B.S. COMPUTER 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 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	⟷	

	Fall		Spring
Year 2	**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**

	Fall		Spring
Year 3	**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	⟷	**JPST 3XX** Justice & Peace Focus Course
	January-term		**Summer**
			ENGR 480 Engineering Design Clinic I Abroad

	Fall		Spring
Year 4	**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)
<u>40 Engineering Credits</u>

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)
<u>52 Allied & Elective Requirement Credits</u>

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)
<u>12 Peace Engineering Minor Requirement Credits</u>

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
<u>33 Core Curriculum Credits</u>