

## BS Civil Engineering – University of St. Thomas Inver Hills Community College Plus 2.5 Plan of Study

Students who complete the following courses at Inver Hills 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 Inver Hills Community College – Major Requirements			
Inver Hills Course #	Inver Hills Course Title	Cr.	St. Thomas Course Equivalence
MATH 1133	Calculus I	5	MATH 113
MATH 1134	Calculus II	5	MATH 114
MATH 2222	Intro to Differential Equations	3	MATH 210
PHYS 1081	Calculus Based Physics I	5	PHYS 211
PHYS 1082	Calculus Based Physics II	5	PHYS 212
CHEM 1061	Principles of Chemistry I	5	CHEM 109
ENGR 1000	Orientation to Engineering	1	ENGR 100
ENGR 2020	Statics	3	ENGR 220
ENGR 2024	Mechanics of Materials	3	ENGR 221 after completion of 1 cr. lab at UST
ENGR 2025	Dynamics	3	ENGR 222
<b>Total Credits</b>		<b>38</b>	

Courses Taken at Inver Hills – UST Core Curriculum Requirements		
Core Requirement	Credits	Inver Hills Course Options
Language and Culture (2 courses)	0-10	To find courses that satisfy the University of St. Thomas <b>New UG Core</b> at your institution, use the “Lookup By Core Area” option in our online Transfer Credit Tool. <a href="https://www.stthomas.edu/admissions/undergraduate/transfer-credit-tool/index.html">https://www.stthomas.edu/admissions/undergraduate/transfer-credit-tool/index.html</a>
Literature and Writing	4	
Social Analysis	3-4	
Fine Arts	3	
Historical Studies	4	
Int Humanities & GP COMM 2240	3	
<b>Total Credits</b>	<b>17-28</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 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 2.5-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
DASC 120	Intro to Computational Statistics	4
ENGR 160	Surveying	2
ENGR 162	Introduction to Engineering Graphics	1
ENGR 221	Mechanics of Materials Lab After Transfer (LAT) requires ENGR 2023 @Inver Hills prior to enrollment	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
<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 (with DISJ)	4
<b>Total Credits</b>	<b>16</b>
<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. <a href="https://www.stthomas.edu/academics/core-curriculum/courses/index.html">https://www.stthomas.edu/academics/core-curriculum/courses/index.html</a></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 <sup>st</sup> Yr			<b>ENGR 162</b> Intro Engr Graphics	1			
			<b>Core Requirement</b>	4			
			<b>DASC 120</b> Introduction to Computational Statistics	4			
			<b>ENGR 221</b> Mechanics (LAT)	1			
			<b>GEOL 163</b> Applied Geology (Lab)	4			
		<b>Total Credits</b>	<b>0</b>	<b>Total Credits</b>	<b>14</b>	<b>Total Credits</b>	<b>0</b>
		<b>ENGR 362</b> Construction and Engrg. Economic Analysis (Lab)	4	<b>ENGR 363</b> Construction Materials (Lab)	4		
	<b>ENGR 364</b> Structural Analysis	4	<b>ENGR 365</b> Design of Steel and Concrete Structures (Lab)	4			
	<b>ENGR 368</b> Fluid Mechanics for Civil Engineers (Lab)	4	<b>ENGR 466</b> Transportation Engineering	4			
	<b>ENGR 160</b> Surveying	2	<b>CORE Requirement-</b>	4			
	<b>Total Credits</b>	<b>14</b>	<b>Total Credits</b>	<b>16</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>ENGR 468</b> Environmental Engineering (Lab)	4	<b>ENGR 467</b> Water Resources	4			
	<b>ENGR 463</b> Soil Mechanics and Foundations (Lab)	4	<b>ENGR XXX</b> Engineering Elective	2			
	<b>CORE Requirement</b>	4	<b>CORE Requirement</b>	4			
	<b>Total Credits</b>	<b>16</b>	<b>Total Credits</b>	<b>14</b>	<b>Total Credits</b>	<b>0</b>	

Program Credits	
Major Requirements completed at Inver Hills	38
Core Requirements completed at Inver Hills*	17-28
Major Requirements completed at University of St Thomas	58
Core Requirements completed at University of St Thomas	16
<b>Total Credits</b>	<b>129-140</b>

*\*The number of credits is dependent upon the student's proficiency in a second language.*

*This guide is accurate to the best of our knowledge and ability at the time of publication but is subject to change.*