B.S. CIVIL ENGINEERING
Plan of Study 2020-2021

School of Engineering | UNIVERSITY OF St.Thomas

Year 1	**Fall**		**Spring**
	FYEX Foundation for College Success		
	ENGR 100 (FYE) Introduction to Engineering Design		**GEOL 163** Applied Geology (Lab)
	ENGR 160 Surveying		**MATH 114** Calculus II
	MATH 113 Calculus I		**PHYS 211** Classical Physics I
	CISC 130 Introduction to Programming and Problem Solving		**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	⟷	**CORE** requirement
	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)		**PHYS 212** Classic Physics II
	CORE requirement		**CORE** requirement
	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 466** Transportation Engineering
	CORE requirement		**CORE** requirement
	January-term		**Summer**
	CORE requirement		

* 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 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:

CISC 130 – Introduction to Programming and Problem Solving (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 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