

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 ¹ | <u>1</u> | _____ | _____ |
| | 7 | | |

Course Prefix & Number Hours Grade Term

ADVANCED CHEMISTRY (9 hrs.)

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

ENGINEERING SCIENCE (7 hrs.)

| | | | |
|--|----------|-------|-------|
| EGM 3512 - Engineering Mechanics | 4 | _____ | _____ |
| EEL 3003 - Intro. Electrical Engineering | <u>3</u> | _____ | _____ |
| | 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 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 Engr Statistics | 3 | _____ | _____ |
| Chem-E Elective I ² _____ | 3 ³ | _____ | _____ |
| Chem-E Elective II ² _____ | 3 ³ | _____ | _____ |
| | 52 | | |

Approved Advanced Chemistry Electives²:

| | |
|---|---|
| ECH 4937 - Industrial & Eng. Chem. | 3 |
| BCH 4033 - General Biochemistry I | 3 |
| CHM 3120/L - Quantitative Analysis w/Lab | 4 |
| <i>(note: if CHM 3120 is taken co-op at FSU, only the lecture is required because it is a 3 credit hour course)</i> | |

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:

| | |
|--|---|
| BME 4007 - Biomedical Engineering | 3 |
| ECH 4743 - Chem-E Bioengineering | 3 |
| ECH 4823 - Polymer Science & Engr | 3 |
| ECH 4824 - Chem-E Materials | 3 |
| ECH 4904 / 4906 - URP / Honors in ChE ³ | 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.

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.