

# Bioengineering Regular C Flowchart

| 1ST YEAR  |   | 2ND YEAR                                       |  |                                       | 3RD YEAR  |  |                                       | 4TH YEAR  |   | 5TH YEAR                              |   |
|---|---|--|--|---------------------------------------|---|--|---------------------------------------|---|---|---------------------------------------|---|
| Fall  | Spring                                      | Fall   | Spring   | Summer                                | Fall  | Spring                                       | Summer                                | Fall  | Spring  | Summer                                | Fall  |
| Orientation & Intro to BIOE<br>BIOE 1000<br>3 hrs | Computer Applications<br>BIOE 1200<br>3 hrs | Statics<br>CIVE 1150<br>3 hrs                  | Professional Development<br>BIOE 1010<br>1 hr    | Co-op Experience<br>BIOE 3940<br>1 hr | BIOE Thermodynamics<br>BIOE 2100<br>3 hrs         | Intro to Biomechanics<br>BIOE 3110<br>3 hrs  | Co-op Experience<br>BIOE 3940<br>1 hr | Senior Design Project I<br>BIOE 4410<br>3 hrs   | Coursework for deficiencies, medical school requirements, business minor or additional co-op experience | Co-op Experience<br>BIOE 3940<br>1 hr | Senior Design Project II<br>BIOE 4420<br>3 hrs      |
| General Chemistry I<br>CHEM 1230<br>4 hrs         | General Chemistry II<br>CHEM 1240<br>4 hrs  | Fund. Life Science II<br>BIOL 2170<br>4 hrs    | Biomaterials<br>BIOE 2200<br>3 hrs               |                                       | Bioprocessing Laboratory<br>BIOE 3500<br>3 hrs    | Biotransport Phenomena<br>BIOE 3400<br>3 hrs |                                       | Biomedical Electronics<br>BIOE 3300<br>3 hrs    |   |                                       | Biosignal Processing<br>BIOE 4120<br>3 hrs          |
| General Chem Lab I<br>CHEM 1280<br>1 hr           | General Chem Lab II<br>CHEM 1290<br>1 hr    | Fund. Life Science Lab II<br>BIOL 2180<br>1 hr | Biomedical Quality Control<br>BIOE 4300<br>3 hrs |                                       | Physiology for Bioengineers<br>BIOE 4100<br>3 hrs | Technical Elective<br>3 hrs                  |                                       | Bioelectronics Laboratory<br>BIOE 4140<br>2 hrs |   |                                       | Exp Methods in Bioengineering<br>BIOE 4750<br>3 hrs |
| Calculus I<br>MATH 1850<br>4 hrs                  | Calculus II<br>MATH 1860<br>4 hrs           | Multivariate Calculus<br>MATH 2850<br>4 hrs    | Differential Equations<br>MATH 2860<br>3 hrs     |                                       | Electrical Circuits<br>EECS 2300<br>4 hrs         | HUM/SS/MC Elective<br>3 hrs                  |                                       | BIOE Technical Elective<br>3 hrs                |   |                                       | BIOE Technical Elective<br>3 hrs                    |
| English Composition<br>ENGL 1110<br>3 hrs         | Physics I<br>PHYS 2130<br>5 hrs             | Physics II<br>PHYS 2140<br>5 hrs               | Technical Writing<br>ENGL 2950<br>3 hrs          |                                       | HUM/SS/MC Elective<br>3 hrs                       | HUM/SS/MC Elective<br>3 hrs                  |                                       | Technical Elective<br>3 hrs                     |   |                                       |   |
|   |   |  | HUM/SS/MC Elective<br>3 hrs                      |                                       |   | HUM/SS/MC Elective<br>3 hrs                  |                                       | Technical Elective<br>3 hrs                     |   |                                       |   |
| 15 hours  | 17 hours                                    | 17 hours                                       | 16 hours   | 1 hour                                | 16 hours  | 18 hours                                     | 1 hour                                | 17 hours  | Optional  | 1 hour                                | 12 hours  |

**CORE ELECTIVES \***

Name: \_\_\_\_\_

US Diversity: \_\_\_\_\_

Rocket ID: \_\_\_\_\_

Non US Diversity: \_\_\_\_\_

Social Science: \_\_\_\_\_

Social Science: \_\_\_\_\_

Humanity: \_\_\_\_\_

Humanity: \_\_\_\_\_

\*one double-dip allowed

revised 2/21/2019

**HONORS STUDENTS REQUIREMENTS**

US Diversity = HON 2010\*

Social Science = HON 2010\*

Humanity = HON 1010

HON 3010 and 27 total hours required