QUALITY ASSURANCE

Bachelor of Science  (Upper Division Transfer 2-year Roadmap)

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. The roadmap is subject to change and is NOT to be considered a replacement for advisement with an academic advisor. Students who choose majors that require a minor should take this into consideration when customizing their own academic plan. See reverse side for additional information.

Upper Division Transfer Requirements:

1. Complete a minimum 60 transferable semester (or 90 quarter) units with a 2.0 GPA (nonresidents require 2.4 GPA). Within those 60 units, complete a minimum of 30 (or 45 quarter) units of General Education courses with a 2.0 GPA. A “C” grade or better is required for Oral Communication, Written Communications (English Composition), Logic or Critical Thinking and Mathematics/Quantitative Reasoning.
2. Complete and submit a CSU Application for Admission by the posted deadline through CSU Mentor at www.csumentor.edu.
3. Submit official transcripts from all colleges attended.
4. Students applying to an impacted program may have to meet supplementary requirements.
5. The following degree roadmap assumes you have junior standing (60 units) and have completed all lower division General Education courses.
6. Minimum of 120 units required for completion of degree, 30 of which must be taken in residence at CSUDH.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>First Trimester:</td>
<td></td>
</tr>
<tr>
<td>GE F1*</td>
<td>Studies in the Humanities area</td>
<td>3</td>
</tr>
<tr>
<td>GE F3/G*</td>
<td>Studies in Social Science area/</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Cultural Pluralism area</td>
<td></td>
</tr>
<tr>
<td>GWAR</td>
<td>ENG 350 or GWE</td>
<td>0-3</td>
</tr>
<tr>
<td></td>
<td>Third Trimester:</td>
<td></td>
</tr>
<tr>
<td>QAS 325</td>
<td>Technical Communications</td>
<td>4</td>
</tr>
<tr>
<td>QAS 331</td>
<td>Manufacturing Process</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Fourth Trimester:</td>
<td></td>
</tr>
<tr>
<td>QAS 355</td>
<td>Safety and Reliability</td>
<td>3</td>
</tr>
<tr>
<td>QAS 427</td>
<td>Quality Improvement</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Fifth Trimester:</td>
<td></td>
</tr>
<tr>
<td>QAS 445</td>
<td>Systems Failure Analysis</td>
<td>3</td>
</tr>
<tr>
<td>QAS 450</td>
<td>Value Based Quality</td>
<td>3</td>
</tr>
<tr>
<td>QAS 496</td>
<td>Internship</td>
<td>3</td>
</tr>
<tr>
<td>or 498</td>
<td>Directed Research</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sixth Trimester:</td>
<td></td>
</tr>
<tr>
<td>GE F2*</td>
<td>Studies in the Natural Sciences area</td>
<td>3</td>
</tr>
<tr>
<td>QAS 499</td>
<td>Senior Project</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Units:</td>
<td>43-46</td>
</tr>
</tbody>
</table>

** A minimum of 120 units are required for completion of degree.
* See reverse side for General Education (GE) course requirements.
NOTE: Please review 4-year roadmap to verify completion of lower-division courses.

See University Catalog for information on the Graduate Writing Assessment Requirement (GWAR)
**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.
- GE B1: CHE 102, EAR 100, GEO 200, PHY 100
- GE B2: ANT 101 or BIO 102
- GE B3: BIO 103 or EAR 101
- GE B4: MAT 105, 131, 153, 171, 191

**C. Area of the Humanities:**
Select one course from each category below.
- GE C1: HUM 200
- GE C3: AFS 200, AFS 231, APP 101, CHS 100, 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.
- GE D1: AFS 212, ANT 100, PSY 101, SOC 101, SOC 102
- GE D2: ANT 102, 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 316, 318**
- GE F4: Students may select a course from this category to satisfy one or more of the upper division G.E. requirements from F1-F3 courses above.

**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).

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

---

**NOTE:** This is a single field major. **No minor is required.** Please contact the program office for further information: (310) 243-3880.

Occasionally, courses listed on the roadmaps may be offered in only specific semesters or on an as needed basis. Students are strongly urged to refer to the University Catalog, Class Schedule, or consult with an academic advisor each semester to ensure that they are progressing toward graduation in as timely a manner as possible.

---

*General Education (GE) Requirements*