



# ENGINEERING MAJORS

## UA Sydney

Prepare to go abroad and get ahead by studying abroad in Australia at UA Sydney, hosted by the University of Technology Sydney! UA Sydney offers a variety of courses to choose from that may be used to satisfy your degree requirements, including general education classes, with the approval of your academic advisor. Additionally, faculty in the College of Engineering preapproved classes to help you satisfy requirements within your Engineering major. The best part? You get to pay your UArizona tuition and can use your scholarships and financial aid, including **AZ Excellence** and **Wildcat Excellence** awards!

Explore pre-approved core math and science options below, and additional Engineering major courses on the next page:

UA SYDNEY COURSE	APPLICABILITY TO ENGINEERING MAJORS
<b>37181:</b> Discrete Mathematics	<b>MATH 243:</b> Discrete Mathematics
<b>37335:</b> Differential Equations	<b>MATH 254:</b> Introduction to Ordinary Differential Equations
<b>37336:</b> Vector Calculus & Partial Differential Equations	<b>MATH 223:</b> Vector Calculus
<b>65111:</b> Chemistry 1	<b>CHEM 151:</b> General Chemistry I
<b>65202:</b> Organic Chemistry I	<b>CHEM 241A &amp; 243A:</b> Lectures in Organic Chemistry & Organic Chemistry Lab
<b>65212:</b> Chemistry 2	<b>CHEM 152:</b> General Chemistry II
<b>91161:</b> Cell Biology & Genetics	<b>MCB 181R &amp; MCB 181L:</b> Introductory Biology I & Introductory Biology Laboratory I

**Additional questions? We're here to help!**

Contact the Study Abroad Team

[studyabroad@arizona.edu](mailto:studyabroad@arizona.edu)

[studyabroad.arizona.edu](http://studyabroad.arizona.edu)

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THE UNIVERSITY OF ARIZONA  
Study Abroad

**Global Tracks: Arizona  
Abroad Locations**

UA SYDNEY COURSE	APPLICABILITY TO ENGINEERING MAJORS
33116: Design, Data, & Decisions	ELCR Department Elective, Upper Division May substitute <b>SIE 305</b> : Intro to Engineering Probability & Statistics
41117: Intro to Chemical Process Engineering	<b>CHEE 201</b> : Elements of Chemical & Environmental Engineering I
41160: Introduction to Biomedical Engineering	BME Department Elective, Lower Division May substitute <b>BME 295C</b> : Challenges in Biomedical Engineering
41380: Heat and Mass Transfer + 48641: Fluid Mechanics	<b>CHEE 203</b> : Chemical Engineering Heat Transfer and Fluid Flow *Courses must be taken together to earn this equivalency
41382: Unit Operations	<b>CHEE 303</b> : Chemical Engineering Mass Transfer
41383: Process Simulation	ELCR Department Elective, Lower Division Satisfies Technical or Engineering Elective
41384: Chemical Thermodynamics & Reactor Design	<b>CHEE 420</b> : Chemical Reaction Engineering
41385: Process Dynamics & Control	<b>CHEE 413</b> : Process Control and Simulations
48240: Design & Innovation Fundamentals	ENGR Department Elective, Lower Division May substitute <b>ENGR 102</b> : Introduction to Engineering
48250: Economics & Finance for Engineering Projects	<b>SIE 265</b> : Engineering Management I
48260: Engineering Project Management	<b>SIE 457</b> : Project Management
48331: Mechanics of Solids	<b>AME 324A</b> : Mechanical Behavior of Engineering Materials
48320: Surveying	CE Department Elective, Lower Division May substitute <b>CE 251</b> : Elementary Surveying
48350: Environmental & Sanitation Engineering	<b>CHEE 300</b> : Introduction to Water Chemistry for Engineers
48352: Construction Materials	CE Department Elective, Upper Division May substitute <b>CE 389</b> : Materials Testing Laboratory
48353: Concrete Design	<b>CE 335</b> : Structural Design in Concrete
48430: Fundamentals of C Programming	<b>ECE 175</b> : Computer Programming for Engineering Applications
48510: Intro to Electrical & Electronic Engineering	<b>ECE 207</b> : Elements of Electrical Engineering
48530: Circuit Analysis & Design	<b>ECE 320A</b> : Circuit Theory
48540: Signals & Systems	ENGR Department Elective, Upper Division Satisfies non-ECE Technical Elective
48821: Principles of Environmental Engineering	<b>CHEE 476</b> : Wastewater Treatment System Design
48840: Water Supply & Wastewater Engineering	<b>CHEE 370R</b> : Environmental Water Engineering
48860: Pollution Control & Waste Management	<b>CHEE 478</b> : Introduction to Hazardous Waste Management

Start planning by contacting your advisor: [engineering.arizona.edu/undergrad-services/advising](https://engineering.arizona.edu/undergrad-services/advising)  
Learn more and start your application: [studyabroad.arizona.edu/sydney](https://studyabroad.arizona.edu/sydney)