

Student: _____

University of St. Thomas

Advisor: _____

Bachelor of Arts in Applied Mathematics – Cooperative Engineering Program

ID: _____

2014-2016

Date: _____

UST Core Requirements (28 hours) Adapted for the Cooperative Engineering Program	Total Hours Complete	Total Hours Needed
Theology (9 credit hours) – must take in order: THEO 1301/3301 – Intro to the Sacred Scriptures THEO 2301/3311 – Teachings of the Catholic Church THEO 3349 – Christ and the Moral Life (THEO 2301/3311 and PHIL 2314 or 2316/3316)		
Philosophy (9 credit hours): Adapted for the Cooperative Engineering Program: PHIL 1311 – Phil of the Human Person PHIL 2314 – Ethics PHIL 2333 – Logic		
English (9 credit hours): Adapted for the Cooperative Engineering Program: ENGL 1341 – The Classical Tradition: Literature & Composition I ENGL 1342 – The Middle Ages: Literature & Composition II ENGL 4393 – Technical Writing		
History <ul style="list-style-type: none"> Included in cooperative engineering major requirements 		
Social & Behavioral Sciences <ul style="list-style-type: none"> Included in cooperative engineering major requirements 		
Natural Sciences <ul style="list-style-type: none"> Included in cooperative engineering major requirements 		
Mathematics <ul style="list-style-type: none"> Included in cooperative engineering major requirements 		
Fine Arts <ul style="list-style-type: none"> Included in cooperative engineering major requirements 		
Freshman Symposium (1 credit hour) – required for all entering freshmen: UNIV 1111 – Freshman Symposium: Educating Leaders of Faith and Character		

Cooperative Engineering Program

The University of St. Thomas has cooperative agreements with Texas A&M University, the University of Houston, 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.

Bachelor of Arts in Applied Mathematics - Cooperative Engineering Program Major Requirements (69) credit hours	Total Hours Complete	Total Hours Needed
History (6 credit hours): HIST 2333 – United States to 1877 HIST 2334 – United States since 1877		
Political Science (3 credit hours) – Choose one course from the following: POSC 2331 – American and Texas Government I POSC 2332 – American and Texas Government II		
Social and Behavioral Sciences (3 credit hours) – Choose one course from the following: ECON 1331 – Principles of Macroeconomics ECON 1332 – Principles of Microeconomics GEOG 2332 – World Regional Geography PSYC 1332 – General Psychology SOC1 1331 – Principles of Sociology		
Fine Arts (3 credit hours) : ARTHS 2352 – Survey of Art II		
Mathematics requirements (34 credit hours): MATH 1354 – Computer-Aided Design MATH 1431 – Calculus I MATH 1432 – Calculus II (<i>pre-req MATH 1431 with a C or better</i>) MATH 2431 – Calculus III (<i>pre-req MATH 1432 with a C or better</i>) MATH 2344 – Mathematics for Engineering I with Matlab Applications (<i>pre-req MATH 1432 with a C or better</i>) MATH 3354 – Mathematics for Engineering II with Matlab Applications (<i>pre-req MATH 2344 with a C or better</i>) MATH 3336 – Thermodynamics (<i>pre-req MATH 2431, CHEM 1342, PHYS 2333</i>) MATH 3333/3133 – Electrical Circuits with Laboratory (<i>pre-req MATH 2343, PHYS 2334</i>) MATH 3341 – Mechanics I (Statics) (<i>pre-req MATH 2431, PHYS 2333</i>) MATH 3342 – Mechanics II (Dynamics) (<i>pre-req MATH 3341</i>)		
Computer Science (4 credit hours): COMSC 1450 – Introduction to Programming and Computer Science		
Chemistry (8 credit hours): CHEM 1341 – General Chemistry I CHEM 1141 – Fundamentals of Chemistry Laboratory I CHEM 1342 – General Chemistry II (<i>pre-re CHEM 1341</i>) CHEM 1142 – Fundamentals of Chemistry Laboratory II (<i>pre-req CHEM 1141</i>)		
Physics (8 credit hours): PHYS 2333 – University Physics I (<i>pre-req MATH 1431</i>) PHYS 2111 – University Physics Laboratory I PHYS 2334 – University Physics II (<i>pre-req MATH 1432, PHYS 2333</i>) PHYS 2112 – University Physics Laboratory II		
Total Required	97	

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

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

Spring:
MATH 1432 – Calculus II, PHYS 2333/2111 – University Physics I and Lab, ENGL 1342 – The Middle Ages: Literature and Composition II,
PHIL 2314 – Ethics, and THEO 1300 – Teachings of the Catholic Church

(_____ hours transferred)
_____ hrs complete + _____ hrs ip + _____ hrs core + _____ hrs major + _____ hrs minor + _____ hrs other + _____ hrs electives = 97+