

BS Civil 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 Civil 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
ECAD 2053	Introduction to SolidWorks	3	ENGR 171
CSCI 1081	Programming Fundamentals	4	CISC 130
MATH 1025	Statistics	4	STAT 220
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
ENGR 1080	Statics	3	ENGR 220
ENGR 2085	Deformable Bodies	3	ENGR 221 after completion of 1 cr. lab at UST
ENGR 2080	Dynamics	3	ENGR 322 after completion of 1 cr. lab at UST
Total Credits		45	

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 ^{HD} , GEOG 1031 ^{HD} , PSYC 1020, SOC 1020 ^{HD} , SOC 1041 ^{HD}
Fine Arts**	3	ART 1021, ART 1022, HUM 2061, MUSC 1035, MUSC 1045, MUSC 2051 ^{HD} , THTR 1020
History**	3	HIST 1031, 1032, 1061 ^{HD} , 2051
Total Credits	16-32	
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 https://www.stthomas.edu/tr/credit/communitycollegcourseplans/		

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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 160	Surveying	1
CHEM 109	General Chemistry for Engineers (<i>or Century CHEM 1041 & 1042</i>)	4
GEOL 163	Applied Geology	4
ENGR 221	Mechanics of Materials - LAB only	1
ENGR 322	Dynamics – LAB only	1
ENGR 362	Construction and Engineering Economics	4
ENGR 363	Civil Engineering Materials	4
ENGR 364	Structural Analysis	4
ENGR 365	Design of Steel and Concrete Structures	4
ENGR 368	Fluid Mechanics for Civil Engineers	4
ENGR 463	Soil Mechanics and Foundations	4
ENGR 466	Transportation Engineering	4
ENGR 467	Environmental Engineering/Hydraulics/Hydrology	4
ENGR 480	Engineering Design Clinic I	4
ENGR 481	Engineering Design Clinic II	4
Total Credits		51

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
Total Credits		20

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Proposed Schedule for Final Two Years at University of St. Thomas						
	Fall	Cr	Spring	Cr	Summer / J-term	Cr
1 st Yr	ENGR 362 Construction and Engrg. Economic Analysis (Lab)	4	ENGR 363 Civil Engineering Materials (Lab)	4	THEO 2XX or 3XX	4
	ENGR 368 Fluid Mechanics for Civil Engineers (Lab)	4	GEOL 163 Applied Geology (Lab)	4		
	THEO 101 The Christian Theological Tradition	4	PHIL 115 Philosophy of the Human Person	4		
	ENGR 364 Structural Analysis	4	ENGR 365 Design of Steel and Concrete Structures	4		
	ENGR 160 Surveying	1	ENGR 221 Mechanics – Lab only	1		
	Total Credits	17	Total Credits	17		
2 nd Yr	ENGR 480 Engineering Design Clinic I	4	ENGR 481 Engineering Design Clinic II	4		
	ENGR 466 Transportation Engineering	4	ENGR 467 Environmental Engineering/Hydraulics/Hydro.	4		
	ENGR 463 Soil Mechanics and Foundations (Lab)	4	PHIL 214 Introductory Ethics (J-term)	4		
	CHEM 109 General Chemistry for Engineers	4	THEO 4XX**	4		
	ENGR 322 Dynamics - Lab only	1				
	Total Credits	17	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 Century	45
Core Requirements completed at Century	16 – 32
Major Requirements completed at University of St Thomas	51
Core Requirements completed at University of St Thomas	20
Total Credits	132 – 148

The number of credits to complete a BSCE 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.