

# Mechanical Engineering & Study Abroad


Four-year Plan of Study\* with Fall semester at the University of New South Wales in Australia

|        | FALL   | SPRING  | J-TERM  |
|--------|--|---|---|
| Year 1 | ENGR 150: Intro to Engineering (1 credit course fall or spring semester)             |   | THEO 101: The Christian Theological Tradition |
|        | MATH 113: Calculus I   | MATH 114: Calculus II   |   |
|        | ENGL 121: Critical Thinking: Literature and Writing                                  | PHYS 211: Classical Physics I   |   |
|        | ENGR 171: Engineering Graphics and Design  | CISC 130: Introduction to Programming and Problem Solving in the Sciences (Lab) OR CISC 131 |   |
|        | Foreign Language 111   | Foreign Language 112  |   |
| Year 2 | ENGR 220: Statics  | ENGR 221: Mechanics of Materials (Lab)  | History Core Requirement                      |
|        | MATH 200: Multi-Variable Calculus  | MATH 210: Introduction to Differential Equations and Systems                                |   |
|        | PHYS 212: Introduction to Classical Physics II                                       | CHEM 109: General Chemistry for Engineers (Lab)   |   |
|        | Foreign Language 211   | ENGL 201-204: Texts in Conversation   |   |
| Year 3 | MECH 3110 + LAT Mechanical Design 1 - (ENGR 320: Machine Design and Synthesis (Lab)) | ENGR 371: Manufacturing Processes and Stat Control (Lab)                                    | PHIL 115: Philosophy of the Human Person      |
|        | MMAN 2300 + LAT Engineering Mechanics 2 - (ENGR 322: Dynamics (Lab))                 | ENGR 350: Introduction to Electronics (Lab)   |   |
|        | MMAN 2700 Thermodynamics - (ENGR 381: Thermodynamics (Lab))                          | ENGR 383: Fluid Mechanics (Lab)   |   |
|        | Fine Arts Core Requirement   | THEO 2XX or 3XX   |   |
| Year 4 | ENGR 480: Engineering Design Clinic I  | ENGR 481: Engineering Design Clinic II  | Social Sciences Core Requirement              |
|        | ENGR 410: Control Systems and Automation (Lab)                                       | ENGR 384: Heat Transfer (Lab)   |   |
|        | ENGR 361: Engineering Materials (Lab)  | ENGR XXX: Engineering Elective  |   |
|        | PHIL 214: Introductory Ethics  | THEO 4XX  |   |

## Notes:

\*This is one snapshot of how the degree plan for this major can look and include study abroad. Meet with your academic advisor, and a study abroad advisor to personalize your plan.

 Semester in Australia

\*\*  Denotes St. Thomas course interchangeable between semesters. Equivalencies listed ONLY apply to course noted within same column space.