

## BS Computer Engineering - University of St. Thomas Century College Plus 2 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 two 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 111
PHYS 1082	Introductory Physics II	5	PHYS 112
CSCI 1081	Programming Fundamentals	4	CISC 130
CSCI 2016	Intro to the Organization of Computer Systems	4	ENGR 330 (or CISC 340)
ENGR 1020	Introduction to Engineering	4	ENGR 150
ENGR 2095	Digital Design	4	ENGR 230
ENGR 2091 & ENGR 2094	Circuits I & Circuits II	8	ENGR 240 (or ENGR 350)
<b>Total Credits</b>		<b>49</b>	

Courses Taken at Century – Core Curriculum Requirements***		
Core Requirement	Credits	Century Course Options
Modern and Classical Language*	0-15	SPAN 1011, 1012, 2021
Literature and Writing – Course 1	4	ENGL 1021
Literature and Writing – Course 2	3	ENGL 2013, 2014, 2015, 2018, 2043, 2051, 2055, 2057, 2058, 2061, 2062, 2063, 2072, 2073, 2075, 2077, 2085, 2095
Social Sciences**	3-4	ECON 1021, ECON 1023, GEOG 1023 <sup>HD</sup> , GEOG 1031 <sup>HD</sup> , PSYC 1020, SOC 1020 <sup>HD</sup> , SOC 1041 <sup>HD</sup>
Fine Arts**	3	ART 1021, ART 1022, HUM 2061, MUSC 1035, MUSC 1045, MUSC 2051 <sup>HD</sup> , THTR 1020
History**	3	HIST 1031, 1032, 1061 <sup>HD</sup> , 2051
<b>Total Credits</b>	<b>16-32</b>	
NOTES: *Students who have a strong background in a language other than English may place out of one or more semesters of St. Thomas' Modern and Classical Language requirement if they demonstrate adequate proficiency on a placement exam. Spanish is an example of an accepted language. **One of the courses labeled HD can be selected to simultaneously satisfy UST's Human Diversity requirement ***UST/Century Course transfer guides including UST Core Curriculum and MnTC Goal Areas are available at <a href="https://www.stthomas.edu/tr/credit/communitycollegecourseplans/">https://www.stthomas.edu/tr/credit/communitycollegecourseplans/</a>		

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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 years of full-time study. Courses are listed below, and a sample 2-year plan of study at St. Thomas is provided on page 3.

Courses Taken at University of St. Thomas – Major Requirements		
UST Course #	University of St. Thomas Course Title	Credits
ENGR 331	Designing with Microprocessors	4
ENGR 345	Electronics I	4
ENGR 431	Design of Embedded 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
CISC 310	Operating Systems	4
CISC 610	Software Engineering	4
XXX	Sci/Math and Technical Electives (see UST Catalog)	16
MATH 128	Introduction to Discrete Math	4
<b>Total Credits</b>		<b>56</b>

Courses Taken at University of St. Thomas – Core Requirements		
Core Requirement	UST Course Options	Credits
Faith and Catholic Traditions – Course 1	THEO 101	4
Faith and Catholic Traditions – Course 2	THEO 2XX or THEO 3XX	4
Faith and Catholic Traditions – Course 3	THEO 4XX	4
Moral and Philosophical Reasoning – Course 1	PHIL 115	4
Moral and Philosophical Reasoning – Course 2	PHIL 214 or PHIL 215	4
<b>Total Credits</b>		<b>20</b>

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## Century College Plus 2 Plan of Study

Proposed Schedule for Final Two Years at University of St. Thomas						
	Fall	Cr	Spring	Cr	Summer / J-term	Cr
1 <sup>st</sup> Yr	Science/Math Elective I (PHYS/CHEM/BIO/MATH/STAT)	4	<b>ENGR 331</b> Designing with Microprocessors	4	<b>PHIL 115</b> Philosophy of the Human Person	4
	<b>MATH 128</b> Intro to Discrete Math	4	<b>THEO 101</b> The Christian Theological Tradition	4		
	<b>ENGR 345</b> Electronics I (Fall only)	4	<b>CISC 231</b> Data Structures Using Object-Oriented Design	4		
	<b>CISC 230</b> Object-Oriented Design and Programming	4	Science/Math Elective II (PHYS/CHEM/BIO/MATH/STAT)	4	<b>THEO 2XX or 3XX**</b>	4
	<b>Total Credits</b>		<b>16</b>	<b>Total Credits</b>	<b>16</b>	<b>Total Credits</b>
2 <sup>nd</sup> Yr	<b>ENGR 480</b> Engineering Design Clinic I	4	<b>ENGR 481</b> Engineering Design Clinic II	4	<b>PHIL 214</b> Introductory Ethics	4
	<b>CISC 310</b> Operating Systems (Fall only)	4	<b>CISC 610</b> Software Design	4		
	Technical Elective I ENGR/CISC 2XX, 3XX, 4XX	4	Technical Elective II ENGR/CISC 2XX, 3XX, 4XX	4		
	<b>ENGR 431</b> Design of Embedded Systems (Fall only)	4	<b>THEO 4XX**</b>	4		
	<b>Total Credits</b>		<b>16</b>	<b>Total Credits</b>	<b>16</b>	<b>Total Credits</b>

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

Program Credits	
Major Requirements completed at Century	49
Core Requirements completed at Century	16 – 32
Major Requirements completed at University of St Thomas	56
Core Requirements completed at University of St Thomas	20
<b>Total Credits</b>	<b>141 – 157</b>

The number of credits to complete a BSCPE is dependent 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.*