# Mechanical Engineering & Study Abroad
Four-year Plan of Study* with Fall semester at the
University of Melbourne in Australia

School of Engineering | UNIVERSITY OF St.Thomas

| | 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 | |
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| Year 2 | ENGR20004 Engineering Mechanics – (ENGR 220: Statics) | ENGR 221: Mechanics of Materials (Lab) | History Core Requirement |
| | MAST 20009 Vector Calculus - (MATH 200: Multi-Variable Calculus) | MATH 210: Introduction to Differential Equations and Systems | |
| | PHYC10004 Physics 2: Physical Science and Tech - (PHYS 212: Intro to Classical Physics II) | CHEM 109: General Chemistry for Engineers (Lab) | |
| | Foreign Language 211 | ENGL 201-204: Texts in Conversation | |
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| Year 3 | ENGR 371: Manufacturing Processes and Stat Control (Lab) ◄► | ENGR 320: Machine Design and Synthesis (Lab) | PHIL 115: Philosophy of the Human Person |
| | ENGR 322: Dynamics (Lab) ◄► | ENGR 350: Introduction to Electronics (Lab) | |
| | ENGR 381: Thermodynamics (Lab) | ENGR 383: Fluid Mechanics (Lab) | |
| | Fine Arts Core Requirement | THEO 2XX or 3XX | |
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| 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.