

Student: _____

ID#: _____

Advisor: _____

**Bachelor of Science in
Applied Mathematics**
Cooperative Engineering Program
2016-2018 Catalog

DATE: ____/____/____

Overall Requirements to Graduate

- 126+ semester hours* (97 at UST)
- Completion of core curriculum
- Completion of a major
- 36 upper division credit hours
- GPA above 2.0
- Major GPA above 2.0



Credit Hour Breakdown	
Hours completed	
Hours in progress	
Core hours needed	
Major hours needed	
(Minor hours needed)	
(Other hours needed)	
Elective hours needed	
TOTAL HOURS (97*)	
*reduced for Cooperative Engineering	

Core Curriculum (28 hours)	Complete	Needed
Adapted for the Cooperative Engineering Program		
Theology (9 credit hours) Must take in order. (Pre-req: Phil 1311 or 1315/3315)		
<input type="checkbox"/> THEO 1301/3301 Intro to Sacred Scriptures <input type="checkbox"/> THEO 2301/3311 Teachings of the Catholic Church <input type="checkbox"/> THEO 3349 Christ and the Moral Life (Phil 2314 or 2316/3316)		
Philosophy (9 credit hours)		
<input type="checkbox"/> PHIL 1311 Philosophy of the Human Person <input type="checkbox"/> PHIL 2314 Ethics <input type="checkbox"/> PHIL 3333 Logic		
English (9 credit hours) Must take in order.		
<input type="checkbox"/> ENGL 1341 The Classical Tradition: Literature & Composition I <input type="checkbox"/> ENGL 1342 The Middle Ages: Literature & Composition II <input type="checkbox"/> ENGL 4393 Technical Writing		
History (6 credit hours) Choose one pair of courses:		
(Included in cooperative engineering major requirements)	Included in Major	
Social and Behavioral Sciences (6 credit hours) Choose one option:		
(Included in cooperative engineering major requirements)	Included in Major	
Natural Sciences (8-10 Credit Hours) Choose one option:		
(Included in cooperative engineering major requirements)	Included in Major	
Mathematics (3 credit hours)		
(Included in cooperative engineering major requirements)	Included in Major	
Fine Arts (3 credit hours)		
(Included in cooperative engineering major requirements)	Included in Major	
Freshman Symposium (1 credit hour) Required for all incoming freshmen.		
<input type="checkbox"/> UNIV 1111 Freshman Symposium		

Cooperative Engineering Program

The University of St. Thomas has cooperative agreements with Texas A&M University, the University of Houston, Catholic University, and the University of Notre Dame. The student earns a BA degree in Mathematics from UST and a BS degree in the chosen engineering discipline at the cooperative institution upon completion of the program.

Students interested in participating in the Cooperative Engineering Program must formally apply to the program by contacting the Coordinator of the Cooperative Engineering Program in the Department of Mathematics. Students must maintain certain GPA standards and complete 95-96 credit hours before going to the engineering college.

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Major Requirements (69 credit hours)	Completed	Needed
History (6 credit hours)		
<input type="checkbox"/> HIST 2333 – United States to 1877 <input type="checkbox"/> HIST 2334 – United States since 1877		
Political Science (3 credit hours) Choose one of the following.		
<input type="checkbox"/> POSC 2331 – American and Texas Government I <input type="checkbox"/> POSC 2332 – American and Texas Government II		
Social and Behavioral Sciences (3 credit hours) Choose one of the following.		
<input type="checkbox"/> ECON 1331 – Principles of Macroeconomics <input type="checkbox"/> ECON 1332 – Principles of Microeconomics <input type="checkbox"/> GEOG 2332 – World Regional Geography <input type="checkbox"/> PSYC 1332 – General Psychology <input type="checkbox"/> SOCI 1331 – Principles of Sociology		
Fine Arts (3 credit hours)		
<input type="checkbox"/> ARTHS 2352 – Survey of Art II		
Mathematics (34 credit hours)		
<input type="checkbox"/> MATH 1354 – Computer-Aided Design <input type="checkbox"/> MATH 1431 – Calculus I <input type="checkbox"/> MATH 1432 – Calculus II (MATH 1431 with a C or better) <input type="checkbox"/> MATH 2431 – Calculus III (MATH 1432 with a C or better) <input type="checkbox"/> MATH 2343 – Differential Equations I <input type="checkbox"/> MATH 3334 – Linear Algebra I <input type="checkbox"/> MATH 3336 – Thermodynamics (MATH 2431, CHEM 1342, PHYS 2333) <input type="checkbox"/> MATH 3333/3133 – Electrical Circuits with Laboratory (MATH 2343, PHYS 2334) <input type="checkbox"/> MATH 3341 – Mechanics I [Statics] (MATH 2431, PHYS 2333) <input type="checkbox"/> MATH 3342 – Mechanics II [Dynamics] (MATH 3341)		
Computer Science (4 credit hours)		
<input type="checkbox"/> COMSC 1450 – Introduction to Programming and Computer Science		
Chemistry (8 credit hours) Must take in order.		
<input type="checkbox"/> CHEM 1341/1141 – General Chemistry I w/ lab <input type="checkbox"/> CHEM 1342/1142 – General Chemistry II w/ lab		
Physics (8 credit hours) Must take in order.		
<input type="checkbox"/> PHYS 2333/2111 – University Physics I w/ lab (MATH 1431) <input type="checkbox"/> PHYS 2334/2112 – University Physics II w/ lab (MATH 1432)		

Totals	Completed	Needed
Total undergraduate hours at UST (*reduced for cooperative engineering program):		

TOTAL: 97*

Recommended course sequence for the first two semesters of a student's freshman year:

Fall Semester (14 credit hours):

- MATH 1431 – Calculus I
- MATH 1354 – Computer-Aided Design
- ENGL 1341 – The Classical Tradition: Literature and Comp. I
- PHIL 1311 – Philosophy of the Human Person
- UNIV 1111 – Freshman Symposium

Spring Semester (17 credit hours):

- MATH 1432 – Calculus II
- PHYS 2333/2111 – University Physics I and Lab
- ENGL 1342 – The Middle Ages: Literature and Comp. II
- PHIL 2314 – Ethics
- THEO 1301 – Intro to Sacred Scriptures