# Suggested Course Plan for a UC Riverside Major in CHEMICAL ENGINEERING

## Catalog Year: 2024

### Fall Quarter | Winter Quarter | Spring Quarter | Units |
---|---|---|---|
***FIRST YEAR***
CEE 010 | CHEM 001B & CHEM 01LB | CHEM 001C & CHEM 01LC | 5 |
Intro to Chem. & Envir. Engineering | General Chemistry & Lab | General Chemistry & Lab | 5 |
CHEM 001A & CHEM 01LA | ENGL 001B | ENGL 001C or Alternate* | 4 |
General Chemistry & Lab | Intermediate Composition | Applied Intermediate Composition | 4 |
ENGL 001A | MATH 009B | MATH 009C | 4 |
Beginning Composition | First Year Calculus | First Year Calculus | 4 |
MATH 009A | PHYS 040A | PHYS 040B | 5 |
First Year Calculus | Physics (Mechanics) | Physics (Heat/Waves/Sound) | 5 |

### Winter Quarter | Spring Quarter | Units |
---|---|---|
CHEM 001B & CHEM 01LB | CHEM 001C & CHEM 01LC | 5 |
CHEM 001C & CHEM 01LC | CHEM 001D & CHEM 01LD | 5 |
Intro to Chem. & Envir. Engineering | General Chemistry & Lab | General Chemistry & Lab | 5 |
CHEM 001A & CHEM 01LA | ENGL 001B | ENGL 001C or Alternate* | 4 |
General Chemistry & Lab | Intermediate Composition | Applied Intermediate Composition | 4 |
ENGL 001A | MATH 009B | MATH 009C | 4 |
Beginning Composition | First Year Calculus | First Year Calculus | 4 |
MATH 009A | PHYS 040A | PHYS 040B | 5 |
First Year Calculus | Physics (Mechanics) | Physics (Heat/Waves/Sound) | 5 |

### Summer Quarter | Winter Quarter | Spring Quarter | Units |
---|---|---|---|
EE 010 | CHEM 001B & CHEM 01LB | CHEM 001C & CHEM 01LC | 5 |
Intro to Chem. & Envir. Engineering | General Chemistry & Lab | General Chemistry & Lab | 5 |
CHEM 001A & CHEM 01LA | ENGL 001B | ENGL 001C or Alternate* | 4 |
General Chemistry & Lab | Intermediate Composition | Applied Intermediate Composition | 4 |
ENGL 001A | MATH 009B | MATH 009C | 4 |
Beginning Composition | First Year Calculus | First Year Calculus | 4 |
MATH 009A | PHYS 040A | PHYS 040B | 5 |
First Year Calculus | Physics (Mechanics) | Physics (Heat/Waves/Sound) | 5 |

### Spring Quarter | Winter Quarter | Spring Quarter | Units |
---|---|---|---|
EE 010 | CHEM 001B & CHEM 01LB | CHEM 001C & CHEM 01LC | 5 |
Intro to Chem. & Envir. Engineering | General Chemistry & Lab | General Chemistry & Lab | 5 |
CHEM 001A & CHEM 01LA | ENGL 001B | ENGL 001C or Alternate* | 4 |
General Chemistry & Lab | Intermediate Composition | Applied Intermediate Composition | 4 |
ENGL 001A | MATH 009B | MATH 009C | 4 |
Beginning Composition | First Year Calculus | First Year Calculus | 4 |
MATH 009A | PHYS 040A | PHYS 040B | 5 |
First Year Calculus | Physics (Mechanics) | Physics (Heat/Waves/Sound) | 5 |

### ENGLISH COMPOSITION*
A C or better is required in all English Composition courses to satisfy the graduation requirement. Please consult with your Academic Advisor for ENGL 1C alternatives.

### BREADTH REQUIREMENTS
For an approved list of Breadth courses, go to http://student.engr.ucr.edu/policies/requirements/breadth.html.

### Total Units: 193

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*Course Plan is subject to change.*
# Chemical Engineering-Biochemical Option Technical Electives

You must complete 4 units of Technical Elective coursework. Select from the list below:

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title (Units)</th>
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</thead>
<tbody>
<tr>
<td>BIEN 125*</td>
<td>Biotechnology and Molecular Bioengineering (4)</td>
</tr>
<tr>
<td>BIEN/CEE 140A</td>
<td>Biomaterials (4)</td>
</tr>
<tr>
<td>BIEN/CEE 159*</td>
<td>Dynamics of Biological Systems (4)</td>
</tr>
<tr>
<td>BIOL/MCBL 121*</td>
<td>Introduction to Microbiology (4)</td>
</tr>
<tr>
<td>CEE 125</td>
<td>Analytical Methods for Chemical and Environmental Engineers (4)</td>
</tr>
<tr>
<td>CEE 132</td>
<td>Green Engineering (4)</td>
</tr>
<tr>
<td>CEE 135</td>
<td>Chemistry of Materials (4)</td>
</tr>
<tr>
<td>CHE 102</td>
<td>Catalytic Reaction Engineering (4)</td>
</tr>
<tr>
<td>CHE 150</td>
<td>Biosensors (4)</td>
</tr>
</tbody>
</table>

*Course requires prerequisites not accounted for in curriculum. Please check with the undergraduate faculty advisor about the ability to take this course.