratory per week. Prerequisite: Chemistry 114 or completion of the lower division Basic Studies science program.

Full Course (4)

274. GEOCHEMISTRY. An introduction to the principal methods for, and results of, the application of chemistry to the study of the earth. Three hours of lecture and three hours of laboratory per week. Prerequisite: Chemistry 114.

Full Course (4)

276. MINERALOGY AND CRYSTALLOGRAPHY. Properties and origins of common minerals; crystal chemistry of major mineral groups; introductory optical and structural crystallography. Three hours of lecture and three hours of laboratory per week. Prerequisite: Chemistry 114.

Full Course (4)

281. LABORATORY IN SELECTED TOPICS IN CHEMISTRY. Advanced laboratory work for small groups of science majors. Six or twelve hours of laboratory per week. Prerequisite: Consent of instructor.

One-Half Course (2)\* or Full Course (4)\*

**286.** AMERICAN SCIENCE AND TECHNOLOGY. A critical assessment of the historical development and present role of science and technology in America, with particular attention to the interrelationships of science and technology with industry, government, education and culture.

Full Course (4)

**294.** COLLOQUIUM IN CHEMISTRY. A weekly discussion and reporting group concerned with new and advanced topics in chemistry. Involves journal reading. Open to students majoring in the sciences and mathematics.

One-Fourth Course (1)\*

# 295. SELECTED TOPICS IN CHEMISTRY. Prerequisite: Consent of instructor.

One-Half Course (2)\* or Full Course (4)\*

297. DIRECTED RESEARCH. Advanced laboratory work, with each student undertaking an independent and original investigation. Six or twelve hours of laboratory per week. Prerequisite: Senior standing and consent of instructor.

One-Half Course (2)\* or Full Course (4)\*

## EARTH AND SPACE SCIENCES

#### An Interdepartmental Field of Concentration

The program in this field is intended to meet the needs and interests of students whose departmental field is in one of the physical or biological sciences and who desire supplementary work in the areas represented by the earth and space sciences, and also of students whose departmental field is in one of the humanities or social sciences and who desire supplementary work in these scientific areas of great current interest and significance. In addition, a student may become qualified for graduate work in important areas of geology, oceanography, meteorology and astronomy by selecting this interdepartmental field along with a departmental field in chemistry, physics or geography.

## REQUIREMENTS FOR THE INTERDEPARTMENTAL FIELD OF CONCENTRATION IN THE EARTH AND SPACE SCIENCES

Students electing an interdepartmental field of concentration in the Earth and Space Sciences must complete nine courses:

- A. + Physics 150. Physical Geology
- B. Two courses (maximum) may be lower division courses which are prerequisite to those listed in D below. (Note that the same course may not also satisfy the Basic Studies requirement.)
- C. One course (maximum) may be directed research.
- D. Four courses (minimum) from the following list, including at least one from each of three of the departments; students whose departmental field of concentration is in Biological Science, Chemistry, or Physics must include courses from three departments other than their departmental major field.
  - + Biology 260. Biological Oceanography
  - + Biology 264. Paleontology
  - + Chemistry 270. Chemical Oceanography
    + Chemistry 274. Geochemistry

  - <sup>†</sup> Chemistry 276. Mineralogy and Crystallography
    - Geography 205. Cartography: Map Projections Geography 210. Principles of Geomorphology
    - Geography 215. Climatology
  - + Physics 250. Space Physics

  - + Physics 252. Geophysics+ Physics 256. Astrophysics
- E. The senior seminar in Earth and Space Sciences.

#### COURSE OFFERING

#### **Upper Division**

290. SEMINAR IN THE EARTH AND SPACE SCHENCES. Prerequisite: Senior standing or consent of the instructor.

#### Full Course (4)

† Consult course description for prerequisite.

## THE FOUNDATIONS OF NATURAL SCIENCE

## An Interdepartmental Field of Concentration

The interdepartmental field in the Foundations of Natural Science is intended both for students whose departmental field is in the School of Natural Sciences and Mathematics and for students whose departmental field is in one of the other schools. The program includes indepth course work in one or more areas of the natural sciences and consideration of science from the historical and philosophical viewpoints.

## REQUIREMENTS FOR THE INTERDEPARTMENTAL FIELD OF CONCENTRATION IN THE FOUNDATIONS OF NATURAL SCIENCE

Students electing an interdepartmental field of concentration in the Foundations of Natural Science must complete nine courses:

(Courses applied to groups A and B will not normally be chosen from the offerings of the department in which the student has his departmental major field.)

- A. Three courses (maximum) may be lower division courses in the School of Natural Sciences and Mathematics which are prerequisite to upper division courses in B below. (Note that the same courses may not also satisfy Basic Studies requirements.)
- B. Three upper division courses (minimum) in the School of Natural Sciences and Mathematics. For a student whose departmental field is in the School of Natural Sciences and Mathematics, A and B will generally consist of desirable course work in a supporting science field and of work beyond the minimum requirements in the Basic Studies program and in his departmental field. For a student whose departmental field is in one of the other Schools, A and B combined will generally consist of an in-depth sequence in one of the regular science departments.
- C. Philosophy 230. The Nature of Scientific and Humanistic Inquiry History 280. History of Science
- D. The senior seminar in this field.

### COURSE OFFERING

## **Upper Division**

**290.** SEMINAR IN THE FOUNDATION OF NATURAL SCIENCE. Prerequisite: Senior standing in this interdepartmental field, or consent of instructor.

## HEALTH AND PHYSICAL EDUCATION

### COURSE OFFERINGS

100. BASIC STUDIES HEALTH. A discussion of the broad aspects of health, including public health, economics of health, environmental health, mental health, and drugs and narcotics. Two hours of lecture per week.

One-Half Course (2)

101. BASIC STUDIES ACTIVITIES IN PHYSICAL EDUCATION. Two hours of activity per week.

One-Eighth Course (1/2)\*

150. INTERCOLLEGIATE AND EXTRAMURAL ATHLETICS. Instruction and participation in selected individual and team sports comprising the intercollegiate and extramural athletic programs. This course will not satisfy the general education requirement. Prerequisite: Consent of the instructor.

One-Fourth Course (1)\*

## **INFORMATION SYSTEMS**

## An Interdepartmental Field of Concentration

The program in this field is intended to provide a thorough grounding in the principles of data processing, of information storage and retrieval, and of automation in business, industry, and research. Opportunity is provided to gain a working familiarity with some of the modern tools used for these purposes.

## REQUIREMENTS FOR THE INTERDEPARTMENTAL FIELD OF CONCENTRATION IN INFORMATION SYSTEMS

### Lower Division

Mathematics 110-112. Differential and Integral Calculus I, II Mathematics 160. Introduction to Data Processing

#### **Upper Division**

A. Required Courses
English 210. Introduction to Linguistics
Philosophy 240. Symbolic Logic
†Mathematics 250. Probability and Statistics I
†Mathematics 260. Computational Methods or
†Mathematics 162. Data Processing Systems

B. Either one of the following pairs of courses: †Economics 250–251. Quantitative Economic Analysis I, II †Mathematics 266–268. Numerical Analysis I, II

C. One other upper division course, relevant to the program and approved by the adviser. Examples of possible courses are:

+Economics 255. Theory and Use of Business Accounting

†English 216. Linguistic Analysis

D. One course (or two half-courses) in a directed project or in research utilizing information systems, normally in the departmental area of interest to the student.

E. The senior seminar in Information Systems.

† Consult course description for prerequisite

## MATHEMATICS

## REQUIREMENTS FOR THE DEPARTMENTAL FIELD OF CONCENTRATION IN MATHEMATICS

#### Lower Division

Mathematics 110-112-114-116. Differential and Integral Calculus I, II, III, IV Physics 110-112-114. General Physics Chemistry 110-112-114. General and Quantitative Chemistry Biology 102. Basic Studies Biology or Biology 110. Principles of Biology

## **Upper Division**

Mathematics 212-214. Advanced Analysis Mathematics 220-222. Functions of Complex Variables Mathematics 230. Linear Algebra Mathematics 232. Abstract Algebra Two courses selected from: Mathematics 224-226. Functions of a Real Variable Mathematics 240-242. Topology Mathematics 250-252. Probability and Statistics I, II Mathematics 295. Selected Topics in Mathematics Mathematics 297. Directed Research

## COURSE OFFERINGS IN MATHEMATICS

## Lower Division

**010.** ALGEBRA AND TRIGONOMETRY. A course in algebra and trigonometry for students who do not meet the prerequisites for Mathematics 110 or Mathematics 150 or Mathematics 160.

Full Course (4)

- 100. BASIC STUDIES MATHEMATICS. Topics in modern mathematics, including set theory and concepts from logic; the real number system and subsystems; the concept of function, sequence and limit; and elementary concepts of calculus. Full Course (4)
- 110. DIFFERENTIAL AND INTEGRAL CALCULUS I. The real numbers, analytic geometry; functions, derivatives and integrals; continuous functions; trigonometric and exponential functions. Prerequisite: Mathematics 010, or two years of high school algebra and one semester of high school trigonometry.

#### Full Course (4)

112. DIFFERENTIAL AND INTEGRAL CALCULUS II. A continuation of Mathematics 110. Topics covered include techniques of integration, the definite integral in theory and application, and plane vector theory concepts. Prerequisite: Mathematics 110.

#### Full Course (4)

114. DIFFERENTIAL AND INTEGRAL CALCULUS III. A continuation of Mathematics 112. Topics covered include infinite series; the differential and integral calculus of 3-dimensional space including partial differentiation, vector algebra, and vector calculus. *Prerequisite: Mathematics 112.* 

116. DIFFERENTIAL AND INTEGRAL CALCULUS IV. A continuation of Mathematics 114. Topics covered include multiple integration with applications; Fourier series; and differential equations. *Prerequisite: Mathematics 114.* 

Full Course (4)

150. ELEMENTARY STATISTICS AND PROBABILITY. A practical course on an elementary college level in statistics and probability. Three hours of classroom and two hours of laboratory work per week. Prerequisite: Mathematics 010 or one year of high school algebra.

Full Course (4)

**152. STATISTICAL ANALYSIS AND CORRELATION.** Selected topics in statistical analysis and correlation. *Prerequisite: Mathematics 150.* 

Full Course (4)

160. INTRODUCTION TO DATA PROCESSING. A practical course in the principles and the practices of modern methods of data processing, including some work with computing equipment of varying degrees of complexity. Prerequisite: Mathematics 010 or two years of high school algebra.

Full Course (4)

162. DATA PROCESSING SYSTEMS. Philosophies and concepts of current state-ofart computer software, its uses and its design. Programming systems, such as compilers, assemblers, list processors and program generators; system programming including supervisors, background processing techniques and time sharing; input-output systems including remote access (batch and conversational), random processing and hybrid systems. Prerequisite: Mathematics 160.

Full Course (4)

#### **Upper** Division

212. ADVANCED ANALYSIS. Topics covered include advanced material on functions of several variables relating to partial derivatives, vector and differential geometry; the Stieltjes integral; line and surface integrals, and indeterminate forms. Prerequisite: Mathematics 116.

Full Course (4)

214. ADVANCED ANALYSIS. A continuation of Mathematics 212. Topics covered include infinite series, improper integrals, Fourier series, and the LaPlace transform. *Prerequisite: Mathematics 212.* 

Full Course (4)

220. FUNCTIONS OF COMPLEX VARIABLES. Complex numbers; point sets, sequences, and mappings; analytic functions; elementary functions; and integration. *Prerequisite: Mathematics 214.* 

Full Course (4)

222. FUNCTIONS OF COMPLEX VARIABLES. A continuation of Mathematics 220. Integration (continued); power series; the calculus of residues; conformal representation; and applications. *Prerequisite: Mathematics 220*.

Full Course (4)

224. FUNCTIONS OF A REAL VARIABLE. The real numbers and Dedekind cuts; set theory; metric spaces; Euclidean space; continuity of functions into a metric space. *Prerequisite: Mathematics 214.* 

226. FUNCTIONS OF A REAL VARIABLE. A continuation of Mathematics 224. Prerequisite: Mathematics 224.

Full Course (4)

230. LINEAR ALGEBRA. Linear equations; vector spaces; matrices; linear transformations; polynomials; determinants; theory related to equivalence and similarity of matrices; canonical forms. *Prerequisite: Mathematics 114*.

Full Course (4)

232. ABSTRACT ALGEBRA. Basic theory of groups, rings, integral domains, fields and related results. Prerequisite: Mathematics 114.

Full Course (4)

**240. TOPOLOGY.** Basic concepts including the algebra of sets; topological spaces; connectedness, compactness, and continuity; separation and countability axioms. *Prerequisite: Mathematics 214.* 

Full Course (4)

242. TOPOLOGY. A continuation of Mathematics 240. Prerequisite: Mathematics 240.

Full Course (4)

**250. PROBABILITY AND STATISTICS I.** Probability as a mathematical system; random variables and their distributions; limit theorems; topics in statistical inference. *Prerequisite: Mathematics 112.* 

Full Course (4)

252. PROBABILITY AND STATISTICS II. Continuation of Mathematics 250. Prerequisite: Mathematics 250.

Full Course (4)

260. COMPUTATIONAL METHODS. Numbers, determinants, and matrices; Boolean algebra, decision tables and algorithm processes as they relate to digital and hybrid systems. *Prerequisite: Mathematics 160.* 

Full Course (4)

266. NUMERICAL ANALYSIS I. Finite differences and applications; interpolation formulas; inversion of matrices; numerical methods of solution of linear equations; numerical differentiation and interpretation. *Prerequisite: Mathematics 116.* 

Full Course (4)

268. NUMERICAL ANALYSIS II. A continuation of Mathematics 266. Prerequisite: Mathematics 266.

Full Course (4)

**294.** COLLOQUIUM IN MATHEMATICS. A weekly reporting and discussion period for new and advanced topics in mathematics; involves journal reading. Open to students majoring in mathematics and the sciences.

One-Fourth Course (1)\*

- 295. SELECTED TOPICS IN MATHEMATICS. Prerequisite: Consent of instructor. One-Half Course (2)\* or Full Course (4)\*
- 297. DIRECTED RESEARCH. Advanced work, with each student undertaking an independent and original investigation. Prerequisite: Senior standing and consent of instructor.

One-Half Course (2)\* or Full Course (4)\*

#### PHYSICS

## REQUIREMENTS FOR THE DEPARTMENTAL FIELD OF CONCENTRATION IN PHYSICS

#### Lower Division

Mathematics 110-112-114-116. Differential and Integral Calculus I, II, III, IV Physics 110-112-114-116. General Physics Chemistry 110-112-114. General and Quantitative Chemistry Biology 102. Basic Studies Biology or Biology 110. Principles of Biology

#### **Upper Division**

Physics 210. Theoretical Mechanics
Physics 230. Electricity and Magnetism I or Physics 232. Electricity and Magnetism II
Physics 231. Electrical Measurements
Physics 240. Thermodynamics
Physics 260-262. Modern Physics I, II
Physics 281. Laboratory on Selected Topics in Physics
One other course selected from the following: Physics 250. Space Physics

Physics 252. Geophysics

Physics 256. Astrophysics

Physics 264. Modern Physics: Nuclear Physics

Physics 266. Modern Physics: Quantum Theory

## COURSE OFFERINGS IN PHYSICS

#### Lower Division

102. BASIC STUDIES PHYSICS. Discussion of basic concepts of mechanics, electricity and magnetism, light, and topics in modern physics. Three hours of lecture and one hour of group discussion per week. Prerequisite: Chemistry 100 and Mathematics 100.

Full Course (4)

110. GENERAL PHYSICS. Kinematics, particle dynamics, conservation theorems, angular momentum and gravitation. Three hours of lecture and three hours of laboratory per week. Prerequisite: Mathematics 112, Chemistry 112 (or consent of instructor).

Full Course (4)

112. GENERAL PHYSICS. Wave motion, heat and kinetic theory, geometrical and wave optics. Three hours of lecture and three hours of laboratory per week. Prerequisite: Physics 110.

Full Course (4)

114. GENERAL PHYSICS. Electrical phenomena. Coulomb's law, the electric field, Gauss' law, potential, the magnetic field, Ampere's law, Faraday's law. Three hours of lecture and three hours of laboratory per week. Prerequisite: Physics 110.

116. GENERAL PHYSICS. Limitations of classical mechanics, the quantum theory of the atom, the atomic nucleus. Three hours of lecture and three hours of laboratory per week. Prerequisite: Physics 112 and Physics 114.

Full Course (4)

150. PHYSICAL GEOLOGY. An introduction to the fundamental principles of physical geology. Consideration is given to rocks and minerals, structure and deformation of the earth's crust, and erosional processes. Three hours of lecture and three hours of laboratory per week. Prerequisite: Three lower division Basic Studies science courses, or Chemistry 114.

Full Course (4)

#### **Upper Division**

200. BASIC STUDIES EARTH AND SPACE SCIENCES. Problems in and application of the basic concepts of the physical and biological sciences to the expansion of knowledge in geology, oceanography, meteorology and astronomy. Prerequisite: Chemistry 102 and Physics 102.

Full Course (4)

210. THEORETICAL MECHANICS. Newtonian mechanics of one and two particles, harmonic oscillator, Kepler problem, special relativity. Prerequisite: Physics 112 or 114 and Mathematics 114.

Full Course (4)

212. THEORETICAL MECHANICS. A continuation of Physics 210. Many particle systems, rigid body kinematics and dynamics, coupled oscillators, Lagrange's and Hamilton's equations of motion. Prerequisite: Physics 210.

Full Course (4)

220. GEOMETRICAL AND PHYSICAL OPTICS. A study of interference, diffraction, refraction, reflection, dispersion, resolution and polarization. Optical systems and instruments. Three hours of lecture and three hours of laboratory per week. Prerequisite: Physics 112 and Mathematics 114.

Full Course (4)

230. ELECTRICITY AND MAGNETISM I. Electrostatic and magnetic fields; Gauss' theorem; potentials; laws of direct current circuits; capacitance. Prerequisite: Physics 114 and Mathematics 114.

Full Course (4)

231. ELECTRICAL MEASUREMENTS. Laboratory measurements using electronic circuits and electrical instruments most commonly encountered in physical, chemical and biological measurements. Six hours of laboratory per week. Prerequisite: Physics 114.

One-Half Course (2)

- 232. ELECTRICITY AND MAGNETISM II. Laws of alternating current circuits, generators and motors; Maxwell's equations; electrical oscillations; electromagnetic wave propagation. Prerequisite: Physics 114 and Mathematics 114. Full Course (4)
- 240. THERMODYNAMICS. First and second laws of thermodynamics; entropy; equations of state; kinetic theory. Prerequisite: Physics 112 and Mathematics 116. Full Course (4).

**250.** SPACE PHYSICS. A study of physical phenomena of interplanetary and interstellar space. Optical windows in the atmosphere; reflectivity of ultraviolet and infrared radiations by clouds; electron and proton concentration throughout free space; ionization and the Van Allen belts, and other information affecting interplanetary communication and travel. Three hours of lecture and three hours of laboratory per week. Prerequisite: Physics 112 and Physics 114.

Full Course (4)

252. GEOPHYSICS. An introduction to the principal methods for, and results of, the application of physics to the study of the earth. Prerequisite: Physics 114, Mathematics 114, or equivalent.

Full Course (4)

256. ASTROPHYSICS. A quantitative study of solar and stellar astronomy with emphasis on methods of astronomical measurements and calculations. Prerequisite: Physics 112 and 114.

Full Course (4)

**260. MODERN PHYSICS 1.** Introductory discussion of quantum mechanics. Particle in a square well, the harmonic oscillator, the hydrogen atom. *Prerequisite: Physics 116 and 210.* 

Full Course (4) Not offered in 1968-69

262. MODERN PHYSICS II. A continuation of Physics 260. Solid state physics. Prerequisite: Physics 260.

Full Course (4) Not offered in 1968-69

264. MODERN PHYSICS: NUCLEAR PHYSICS. A study of nuclear forces, interaction of radiation with matter, fundamental particles, nuclear fission and fusion; nuclear energy; high voltage generators. *Prerequisite: Physics 260*.

Full Course (4) Not offered in 1968-69

266. MODERN PHYSICS: QUANTUM THEORY. Quantum theory of the atom with emphasis on the wave mechanical treatment, Schrodinger equations and the harmonic oscillator. Prerequisite: Physics 212 and Physics 260 and Mathematics 116.

Full Course (4) Not offered in 1968-69

281. LABORATORY ON SELECTED TOPICS IN PHYSICS. Advanced laboratory work for small groups of physics majors. Six or twelve hours of laboratory per week. Prerequisite: Consent of instructor.

One-Half Course (2)\* or Full Course (4)\*

**294.** COLLOQUIUM IN PHYSICS. A weekly discussion and reporting group concerned with new and advanced topics in physics; involves journal reading. Open to students majoring in the sciences and mathematics.

One-Fourth Course (1)\*

295. SELECTED TOPICS IN PHYSICS. Prerequisite: Consent of instructor.

One-Half Course (2)\* or Full Course (4)\*

297. DIRECTED RESEARCH. Advanced laboratory work, with each student undertaking an independent and original investigation. Six or twelve hours of laboratory per week. Prerequisite: Senior standing and consent of instructor.

One-Half Course (2)\* or Full Course (4)\* Not offered in 1968-69

\* Repeatable Course

# THE SCHOOL OF SOCIAL AND BEHAVIORAL SCIENCES

The School of Social and Behavioral Sciences includes departments of anthropology, economics, geography, history, political science, psychology, and sociology. The School is responsible for courses in the Basic Studies program in social and behavioral sciences; for departmental fields in the disciplines named; for much of the course work in the interdepartmental fields of American Studies, Behavioral Sciences, Urban Studies and Environmental Design, International Relations, and American Business and Economic Systems; and for elective courses in the various departments.

Curriculums in the School are designed to explain the cultural landscape, human attitudes and human behavior through methods already well established, and through the use of newer analytical techniques frequently involving quantitative procedures.

Programs in the departmental fields combined with interdepartmental fields, chosen from any of the three Schools in the college, provide a wide degree of flexibility for attaining various educational, vocational, or professional goals. Appropriate combinations will enable students not only to complete their bachelor's degree with an emphasis on social and behavioral sciences, but also to prepare for graduate work and to obtain a background for additional study leading to careers in business, government service, law, and other professions. Graduate degree programs in departmental and interdepartmental fields are also being implemented in accordance with the academic master plan of the college.

# AMERICAN BUSINESS AND ECONOMIC SYSTEMS

An Interdepartmental Field of Concentration

There are two emphases in this interdepartmental field: one, the function of business as it relates to changing governmental, social, and economic patterns; and two, the structure of American business, including the understanding of accounting and control systems, methods of production and marketing, and the constraints and assistance of government, all of which are basic to an analysis of the American business and economic system

# REQUIREMENTS FOR THE INTERDEPARTMENTAL FIELD OF CONCENTRATION IN AMERICAN BUSINESS AND ECONOMIC SYSTEMS

A. Required Courses:

+Mathematics 150. Elementary Statistics and Probability

+Economics 110 and 111. Introductory Economics

\*Economics 255. Theory and Use of Business Accounting

+Economics 260. Management in Theory and Practice

B. Three upper division courses from the School of Social and Behavioral Sciences, at least two of which shall be from departments other than the student's departmental major.

†Economics 215. American Economic History

+Economics 230. Labor and the American Economy

\*Economics 250. Quantitative Economic Analysis I \*Economics 251. Quantitative Economic Analysis II

+Economics 275. Government and the American Economy

\*Economics 285. Economic Policy and Social Problems

<sup>†</sup>Geography 225. Economic Geography I

Geography 260. Geography of the United States and Canada

History 246. Emergence of Modern America

History 248. United States: Recent Period

History 282. Law and Society

Political Science 210. Issues in American National Government

Political Science 254. American Political Thought

Psychology 240. Social Psychology

Sociology 211. Social Organization

C. Two courses selected from the School of Humanities and Fine Arts and/or the School of Natural Sciences and Mathematics.

Chemistry 286. American Science and Technology

\*English 275. Modern Social and Political Fiction

+Mathematics 160. Introduction to Data Processing

Philosophy 230. The Nature of Scientific and Humanistic Inquiry

Philosophy 270. Philosophy in the Modern World

D. The senior seminar in this field. NOTE: Economics majors should elect sufficient additional courses from B and C to complete nine courses in their interdepartmental field.

<sup>†</sup> Consult course description for prerequisites

# COURSE OFFERING

# **Upper Division**

290. SEMINAR IN AMERICAN BUSINESS AND ECONOMIC SYSTEMS. Designed to integrate perspectives in American business and economic systems afforded by the major. Students will prepare and present seminar papers. Prerequisite: Senior standing and consent of instructor.

# **AMERICAN STUDIES**

# An Interdepartmental Field of Concentration

The interdepartmental field in American Studies is designed to provide an understanding of the cultural patterns of American life through broad study involving several departments of the college.

# REQUIREMENTS FOR THE INTERDEPARTMENTAL FIELD OF CONCENTRATION IN AMERICAN STUDIES

## **Upper Division**

A. History 252. History of American Thought

- B. Three courses, selected from at least two different departments in the School of Social and Behavioral Sciences (in addition to History 252). Examples of courses which would apply are:
  †Economics 215. American Economic History
  †Economics 275. Government and the American Economy
  Geography 260. Geography of the United States and Canada
  History 240. United States: Colonial Period
  History 246. Emergence of Modern America
  Political Science 210. Issues in American National Government
  Political Science 254. American Political Thought
  Psychology 240. Social Psychology
  Sociology 210. Social Stratification and Class
  C. Three courses selected from at least two different departments in the School
- C. Three courses, selected from at least two different departments in the School of Humanities and Fine Arts. Examples of courses which would apply are: Art. 250. American Art and American Society
  - +English 240. American Literature I
  - <sup>+</sup>English 241. American Literature II
  - Music 250. American Music

Philosophy 270. Philosophy in the Modern World

D. An approved elective in an area outside the School of the student's departmental field.

A course such as Chemistry 286 (American Science and Technology) could apply.

E. The senior seminar in this field.

## COURSE OFFERING

### **Upper Division**

290. SEMINAR IN AMERICAN STUDIES. An integrative seminar serving as a capstone to the interdepartmental major in American studies. Intensive study of selected topics relating to the American culture and the preparation of research papers by members of the class. Prerequisite: Senior standing and consent of instructor.

<sup>†</sup> Consult course description for prerequisites.

### ANTHROPOLOGY

Students selecting a departmental field in anthropology should note: The pattern of requirements for this departmental field will be developed during 1968-69 and juniors may begin the program in 1969-70. Additional senior-level courses will be added at that time.

### COURSE OFFERINGS IN ANTHROPOLOGY

Lower Division

110. CULTURAL ANTHROPOLOGY. Examination of anthropological approach to study of man. The concept of culture, evolution of cultural systems, application of concept of culture to anthropological problems.

Full Course (4)

111. PHYSICAL ANTHROPOLOGY. Origin of man, man's place in nature. Examination of fossil evidence of human evolution. Bases for racial classification.

Full Course (4)

**Upper Division** 

**200. BASIC STUDIES ANTHROPOLOGY.** Cultural institutions and processes, with emphasis on tools and methods used by anthropologists to study the functional and historical aspects of human behavior. *Three hours of lecture and one hour of group discussion per week.*<sup>1</sup>

Full Course (4)

- **210.** CULTURE AND PERSONALITY. Personality development in cultural milieu; basic personality, cognition, and other concepts related to cultural variations. Full Course (4)
- **212.** LANGUAGE AND CULTURE. Analysis of language as an aspect of culture. Relationship between language and culture patterns; dynamics of language and cultural change; the problem of meaning.

Full Course (4)

**220. URBAN ANTHROPOLOGY.** Comparative analysis of patterns of urban culture. Evidences of prehistoric urban life. Urban cultural patterns in nonindustrialized societies.

Full Course (4)

230. INDIANS OF NORTH AMERICA. Native peoples of North America, their origins, cultural patterns. Culture change after European settlement.

Full Course (4)

235. PEOPLES OF EAST ASIA. Investigation of rise of civilization in East Asia; comparative analysis of socio-cultural institutions among the peoples of East Asia.

Full Course (4)

**285. ETHNOLOGICAL THEORY.** Survey and analysis of major schools of anthropological thought. Relation of contemporary theory to its historical roots.

<sup>&</sup>lt;sup>1</sup> Anthropology majors should take Sociology 200 to meet Basic Studies requirement.

# **BEHAVIORAL SCIENCES**

## An Interdepartmental Field of Concentration

The interdepartmental field in Behavioral Sciences is designed to provide the student with a broad understanding of the psychological and sociological forces which shape human behavior and their impact on all facets of culture.

# REQUIREMENTS FOR THE INTERDEPARTMENTAL FIELD OF CONCENTRATION IN BEHAVIORAL SCIENCES

# Lower Division

Mathematics 150. Elementary Statistics and Probability

#### **Upper Division**

A. Two courses, but not more than one in a single discipline, selected from the following in the history and/or theory of the behavioral sciences: Anthropology 285. Ethnological Theory Chemistry 286. American Science and Technology †Economics 215. American Economic History †Economics 216. Economic History of Europe †Economics 221. History of Economic Thought +Economics 280. The Economics of Urban Areas History 280. History of Science Philosophy. 230. The Nature of Scientific and Humanistic Inquiry Political Science 251. Modern Political Thought Political Science 254. American Political Thought Psychology 225. History and Systems of Psychology Sociology 255. Modern Sociological Theories B. One course selected from the following in Biology: +Biology 230. Population Biology +Biology 232. Ecology

- +Biology 240. Genetics
- †Biology 246. Human Heredity
- +Biology 252. Animal Physiology
- C. One course selected from the following in literature and the arts: †Art 270. Twentieth Century Artists: Their Writings and Their Art †English 275. Modern Social and Political Fiction †Philosophy 260. Selected Works in Existentialist Thought Philosophy 270. Philosophy in the Modern World
- D. Choice of any four upper division courses in anthropology, psychology, or sociology (excluding Anthropology 200 or Sociology 200). Students may take no more than two courses in one of these disciplines. Courses must be chosen from fields other than the student's departmental major. The four courses may include also Political Science 214, American Political Parties and Elections, and/or Political Science 270, Public Opinion and Propaganda.
- E. The senior seminar in this field.

<sup>†</sup> Consult course description for prerequisite.

# COURSE OFFERING

#### **Upper Division**

290. SEMINAR IN BEHAVIORAL SCIENCES. An integrative course to study selected topics and present seminar papers for critical review. Prerequisite: Senior standing and consent of instructor.

Full Course (4)

# THE MASTER OF ARTS DEGREE IN BEHAVIORAL SCIENCES

The several areas of the social, behavioral, and biological sciences will contribute to the program for the Master of Arts in Behavioral Sciences. This will be a fullyear, or four quarter, sequence of courses. Students admitted to the program are expected to have a basic background in statistics and research methods.

This program is recommended as preparation for school and college administrators, administrators of programs or agencies, to general classroom teachers, to specialist teachers of the gifted, disadvantaged, educationally handicapped, or retarded, to personnel specialists in business, industry, or agencies, to researchers in behavioral sciences, to Ph.D. candidates in the behavioral sciences, and to candidates for advanced degrees in higher education.

A brochure describing the program is available from the School of Social and Behavioral Sciences.

### ECONOMICS

# REQUIREMENTS FOR THE DEPARTMENTAL FIELD OF CONCENTRATION IN ECONOMICS

### Lower Division

Mathematics 150. Elementary Statistics and Probability Economics 110-111. Introductory Economics

### **Upper Division**

Eight courses in economics, as follows:

- A. Economics 285. Economic Policy and Social Values
- B. Economics 215. American Economic History or Economics 216. Economic History of Europe
- C. Two courses selected from: Economics 221. History of Economic Thought Economics 240. International Economics Economics 245. Economic Development and Underdevelopment Economics 249. The Soviet Economy
- D. Three courses selected from:
  - Economics 225. Monetary and Fiscal Theory and Policy
  - Economics 226. Major Issues in Public Finance
  - Economics 250. Quantitative Economic Analysis I

Economics 255. Theory and Use of Business Accounting

- Economics 275. Government and the American Economy
- E. Any additional upper division course in economics.

# COURSE OFFERINGS IN ECONOMICS

### Lower Division

- 100. BASIC STUDIES ECONOMICS. The nature of the economic problems faced by all societies, and the alternative ways in which these have been resolved. Historical development of the institutions and values of contemporary capitalism. Full Course (4)
- 110. INTRODUCTORY ECONOMICS. Fundamental economic concepts and analysis of economic problems. How resources are allocated, output determined, production organized, and income distributed. Prerequisite: Economics 100.

#### Full Course (4)

111. INTRODUCTORY ECONOMICS. National income accounting, monetary systems, fiscal policy. Problems of growth and stability. International trade and economic development. *Prerequisite: Economics 110*.

Full Course (4)

### **Upper Division**

215. AMERICAN ECONOMIC HISTORY. 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. Prerequisite: Economics 100 or 110.

216. ECONOMIC HISTORY OF EUROPE. Analysis of the processes of economic change in Europe from early times, with emphasis on the causes and social consequences of transformation into modern industrial societies. Prerequisite: Economics 100 or 110.

Full Course (4)

221. HISTORY OF ECONOMIC THOUGHT. Economic concepts and theories from Aristotle to the present. Changing attitudes on policy issues in western societies in the context of general historical development. Prerequisite: Economics 110 and 111.

Full Course (4)

225. MONETARY AND FISCAL THEORY AND POLICY. Analysis of the impact of monetary phenomena on the economy, in theory and fact, with special consideration of the banking system, and of the federal government in its taxing and spending functions. *Prerequisite: Economics 110 and 111.* 

Full Course (4)

226. MAJOR ISSUES IN PUBLIC FINANCE. Study and evaluation of the fiscal roles of the federal, state and local governments. Consideration of the economic and social effects of various patterns of taxation, expenditure and debt management. Prerequisite: Economics 110 and 111.

Full Course (4)

**230.** LABOR AND THE AMERICAN ECONOMY. Historical and analytical study of the role of labor as a major productive agent, and as a component in the sociopolitical process. Consideration of forces determining the general wage level or labor share, and wage differentials, including the role of the market, collective bargaining and statutory requirements. *Prerequisite: Economics 100 or 110.* 

Full Course (4)

240. INTERNATIONAL ECONOMICS. Theory and operation of international economic relationships: specialization and trade, investment, monetary mechanisms, balance of payments, and the special problems of underdeveloped nations in the international economy. *Prerequisite: Economics 110 and 111*.

Full Course (4)

245. ECONOMIC DEVELOPMENT AND UNDERDEVELOPMENT. Major factors in the development processes of currently advanced nations. Relevance of these factors to the prospect of both unplanned and planned development of backward areas. Prerequisite: Economics 100 or 111.

Full Course (4)

249. THE SOVIET ECONOMY. The historical background and development of the Soviet system, and its current character and results. Oriented toward comparison with the principles, social control processes, achievements, and values of the American system. Prerequisite: Economics 110 and 111.

Full Course (4)

250. **QUANTITATIVE ECONOMIC ANALYSIS 1.** The role of advanced statistical methods and other quantitative techniques in the testing of economic hypotheses and in decision making. The uses of mathematical models, games, and linear programming in the analysis and solution of problems in transportation, marketing, inventory control, and monetary control. *Prerequisite: Economics 100 or 110, and Mathematics 152 or 250.* 

**251. QUANTITATIVE ECONOMIC ANALYSIS II.** The construction of mathematical models, management games, and linear systems, and their application in research, training, and decision making. Purpose, simplicity, verisimilitude, and reality in model construction and implementation, along with the mathematical aspects of design. *Prerequisite: Economics 250.* 

Full Course (4) Not offered in 1968-69

**255. THEORY AND USE OF BUSINESS ACCOUNTING.** The concepts and economic processes underlying business accounting systems, from the viewpoint of the firm and of the economy as a whole. *Prerequisite: Economics 110 and 111.* 

Full Course (4)

260. MANAGEMENT IN THEORY AND PRACTICE. Management theory, structure and techniques as they have developed in twentieth century America. Their applicability and transferability in the affairs of various contemporary institutions, public and private, profit and non-profit. Managerial decision making. Prerequisite: Economics 110 and 111.

Full Course (4)

275. GOVERNMENT AND THE AMERICAN ECONOMY. Study of the role of government in the development of the American economy: how it has fostered, influenced, regulated and participated in the nation's economic growth. Current issues of economic concentration, corporate organization, agriculture, consumer economics, etc. Prerequisite: Economics 100 or 111.

Full Course (4)

280. THE ECONOMICS OF URBAN AREAS. Economic factors underlying and following from the urbanization of modern societies. Current problems such as urban decay, air and water pollution, transportation constriction, education, racial concentrations, and city-state and city-federal relationships. Prerequisite: Economics 100 or 111.

Full Course (4)

285. ECONOMIC POLICY AND SOCIAL VALUES. Consideration of the alternative social and personal values implied by different policy judgments on significant public issues, such as distribution and taxation of income, consumer sovereignty, freedom of enterprise, and social welfare programs. Prerequisite: Economics 110 and 111.

Full Course (4)

298. INDEPENDENT STUDY. Individual study of some topic or problem under the supervision of a member of the Economics Department. Prerequisite: Economics 110 and 111, and consent of instructor.

# **EDUCATION**

# TEACHER PREPARATION PROGRAMS

The college offers a program of teacher preparation leading to the elementary credential and a program of teacher preparation leading to the secondary credential. Each program is a three-quarter sequence of courses which include field assignments and directed teaching.

Details regarding the requirements for each program are available from the Office of the Director of Teacher Education Programs. Prerequisites for admission to these programs are:

- 1. Completion of courses in Motivation and Learning and Developmental Psychology.
- 2. Application for admission to the teacher education program on or before April 15, 1968.
- 3. Acceptance by the Teacher Education Committee.

# COURSE DESCRIPTIONS

320. PRINCIPLES AND METHODS OF TEACHING. The basic principles which underlie successful teaching, including planning for varying capabilities and interests, design of effective classroom organization, and study of interpersonal relationships. The course includes analysis of critical incidents, in printed and taped form, and classroom observation. Two hours of lecture-discussion and three hours of observation and participation per week.

#### **One-Half Course (2)**

330. THE TEACHING OF READING. Procedures and materials for teaching reading throughout the total program, including the use of recent media and methods. Three hours of lecture-discussion and three hours of observation and participation per week.

#### Full Course (4)

340. MATERIALS AND TECHNIQUES FOR TEACHING IN THE SOCIAL STUDIES AND NATURAL SCIENCES. Study of curriculums and materials in elementary school social studies and natural sciences. Three hours of lecture-discussion and three hours of observation and participation per week.

#### Full Course (4)

**350.** MATERIALS AND TECHNIQUES IN THE HUMANITIES AND FINE ARTS. The development of understandings and appreciation in music, art, literary masterpieces, and creative writing at the elementary school level. One hour of lecturediscussion and three hours of observation and participation per week.

One-Half Course (2)

351. MATERIALS AND TECHNIQUES IN THE HUMANITIES AND FINE ARTS. A continuation of Education 350. Three hours of lecture-discussion and three hours of observation and participation per week.

**380. METHODS AND MATERIALS IN SECONDARY EDUCATION.** Preparation for supervised teaching in both the departmental and interdepartmental fields of emphasis. Four hours of lecture-discussion and six hours of observation and participation per week.

One and One-Half Courses (6)

**390.** SUPERVISED TEACHING IN THE SECONDARY SCHOOL. The student is required to complete a minimum of 120 hours of supervised teaching in a two quarter sequence. The supervised teaching will be arranged in conjunction with scheduled observations of outstanding teachers. All students are required to attend a weekly seminar with faculty supervisors and supervising teachers.

- Full Course (4)
- **391.** SUPERVISED TEACHING IN THE SECONDARY SCHOOL. A continuation of Education 390.

One-Half Course (2)

**395.** SUPERVISED TEACHING IN THE ELEMENTARY SCHOOL. The student is required to complete a minimum of 180 hours of supervised teaching in a two quarter sequence. The supervised teaching will be arranged in conjunction with scheduled observations of outstanding teachers. All students are required to attend a weekly seminar with faculty supervisors and supervising teachers.

**Two Full Courses (8)** 

**396. SUPERVISED TEACHING IN THE ELEMENTARY SCHOOL.** A continuation of Education 395.

One-Half Course (2)

397. SEMINAR IN STUDENT TEACHING. Weekly meetings with faculty supervisors and supervising teachers. Required for all elementary and secondary student teachers.

No credit

**480.** SEMINAR IN SUPERVISION OF TEACHING. A weekly seminar in preparation for supervision of candidates for teaching credentials. Prerequisite: Invitation of Director of Teacher Education Programs only.

**One-Half Course (2)** 

Added requirement for all candidates:

HISTORY 386. HISTORY AND PHILOSOPHY OF EDUCATION. (See course description on page 94.)

# GEOGRAPHY

# REQUIREMENTS FOR THE DEPARTMENTAL FIELD OF CONCENTRATION IN GEOGRAPHY

#### Lower Division

Geography 110. Elements of Geography Geography 150. Field Study in Geography

### **Upper Division**

One course in regional geography One course in research methods and design Two courses in physical geography or cartography Two courses in settlement, population or political geography Two courses in economic geography One elective in geography or advised related field

# COURSE OFFERINGS IN GEOGRAPHY

### Lower Division

100. BASIC STUDIES GEOGRAPHY. The concept of geographic regions as they are defined by elements of location, both physical and cultural; selected regions used to illustrate the influence of these factors and to show the relationship of one element to the other. Three hours of lecture and two hours of laboratory per week.

#### Full Course (4)

110. ELEMENTS OF GEOGRAPHY. An introduction to geography as the science of location; the organization of geographical data to describe and interpret the land-scape. Three hours of lecture and two hours of laboratory per week.

#### Full Course (4)

115. MAP AND AERIAL PHOTOGRAPH INTERPRETATION. An introduction to the grid systems on maps, map scale, and the interpretation of physical and cultural data on maps. Four hours of laboratory per week.

#### One-Half Course (2)

119. GRAPHICS IN THE SOCIAL SCIENCES. The theory and practice of presenting factual data in graphic form; construction of charts, graphs, symbols, and areal distribution maps used in business, economics, education, geography, government, planning, and sociology. Four hours of laboratory per week.

#### **One-Half Course (2)**

**150.** FIELD STUDY IN GEOGRAPHY. A series of conducted trips to selected areas for study of the inter-relation of natural environment and human activities. One hour of classroom preparation per week, with field work by arrangement.

One-Half Course (2)\*

\* Repeatable Course

# **Upper Division**

- 205. CARTOGRAPHY: MAP PROJECTIONS. The concept of developable surfaces; shape and dimensions of the geoid; terrestrial coordinates and the transfer of coordinate systems; the problems of linear, angular and areal equivalence and distortion in transfers; criteria and evaluation of map projections; history of cartography. Two hours of classroom and six hours of laboratory work per week. Full Course (4)
- 206. QUANTITATIVE MODELS AND MAP ANALYSIS. A comparison of statistical techniques and mapping techniques in the analysis of locational problems; includes the application of quantitative analysis in mapping. Three hours of classroom and two hours of laboratory work per week. Prerequisite: Mathematics 150 and Geography 110.

Full Course (4)

**210. PRINCIPLES OF GEOMORPHOLOGY.** Analysis of factors responsible for landforms. Geographic patterns of the world's landforms and the relationship of these patterns to principles governing the processes of erosion, including climatic factors, and forces in the interior of the earth; landform conditions related to soil formation.

Full Course (4)

**215.** CLIMATOLOGY. Geographic distribution of air masses, storms, and weather elements. Systems of climatic classification. Three hours of lecture and two hours of laboratory per week.

Full Course (4)

220. GEOGRAPHY OF NATURAL RESOURCES. Spatial distribution of native vegetation, soils, minerals, water, and fish. Geographic problems of resource use.

Full Course (4)

225. ECONOMIC GEOGRAPHY I. Location, distribution, and flow of the world's major types of production and associated systems of distribution and consumption: an interpretation of man's economic activities in relation to cost of production including natural resources. Three hours of lecture and one hour of group discussion per week. Prerequisite: Geography 110 or equivalent.

Full Course (4)

226. ECONOMIC GEOGRAPHY II. A continuation of Geography 225. Prerequisite: Geography 225 and Mathematics 150.

Full Course (4)

**235.** URBAN GEOGRAPHY. Study of distribution of world cities; urban settlements as regional centers; city-region relationships; the structure of cities, and their historical development.

Full Course (4)

246. POLITICAL GEOGRAPHY. Internal and external relations of politically organized units of area; survey of current world problem areas.

Full Course (4)

260. GEOGRAPHY OF THE UNITED STATES AND CANADA. An analysis of the distribution of natural resources, economic development, and population in the United States and Canada; selected economic, social, and political problems are analyzed in each region. Three hours of lecture and one hour of group discussion per week.

**270. GEOGRAPHY OF EAST ASIA.** An analysis of the distribution of the elements of geography as they affect population patterns and cultural activities in the countries of East Asia; selected economic, social, and political problems are analyzed in each region.

Full Course (4)

**298.** INDEPENDENT STUDY. Independent study of a particular problem under the direction of a member of the geography staff.

# HISTORY

# REQUIREMENTS FOR THE DEPARTMENTAL FIELD OF CONCENTRATION IN HISTORY

### Lower Division

History 110-111. History of Civilization

### **Upper Division**

History 210. Seminar in Historical Study

Eight additional courses in history,\* of which:

No more than four may be in one area (i.e., Europe, United States, Asia, Latin America), and

At least two must be in an area other than the United States or Europe.

# COURSE OFFERINGS IN HISTORY

# Lower Division

100. BASIC STUDIES HISTORY. An introduction to historical understanding and interpretation, including analysis of the various forces and circumstances which produce historical developments and of the means by which historians evaluate causes and effects. This process is illustrated by a study of major themes in the history of the American people, and the interaction of forces contributing to an American culture. Meets State requirement in U.S. history. Three hours of lecture and one hour of group discussion per week.

Full Course (4)

110. HISTORY OF CIVILIZATION. A study of the institutions and ideas of man from ancient times to the close of the fourteenth century. The context of the development of civilization is used to demonstrate the nature of historical inquiry and its role in reconstructing man's past.

Full Course (4)

111. HISTORY OF CIVILIZATION. The development of civilization in modern times. Traces the growth and expansion of European institutions and the interaction of western civilization with non-European cultures in the nineteenth and twentieth centuries.

Full Course (4)

### **Upper Division**

**210. SEMINAR IN HISTORICAL STUDY.** An undergraduate seminar in historical method and bibliography, including a consideration of the problems of historical interpretation and philosophy as expressed by major historians.

<sup>\*</sup> One of the following courses may also be included as part of the major: Economics 215 or Economics 216.

**220. THE ANCIENT WORLD.** 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.

Full Course (4)

222. THE MEDIEVAL WORLD. The history of Europe from the decline of the Roman Empire through the Renaissance. Studies the development of medieval institutions, including feudalism and the Church, and traces the rise of the city and the growth of capitalism.

Full Course (4)

224. EARLY MODERN EUROPE. The political, economic and intellectual foundations of modern Europe from the Renaissance to the Congress of Vienna. Includes the age of the Reformation, the development of nation states, and the era of the French Revolution.

Full Course (4)

226. NINETEENTH CENTURY EUROPE. The development of Europe from the age of Metternich to the outbreak of World War I. Emphasis on such major themes as: reaction and revolution; the idea of progress, nationalism and imperialism; the background to world conflict.

Full Course (4)

228. TWENTIETH CENTURY EUROPE. A study of the political, economic and intellectual effects of two world wars on European institutions. The rise of totalitarian movements, attempts at collective security, and the problems of the post-World War II period.

Full Course (4)

230. ENGLAND TO 1688. The history of England from earliest times to 1688. A consideration of the political, intellectual, and economic aspects of Anglo-Saxon, Norman, medieval, Tudor, and Stuart England.

Full Course (4)

232. ENGLAND FROM 1688. The history of England from 1688 to the present. A study of modern England, including such major themes as the Industrial Revolution, reaction and reform in the nineteenth century, imperialism, and Socialist Britain.

Full Course (4)

234. THE BRITISH EMPIRE AND COMMONWEALTH. A survey of the post-Napoleonic developments in the British Empire, with emphasis on the separate cultures of dependent areas, dominion nationalism, and the theory of imperialism.

Full Course (4)

240. UNITED STATES: COLONIAL PERIOD. The founding and expansion of the colonial settlements in North America to 1789. The adaptation of European institutions to a new environment, and the course of imperial conflict leading to independence and the formation of Union.

Full Course (4)

242. UNITED STATES: EARLY NATIONAL PERIOD. 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.

246. EMERGENCE OF MODERN AMERICA. 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.

Full Course (4)

248. UNITED STATES: RECENT PERIOD. Major developments in American life and institutions since World War I. Includes a consideration of the problems of prosperity and depression; the effects of two world wars; and new responsibilities in the nuclear age.

Full Course (4)

**250. DIPLOMATIC HISTORY OF THE UNITED STATES.** A study of the evolution of American foreign relations from the time of the Revolution to the present. Emphasis is given to major policies which have guided its formulation and execution, such as neutrality, isolation, the Monroe Doctrine, and the Open Door.

Full Course (4)

**252. HISTORY OF AMERICAN THOUGHT.** A study of the ideas which have shaped American intellectual life, as they have been expressed in economic and political thought, philosophy, theology, literature and science.

Full Course (4)

**260.** LATIN AMERICA: COLONIAL PERIOD. The conquest and settlement of colonial Latin America to the time of the wars of independence, with attention also to the ancient civilizations of the area.

Full Course (4) Not offered in 1968-69

262. LATIN AMERICA: NATIONAL PERIOD. The struggle for independence and social, political, and economic problems of the Latin American nations in recent times.

Full Course (4) Not offered in 1968-69

270. ASIA TO 1600. A survey of the traditional cultures of China, Japan, and India, including the political, economic, and intellectual developments from the earliest times.

Full Course (4)

272. ASIA FROM 1600. A survey of modern developments in China, Japan, and India with emphasis on cultural developments, the impact of the West, and the role of Asia in recent times.

Full Course (4)

**280. HISTORY OF SCIENCE.** The growth of science, both theoretical and applied, from the Renaissance to the present, and its influence on modern thought and life.

Full Course (4)

**282.** LAW AND SOCIETY. A course designed to explore the relations between law and society from a historical perspective. Special emphasis is placed on the implications to the social structure of the problems of the development of the morality of law with a concern for the appropriate legal and philosophical concepts.

Full Course (4)

**284.** THE CITY IN HISTORY. 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.

298. INDEPENDENT STUDY. Independent study of a particular problem under the direction of a member of the History Department. Prerequisite: Consent of instructor.

#### Full Course (4)

**386. HISTORY AND PHILOSOPHY OF EDUCATION.** A study of the major educational ideas affecting educational practice during the history of western civilization, and an analysis of their influence on American education.

# POLITICAL SCIENCE

# REQUIREMENTS FOR THE DEPARTMENTAL FIELD OF CONCENTRATION IN POLITICAL SCIENCE

### Lower Division

Mathematics 150. Elementary Statistics and Probability Political Science 110. Introduction to Government

### **Upper Division**

Political Science 250. History of Political Ideas Political Science 251. Modern Political Thought Political Science 295. Seminar in Political Science

Six additional courses in political science, which must include at least one course in each of the following areas:

American government and politics Comparative government Constitutional law International relations

# COURSE OFFERINGS IN POLITICAL SCIENCE

### Lower Division

100. BASIC STUDIES POLITICAL SCIENCE. 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. Three hours of lecture and one hour of group discussion per week.

#### Full Course (4)

110. INTRODUCTION TO GOVERNMENT. An introduction to the principles and practices of government as a fundamental social institution. Includes an examination of the political ideology and structure of selected foreign governments. Three hours of lecture and one hour of group discussion per week.

Full Course (4)

**150.** FIELD STUDY IN POLITICAL SCIENCE. The direct analysis and evaluation of the political process through observation and conferences involving governmental agencies and bodies, public officials, and political parties. One hour of lecture per week, with field work by arrangement.

One-Half Course (2)\*

#### **Upper Division**

**210. ISSUES IN AMERICAN NATIONAL GOVERNMENT.** A critical evaluation of leading questions currently at issue in American government at the national level. Issues might include those related to federalism, judicial review, the role of government in the economy, and the conduct of foreign affairs.

Full Course (4)

\* Repeatable Course

**214.** AMERICAN POLITICAL PARTIES AND ELECTIONS. A study of the dynamics of American political behavior, including the legal regulation of parties and of elections. Voting behavior and public opinion will be analyzed. Political party organization, membership, and leadership will be studied in the context of the contemporary political scene.

Full Course (4)

**220. URBAN GOVERNMENT AND POLITICS.** American municipal, county and special districts and their relationship to state governments; problems of legislature, elections, politics, parties, and interest groups; metropolitan government.

Full Course (4)

- 234. AMERICAN FOREIGN POLICY. 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. Full Course (4)
- **235.** INTERNATIONAL POLITICS. Theories, principles and practice of international politics; examination of role of nationalism, diplomacy, war alliances, international law and organization in current international political problems.

Full Course (4)

240. GOVERNMENT AND POLITICS OF WESTERN EUROPE. A comparative study of the governments of Great Britain, France, Western Germany, and Italy. The structure of parliamentary government, party systems, and political leadership will be studied. Some attention will also be given to the smaller states of Europe.

Full Course (4)

241. GOVERNMENT AND POLITICS OF EAST ASIA. China, Japan, and Korea: political behavior, ideas and institutions of societies of East Asia. Political parties and organzations; role of competing ideologies and systems of behavior; interaction of domestic and foreign policies.

Full Course (4)

**250. HISTORY OF POLITICAL IDEAS.** A critical analysis of the major political philosophers and schools of thought from Plato to the sixteenth century. Study will include examination of the political concepts of Plato, Aristotle, St. Augustine, St. Thomas Aquinas, and Machiavelli.

Full Course (4)

**251. MODERN POLITICAL THOUGHT.** A study of principal political philosophers from the sixteenth century to the present, including Hobbes, Locke, Rousseau, Burke, and Hegel. The ideological systems of liberalism, conservatism, historical materialism, socialism and others are examined critically.

Full Course (4)

- **254. AMERICAN POLITICAL THOUGHT.** The origin and development of political ideas in the United States from the colonial period to the present. Evaluation of the thought of men who have shaped the American political tradition, and the interaction of economic, social, and geographic forces influencing political ideas. Full Course (4)
- 260. AMERICAN CONSTITUTIONAL LAW: DISTRIBUTION OF POWER. 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.

**261.** AMERICAN CONSTITUTIONAL LAW: CIVIL RIGHTS. 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.

Full Course (4)

270. PUBLIC OPINION AND PROPAGANDA. 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.

Full Course (4)

295. SEMINAR IN POLITICAL SCIENCE. A critical examination of current developments and issues in the literature of political science. An introduction to research techniques and resources in the field. Prerequisite: Senior standing and consent of instructor.

Full Course (4) Not offered in 1968-69

298. INDEPENDENT STUDY. Independent study of a particular problem under the direction of a member of the political science department. Prerequisite: Consent of instructor.

# PSYCHOLOGY

# REQUIREMENTS FOR THE DEPARTMENTAL FIELD OF CONCENTRATION IN PSYCHOLOGY

# Lower Division

Mathematics 150. Elementary Statistics and Probability

#### **Upper** Division

- A. Psychology 225. History and Systems of Psychology
- B. Two courses to provide advanced laboratory or experimental experience in psychology. Select from the following:

Psychology 210. Motivation and Learning Psychology 211. Sensation and Perception Psychology 217. Neuropsychology

Psychology 218. Comparative Psychology

Psychology 261. Research in Personality

C. One course that places major emphasis on personal, interpersonal, or applied aspects of psychology. Select from the following:

Psychology 220. Developmental Psychology

Psychology 240. Social Psychology

Psychology 260. Theories of Personality

Psychology 263. The Abnormal Personality

Psychology 265. Counseling Theory

D. One course to provide a foundation in the quantitative methods of psychology. Select from the following:

Psychology 250. Measurement in Psychology

Psychology 251. Behavioral Statistics and Research Design

- E. Three additional courses in the department, chosen in consultation with the student's major adviser (may include courses not chosen in B, C, and D above). One course in a field allied to psychology such as anthropology, biology, linguistics, mathematics, and sociology may be substituted for the elective courses in the major provided that the student clearly establishes the relationship of the substituted course to his program.
- F. Psychology 295. Seminar in Psychology

# COURSE OFFERINGS IN PSYCHOLOGY

#### Lower Division

100. BASIC STUDIES PSYCHOLOGY. The dimensions, concepts, theories, and applications of psychology. The relationships between psychology and other disciplines. Three hours of lecture and one hour of group discussion per week.

Full Course (4)

120. MAJOR TRENDS AND EXPERIMENTS IN PSYCHOLOGY. An examination of the outstanding developments in psychology through study and discussions of se-lected writings from such leaders as Binet, Freud, Hall, Terman, James, Dewey, and others.

125. INTRODUCTION TO EXPERIMENTAL PSYCHOLOGY. A consideration of the fundamental principles of experimental psychology. Emphasis on techniques of psychological measurement and experimentation. Recommended for prospective psychology majors. Three hours of lecture and three hours of laboratory per week. Prerequisite: Psychology 100 and Mathematics 150.

Full Course (4)

# **Upper Division**

210. MOTIVATION AND LEARNING. A study of human and animal motivation, learning, and problem-solving. The development of communication will be examined. Field and laboratory studies. Three hours of lecture and three hours of laboratory per week, with field observation by arrangement.

Full Course (4)

211. SENSATION AND PERCEPTION. A critical examination of the physiological mechanisms of various sense modalities, and the aesthetic and social factors involved in perception and complex human and animal behavior. Three hours of lecture and three hours of laboratory per week, with field observation by arrangement.

Full Course (4)

217. NEUROPSYCHOLOGY. The study of the neurophysiological mechanisms of human and animal behavior. The anatomy and physiology and the central and peripheral nervous systems are reviewed and discussed relative to specific problems in psychology. Two hours of lecture and six hours of laboratory per week.

Full Course (4)

**218.** COMPARATIVE PSYCHOLOGY. A systematic investigation of the evolution of behavior, based on a comparative study of a number of species, and leading to the development of psychological principles. Three hours of lecture and three hours of laboratory per week.

Full Course (4)

220. DEVELOPMENTAL PSYCHOLOGY. The intellectual, psychological, and social development of the child from birth to young adulthood. Three hours of lecture per week, with field work by arrangement.

Full Course (4)

225. HISTORY AND SYSTEMS OF PSYCHOLOGY. The study of the development of psychology as a discipline, and the influence of principal leaders on modern psychology.

Full Course (4)

240. SOCIAL PSYCHOLOGY. The analysis of the psychological bases for social behavior, individual and group. Study of contemporary social issues. Jointly offered by the faculties in psychology and sociology.

Full Course (4)

250. MEASUREMENT IN PSYCHOLOGY. Application of measurement techniques to problems in psychology and education. Discussion of reliability, validity, test construction and selection, item analysis, and correlation techniques. Laboratory experience in the administration, scoring, and interpretation of group measures of intelligence, aptitude, achievement, and personality. Three hours of lecture and discussion and two hours of laboratory per week. Prerequisite: Mathematics 150 or consent of instructor.

251. BEHAVIORAL STATISTICS AND RESEARCH DESIGN. 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 discussion and four hours of laboratory per week. Prerequisite: Mathematics 150. (Psychology 250 recommended.)

Full Course (4)

**260. THEORIES OF PERSONALITY.** A study of basic theories of personality including type theories; trait theories; psychoanalytic, learning, biosocial, self, and holistic-integrative theories. The study of personality theory will assist students in gaining a richer understanding of themselves in relation to their fellow human beings.

Full Course (4)

261. RESEARCH IN PERSONALITY. Personality as a field of research with emphasis on research methods and findings. Laboratory experience will emphasize the measurement and study of attitudes and values. Three hours of lecture and discussion and three hours of laboratory per week. Prerequisite: Mathematics 150. (Psychology 125 and 250 recommended.)

Full Course (4)

263. THE ABNORMAL PERSONALITY. The causes and manifestations of abnormal behavior. Field study and case study. Three hours of lecture, with field work by arrangement.

Full Course (4)

264. INTRODUCTION TO CLINICAL PSYCHOLOGY. An overview of psychology in the clinical situation. The scope, ethics, theories, and methods of clinical psychology. Field observations by arrangement. Prerequisite: Psychology 260 and Psychology 263.

Full Course (4)

265. COUNSELING THEORY. Basic theories and their uses in relation to personality problems. Three hours of lecture with laboratory and field work by arrangement.

Full Course (4)

282. SEMINAR IN COGNITIVE PSYCHOLOGY. Discussion of the major phenomena and theories concerning the higher mental processes. Critical reading in the areas of intelligence, human communication, symbolic processes, thinking, problem solving, creativity, and human learning. Readings from such theorists as Bloom, Bruner, Guilford, Piaget and others. Prerequisite: Psychology 210 or consent of instructor.

Full Course (4)

295. SEMINAR IN PSYCHOLOGY. A consideration of topics designed to integrate learning in psychology and to apply the learning. Preparation of senior research paper. Prerequisite: Senior standing and consent of instructor.

Full Course (4)

297. DIRECTED RESEARCH. The student develops and completes an individual study under faculty supervision. Prerequisite: Consent of instructor.

Full Course (4)

298. INDEPENDENT STUDY. A reading program of selected topics conducted under the supervision of a faculty member. Prerequisite: Consent of instructor. Full Course (4)

# SOCIOLOGY

# REQUIREMENTS FOR THE DEPARTMENTAL FIELD OF CONCENTRATION IN SOCIOLOGY

#### Lower Division

Mathematics 150. Elementary Statistics and Probability Sociology 110. Introduction to Sociology Sociology 150. Field Studies I

### **Upper Division**

Sociology	205.	Methods of Sociological Research
Sociology	251.	Field Studies II
Sociology	255.	Modern Sociological Theories
Sociology	295.	Senior Seminar in Sociology

Five additional courses from among the following: Sociology 210, 211, 212, 215, 250, 260, 298; Psychology 240, 251.

# COURSE OFFERINGS IN SOCIOLOGY

#### Lower Division

**110.** INTRODUCTION TO SOCIOLOGY. A study of the group basis of human behavior, with emphasis on man as a social animal. The dynamics of human interaction, the structure and function of contemporary social institutions, and processes of social change.

#### Full Course (4)

150. FIELD STUDIES I. Field study observation of selected populations, institutions, and agencies, under supervision, and after preparatory instruction, to acquaint students with the contributions of sociology and sociological knowledge to modern society. Emphasis is on development of critical skills for analyzing and understanding man's behavior from a sociological perspective. Prerequisite: Sociology 110.

One-Half Course (2)

### **Upper Division**

- 200. BASIC STUDIES SOCIOLOGY. Examination of socio-cultural institutions and processes from the sociological perspective, compared and contrasted with the subject matter, theory, and methods of other social and behavioral sciences.<sup>1</sup> Full Course (4)
- 205. METHODS OF SOCIOLOGICAL RESEARCH. Examination of methods employed in the investigation of sociological problems. Conceptualization, measurement approaches, design of surveys and experiments, data collection, procedures for analysis of data. Consideration of the research process as an integral whole. *Prerequisite: Mathematics 150 or equivalent.*

<sup>&</sup>lt;sup>1</sup> Sociology majors should take Anthropology 200 to meet Basic Studies requirement.

**210. SOCIAL STRATIFICATION AND CLASS.** Stratification in American society as compared to other cultures, with consideration of the effects of class and status on personality and behavior.

Full Course (4)

**211. SOCIAL ORGANIZATION.** Forms and processes of contemporary social organizations and institutions. Dynamics of organizational and institutional change. Systems approach to the study of social organization.

Full Course (4)

212. THE URBAN COMMUNITY. Examination of the metropolitan community. Urbanization as contemporary social process; consideration of urban areas, institutions, values, and problems; social, demographic, and ecological characteristics of urban areas; urban and suburban change and planning.

Full Course (4)

**215. CONTEMPORARY SOCIAL PROBLEMS.** The processes, effects, and possible causes of socially deviant behavior leading to personal and social disorganization. Study of prevention and law enforcement.

Full Course (4)

**250. SEMINAR IN SMALL GROUPS.** 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.

Full Course (4)

251. FIELD STUDIES II. Continuation of Field Studies I. Particular stress is on in-the-field research with one selected population, institution, or agency. Student is expected to complete a research project based upon field experiences. Pre-requisite: Sociology 205 or equivalent.

One-Half Course (2)

**255. MODERN SOCIOLOGICAL THEORIES.** Analysis of contemporary sociological theories with attention to historical origins. Relationship of theory to research; theory construction.

Full Course (4)

260. MINORITY RACIAL AND ETHNIC RELATIONS. Investigation of current American racial and ethnic problems in world-wide and historical perspective.

Full Course (4)

270. FIELD STUDIES IN URBAN PROBLEMS. Field experiences in the urban setting, with special emphasis upon investigation and understanding of the human and social dimensions of urban problems.

Half Course (2)

295. SENIOR SEMINAR IN SOCIOLOGY. Integrative discussion of previous course work and experiences in sociology. Preparation of bachelor's paper. The problem may be either departmental or interdepartmental in nature, provided the focus of concern is sociological. The paper will be presented formally during the seminar. Prerequisites: Senior standing and consent of instructor.

Full Course (4)

298. INDEPENDENT STUDY. A reading program of selected topics conducted under the supervision of a faculty member.

# URBAN STUDIES AND ENVIRONMENTAL DESIGN

An Interdepartmental Field of Concentration

The relationship of the physical environment and cultural characteristics of areas to the design of governmental, economic, and social features of the landscape will be studied. Urban environments evidence great need for study, because they are most susceptible to change and are the scene of most economic, social, and aesthetic activity. Therefore, the focus in this field is on cities and their suburban areas.

# REQUIREMENTS FOR THE INTERDEPARTMENTAL FIELD OF CONCENTRATION IN URBAN STUDIES AND ENVIRONMENTAL DESIGN

# Lower Division

\*Mathematics 150. Elementary Statistics and Probability Art 175. Design Workshop Geography 115. Map and Aerial Photograph Interpretation Geography 150. Field Study in Geography

### **Upper Division**

A. Required Courses: †Art 275. Environmental Design Sociology 270. Field Studies in Urban Problems

B. Four courses selected from among the following urban courses: Anthropology 220. Urban Anthropology Art 255. History of Urban Aesthetics
\*Economics 280. The Economics of Urban Areas Geography 235. Urban Geography History 284. The Cityt in History Political Science 220. Urban Government and Politics

Sociology 212. The Urban Community

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C. One upper division course relevant to the program approved by the adviser. D. The senior seminar in this field.

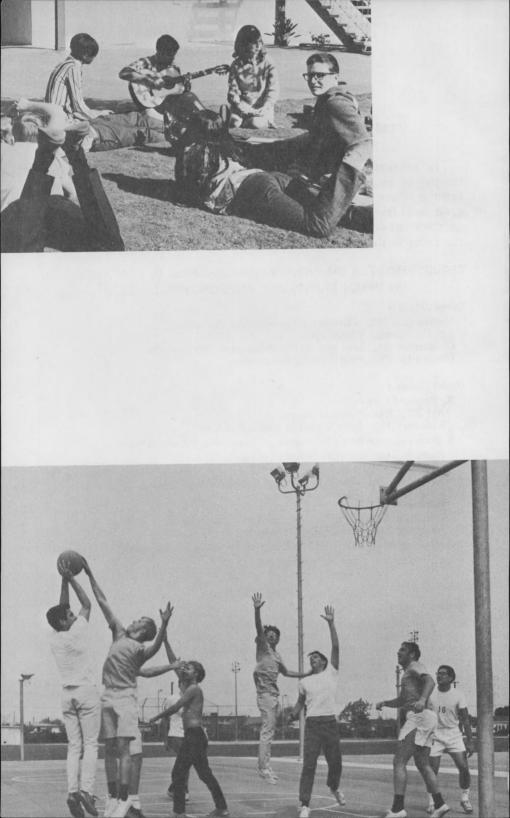
#### **Upper Division**

### COURSE OFFERING

290. SEMINAR IN URBAN STUDIES AND ENVIRONMENTAL DESIGN. An integrative course to study selected topics, to develop an overview of the field and to present seminar papers for critical review. Prerequisite: Senior standing and consent of instructor.

Full Course (4)

+ Consult course description for prerequisite





# ADMISSION TO THE COLLEGE, ADVISEMENT, AND REGISTRATION

# ADMISSION TO THE COLLEGE

Before applying for admission to the California State College, Dominguez Hills, students should study carefully the academic majors which will be available to them.

The periods for filing applications for admission for each of the three quarters are:

Fall Quarter:	February 15-July 1
Winter Quarter:	September 23-November 15
Spring Quarter:	November 12-February 10

Students who file applications on or before the last day of an application period, but after the enrollment quotas at this college are filled, will be notified of enrollment opportunities at other state colleges if they so desire.

Application forms will be provided upon request by mail or in person from:

Office of Admissions California State College, Dominguez Hills 809 East Victoria Dominguez Hills, California 90247

# ADMISSION REQUIREMENTS

Requirements for admission to California State College, Dominguez Hills, are in accordance with Title 5, Chapter 5, Subchapter 2 of the *California Administrative Code* as amended by the Board of Trustees of the California State Colleges on January 21, 1965. A prospective applicant who is unsure of his status under these requirements is encouraged to consult with a school or college counselor or contact the Office of Admissions of the California State College, Dominguez Hills.

# FRESHMAN ADMISSION REQUIREMENTS

An applicant who has had no college work will be considered for admission under one of the following provisions. Submission of the results of either the College Entrance Examination Board Scholastic Aptitude Test or the American College Test is required.

# California High School Graduates and Residents

The applicant who is a graduate of a California high school or a legal resident for tuition purposes must have a grade-point average and total (SAT) or composite (ACT) score which provides an eligibility index placing him among the upper one-third of California high school graduates. For 1968-69 the minimum eligibility index is 3072, using the Scholastic Aptitude Test, or 741, 'using the American College Test. It is computed either by multiplying grade-point average by 800 and adding it to the total SAT score or by multiplying grade-point average by 200 and adding it to 10 times the composite ACT score. In both cases, the combination may not include a grade-point average less than 2.0. The grade-point average is based upon the last three years of high school or the last three years of high school excluding the final semester, except for course work in physical education and military science.

The table presented below does not cover every case, but gives several examples of the test score needed with a given grade-point average to be eligible for admission.

Grade-Point Average	SAT/ACT Score Needed
3.21 and above	Eligible with any score
2.80	832/19
2.40	1152/27
2.00	1472/35
1.99 and below	Not eligible

# Non-Residents Graduating From High Schools in Other States or Possessions

An applicant who is a non-resident for tuition purposes and who is a graduate of a high school in another state or a U.S. possession must have an eligibility index which would place him among the upper onesixth of California high school graduates for 1968-69. For 1968-69 the minimum eligibility index is 3402, using the Scholastic Aptitude Test, or 826, using the American College Test. Refer to previous section for calculation of eligibility index.

# Graduates of High Schools in a Foreign Country

An applicant who is a graduate of a foreign high school must have preparation equivalent to that required of eligible California high school graduates. The college will carefully review the previous record of all such applicants, and only those with promise of academic success equivalent to that of eligible California high school graduates will be admitted. Such applicants are not required to take either the SAT or ACT.

# Non-High School Graduates

An applicant who is over 21 years of age, but has not graduated from high school, will be considered for admission only when his preparation in all other ways is such that the college believes his promise of academic success is equivalent to that of eligible California high school graduates.

# **Other Applicants**

An applicant not admissible under one of the above provisions should enroll in a junior college or other appropriate institution. Only under the most unusual circumstances will such applicants be permitted to enroll in the college. Permission is granted only by special action.

# **Recommended Preparation**

Overall excellence of performance in high school subjects and evidence of academic potential provide the basis for admission at California State College, Dominguez Hills. While no course pattern is required, the applicant to be properly prepared to undertake a full program of studies, and particularly to pursue the required program in Basic Studies, is strongly encouraged to include the following subjects as minimally adequate background for college work:

- 1. College preparatory English
- 2. Foreign language
- 3. College preparatory mathematics
- 4. College preparatory laboratory science
- 5. College preparatory history and/or social science
- 6. Study in speech, music, art, and other subjects contributing to general academic background

# UNDERGRADUATE TRANSFER ADMISSION REQUIREMENTS

Applicants who have attempted college work must qualify under one of the following provisions for admission. Submission of the results of either the Scholastic Aptitude Test or American College Test is required.

# Applicants With 60 or More Semester Units

An applicant who has completed 60 or more semester units or the equivalent will be eligible for admission if he has achieved a grade-point average of 2.0 (C) on all college work attempted and if he was in good standing at the last college attended.

# Applicants With Fewer Than 60 Semester Units

To be eligible for admission, an applicant who has completed fewer than 60 semester units or the equivalent must have a grade-point average of 2.0 (C) on all college work attempted and be in good standing at the last college attended. In addition, he must meet the requirements currently in effect for first-time freshmen; or, if he has been in full-time continuous enrollment at a college since his graduation from high school, he must meet the requirements in effect for first-time freshmen at the time of his high school graduation.

# Other Applicants

Only under the most unusual circumstances will an applicant not meeting either of the above provisions be considered for admission. Permission is granted only by special college action.

### READMISSION

A student who withdraws from the college and desires to be readmitted must file an application for readmission. He should consult the calendar for deadline dates for filing the readmission application. A \$10 application fee for readmission is required but may be waived under certain conditions.

# APPLICATION FOR ADMISSION

### MAJOR STEPS

(Detailed information on each step follows)

- 1. Submit completed Application for Admission, showing social security number, with the \$10 non-refundable application fee.
- 2. Have the high school of graduation send directly to the college a transcript of record.
- 3. Have each college (if any) send directly to the college a transcript of record.
- 4. Submit the scores from either the College Entrance Examination Board Scholastic Aptitude Test or the American College Test.
- 5. Complete health forms and Statement of Residence.

# APPLICATION FEE

Every applicant for admission or readmission is required to pay a non-refundable fee of \$10 each time an application is filed. Readmittance by bank draft or money order payable to the California State College, Dominguez Hills, should be attached to the application. No application may be processed until the fee has been received by the Office of Admissions.

The fee may be waived for readmission application if the student was regularly enrolled in one of the three quarters immediately preceding the quarter for which the application is submitted, unless the student was enrolled at another institution in a regular session subsequent to his last attendance at this college.

# SOCIAL SECURITY ACCOUNT NUMBER

Each applicant for admission is required to have a social security account number. This account number will be used as his permanent student identification number while enrolled at the college. Each applicant will record his social security account number on the application for admission; it is essential that the number is recorded accurately. This number will be verified at the time of registration.

If the applicant does not already have a social security account number, he may obtain application forms from his nearest social security district office or his local post office. If his name has been changed, he should complete a change-of-name application form and a new social security card will be issued showing the same account number with his new name. Duplicate cards may be obtained to replace lost cards.

#### TRANSCRIPTS

Responsibility for insuring that the transcripts reach the Office of Admissions rests with the applicant. The schools and colleges will send them only upon the request of the student. Transcripts presented by students are not acceptable. No transcripts will be returned to the student; all transcripts become the property of the college and will not be released nor will copies be made. Applicants who are admitted must have a separate set of transcripts for their own personal use in academic advising.

An applicant for admission with advanced standing must report all college work attempted, including extension and correspondence courses. An applicant disregarding this regulation may have his application for admission cancelled.

Applicants who are prospective first-time freshmen must follow the procedures indicated here:

- 1. A prospective first-time freshman must submit his application for admission with transcripts as early as possible in the application period for that quarter.
- 2. If he is currently enrolled in his last semester of high school, he must submit his application for admission with a *preliminary transcript* showing the complete record through the next-to-last semester before graduation and listing courses in progress during the final semester. At the end of the semester, the student must submit a final transcript showing the grades of the eighth semester and the granting of the high school diploma.
- 3. If he has graduated from high school, but has not attended any college-level institution since graduation, the prospective first-time freshman should file an application for admission with transcripts as early as possible in the application period for that quarter.

Applicants who are prospective transfer students must follow the procedures indicated here:

- 1. A prospective transfer student must submit his application with transcripts as early as possible in the application period for that quarter.
- 2. The prospective transfer student who is currently enrolled at a college-level institution must request that institution, as well as all other institutions he may have attended (including high school), to send a transcript showing course work completed and work-inprogress directly to the Office of Admissions. At the end of his

current enrollment, he must request a complete transcript showing grades and completion of work-in-progress.

3. A prospective transfer student who is not currently enrolled in course work at a college-level institution must request that each of the institutions which he previously attended (including high school) forward transcripts directly to the Office of Admissions.

#### ENTRANCE EXAMINATIONS

All undergraduate students who apply for admission to the California State College, Dominguez Hills, for the first time are required to submit scores of either the College Entrance Examination Board Scholastic Aptitude Test or the American College Test. The test must be taken after the completion of the eleventh grade.

Arrangements to take the test may be made by writing to one of the following two addresses:

College Entrance Examination Board Box 1026, Berkeley, California 94701

ACT Registration Unit P.O. Box 414 Iowa City, Iowa 52240

*Early* admissions testing is necessary for the processing of an application for admission for any academic quarter. Examination appointments for prospective freshmen must be scheduled early in the seventh semester of the high school experience.

Each student must request that his test results be transmitted to the Office of Admissions of the California State College, Dominguez Hills.

Additional testing will be required of each student when he arrives on campus.

#### NOTIFICATION OF ELIGIBILITY

So that students may be informed as early as possible about eligibility, they are urged to apply early in the application period and to promptly request that supporting documents (transcripts and test scores) be sent to the Office of Admissions. The time between receipt of an application by the Office of Admissions and notification to the applicant of his eligibility will vary.

Early notification will be provided those freshman applicants who can establish their eligibility prior to high school graduation. Other freshmen applicants should not expect notification until at least four weeks after final transcripts and test scores reach the Office of Admissions.

Transfer students applying for admission in advanced standing may expect notification about four weeks after final transcripts have been received. The receipt of preliminary transcripts may shorten this interval. Applicants should arrange for submitting of preliminary transcripts showing work-in-progress.

#### HEALTH EXAMINATION

A statement of the student's physical fitness by a licensed physician is required for matriculation. Physical examination forms will be sent to the student with the application for admission.

#### STATEMENT OF RESIDENCE

A Statement of Residence form indicating status of California residence must be completed prior to registration by each student enrolling at the college. Students in continuous residence are not required to complete a Statement of Residence form after the initial filing. Any interruption in attendance requires a new Statement of Residence upon re-entrance. Students are held responsible for reporting any change in residence status or change of name to the Registrar.

The determination of residence status is governed by Sections 243 and 244 of the Government Code and Sections 23755, 23756, and 23758 of the Education Code. For enrollment purposes a "resident student" means any person who has been a bona fide resident of the state for more than one year immediately preceding the opening day of the quarter. Normally, the residence of an unmarried minor is that of his parents.

Exceptions to the rules of residency determination, or waivers of nonresident tuition, apply under certain conditions for exchange students, a child or spouse of an academic or administrative employee of the California State Colleges, full-time teachers in public schools who hold a provisional credential or who are pursuing the required fifth-year of college under the new credential regulations, and any person whose parent is on active military service in the State of California.

### MILITARY SERVICE CREDIT

An applicant for admission who has completed one year or more of active military service must submit a copy of his DD 214 at the time of making his application if he wishes to receive elective credit for his military service. The amount of elective credit depends on the number of years of service; however, no more than nine elective units will be granted. Military service credit may be used to fulfill the Health Education and Physical Education requirement.

## ADMISSION TO TEACHER EDUCATION PROGRAMS

Students who wish to work toward a teaching credential at the California State College, Dominguez Hills, must be admitted not only to the college but also to the Teacher Education Programs. To apply for admission to the college, students must:

- 1. Submit a completed Application for Admission, showing social security number, with the \$10 non-refundable application fee.
- 2. Have each college attended send directly to the California State College, Dominguez Hills, two copies of the transcript of record. All graduate students are urged to have a personal set of transscripts for advising purposes.
- 3. Complete health forms and Statement of Residence.

The deadline date to apply for admission to the Teacher Education Programs is April 15, 1968. Specific information on Teacher Education Programs may be obtained from the Office of the Director.

#### ADMISSION TO GRADUATE PROGRAMS

Application procedures and requirements for admission to the program leading to a Master of Arts Degree in Behavioral Sciences are outlined in a brochure available from the School of Social and Behavioral Sciences.

# ACADEMIC ADVISEMENT AND REGISTRATION

# ACADEMIC ADVISEMENT

At the California State College, Dominguez Hills, the student himself will be responsible for planning his program of studies in accordance with the requirements set forth in the college catalog for the year he enters the college. A student may, however, seek the assistance of an academic adviser whenever desired. On only two occasions is the student required to consult with an academic adviser and to obtain his signature: In preparing his study list during his first registration at the California State College, Dominguez Hills, and in preparing the Contract Program of Studies.

The time schedule of academic advisement will be posted on the official bulletin board and will be published in the student newspaper. Each quarter the Student Affairs division of the college will provide students with information needed for selection of courses and will be generally responsible for coordinating academic advisement.

#### **New Students**

Academic advisement is part of the registration process for all new students. Each student will be provided advisement materials that he will be responsible for maintaining during his college enrollment. New students entering as freshmen or sophomores will be notified when to report for assignment to their academic advisers. Students with stated academic interests will be assigned advisers within their specified field; students who are undecided will be assigned special advisers.

New students entering as juniors or seniors will be required to indicate both a departmental and an interdepartmental major field of concentration and will be assigned appropriate departmental major advisers prior to the registration period.

#### **Contract Program of Studies**

The student is required to declare his major fields of concentration, departmental and interdepartmental, either in his sophomore year or at the beginning of his junior year, by filing an approved program of studies for the bachelor's degree in the Admissions Office. An approved program of studies is a contractual document between the college and the student, known as the *Contract Program of Studies*. The Contract Program of Studies is developed with an official academic adviser in the departmental field of the student's major and must be signed by both the student and the adviser. The contract lists the departmental and interdepartmental courses required but does not include the elective courses.

It is recommended that the Contract Program of Studies be filed:

- 1. For entering, first-time freshmen: during the quarter in which 60 quarter units will be completed;
- 2. For lower division transfers: during the quarter in which 60 quarter units will be completed;
- 3. For junior transfers: during the first quarter of attendance at the college.

#### **Course Prerequisites**

Course prerequisites cited with each course description in this catalog are intended to advise the student of any previous work needed for the course. Students not meeting the stated prerequisites should determine their eligibility for such courses in consultation with their academic advisers and the appropriate instructor.

#### **Class Level of Students**

Students are assigned class level according to the following plan:

#### Lower Division

Freshmen 0-11 full courses (0-44 quarter units) Sophomores 11¼ to 22¼ full courses (45-89 quarter units)

#### Upper Division

Juniors 22½ to 33½ full courses (90–134 quarter units) Seniors 33¾ or more full courses (135 or more quarter units)

At the California State College, Dominguez Hills, the amount of a student's work is designated in terms of courses. The full course is equivalent to four quarter units; the one-half course is equivalent to two quarter units; the one-fourth course, to one quarter unit; and the oneeighth course, to one-half quarter unit.

#### **Study List Limits**

For undergraduate students in good academic standing, the normal program load is the equivalent of four full courses. To this may be added activity courses having a value of one-half course or less. A student may enroll for more than 18 units by securing the approval of his academic adviser.

#### REGISTRATION

Each student registers in the California State College, Dominguez Hills, at times scheduled for this purpose at the beginning of each quarter. Registration covers filling out official cards, paying fees, receiving a student identification card, and enrolling in courses. Registration by mail is available to certain groups of students; others register in person.

The student should consult the calendar and the registration instructions provided for the quarter he plans to attend.

#### Auditors

A student who wishes only to audit a course instead of enrolling for credit must complete a Statement of Residence issued by the Admissions Office. Auditors must register in the usual way and pay the same fees as would be charged if the courses were taken for credit. Enrollment as an auditor is subject to the approval of the instructor; a student registered as an auditor may be required to participate in any or all classroom activities at the discretion of the instructor. Credit for courses audited will not subsequently be granted on the basis of the audit. No record of audit appears on the student's permanent record card nor are transcripts issued for audited courses.

A student who wishes to audit a course in addition to his regular program must obtain the approval of the instructor and pay the fees required as if the course were taken for credit.

An audited course should be taken into consideration when planning a program so that the study load will not be excessive.

#### **Concurrent Enrollment**

Concurrent enrollment in resident courses, in extension courses, or in another institution is permitted only when the entire program has received the approval, first, of the departmental major adviser and, second, of the Registrar. This approval must be obtained before any course work is started.

#### **Change-of-Program After Registration**

A change-of-program after registration is any change that is made in a student's official study list. Such a change includes: dropping a class, adding a class, changing the number of units for a class in which the student is registered, changing the section of the same course.

A change-of-program may be made before the deadline date listed for each quarter in the official college calendar. Forms may be obtained from the Registrar. A fee of \$1 is charged for each change-of-program made after registration. No change is effective until the change-ofprogram form has been signed by the instructor and filed with the Registrar. If a student officially drops a class by the end of the fourth week of instruction, the course will not be recorded on the student's permanent record. If a class is dropped after the end of the fourth week of instruction, the grade of WF shall be assigned. A student who must drop a course after the fourth week of instruction for reasons beyond his control and who can justify extenuating circumstances may file a petition requesting further consideration of his case.

#### **Repeated** Course

There are two conditions under which a course may be repeated:

- 1. A course for which a grade of D or F has been assigned may be repeated, but credit for the course is not given again. A repeated course is counted as *units attempted* and is credited with grade points earned, the effect being to average the grades.
- 2. All courses designated with an asterisk following the unit value may be repeated for credit; for example,

#### One-Fourth Course (1)\*

The number of credits which may be counted toward the major or the degree will be determined by the academic adviser.

#### **Course Numbering System**

The course numbering system for the college is based on a three digit number followed by a decimal point, as follows:

- 000.-099. Sub-collegiate courses. Credit is granted for such courses only if equivalent work has not been taken in high school.
- 100.-199. Lower division courses
- 200.-299. Upper division courses
- 300.-399. Graduate professional courses
- 400.-499. Graduate courses

In cases where a course may be repeated for credit, succeeding enrollments will be shown following the decimal point. For example:

Health and Physical Education 101.1 = First time taken

Health and Physical Education 101.2 = Second time taken

#### SCHEDULE OF REGISTRATION FEES

Tuition is not charged to legal residents of California. All students pay the regular fees shown below. Auditors pay the same fees as students registering for credit. All fees are subject to change by the Trustees of the California State Colleges.

Fees for each quarter are payable at the time of registration. No individual will be admitted to class prior to payment of registration fees.

Application for Admission to the College Application Fee	
FEES REQUIRED AT REGISTRATION (per quarter)	
Materials and Service Fee Students enrolling for 6 or less units Students enrolling for more than 6 units	15.00 29.00
Student Activity Fee Students enrolling for 6 or less units Students enrolling for more than 6 units	
Fall Quarter	

Non-resident Tuition Fee (In addition to the other Registration fees.)	
U. S. Citizens	
Per unit or fraction thereof	16.00
Maximum charge-15 units or more	240.00
Foreign-Visa Students (Students who are citizens and residents of a for- eign country.)	
Per unit or fraction thereof	5.75
Maximum charge—15 units or more	85.00
Other Fees	
Late Registration (Payable the day instruction begins)	5.00

Late Registration (Payable the day instruction begins) Change of program after final filing date	
Failure to meet administratively required time limit or appointment	2.00
Check returned for any cause	2.00
Items lost or broken	Cost
Transcript of Record (no charge for first copy)	1.00
Library fines—A charge is made for the late return of material borrowed from the library.	
Lost books and other library items	+1.00

#### **Refund of Fees**

A portion of some fees is refundable if the student withdraws from college or changes his status from full-time to part-time student within specified time limits. A part-time student is one who enrolls for six or fewer units of instruction. The time limits for applying for refunds are as follows:

Materials and Service fee: Application for refund must be filed within 14 days following the first day of instruction.

Non-resident Tuition fee: Up to end of fourth week of the quarter.

Consult the College Business Office for amounts refundable. Refunds are not automatic. Petitions for refund may be obtained from the Registrar and must be filed within the time limits specified. Penalty fees are not refundable unless collected in error.

#### **Activity Fee**

The Student Activity Fee may be refunded by submitting a request for refund to the Student Association.

# COLLEGE REQUIREMENTS FOR THE BACHELOR'S DEGREE

The undergraduate program of study at the California State College, Dominguez Hills, is designed to lead to the bachelor of arts degree and normally extends over four years, or 12 full quarters, of academic work. The following requirements must be fulfilled by all students in order to qualify for the conferment of the bachelor's degree by the college.

#### COURSES

A minimum of 46 full courses plus physical education (186 quarter units) is required.

A minimum of nine full courses (36 quarter units) must be taken in residence, at least half of which must be completed among the last seven and one-half courses (30 quarter units) counted toward the degree. Credit received in summer sessions may be counted as resident credit; however, extension credit or credit by examination may *not* be used to fulfill the minimum residence requirement.

#### SCHOLARSHIP

Each student shall complete with a grade average of C or better all units attempted at this college and all units attempted in undergraduate work as well as all units attempted in his major.

# GENERAL EDUCATION REQUIREMENTS

The State *Code* requires that all graduates of a state college complete a general education program consisting of 45 semester units. The Basic Studies program at the California State College, Dominguez Hills, has been designed to fulfill not only the general education requirements of the state but also the educational goals of this college. The Basic Studies program consists of 18 full courses plus 3 quarter units in health and physical education.

All freshmen and undergraduate transfer students who are admitted with less than 45 semester units that may apply to a degree granted by the California State College, Dominguez Hills, shall complete the college's Basic Studies program. Undergraduate transfer students who are admitted with 45 or more semester units (68 or more quarter units) that may apply to a degree granted by this college shall complete the general education requirements set forth in the California Administrative Code, Title V. These requirements may be briefly summarized as:

- 9 semester units in the social sciences, with courses selected from two or more fields;
- 9 semester units in the natural sciences, with at least one course from a physical science and one from a life science;
- 6 semester units in literature, philosophy or the arts, with no more than 3 of the 6 units in fine or practical arts;
- 2 semester units of health and physical education 1;
- 3 semester units in oral and written expression;
- 2 semester units of psychology;
- 14 additional semester units in general education.

#### AMERICAN INSTITUTIONS

Each student to qualify for graduation shall demonstrate knowledge of the Constitution of the United States and American history, including the study of American institutions and ideals, and the principles of state and local government established under the Constitution of the State of California.

Students who successfully complete the Basic Studies program prescribed by the California State College, Dominguez Hills, shall have fulfilled these requirements. Students transferring from other accredited institutions of collegiate grade who have already met these requirements shall not be required to take further courses or examination therein. Students transferring from other colleges who have not already met these requirements must satisfy them either by completing the appropriate courses at this college or by passing a comprehensive examination on these fields.

#### ENGLISH PROFICIENCY TEST

In order to qualify for the bachelor's degree, all upper-division students shall be required to demonstrate by examination that they possess minimal ability in analytical reading and in written exposition. This examination shall be taken at the opening of the student's first quarter of the junior year, or, for transfer students who are advanced juniors or seniors, in their first quarter of residence. Reading ability will be tested by an objective examination of reading comprehension. Writing ability will be tested by an impromptu composition to be written on topics chosen by the Proficiency Test Committee, which will judge the papers on the basis of thought content, clarity, organization, mechanics, and usage. The time and place of this examination will be published in the college newspaper and posted on official bulletin boards. The examination may be taken three times.

<sup>&</sup>lt;sup>1</sup> The requirement for 2 semester units of health and physical education may be waived if the student is over 25 years of age at the time of admission, or if the student states in writing that the course in health is contrary to his religious beliefs. Appropriate units in other fields may then be substituted in order to meet the requirements for graduation.

#### UPPER DIVISION

### **Course Requirements**

Graduation with a bachelor of arts degree requires a minimum of 15 full courses (60 quarter units) of upper division work.

A course may not satisfy unit requirements in more than one field of concentration; i.e., a course which is used to satisfy a requirement in a departmental field may not also be used to satisfy minimum course requirements in an interdepartmental field, and vice versa.

#### Major Requirements

A candidate for graduation must present a major as part of the state and college requirements. A major at the California State College, Dominguez Hills, must consist of two fields of concentration—a departmental field and an interdepartmental field.

#### **Departmental Field of Concentration**

A minimum of nine full courses must be completed in a departmental field, of which seven full courses must be in upper division work. Specific course requirements for each departmental field are listed in this catalog under each School heading.

#### Interdepartmental Field of Concentration

A minimum of nine full courses must also be completed in an interdepartmental field, of which six full courses must be upper division work. Specific course requirements for each interdepartmental field are listed in this catalog under each School heading.

#### APPLICATION FOR GRADUATION

The student must file the application for graduation with the Registrar during the registration period for the second quarter of the senior year.

# **GENERAL REGULATIONS**

Grade

Points

#### STUDENT RESPONSIBILITY

Each student is responsible for compliance with the regulations printed in this catalog and with official notices posted on official bulletin boards.

#### SCHOLASTIC POLICIES

#### **Grades and Grade Points**

Student performance in each course is reported at the end of each quarter by one of the following grades (with the grade points earned):

#### Grade

A	Excellent	4
B	Good	3
С	Fair	2
D	Barely Passing	1
F	Failure	0
Ι	Incomplete	0
Cr	Credit (Not counted in grade average but units allowed)	

Cr Credit (Not counted in grade average, but units allowed.) NP Non-Pass (Not counted in grade average; no units allowed.)

PR Work in Progress (Credit is deferred until completion of course sequence.)

W Withdrawal Passing (Not counted in grade average.)

WF Withdrawal Failing (0 grade points for units attempted.)

In order to qualify for an undergraduate degree, the student must have an overall grade-point-average of 2.0 (C).

#### Incomplete Grade

The incomplete grade may be assigned when a student's work has not been completed because of circumstances beyond his control. The student must arrange with his instructor for completion of the required work. An incomplete grade cannot be removed by repeating the course.

A period of one calendar year is allowed for the conversion of an incomplete grade to a letter grade. An incomplete grade not made up is automatically changed to an "F" grade at the end of this period. Forms to change an incomplete to a letter grade are available in the Registrar's Office. It is the student's responsibility to pick up the form, secure the signature of the instructor, and return it to the Registrar's Office within the time allowed.

#### Scholastic Probation

A student shall be placed upon academic probation if either his cumulative grade average for college work attempted or his grade average for college work attempted at the California State College, Dominguez Hills, falls below C.

A student shall be removed from the probation list and restored to good academic standing when he earns a cumulative grade average of C in all college work attempted and in all work attempted at the California State College, Dominguez Hills.

#### Scholastic Disqualification

A student on probation shall be disqualified:

- a. as a lower division student (less than 90 quarter units of college work completed) if he falls 23 or more grade points below a C average in all units attempted or in all units attempted at the California State College, Dominguez Hills;
- b. as a junior (90-134 quarter units of college work completed) if he falls 14 or more grade points below a C average in all units attempted or in all units attempted at the California State College, Dominguez Hills;
- c. as a senior (135 or more quarter units of college work completed) if he falls nine or more grade points below a C average in all units attempted or in all units attempted at the California State College, Dominguez Hills.

Any student not on probation who falls below a D average for work attempted in any one quarter shall be subject to scholastic disqualification.

A student disqualified for scholarship deficiency may not enroll in the college until he has been reinstated by the appropriate college authority. Petitions for reinstatement may be obtained from the Office of Admissions. Petitions for reinstatement will not be accepted from disqualified students for a minimum period of two quarters after the date of disqualification.

#### **Official Withdrawal**

Students who wish to withdraw from the college are urged to consult the Dean of Students prior to official withdrawal. Official withdrawal is necessary if a student leaves the college at any time after registration and does not intend to complete the quarter. The forms for initiating this process may be obtained from the Registrar.

When official withdrawal from the college occurs before the quarterly deadline for dropping classes (the fourth week of instruction), there is no academic penalty. However, if official withdrawal occurs after the fourth week of instruction, grades of WF will be automatically assigned. A petition to change automatically assigned penalty grades may be filed with the Dean of Students. A student who does not officially withdraw from the college shall automatically receive WF grades for all courses on his official study list.

#### **Advanced Placement**

Some high schools give students the opportunity to take one or more courses which cover college material. In May of each year the College Entrance Examination Board provides examinations for these courses. Students who have participated in such a program should have their examination results sent to the Office of the Dean of Admissions. Credit for a particular subject on the basis of a high score on the Advanced Placement examination may then be granted by the Dean of the appropriate School. Notification of course credit will be sent to the student by the Dean of Admissions.

#### Credit by Examination

If a student in residence and in good standing has had special preparation in a given subject because of unusual opportunities and feels that he has covered the content of a course, he may contact the Office of the Dean of the appropriate School about credit by examination. If an examination is given, it will be comprehensive, and the grade earned will become part of the student's permanent record. Courses by examination will not count toward residence requirements of the college.

#### Honors-at-Entrance

A small number of students will be given Honors-at-Entrance on the basis of unusual promise and scholarship in high school. Letters signifying Honors-at-Entrance will be sent to these students by the President of the college.

#### **Dean's Scholar**

Students who have maintained an outstanding record of scholarship during the academic year will be designated as Dean's Scholars. Appropriate recognition will be given to these students by the deans of the respective Schools.

# TRANSCRIPTS OF RECORD

A student may obtain an official transcript of his record by making formal application to the Registrar. A fee of \$1 is charged for each transcript after the first request.

#### SELECTIVE SERVICE

Selective Service information is available at the Office of Admissions. Students subject to Selective Service should keep their local boards informed of all situations which might affect their draft classifications.

Verification of enrollment in full-time programs will be submitted to the Selective Service Boards by the Office of Admissions. Any change

of status during the quarter, such as dropping courses or withdrawal, will be reported to the Local Board by the Office of Admissions. An undergraduate student must be enrolled in sufficient units per quarter to complete requirements for the degree in the normal time of 12 quarters.







# FACULTY AND ADMINISTRATION OF THE COLLEGE

# FACULTY AND ADMINISTRATION OF THE COLLEGE

LEO F. CAIN (1962) .... President: Professor of Psychology A.B., 1931, Chico State College; M.A., 1935, Ph.D., 1939, Stanford University. JACK ADAMS (1966). Associate Professor of Psychology B.A., 1950, University of California, Berkeley; M.A., 1956, University of Hawaii; Ph.D., 1963, Claremont Graduate School. ROBERT M. BERSI (1966) .... Assistant to the President: Assistant Professor of English-Speech A.B., 1958, University of the Pacific; M.A., 1963, Ph.D., 1966, Stanford University. MARSHALL H. BIALOSKY (1964) Professor of Fine Arts B.Mus., 1949, Syracuse University; M.Mus., 1950, Northwestern University; advanced study in Florence, Italy. STEPHEN W. BROWN (1966) ..... Assistant Professor of Psychology B.A., 1962, Los Angeles State College; Ph.D., 1966, University of Southern California. MARION A. BUCK (1967) ... Professor of Economics A.B., 1930, Radcliffe College; M.A., 1931, Syracuse University; Ph.D., 1953, Radcliffe College. PHILIP W. BUCK (1966) .... Professor of Political Science B.A., 1923, University of Idaho; B.A., 1926, Oxford University; Ph.D., 1933, University of California, Berkeley. THOMAS S. BULLOCK (1963) .... Building Program Coordinator; Lecturer in Geography B.A., 1957, graduate study, 1960-63, San Francisco State College. HAROLD CHARNOFSKY (1966) Assistant Professor of Sociology B.S., 1953, M.S., 1958, University of Southern California. LOIS WONG CHI (1966)... Associate Professor of Biological Science B.S., 1945, Wheaton College; M.S., 1948, Ph.D., 1953, University of Southern California. MARION K. COBB (1968). Librarian, Acquisitions A.A., 1941, Bakersfield Junior College; B.A., 1958, Arizona State University; M.A., 1961, Arizona State University; M.L.S., 1966, University of California, Los Angeles. ULRICH DE LA CAMP (1966). Assistant Professor of Chemistry B.S., 1959, University of California, Berkeley; Ph.D., 1966, University of California, Davis. CAROLINE R. DUNCAN (1966).... Assistant Professor of English B.F.A., 1946, M.A., 1949, University of Georgia. PETER D. ELLIS (1962) Associate Dean, Admissions, Records and Relations with Schools; Associate Professor of Education A.B., 1948, Ed.D., 1961, University of California, Los Angeles. CHARLES FAY (1966) .... Associate Professor of Philosophy B.S., 1948, M.A., 1950, Ph.D., 1956, St. Louis University.

ROBERT B. FISCHER (1963) Dean, School of Natural Sciences and Mathematics; Professor of Chemistry

B.S., 1942, Wheaton College; Ph.D., 1946, University of Illinois. JOHN K. FOOTE (1966) Associate Professor of Chemistry

B.S., 1944, University of California, Berkeley; M.A., 1962, University of California, Santa Barbara; Ph.D., 1966, University of California, Riverside.

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#### PART-TIME FACULTY

JOHN T. BLACKMORE Lecturer in History B.A., 1953, University of New Mexico; graduate study, University of Taiwan, University of Freiburg (West Germany), and University of California.

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- JAMES DODSON Associate Professor of History A.B., 1933, Colorado College; A.M., 1935, Princeton University; Ph.D., 1937, University of Colorado.
- CHARLES FRY\_\_\_\_\_Lecturer in History B.A., 1957, University of Wichita.

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ALBA MOESSER Lecturer in Spanish B.A., 1961, California State College at Long Beach; M.A., 1963, University of California, Los Angeles; Ph.D. in progress at University of Southern California.
ELIZABETH MORRIS Lecturer in Education B.E., 1928, University of California, Los Angeles; M.A., 1943, Claremont Graduate School.
E. DEAN SHEPHERD Lecturer in Economics B.S., 1963, M.B.A., 1964, Texas Technological College.
SIDNEY GLEN WHITE Lecturer in Art B.A., 1963, Louisiana State University; B.F.A., M.F.A., 1967, Otis Art Institute of Los Angeles County.
ALFRED J. WROBEL Lecturer in History B.A., 1951, Swarthmore College; M.A., 1953, Columbia University; Ph.D., 1967, University of Southern California.
BRUCE C. YOUNG Lecturer in Geography

B.A., 1953 M.A., 1957, University of California, Los Angeles.

#### **ADJUNCT FACULTY**

# Master Teachers Cooperating in the Teacher Education Program

Name	School	School District
Beth Berry	Pedregal Elementary Pale	os Verdes Peninsula Unified
Lucille Brooks	Willowbrook Junior High	Compton Union High
Sarah Content	Ladera Elementary Manha	ttan Beach City Elementary
Carol Madrick	Ladera Elementary Manha	ttan Beach City Elementary
Lorraine Maynes	-Pedregal Elementary Pal	os Verdes Peninsula Unified
Virginia Nelson	Paramount High	Paramount Unified
Jackie Steffen	Valmonte Elementary Pa	los Verdes Peninsula Unified
Colleen Williams	Valmonte Elementary Pa	los Verdes Peninsula Unified

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The Improvement of Teaching Procedures with Gifted Elementary and Secondary School Students

Ruth A. Martinson	Director
Jean L. Wiener	Co-Director
Stephen W. Brown	Research Consultant

# A Proposal for Planning a Program of Preparation for Teachers in the Inner City

Ruth A. M	lartinson	Director
Elizabeth 1	Brady	Co-Director

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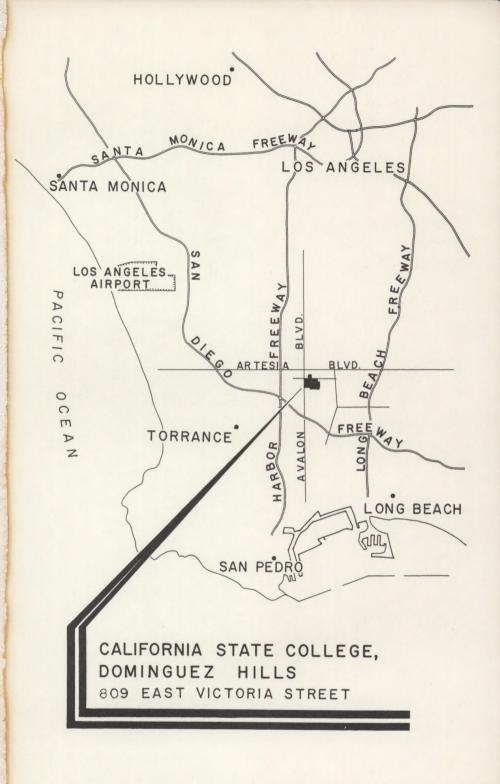
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TEACHING



EXHIBITION



WALKING EXPERIENCE



ART INSTRUCTION



EXPERIENCE IS THE BEGINNING OF WISDOM