

Bachelor of Science in Quality Assurance: Measurement Science Option

The purpose of the Degree Roadmap is to serve as a guide for planning one's academic coursework required to complete a specific major semester by semester. Before enrolling, you can use the Degree Roadmap to get a feel for the courses you'll take in this major. After enrolling, refer to the University Catalog, Class Schedule and consult with your academic advisor each semester for advisement to specify which courses you will take to fulfill each graduation

requirement and are progressing toward graduation in a timely manner as possible. **The Degree Roadmap is subject to change and is NOT to be considered a replacement for advisement with an academic advisor.** See *University Catalog* for information on the Graduate Writing Assessment Requirement (GWAR). **See reverse side for General Education (GE) course requirements. **A minimum of 120 units are required for completion of degree.*

Entry Level Skills Tests

English

EPT Waiver:	SAT I 500, ACT 22, AP 3 or EAP Exempted
Course Placement	120-140 ENG 88
Total Scores:	141-146 ENG 99
	143-146 ENG 195: satisfies ENG 99 & ENG 110
	147 ENG 110

Math

ELM Waiver:	SAT I & II 550, ACT 23, AP 3 or EAP	
Course Placement	00-40	MAT 3
Total Scores:	42-48	MAT 9
	50	G.E. Math

First Semester

Course		Units
CHE 108	Introduction to College Chemistry	5
GE A1*	Freshman Composition I	3
GE B4*	Quantitative Reasoning (MAT 131)	3
GE D4*	Perspectives on U.S. and California Government area	3

Second Semester

Course		Units
BIO 102	General Biology	3
BIO 103	General Biology Lab	1
GE A1*	Freshman Composition II	3
GE C3*	Humanities - Letters Courses area	3
GE D2*	Global & Historical Perspectives area	3

Third Semester

Course		Units
PHY 120	Elements of Physics I	4
GE A2*	Logic/Critical Reasoning area	3
GE C2*	Humanities - Art Courses area	3
GE D3*	Perspectives on U.S. History area	3

Fourth Semester

Course		Units
GE A3*	Oral Communication area	3
GE C1*	Humanities area	3
GE D1*	Perspectives on Individuals, Groups & Society area	3
GE E*	The Whole Person area	3

Fifth Semester

Course		Units
MAT 153	Pre-Calculus	4
QAS 200	Fundamentals of Quality	3
QAS 220	Fundamentals of Measurement	3
GWAR	ENG 350 or GWE	0-3

Sixth Semester

Course		Units
PHY 122	Elements of Physics II	4
QAS 312	Interpretation of Technical Documentation	3
QAS 330	Statistical Quality Control	3
QAS 340	Measurement Uncertainty	3

Seventh Semester

Course		Units
QAS 325	Technical Communications	4
QAS 350	Physical Metrology	3
GE F3*	Studies in the Social Sciences area	3

Eighth Semester

Course		Units
QAS 332	Electrical Metrology	3
QAS 347	Dimensional Measurement	3
QAS 427	Quality Improvement	3
GE F1*	Studies in Humanities area	3

Ninth Semester

Course		Units
QAS 445	Systems Failure Analysis	3
QAS 450	Value Based Quality	3
Select	QAS 496 Internship or QAS 498 Directed Research	3

Tenth Semester

Course		Units
QAS 499	Senior Project	3
GE F2*	Studies in the Natural Sciences area	3

Total Units: 112-115**

NOTE: Courses are taken in trimesters beginning in the fall of the Fifth Semester. A trimester includes fall, spring, and summer semesters. Upper division elective courses cannot double count for upper division GE courses.

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Learn More

- To learn more about the B.S. in Quality Assurance at CSUDH, call the Program Office at (310) 243-3880, visit EE 1300, or visit CSUDH.EDU/EE.
- For more information on applying to CSUDH, visit CSUDH.EDU/FutureStudents.
- Apply online at CSUMENTOR.EDU.
- Career information, visit CSUDH.EDU/CareerCenter.

Faculty

Milton Krivokuca, DBA
Program Coordinator-Advisor

Career Options

The demand for individuals with industry-specific technical, management and team-based program-solving skills is increasing as developments in science and technology advance. A degree in Quality Assurance is extremely versatile and provides graduates with many career options. Graduates can work in the private industry or the public sector, in areas such as: pharmaceutical or biomedical companies, software companies, the food industry, manufacturing, hospitals and healthcare settings, schools, government agencies, and the military. Quality Assurance professionals are generally members of a senior corporate team in areas such as product management, design engineering, manufacturing engineering, materials management, service and healthcare.

*General Education (GE) Requirements

A. **Basic Skills:**

Courses must be passed with a grade of "C" or higher.
 GE A1: ENG 110, ENG 111 (both required)
 GE A2: PHI 120 or PSY 110
 GE A3: THE 120
 GE A4: CSC 101 or LIB 150 (optional category)

B. **Area of the Natural Sciences and Quantitative Reasoning:**

Select one course from each category below. Category 4 courses must be passed with a grade of "C" or higher.
 GE B1: CHE 102, EAR 100, GEO 200, PHY 100
 GE B2: ANT 101, BIO 102
 GE B3: BIO 103, EAR 101, CHE 103
 GE B4: MAT 105, 131, 153, 171, 191, 193

C. **Area of the Humanities:**

Select one course from each category below.
 In categories 2 and 3, select courses from different departments.
 GE C1: HUM 200
 GE C2: ART 100, ART 101, CHS 125, COM 130, DAN 130, MUS 101, MUS 110, THE 100, THE 160
 GE C3: AFS 200, AFS 231, APP 101, CHS 100, CHS 205, ENG 230, FRE 220, HUM 212, PHI 101, PHI 102, SPA 151, SPA 221

D. **Area of the Social Sciences:**

Select one course from each category below.
 In categories 1 and 2, select courses from different departments.
 GE D1: AFS 212, AFS 220, ANT 100, APP 212, CHS 212, PSY 101, SOC 101, SOC 102, WMS 250

GE D2: AFS 201, ANT 102, CHS 200, GEO 100, HIS 120, HIS 121, POL 100
 GE D3: HIS 101
 GE D4: POL 101

E. **Objectives for Lifelong Learning and Self-Development:**

Select one course from the following.
 GE E: HEA 100, HSC 201, KIN 235, REC 100, UNV 101

F. **Upper Division Integrative Studies:**

Select one course from each category. Courses in this category are to be taken after 60 semester units and ALL lower division General Education courses have been completed.
 GE F1: HUM 310, 312, 314
 GE F2: SMT 310, 312, 314, 416
 GE F3: SBS 318¹

G. **Cultural Pluralism Requirement:**

Within their General Education selections or within other requirements, all students must take one course which addresses cultural pluralism (i.e. the impact of the integration of cultures).
 GE G: ANT 312, 336, 337, 338, 339, 340, 342, 389, CHS 300, HIS 305, MUS 401, PHI 383, SBS 318, SOC 322, SOC 331, SOC 383

¹ SBS 318 satisfies both F3 and G areas. Students will receive only three units credit, but will have met both requirements.