

## BS Electrical 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 Electrical 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
CSCI 1081	Programming Fundamentals	4	CISC 130
MATH 1081	Single Variable Calculus I	5	MATH 113
MATH 1082	Single Variable Calculus II	5	MATH 114
MATH 2081	Multivariable Calculus	5	MATH 200
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
ENGR 1020	Introduction to Engineering	4	ENGR 100
ENGR 2095	Digital Design	4	ENGR 230
<b>Total Credits</b>		<b>42</b>	

Courses Taken at Century College – UST Core Curriculum Requirements		
Core Requirement	Credits	Century College Course Options
Language and Culture	0-10	Century College Course Transfer Guides including St. Thomas Core Curriculum and MnTC Goal Areas are available at: <a href="https://www.stthomas.edu/admissions/undergraduate/transfer/community-college-course-guides/index.html">https://www.stthomas.edu/admissions/undergraduate/transfer/community-college-course-guides/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 their 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.

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Courses Taken at University of St. Thomas – Major Requirements		
UST Course #	University of St. Thomas Course Title	Credits
ENGR 175	Intro to Electrical and Computer Engineering	2
ENGR 240	Circuit Analysis	4
ENGR 331	Designing with Microprocessors	4
ENGR 340	Signals & Systems	4
ENGR 342	Electromagnetic Fields and Waves	4
ENGR 345	Electronics I	4
ENGR 346	Electronics II	4
ENGR 410	Control Systems and Automation	4
XXX xxx	Technical Electives (see UST Catalog)	12
ENGR 480	Engineering Design Clinic I	4
ENGR 481	Engineering Design Clinic II	4
PHYS 225	Modern Physics	4
PHYS 341	Electricity & Magnetism	4
<b>Total Credits</b>		<b>58</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 satisfy also 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			ENGR 175 Intro. to Electrical & Computer Engineering	2		
			ENGR 240 Circuit Analysis	4		
			PHYS 225 Modern Physics (Spring Only)	4		
			CORE Requirement	4		
				Total Credits	14	
2 <sup>nd</sup> Yr	CORE Requirement	4	ENGR 331 Designing with Microprocessors	4		
	ENGR 345 Electronics I (Fall only)	4	ENGR 410 Control Systems and Automation	4		
	XXX Technical Elective	4	CORE Requirement	4		
	ENGR 340 Signals & Systems (Fall only)	4	ENGR 346 Electronics II (Spring only)	4		
	Total Credits		16	Total Credits		16
3 <sup>rd</sup> Yr	ENGR 480 Engineering Design Clinic I	4	ENGR 481 Engineering Design Clinic II	4		
	PHYS 341 Electricity & Magnetism (Fall only)	4	ENGR 342 Electromagnetic Fields & Waves (Spring only)	4		
	XXX Technical Elective	4	XXX Technical Elective	4		
	CORE Requirement	4	CORE Requirement	4		
	Total Credits		16	Total Credits		16

Program Credits	
Major Requirements completed at Century	42
Core Requirements completed at Century*	13-25
Major Requirements completed at University of St Thomas	58
Core Requirements completed at University of St Thomas	20
Total Credits	133 – 145

\*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.*