

B.S. CIVIL ENGINEERING
Plan of Study 2019-2020

Year 1	Fall		Spring
	ENGR 160 Surveying		
	MATH 113 Calculus I		MATH 114 Calculus II
	ENGR 172 Civil Engineering Graphics and Methods		PHYS 211 Classical Physics I
	ENGL 121 Critical Thinking: Literature and Writing		CISC 130 Introduction to Programming and Problem Solving
	Foreign Language 111		Foreign Language 112
	January-term		Summer
THEO 101 The Christian Theological Tradition	↔		
Year 2	Fall		Spring
	ENGR 220 Statics		ENGR 221 Mechanics of Materials (Lab)
	MATH 210 Introduction to Differential Equations & Systems		GEOL 163 Applied Geology (Lab)
	PHYS 212 Classical Physics II		CHEM 109 General Chemistry for Engineers (Lab)
	Foreign Language 211		ENGL 20X Texts in Conversation
	January-term		Summer
	Social Science Core (ECON 251 rec.)	↔	
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)		STAT 220 Statistics I
	THEO 2XX or 3XX		Fine Arts Elective
	January-term		Summer
	PHIL 115 Philosophy of the Human Person	↔	
Year 4	Fall		Spring
	ENGR 480 Engineering Design Clinic I		ENGR 481 Engineering Design Clinic II
	ENGR 463 Soil Mechanics and Foundations (Lab)		ENGR 322 Dynamics
	ENGR 466 Transportation Engineering		ENGR 467 Environmental Engineering/Hydraulics/Hydrology
	PHIL 214 Introductory Ethics		THEO 4XX Theology Elective
	January-term		Summer
	HIST 1XX History Elective		

* 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 160 Surveying (1 credit)
ENGR 172 Civil Engineering Graphics and Methods (4 credits)
ENGR 220 Statics (4 credits)
ENGR 221 Mechanics of Materials (4 credits)
ENGR 322 Dynamics (4 credits)
ENGR 362 Construction and Engineering Economic Analysis (4 credits)
ENGR 363 Civil Engineering Materials (4 credits)
ENGR 364 Structural Analysis (4 credits)
ENGR 365 Design of Steel and Concrete Structures (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 Environmental Engineering, Hydrology and Hydraulics (4 credits)
ENGR 480 Engineering Design Clinic 1 (4 credits)
ENGR 481 Engineering Design Clinic II (4 credits)

57 Engineering Credits

Allied Requirements:

CHEM 109 General Chemistry for Engineers (4 credits)
CISC 130 Introduction to Programming and Problem Solving in the Sciences (4 credits)
GEOL 163 Applied Geology (4 credits)
MATH 113 Calculus I (4 credits)
MATH 114 Calculus II (4 credits)
MATH 210 Introduction to Differential Equations and Systems (4 credits)
PHYS 111 Classical Physics I (4 credits)
PHYS 112 Classical Physics II (4 credits)
STAT 220 Statistics 1 (4 credits)

36 Allied Requirement Credits

University of St. Thomas Core Curriculum:

Three courses in foreign language (12 credits)
Two courses in English (8 credits)
Three courses in Theology** (12 credits)
Two courses in Philosophy (8 credits)
One course in the Social Sciences** (4 credits)
One Fine Arts course** (4 credits)
One History course (4 credits)

**One of these courses must satisfy the human diversity requirement

52 Core Curriculum Credits