

BS Computer Engineering - University of St. Thomas Normandale Community College Plus 2.5 Plan of Study

Students who complete the following courses at Normandale Community College are in a good position to complete a Bachelor of Science degree in Computer Engineering with 2 ½ more years of study at the University of St. Thomas.

Courses Taken at Normandale Community College – Major Requirements			
Normandale Course #	Normandale Course Title	Cr.	St. Thomas Course Equivalence
MATH 1510	Calculus 1	5	MATH 113
MATH 1520	Calculus 2	5	MATH 114
MATH 2520	Differential Eqns. & Lin. Algebra	5	MATH 210
PHYS 1121	Physics I for Scientists and Engrs.	5	PHYS 211
PHYS 1122	Physics II for Scientists and Engrs.	5	PHYS 212
CSCI 1113 (or CSCI 1111)	Introduction to C/C++ for Engrs.	4	CISC 130
CSCI 2011	Discrete Structures of Comp. Sci.	4	MATH 128
ENGR 1020	Intro. to Engineering Design	4	ENGR 100
ENGR 2301 & ENGR 2302	Intro. to Digital Logic Design A & Intro. to Digital Logic Design B	2 2	ENGR 230
Total Credits		41	

Courses Taken at Normandale – UST Core Curriculum Requirements		
Core Requirement	Credits	Normandale Course Options
Language and Culture	0-10	Normandale Course Transfer Guides including St. Thomas Core Curriculum and MnTC Goal Areas are available at: https://www.stthomas.edu/admissions/undergraduate/transfer/community-college-course-guides/index.html
Literature and Writing	4	
Social Analysis	3-4	
Fine Arts	3	
Historical Studies	4	
Total Credits	14-25	

Students are not required to complete all the coursework on page 1 before transferring to the University of St. Thomas. We invite prospective students to tour the School of Engineering and meet with faculty and financial aid staff to determine the best time for transfer.

However, if a student does complete all the coursework on page 1, the remaining courses at the University of St. Thomas would require 2 ½ years of full-time study. Courses are listed below, and a sample 2 ½ -year plan of study is provided on page 3.

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Courses Taken at University of St. Thomas – Major Requirements		
UST Course #	University of St. Thomas Course Title	Credits
ENGR 175	Introduction to Electrical & Computer Engineering	2
ENGR 240	Circuit Analysis	4
ENGR 330	Microprocessor Architectures	4
ENGR 331	Designing with Microprocessors	4
ENGR 345	Electronics I	4
ENGR 431	Design of Embedded Systems	4
ENGR 432	Current Trends in Computing Systems	4
ENGR 480	Engineering Design Clinic I	4
ENGR 481	Engineering Design Clinic II	4
CISC 230	Object-Oriented Design and Programming	4
CISC 231	Data Structures using Object-Oriented Design	4
XXX	Sci/Math and ENGR/CISC Technical Electives (see UST Catalog)	16
MATH 128	Introduction to Discrete Math	4
Total Credits		62

Courses Taken at University of St. Thomas – Core Requirements	
Core Requirement	Credits
Philosophy and Theology	12
Integrations in the Humanities	8
Total Credits	20
<p>Note: Some courses must also satisfy flagged requirements (DISJ, Global, WAC). Students with fewer than 60 credits at transfer must also complete First Year Experience Requirements. For more information on the Core Curriculum, see: https://www.stthomas.edu/core-curriculum/courses/index.html</p>	

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Proposed Schedule for Final 2 ½ Years at University of St. Thomas						
	Fall	Cr	Spring	Cr	Summer / J-term	Cr
1 st Yr			ENGR 175 Intro to Electrical & Computer Engineering	2		
			ENGR 240 Circuit Analysis (lab)	4		
			Science/Math Elective I (PHYS/CHEM/BIO/MATH/STAT)	4		
			CORE Requirement	4		
			Total Credits	14		
2 nd Yr	ENGR 330 Microprocessor Architectures (or CISC 340 in Spring)	4	ENGR 331 Designing with Microprocessors (lab) (Spring only)	4	CORE Requirement	4
	ENGR 345 Electronics I (lab) (Fall only)	4	CORE Requirement	4		
	CISC 230 Object-Oriented Design and Programming	4	CISC 231 Data Structures Using Object-Oriented Design (lab)	4		
	MATH 128 Introduction to Discrete Math	4	Technical Elective I ENGR/CISC 2XX, 3XX, 4XX	4		
	Total Credits	16	Total Credits	16	Total Credits	4
3 rd Yr	ENGR 480 Engineering Design Clinic I (Fall or Summer)	4	ENGR 481 Engineering Design Clinic II	4		
	Science/Math Elective II (PHYS/CHEM/BIO/MATH/STAT)		ENGR 432 Current Trends in computing Systems	4		
	ENGR 431 Design of Embedded Systems (lab) (Fall only)	4	Technical Elective II ENGR/CISC 2XX, 3XX, 4XX	4		
	CORE Requirement	4	CORE Requirement	4		
	Total Credits	16	Total Credits	16		

Program Credits	
Major Requirements completed at Normandale	41
Core Requirements completed at Normandale *	14-25
Major Requirements completed at University of St Thomas	62
Core Requirements completed at University of St Thomas	20
Total Credits	137 - 148

*The number of credits is dependent upon the student's proficiency in a second language upon entering the program.

This guide is accurate to the best of our knowledge and ability at the time of publication but is subject to change.