




B.S. COMPUTER ENGINEERING

(Peace Engineering Minor)

Plan of Study

Year 1	Fall		Spring	
	FYEX Foundation for College Success			
	ENGR 100 (FYE) Introduction to Engineering Design			
	ENGR 175 Introduction to Electrical & Computer Engineering		PHYS 211 Classical Physics I	
	MATH 113 Calculus I		MATH 114 Calculus II	
	CISC 130 Introduction to Programming & Problem Solving in the Sciences		ENGR 230 Digital Design (lab)	
	CORE requirement		CORE requirement	
	January-term		Summer	
CORE requirement				
Year 2	Fall		Spring	
	ENGR 240 Circuit Analysis (Lab)		CISC 230 Object-Oriented Design & Programming	
	ENGR 330 Microprocessor Architectures		ENGR 331 Designing with Microprocessors (Lab)	
	PHYS 212 Classical Physics II		MATH 210 Introduction to Differential Equations & Systems	
	JPST 250 Introduction to Justice & Peace Studies			
	CORE requirement			
January-term		Summer		
Year 3	Fall		Spring	
	ENGR 345 Electronics I (Lab)		ENGR 432 Current Trends in Computing Systems	
	ENGR 431 Design of Embedded Systems (Lab)		CISC 231 Data Structures using Object-Oriented Design (Lab)	
	MATH 128 Introduction to Discrete Mathematics		ENGR/CISC XXX Elective 1	
	CORE requirement			
	CORE requirement		JPST 3XX Justice & Peace Focus Course	
January-term		Summer		
		ENGR 480 Engineering Design Clinic I Abroad		
Year 4	Fall		Spring	
	ENGR 481 Engineering Design Clinic II		THEO 227 Contexts: Justice & Peace	
	MATH/SCI XXX Elective 1		MATH/SCI XXX Elective 2	
	ENGR/CISC XXX Elective 2		CORE requirement	
	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 175 – Introduction to Electrical & Computer Engineering (2 credits)

ENGR 230 – Digital Design (4 credits)

ENGR 240 – Circuit Analysis (4 credits)

ENGR 330 – Microprocessor Architectures (4 credits) or CISC 340 Computer Architecture (4 credits)

ENGR 331 – Designing with Microprocessors (4 credits)

ENGR 345 – Electronics I (4 credits)

ENGR 431 – Design of Embedded Systems (4 credits)

ENGR 432 – Current Trends in Computing Systems (4 credits)

ENGR 480 – Engineering Design Clinic I (4 credits)

ENGR 481 – Engineering Design Clinic II (4 credits)

40 Engineering Credits

Allied & Elective Requirements:

MATH 113 – Calculus I (4 credits)

MATH 114 – Calculus II (4 credits)

MATH 128 – Introduction to Discrete Mathematics (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 Sciences (4 credits)

CISC 230 – Object-Oriented Design and Programming (4 credits)

CISC 231 – Data Structures using Object-Oriented Design (4 credits)

ENGR/CISC XXX – Elective (8 credits)

MATH/SCI XXX – Elective (8 credits)

52 Allied & Elective 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