B.S. CIVIL ENGINEERING

(Peace Engineering Minor)

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	⟷	
	Fall		**Spring**
Year 2	**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)
	JPST 250 Introduction to Justice & Peace Studies	⟷	**PHYS 212** Classical Physics II
	January-term		**Summer**
	CORE requirement	⟷	
	Fall		**Spring**
Year 3	**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)		**ENGR 466** Transportation Engineering
	CORE requirement	⟷	**JPST 3XX** Justice & Peace Focus Course
	January-term		**Summer**
	CORE requirement		**ENGR 480** Engineering Design Clinic I Abroad
	Fall		**Spring**
Year 4	**ENGR 481** Engineering Design Clinic II		**THEO 227** Contexts: Justice & Peace
	ENGR 463 Soil Mechanics and Foundations (Lab)		**ENGR 468** Environmental Engineering
	ENGR 467 Water Resources		**ENGR** Elective
	JPST 473 Vocational Seminar		**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 credits)
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 & Engineering Economic Analysis (4 credits)
ENGR 363 – Construction Materials (4 credits)
ENGR 364 – Structural Analysis (4 credits)
ENGR 365 – Design of Steel & Concrete Structures (4 credits)
ENGR 368 – Fluid Mechanics for Civil Engineering (4 credits)
ENGR 463 – Soil Mechanics & 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 I (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

Peace Engineering Minor Requirements:

JPST 250* – Introduction to Justice & Peace Studies (4 credits)
JPST 3XX* – Justice & Peace Focus Course (4 credits)
THEO 227 – Contexts: Justice & Peace (4 credits)
ENGR 480/481 – Engineering Design Clinic I & II (Peace Engineering Designated Project, 8 credits) [see ENGR]
JPST 473 – Vocational Seminar (Concurrent with ENGR 480 or 481, 0 credits)
Essay on community experience of poverty, injustice, social conflict, or marginalization (0 credits)
*credits will count towards Integration in the Humanities (submitted for approval)
12 Peace Engineering Minor 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 (8 credits) [4 additional credits counted in Peace Engineering Requirement]
Social Analysis (4 credits)
Fine Arts (4 credits)
Historical Studies (4 credits)
Some of these courses must satisfy the flagged requirements; check your degree evaluation
33 Core Curriculum Credits