

Name \_\_\_\_\_

Semester Entered Program \_\_\_\_\_

Course Prefix & Number      Hours    Grade    Term

**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	<u>4</u>	_____	_____
	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 2048C - General Physics I w/ Lab	5	_____	_____
PHY 2049C - General Physics II w/ Lab	5	_____	_____
BSC 2010 - Biological Science I	<u>3</u>	_____	_____
	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) _____	<u>3</u>	_____	_____
	15		

**COMPOSITION & GENERAL ENGINEERING (7 hrs.)**

ENC 1101 - Freshman Composition	3	_____	_____
ENC 1102 _____	3	_____	_____
EGN 1004L - First Year Engineering Lab <sup>1</sup>	<u>1</u>	_____	_____
	7		

Course Prefix & Number      Hours    Grade    Term

**ADVANCED CHEMISTRY (6 hrs.)**

CHM 2210 - Organic Chemistry I	3	_____	_____
CHM 2211 - Organic Chemistry II	<u>3</u>	_____	_____
	6		

**ENGINEERING SCIENCE (4 hrs.)**

EGM 3512 - Engineering Mechanics	<u>4</u>	_____	_____
	4		

**CHEMICAL & BIOMEDICAL ENGR SCI & DESIGN (61 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 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	_____	_____
ECH 4937 - Chemical Engineering Statistics	3	_____	_____
BME 3009 - Intro to Biomedical Engr.	3	_____	_____
BME 4403C - Quant. Anat. & Syst. Phys. I	3	_____	_____
BME 4404C - Quant. Anat. & Syst. Phys. II	3	_____	_____
Biomedical Engr. Elective I <sup>2</sup> _____ <sup>3</sup>	<u>3</u> <sup>3</sup>	_____	_____
	58		

Approved Biomedical Engineering Electives<sup>2</sup>

BME 4007 - Biomedical Engineering	3
BME 4937 - Special Topics in Biomed Engr	3
ECH 4743 - Chem-E Bioengineering	3
BME 4904 / 4906 - URP / Honors in BME <sup>3</sup>	6 total

General Pre-Med School Requirements (varies):

BCH 4033 - General Biochemistry I	3
BSC 1010L - Biological Science I Lab	1
BSC 1011/L - Biological Science II w/ Lab	5
CHM 2211L - Organic Chemistry II Lab	1
PCB 3723 - Vertebrate Physiology	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.

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

<sup>2</sup> See lists of approved Biomedical Engineering Electives.

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