

# University of St. Thomas, School of Engineering

## Anoka-Ramsey Community College

### 2018-2019 Transfer Course Guide



#### Courses for All Engineering Students

Anoka-Ramsey Course #	Anoka-Ramsey Course Title	Credits	St. Thomas Core	UST Course Equivalence	MnTC Goal	✓
MATH 1400	Calculus I	5	Mathematics	MATH 113	4	
MATH 1401	Calculus II	5	Mathematics	MATH 114	4	
MATH 2210	Differential Equations	4		MATH 210		
PHYS 1327	College Physics I	6	Natural Science	PHYS 111	3	
PHYS 1328	College Physics II	6	Natural Science	PHYS 112	3	
CSCI 1106	Intro to Programming	4		CISC 130		

#### Civil Engineering

Anoka-Ramsey Course #	Anoka-Ramsey Course Title	Credits	St. Thomas Core	UST Course Equivalence	MnTC Goal	✓
CHEM 1061	Principles of Chemistry + LAB	4	Natural Science	CHEM 111	2, 3	
MATH 1114*	Introduction to Statistics	4	Add'l Math/QM/Science		4	
ECON 2205	Principles of Macroeconomics	3	Social Analysis	ECON 251	2, 5A	
ENGR 1111	Engineering Graphics	3		ENGR 171		
ENGR 2241	Statics	3		ENGR 220		
ENGR 2243**	Mechanics of Materials	3		ENGR 221		
ENGR 2242**	Dynamics	3		ENGR 322		

**Note: ECON 2205 Principles of Macroeconomics is not required for the major, yet strongly recommended for a Civil Engineering student to complete for the St. Thomas Social Analysis Core requirement.**

\*\*Students will earn major field credit after completion of a corresponding 1-credit lab at UST.

**\*Submit a syllabus for official review in advance of taking this course.**

#### Computer Engineering

Anoka-Ramsey Course #	Anoka-Ramsey Course Title	Credits	St. Thomas Core	UST Course Equivalence	MnTC Goal	✓
MATH 2100 OR CSCI 2100	Discrete Mathematics	4	Mathematics	MATH 128		
ENGR 1100	Introduction to Engineering	2		ENGR 150		
ENGR 2218	Digital Logic	4		ENGR 230		
ENGR 2219 + ENGR 2220	Linear Circuits Linear Circuits II	4 4		ENGR 240		

All online courses are evaluated on a case-by-case basis. Online syllabi must be submitted to St. Thomas Admissions for review.

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

Electrical Engineering						
Anoka-Ramsey Course #	Anoka-Ramsey Course Title	Credits	St. Thomas Core	UST Course Equivalence	MnTC Goal	✓
MATH 2220	Multivariable Calculus & Vector Analysis	5		MATH 200		
ENGR 1100	Introduction to Engineering	2		ENGR 150		
ENGR 2218	Digital Logic	4		ENGR 230		
ENGR 2219 +	Linear Circuits	4		ENGR 240		
ENGR 2220	Linear Circuits II	4				

Mechanical Engineering						
Anoka-Ramsey Course #	Anoka-Ramsey Course Title	Credits	St. Thomas Core	UST Course Equivalence	MnTC Goal	✓
MATH 2220	Multivariable Calculus & Vector Analysis	5		MATH 200		
ENGR 1100	Introduction to Engineering	2		ENGR 150		
ENGR 1111	Engineering Graphics	3		ENGR 171		
ENGR 2241	Statics	3		ENGR 220		
ENGR 2243**	Mechanics of Materials	3		ENGR 221		
ENGR 2242**	Dynamics	3		ENGR 322		
ENGR 2219 +	Linear Circuits	4		ENGR 350		
ENGR 2220	Linear Circuits II	4				
ENGR 2240**	Thermodynamics	3		ENGR 381		

\*\*Students will earn major field credit after completion of a corresponding 1-credit lab at UST.

The School of Engineering at the University of St. Thomas offers Bachelor of Science degrees in:

- Civil Engineering (B.S.C.E.)
- Computer Engineering (B.S.C.P.E.)
- Electrical Engineering (B.S.E.E.)
- Mechanical Engineering (B.S.M.E.)
- Dual degree programs with Business, Computer Science, German, and Physics

For more information about transferring to the University of St. Thomas, please contact:

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