BS Civil Engineering - University of St. Thomas
Normandale Community College Plus 2 Plan of Study

Students who complete the following courses at Normandale Community 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 Normandale Community College – Major Requirements			
Normandale Course #	Normandale Course Title	Cr.	St. Thomas Course Equivalence
MATH 1080	Intro to Statistics	4	STAT 220 (in future may require addtnl lab)
MATH 1510	Calculus 1	5	MATH 113
MATH 1520	Calculus 2	5	MATH 114
MATH 2520	Differential Eqns. & Lin. Algebra	5	MATH 210
PHYS 1121	Physics I for Scientists and Engrs.	5	PHYS 211
PHYS 1122	Physics II for Scientists and Engrs.	5	PHYS 212
CHEM 1061	Principles of Chemistry	5	CHEM 109
ENGR 1020	Intro to Engineering Design	4	ENGR 100 (2cr)
ENGR 2235	Statics	3	ENGR 220
ENGR 2331	Deformable Bodies	3	ENGR 221 after completion of 1 cr. lab at UST
ENGR 2236	Dynamics	3	ENGR 222 (2 cr)
Total Credits		47	

Courses Taken at Normandale – UST Core Curriculum Requirements		
Core Requirement	Credits	Normandale Course Options
Language and Culture	0-10	Normandale Course Transfer Guides including St. Thomas Core Curriculum and MnTC Goal Areas are available at: https://www.stthomas.edu/admissions/undergraduate/transfer/community-college-course-guides/index.html
Literature and Writing	4	
Social Analysis	3-4	
Fine Arts	3	
Historical Studies	4	
Total Credits	14-25	

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

BS Civil Engineering - University of St. Thomas
Normandale Community College Plus 2 Plan of Study

Courses Taken at University of St. Thomas – Major Requirements		
UST Course #	University of St. Thomas Course Title	Credits
GEOL 163	Applied Geology	4
ENGR 160	Surveying	2
ENGR 162	Introduction to Engineering Graphics	1
ENGR 221	Mechanics of Materials – Lab after Transfer (LAT)	1
ENGR 362	Construction and Engineering Economics	4
ENGR 363	Construction 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	Water Resources	4
ENGR 468	Environmental Engineering	4
ENGR XXX	Engineering Elective	2
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	Credits
Philosophy and Theology	12
Integrations in the Humanities	8
Total Credits	20

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/core-curriculum/courses/index.html

BS Civil Engineering - University of St. Thomas
Normandale Community 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
1st Yr	**ENGR 362** Construction and Engrg. Economic Analysis (Lab)	4	**ENGR 363** Construction Materials (Lab)	4	**CORE** Requirement	4
	ENGR 364 Structural Analysis	4	**GEOL 163** Applied Geology (Lab)	4		
	ENGR 368 Fluid Mechanics for Civil Engineers (Lab)	4	**CORE** Requirement	4		
	CORE Requirement	4	**ENGR 365** Design of Steel and Concrete Structures (Lab)	4		
	ENGR 160 Surveying	2	**ENGR 221** Mechanics LAT **ENGR 162** Intro Engr Graphics	1 1		
	Total Credits	18	Total Credits	18	Total Credits	4
2nd Yr	**ENGR 480** Engineering Design Clinic I	4	**ENGR 481** Engineering Design Clinic II	4		
	ENGR 467 Water Resources	4	**ENGR 468** Environmental Engineering	4		
	ENGR 463 Soil Mechanics and Foundations (Lab)	4	**ENGR 466** Transportation Engineering	4		
	ENGR XXX Engineering Elective	2	**CORE** Requirement	4		
	CORE Requirement	4				
	Total Credits	18	Total Credits	16	Total Credits	0

Program Credits	
Major Requirements completed at Normandale	47
Core Requirements completed at Normandale *	14-25
Major Requirements completed at University of St Thomas	54
Core Requirements completed at University of St Thomas	20
Total Credits	135 - 146

*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.