

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

Students who complete the following courses at Inver Hills 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 Inver Hills Community College – Major Requirements			
Inver Hills Course #	Inver Hills Course Title	Cr.	St. Thomas Course Equivalence
CS 1119	Computer Programming with C++	4	CISC 130
MATH 1133	Calculus I	5	MATH 113
MATH 1134	Calculus II	5	MATH 114
MATH 2222	Intro to Differential Equations	3	MATH 210
PHYS 1081	Calculus Based Physics I	5	PHYS 211
PHYS 1082	Calculus Based Physics II	5	PHYS 212
Total Credits		27	

Courses Taken at Inver Hills – UST Core Curriculum Requirements		
Core Requirement	Credits	Inver Hills Course Options
Language and Culture	0-10	To find courses that satisfy the University of St. Thomas New UG Core at your institution, use the “Lookup By Core Area” option in our online Transfer Credit Tool. https://www.stthomas.edu/admissions/undergraduate/transfer-credit-tool/index.html
Literature and Writing	4	
Social Analysis	3	
Fine Arts	3	
Historical Studies	4	
Total Credits		14-24

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 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 100	Introduction to Engineering Design	2
ENGR 175	Introduction to Electrical & Computer Engineering	2
ENGR 230	Digital Design	4
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
MATH 128	Intro to Discrete Math	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
Total Credits		68

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/academics/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 240 Circuit Analysis (lab)	4	CORE Requirement	4	
			ENGR 100 Intro to Engr Design ENGR 175 Intro to Elec & Comp	2 2			
			Science/Math Elective I (PHYS/CHEM/BIO/MATH/STAT)	4			
			ENGR 230 Digital Design (lab)	4			
			Total Credits	16	Total Credits	4	
2 nd Yr		4	ENGR 330 Microprocessor Archi- tectures (or CISC 340 in Spring)	4	CORE Requirement	4	
		4	ENGR 345 Electronics I (lab) (Fall only)	4			
		4	CISC 230 Object-Oriented Design and Programming	4			
		4	MATH 128 Intro to Discrete Math	4			
			Total Credits	16	Total Credits	16	Total Credits
3 rd Yr		4	ENGR 480 Engineering Design Clinic I	4			
		4	ENGR 431 Design of Embedded Systems (lab) (Fall only)	4			
		4	Technical Elective I ENGR/CISC 2XX, 3XX, 4XX	4			
		4	CORE Requirement	4			
			Total Credits	16	Total Credits	16	

**If human diversity requirement has not yet been fulfilled, choose a Theology course that will meet the requirement.

Program Credits	
Major Requirements completed at Inver Hills	27
Core Requirements completed at Inver Hills	14-24
Major Requirements completed at University of St Thomas	68
Core Requirements completed at University of St Thomas	20
Total Credits	129 – 141

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

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