

B.S. MECHANICAL ENGINEERING & B.A. GERMAN

Plan of Study

Year 1	Fall		Spring
	FYEX Foundation for College Success		
	ENGR 100 (FYE) Introduction to Engineering Design		CISC 130 Introduction to Programming & Problem Solving in the Sciences
	ENGR 170 Mechanical Engineering Graphics		PHYS 211 Classical Physics I
	MATH 113 Calculus I		MATH 114 Calculus II
	GERM 111 Elementary German I		GERM 112 Elementary German II
	CORE requirement		
	January-term		Summer
CORE requirement		CORE requirement	
Year 2	Fall		Spring
	ENGR 220 Statics		ENGR 221 Mechanics of Materials (Lab)
	MATH 200 Multi-Variable Calculus	↔	CHEM 109 General Chemistry for Engineers (Lab)
	PHYS 212 Classical Physics II		CORE requirement
	GERM 211 Intermediate German I		GERM 212 Intermediate German II
	January-term		Summer
CORE requirement		CORE requirement	
Year 3	Fall		Spring
	ENGR 255 Fabrication Skills (Lab)		
	ENGR 322 Dynamics (Lab)	↔	ENGR 350 Introduction to Electronics (Lab)
	ENGR 371 Manufacturing Processes & Statistical Control	↔	ENGR 320 Machine Design & Synthesis (Lab)
	MATH 210 Introduction to Differential Equations & Systems		ENGR 381 Thermodynamics (Lab)
	GERM 300 Introduction to German Studies		GERM (1) 3XX or 4XX
	January-term		Summer
CORE requirement		LOCAL Internship	
Year 4	Fall - In Germany		Spring - In Germany
	GERM (2) 3XX or 4XX		ENGR XXX Internship Engineering Elective
	GERM (3) 3XX or 4XX		GERM (4) 477 or 478 Experiential Learning
	Allied European or STEM History		
	CORE requirement		
Year 5	Fall		Spring
	ENGR 480 Engineering Design Clinic I		ENGR 481 Engineering Design Clinic II
	ENGR 410 Control Systems & Automation (Lab)	↔	ENGR 361 Engineering Materials (Lab)
	ENGR 383 Fluid Mechanics (Lab)		ENGR 384 Heat Transfer (Lab)
	GERM (5) 3XX or 4XX		GERM (6) 3XX or 4XX
	January-term		Summer
CORE requirement			

* this illustrates just one example of how all courses could be taken within a 5-year plan

* arrow indicates that the two courses can be interchanged

Complete Course Listing:**Engineering Courses:**

ENGR 100 - Introduction to Engineering (2 credits)
ENGR 170 - Mechanical Engineering Graphics (2 credits)
ENGR 220 - Statics (4 credits)
ENGR 221 - Mechanics of Materials (4 credits)
ENGR 255 - Fabrication Skills (0 credits)
ENGR 320 - Machine Design and Synthesis (4 credits)
ENGR 322 - Dynamics (4 credits)
ENGR 350 - Introduction to Electronics (4 credits)
ENGR 361 - Engineering Materials (4 credits)
ENGR 371 - Manufacturing Processes and Statistical Control (4 credits)
ENGR 381 - Thermodynamics (4 credits)
ENGR 383 - Fluid Mechanics (4 credits)
ENGR 384 - Heat Transfer (4 credits)
ENGR 410 - Control Systems and Automation (4 credits)
ENGR 480 - Engineering Design Clinic I (4 credits)
ENGR 481 - Engineering Design Clinic II (4 credits)
4 Credits of Engineering Electives - Internship in Germany
60 Engineering Credits

Allied Requirements:

MATH 113 - Calculus I (4 credits)
MATH 114 - Calculus II (4 credits)
MATH 200 - Multi-Variable Calculus (4 credits)
MATH 210 - Introduction to Differential Equations and Systems (4 credits)
PHYS 211 - Classical Physics I (4 credits)
PHYS 212 - Classical Physics II (4 credits)
CHEM 109 - General Chemistry for Engineers (4 credits)
CISC 130 - Introduction to Programming and Problem Solving in the Sciences (4 credits)
32 Allied Requirement Credits

German Requirements:

GERM 111 - Elementary German I (4 credits)
GERM 112 - Elementary German II (4 credits)
GERM 211 - Intermediate German I (4 credits)
GERM 212 - Intermediate German II (4 credits)
GERM 300 - Introduction to German Studies (4 credits)
GERM 3XX or 4XX - (24 credits)
44 German Credits
Plus, Allied European History Requirement (4 Credits, See Core Curriculum Below)

University of St. Thomas Core Curriculum:

FYEX Foundation for College Success (1 credit)
Literature and Writing (4 credits)
Philosophy and Theology (12 credits)
Social Analysis (4 credits)
Fine Arts (4 credits)
Historical Studies (4 credits) - Allied European History
Integrations in the Humanities (8 credits)
Some of these courses must satisfy the flagged requirements; check your degree evaluation
37 Core Curriculum Credits