

Name _____

Semester Entered Program _____

Course Prefix & Number	Hours	Grade	Term
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MATHEMATICS (17 hrs.)

MAC 2311 - Calculus w/ Anal. Geom. I	4	_____	_____
MAC 2312 - Calculus w/ Anal. Geom. II	4	_____	_____
MAC 2313 - Calculus w/ Anal. Geom. III	5	_____	_____
ECH 3301 - Intro. Proc. Anal. & Design	4	_____	_____
	17		

BASIC SCIENCE (21 hrs.)

CHM 1045 - General Chemistry I	3	_____	_____
CHM 1045L - General Chemistry I Lab	1	_____	_____
CHM 1046 - General Chemistry II	3	_____	_____
CHM 1046L - General Chemistry II Lab	1	_____	_____
PHY 2048 - General Physics I	4	_____	_____
PHY 2048L - General Physics I Lab	1	_____	_____
PHY 2049 - General Physics II	4	_____	_____
PHY 2049L - General Physics II Lab	1	_____	_____
BSC 1010 - General Biology I	3	_____	_____
	21		

GEN EDUCATION – HIST/HUM/SS (15 hrs; 6 hrs writing "W")

AMH 2091 / AFA 2000 / AFA 3104	3	_____	_____
Humanities I (statewide) _____	3	_____	_____
Humanities II (stwide/FAMU) _____	3	_____	_____
Social Science I (FAMU) _____	3	_____	_____
Social Science II (statewide) _____	3	_____	_____
	15		

COMPOSITION & GENERAL ENGINEERING (7 hrs.)

ENC 1101 - Freshman Composition I	3	_____	_____
ENC1102 - Freshman Composition II	3	_____	_____
EGR 1004L - First Year Engineering Lab ¹	1	_____	_____
	7		

Course Prefix & Number	Hours	Grade	Term
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ADVANCED CHEMISTRY (9 hrs.)

CHM 2210 - Organic Chemistry I	3	_____	_____
CHM 2211 - Organic Chemistry II	3	_____	_____
CHM/BCH XXXX _____	3	_____	_____
(Advanced Chemistry Elective) ²	9		

ENGINEERING SCIENCE (7 hrs.)

EGM 3512 - Engineering Mechanics	4	_____	_____
EEL 3003 - Intro. Electrical Engineering	3	_____	_____
	7		

CHEMICAL & BIOMEDICAL ENGR SCI & DESIGN (55 hrs.)

ECH 3023 - Mass and Energy Balances I	3	_____	_____
ECH 3024 - Mass and Energy Balances II	4	_____	_____
ECH 3101 - Chem-E Thermodynamics	3	_____	_____
ECH 3266 - Transport Phenomena I	3	_____	_____
ECH 3274L - Transport Phenomena Lab	3	_____	_____
ECH 3418 - Separations Processes	3	_____	_____
ECH 3844 - Chemical Engr Statistics	3	_____	_____
ECH 3854 - Chem-E Computations	4	_____	_____
ECH 4267 - Transport Phenomena II	3	_____	_____
ECH 4323 - Process Control	3	_____	_____
ECH 4323L - Process Control Lab	1	_____	_____
ECH 4404L - Unit Operations Lab	3	_____	_____
ECH 4504 - Kinetics & Reactor Design	3	_____	_____
ECH 4604 - Chem-E Process Design I	4	_____	_____
ECH 4615 - Chem-E Process Design II	3	_____	_____
Chem-E Elective I ² _____	3 ³	_____	_____
Chem-E Elective II ² _____	3 ³	_____	_____
	52		

¹ May be exempted for some students, see exemptions at <https://eng.famu.fsu.edu/pre-engineering-requirements>.

² See lists of approved Advanced Chemistry and Chemical Engineering Electives.

³ URP/Honors = min. of 6 credit hours total.

Approved Advanced Chemistry Electives²:

ECH 4937 - Industrial & Eng. Chem.	3
BCH 4033 - General Biochemistry I	3
CHM 3120 - Quantitative Analysis	3
CHM 4410/11 - Physical Chemistry I/II	3

*Courses that can be taken co-op at FSU:

CHM 2211L - Organic Chemistry II Lab	3
CHM 4080/81 - Environmental Chem. I/II	3

Approved Chemical Engineering Electives²:

ECH 4743 - Chem-E Bioengineering	3
ECH 4705 - Electrochemical Eng. Sci.	3
ECH 4803 - Petroleum Sci. & Tech.	3
ECH 4823 - Polymer Science & Engr	3
ECH 4824 - Chem-E Materials	3
ECH 4904 / 4906 - URP / Honors in ChE ⁸	6
ECH 4937 - Special Topics in Chem-E	3

_____ AA Degree or General Ed Requirement

_____ Writing Course #1 (3) _____

_____ Writing Course #2 (3) _____

_____ Overall GPA _____

_____ Chem-E all Cs _____

_____ Summer Term Req. _____

Notes:

1. A "C" grade or higher is required in all chemical and biomedical engineering courses that apply to the degree (ECH or BME prefix).
2. Transfer students without an AA degree must meet the General Education requirements. Transfer students with an AA degree may still need to complete some courses.