

# BS Computer Engineering - University of St. Thomas

## Century College Plus 2.5 Plan of Study

Students who complete the following courses at Century 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 Century College – Major Requirements			
Century Course #	Century Course Title	Cr.	St. Thomas Course Equivalence
MATH 1081	Single Variable Calculus I	5	MATH 113
MATH 1082	Single Variable Calculus II	5	MATH 114
MATH 2082	Linear Algebra & Differential Eqns.	5	MATH 210
PHYS 1081	Introductory Physics I	5	PHYS 211
PHYS 1082	Introductory Physics II	5	PHYS 212
CSCI 1081	Programming Fundamentals	4	CISC 131
ENGR 1020	Introduction to Engineering	4	ENGR 100
ENGR 2095	Digital Design	4	ENGR 230
<b>Total Credits</b>		<b>37</b>	

Courses Taken at Century College – UST Core Curriculum Requirements		
Core Requirement	Credits	Century College Course Options
Language and Culture	0-10	To find courses that satisfy the University of St. Thomas <b>New UG Core</b> at your institution, use the “Lookup By Core Area” option in our online Transfer Credit Tool. <a href="https://www.stthomas.edu/admissions/undergraduate/transfer-credit-tool/index.html">https://www.stthomas.edu/admissions/undergraduate/transfer-credit-tool/index.html</a>
Literature and Writing	4	
Social Analysis	3-4	
Fine Arts	3	
Historical Studies	3-4	
<b>Total Credits</b>		<b>13-25</b>

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 two and a half years of full-time study. Courses are listed below, and a sample 2.5-year plan of study at St. Thomas is provided on page 3.

## BS Computer Engineering - University of St. Thomas Century College Plus 2.5 Plan of Study

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
<b>Total Credits</b>		<b>62</b>

Courses Taken at University of St. Thomas – Core Requirements	
Core Requirement	Credits
Philosophy and Theology	12
Integrations in the Humanities	8
<b>Total Credits</b>	<b>20</b>
<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: <a href="https://www.stthomas.edu/core-curriculum/courses/index.html">https://www.stthomas.edu/core-curriculum/courses/index.html</a></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 <sup>st</sup> Yr			<b>ENGR 175</b> Intro to Electrical & Computer Engineering	2		
			<b>ENGR 240</b> Circuit Analysis (lab)	4		
			Science/Math Elective I (PHYS/CHEM/BIO/MATH/STAT)	4		
			<b>CORE</b> Requirement	4		
			<b>Total Credits</b>	<b>14</b>		
2 <sup>nd</sup> Yr	<b>ENGR 330</b> Microprocessor Architectures (or CISC 340 in Spring)	4	<b>ENGR 331</b> Designing with Microprocessors (lab) (Spring only)	4	<b>CORE</b> Requirement	4
	<b>ENGR 345</b> Electronics I (lab) (Fall only)	4	<b>CORE</b> Requirement	4		
	<b>CISC 230</b> Object-Oriented Design and Programming	4	<b>CISC 231</b> Data Structures Using Object-Oriented Design (lab)	4		
	<b>MATH 128</b> Introduction to Discrete Math	4	Technical Elective I ENGR/CISC 2XX, 3XX, 4XX	4		
	<b>Total Credits</b>	<b>16</b>	<b>Total Credits</b>	<b>16</b>	<b>Total Credits</b>	<b>4</b>
3 <sup>rd</sup> Yr	<b>ENGR 480</b> Engineering Design Clinic I (Fall or Summer)	4	<b>ENGR 481</b> Engineering Design Clinic II	4		
	Science/Math Elective II (PHYS/CHEM/BIO/MATH/STAT)		<b>ENGR 432</b> Current Trends in Computing Systems	4		
	<b>ENGR 431</b> Design of Embedded Systems (lab) (Fall only)	4	Technical Elective II ENGR/CISC 2XX, 3XX, 4XX	4		
	<b>CORE</b> Requirement	4	<b>CORE</b> Requirement	4		
	<b>Total Credits</b>	<b>16</b>	<b>Total Credits</b>	<b>16</b>		

Program Credits	
Major Requirements completed at Century	37
Core Requirements completed at Century *	13-25
Major Requirements completed at University of St Thomas	62
Core Requirements completed at University of St Thomas	20
<b>Total Credits</b>	<b>132 – 144</b>

\*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.*