

# Mechanical Engineering & Study Abroad

Four-year Plan of Study\* with Fall semester at the University of Sydney 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	MECH2400 + 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
	AMME2500 Engineering Dynamics - (ENGR 322: Dynamics (Lab))	ENGR 350: Introduction to Electronics (Lab)	
	AMME2262 Thermal Engineering 1 - (ENGR 381: Thermodynamics (Lab))	ENGR 384: Heat Transfer (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 383: Fluid Mechanics (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.