AEROSPACE ENGINEERING

The Aerospace Engineering program at UCI delivers an educational program of study that prepares its graduates to become intellectual leaders in industry, government, and academia. Graduates of our programs are grounded in scientific, mathematical, and technical knowledge through coursework that keeps pace with current relevant technologies; they have developed the ability to analyze, synthesize, and design engineering systems through their immersion in the problem-based activities of this research university; and, by means of general education courses, they have enhanced their ability to communicate and have acquired an understanding and appreciation for other areas of human intellectual achievement.

Sample Program of Study

<table>
<thead>
<tr>
<th>Freshmen Year</th>
<th>Sophomore Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>Winter</td>
</tr>
<tr>
<td>MATH 2A</td>
<td>MATH 2B</td>
</tr>
<tr>
<td>ENGR 1A</td>
<td>CHEM 1LE</td>
</tr>
<tr>
<td>ENGRMAE 10</td>
<td>PHYSICS 7C+7LC</td>
</tr>
<tr>
<td>ENGR 7A*</td>
<td>ENGR 7B*</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Junior Year</th>
<th>Senior Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>Winter</td>
</tr>
<tr>
<td>ENGRMAE 130A</td>
<td>ENGRMAE 130B</td>
</tr>
<tr>
<td>ENGRMAE 150</td>
<td>ENGRMAE 150L</td>
</tr>
<tr>
<td>ENGRMAE 157</td>
<td>ENGRMAE 158</td>
</tr>
<tr>
<td>GENERAL ED</td>
<td>GENERAL ED</td>
</tr>
</tbody>
</table>

For more details on major requirements go to: http://catalogue.uci.edu/

Undergraduate Research Opportunities

- Independent Study (199 course)
- Student Project Examples
  - Design, Build, Fly
  - Cargo Plane
  - Rocket Project
  - Solar Airplane
  - Modular CubeSat
- Additional student projects can be found on projects.eng.uci.edu
- Undergraduate Research Opportunities Program (UROP)

Potential Research Areas

- Propulsion & Dynamics
- Combustion & Thermo-physics
- Energy Systems and Environmental Engineering
- Fuel Cell Technologies
- Fluid Mechanics & Turbulence
- Micro/Nano Electro Mechanical Systems (MEMS/NEMS)
- Machine Design
- Robotics
- Structures & Solid Mechanics

Potential Careers

- Aeronautics
- Aircraft Technicians
- Avionics, Robotics
- Medical Devices
- Sustainable Energy
- Pilots or Crew Members of Spacecraft

Student Involvement Opportunities

- Engineering Campus Resources
- CAMP: California Alliance of Minority Participation
- https://camp.uci.edu/
- Mentorship Program
- Scholarship Opportunities
- OAI: Office of Access and inclusion
- http://tech.uci.edu/access/index.php
- Free Engineering Course Tutoring
- Mentorship Program
- Engineering Student Organizations
- ESC: Engineering Student Council
- http://esc.ukulele.eng.uci.edu/
- UC Irvine Rocket Club
- https://rocket.eng.uci.edu/
- For more info on Engineering Clubs and Orgs visit:
  - http://engineering.uci.edu/current/
  - undergraduate/clubs-and-organizations

Connect with Industry

- Handshake: Job & Internship Search Tool:
  - career.uci.edu/students/zotlink.html
- Find Employers based on major
  - career.uci.edu/students/undergraduate/find-an-internship/buzzfile-company-search-tool/
- Career Fairs:
  - career.uci.edu/students/career-fairs.html
- Fall STEM Career Fair
- Fall Career Fair
- Winter Internship & Career Fair
- Winter E-Week ENgITECH Career Fair
- Spring Career Fair

Additional Major Info

Undergraduate Student Affairs Office | 305 Rockwell Engineering Center
949-824-4334 | uengr@uci.edu | engineering.uci.edu