

BS Civil Engineering - University of St. Thomas

Anoka-Ramsey Community College Plus 2 Plan of Study

Students who complete the following courses at Anoka-Ramsey 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 Anoka-Ramsey Community College – Major Requirements			
Anoka-Ramsey Course #	Anoka-Ramsey Course Title	Cr.	St. Thomas Course Equivalence
ENGR 1100	Introduction to Engineering	2	ENGR 100
MATH 1111	Intro. to Statistics	4	STAT 220 (in future, may require addtnl lab)
MATH 1400	Calculus I	5	MATH 113
MATH 1401	Calculus II	5	MATH 114
MATH 2210	Differential Equations	4	MATH 210
PHYS 1327	College Physics I	6	PHYS 211
PHYS 1328	College Physics II	6	PHYS 212
CHEM 1061	Principles of Chemistry	4	CHEM 109
ENGR 2241	Statics	3	ENGR 220
ENGR 2243	Mechanics of Materials	3	ENGR 221 after completion of 1 cr. lab at UST
ENGR 2242	Dynamics	3	ENGR 222
Total Credits		45	

Courses Taken at Anoka-Ramsey – UST Core Curriculum Requirements		
Core Requirement	Credits	Anoka-Ramsey Course Options
Language and Culture	0-10	Anoka-Ramsey 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	3-4	
Total Credits	13-25	

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 on page 2, and a sample 2-year plan of study 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
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		54

Courses Taken at University of St. Thomas – Core Requirements	
Core Requirement	Credits
Philosophy and Theology	12
Integrations in the Humanities	8
Total Credits	20
<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: https://www.stthomas.edu/core-curriculum/courses/index.html</p>	

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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	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		
2 nd 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		

Program Credits	
Major Requirements completed at Anoka-Ramsey	45
Core Requirements completed at Anoka-Ramsey*	13-25
Major Requirements completed at University of St Thomas	54
Core Requirements completed at University of St Thomas	20
Total Credits	132 - 144

*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.