

**B.S. CIVIL ENGINEERING**  
*(Peace Engineering Minor)*  
**Plan of Study**

Year 1	Fall		Spring	
	FYEX Foundation for College Success			
	ENGR 100 (FYE) Introduction to Engineering Design			
	ENGR 160 Surveying		GEOL 163 Applied Geology (Lab)	
	MATH 113 Calculus I		MATH 114 Calculus II	
	CISC 130 Introduction to Programming & Problem Solving in the Sciences		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 Dynamics for Civil Engineering	
	CHEM 109 General Chemistry for Engineers (Lab)		↔	STAT 220 Statistics I (Lab)
	JPST 250 Introduction to Justice & Peace Studies		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 Classical Physics II	
	CORE requirement		↔	JPST 3XX Justice & Peace Focus Course
	January-term		Summer	
	CORE requirement		ENGR 480 Engineering Design Clinic I	
Year 4	Fall		Spring	
	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 466 Transportation Engineering	
	JPST 473 Vocational Seminar		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 (1 credit)  
ENGR 220 - Statics (4 credits)  
ENGR 221 - Mechanics of Materials (4 credits)  
ENGR 222 - Dynamics for Civil Engineering (4 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)  
59 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)  
CISC 130 - Introduction to Programming and Problem Solving in the Sciences (4 credits)  
GEOL 163 - Applied Geology (4 credits)  
CHEM 109 - General Chemistry for Engineers (4 credits)  
STAT 220 - Statistics I (4 credits)  
36 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