

B.S. CIVIL ENGINEERING

Plan of Study

School of
Engineering

UNIVERSITY OF
St.Thomas

	Fall		Spring
Year 1	FYEX Foundation for College Success		
	ENGR 100 (FYE) Introduction to Engineering Design		ENGR 162 Intro to Engineering Graphics
	ENGR 160 Surveying		GEOL 163 Applied Geology (Lab)
	MATH 113 Calculus I		MATH 114 Calculus II
	CORE requirement		PHYS 211 Classical Physics I
	CORE requirement		CORE requirement
	January-term		Summer
	CORE requirement		
Year 2		Fall	Spring
	ENGR 220 Statics		ENGR 221 Mechanics of Materials (Lab)
	MATH 210 Introduction to Differential Equations & Systems		ENGR 222 General Dynamics
	STAT 220 Statistics I (Lab)		CHEM 109 General Chemistry for Engineers (Lab)
	CORE requirement		PHYS 212 Classical Physics II
	January-term		Summer
	CORE requirement		
Year 3		Fall	Spring
	ENGR 362 Construction & Engineering Economic Analysis (Lab)		ENGR 363 Construction Materials (Lab)
	ENGR 364 Structural Analysis		ENGR 365 Design of Steel & Concrete Structures (Lab)
	ENGR 368 Fluids Mechanics for Civil Engineering (Lab)		CORE requirement
	CORE requirement		ENGR 466 Transportation Engineering
	January-term		Summer
	CORE requirement		
Year 4		Fall	Spring
	ENGR 480 Engineering Design Clinic I		ENGR 481 Engineering Design Clinic II
	ENGR 463 Soil Mechanics and Foundations (Lab)		ENGR 468 Environmental Engineering
	ENGR 467 Water Resources		ENGR Elective
	CORE requirement		CORE requirement
	January-term		Summer

* arrow indicates that the two courses can be interchanged

* this illustrates just one example of how all courses could be taken within a 4-year plan

Complete Course Listing:

Engineering Courses:

- ENGR 100 Introduction to Engineering Design (2 credits)
- ENGR 160 Surveying (2 credit)
- ENGR 162 Introduction to Engineering Graphics (1 credit)
- ENGR 220 Statics (4 credits)
- ENGR 221 Mechanics of Materials (4 credits)
- ENGR 222 General Dynamics (2 credits)
- ENGR 362 Construction and Engineering Economic Analysis (4 credits)
- ENGR 363 Construction Materials (4 credits)
- ENGR 364 Structural Analysis (4 credits)
- ENGR 365 Design of Steel and Concrete Structures (Lab) (4 credits)
- ENGR 368 Fluid Mechanics for Civil Engineering (4 credits)
- ENGR 463 Soil Mechanics and Foundations (4 credits)
- ENGR 466 Transportation Engineering (4 credits)
- ENGR 467 Water Resources (4 credits)
- ENGR 468 Environmental Engineering (4 credits)
- ENGR 480 Engineering Design Clinic 1 (4 credits)
- ENGR 481 Engineering Design Clinic II (4 credits)
- ENGR Elective (2 credits)

61 Engineering Credits

Allied Requirements:

- MATH 113 – Calculus I (4 credits)
- MATH 114 – Calculus II (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)
- GEOL 163 – Applied Geology (4 credits)
- CHEM 109 – General Chemistry for Engineers (4 credits)
- STAT 220 – Statistics I (4 credits)

32 Allied Requirement Credits

University of St. Thomas Core Curriculum:

- FYEX Foundation for College Success (1 credit)
- Language and Culture (0-8 credits)
- Literature and Writing (4 credits)
- Philosophy and Theology (12 credits)
- Social Analysis (4 credits)
- Fine Arts (4 credits)
- Historical Studies (4 credits)
- Integrations in the Humanities (8 credits)

Some of these courses must satisfy the flagged requirements; check your degree evaluation

45 Core Curriculum Credits