

# Bioengineering Regular A 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    | Technical Writing<br>ENGL 2950<br>3 hrs | Bioprocessing Laboratory<br>BIOE 3500<br>3 hrs    | Co-op Experience<br>BIOE 3940<br>1 hr | 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 I<br>BIOE 4410<br>3 hrs   | 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               | HUM/SS/MC Elective<br>3 hrs             | Physiology for Bioengineers<br>BIOE 4100<br>3 hrs |                                       |   |                                       | Biotransport Phenomena<br>BIOE 3400<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 | Intro to Biomechanics<br>BIOE 3110<br>3 hrs      | HUM/SS/MC Elective<br>3 hrs             | Electrical Circuits<br>EECS 2300<br>4 hrs         |                                       |   |                                       | Biomedical Electronics<br>BIOE 3300<br>3 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     | HUM/SS/MC Elective<br>3 hrs             | Technical Elective<br>3 hrs                       |                                       |   |                                       | Bioelectronics Laboratory<br>BIOE 4140<br>2 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               | Biomedical Quality Control<br>BIOE 4300<br>3 hrs |   | Technical Elective<br>3 hrs                       |                                       |   |                                       | BIOE Technical Elective<br>3 hrs                |                                       | Technical Elective<br>3 hrs                         |
|   |   |  | BIOE Thermo-dynamics<br>BIOE 2100<br>3 hrs       |   |   |                                       |   |                                       | HUM/SS/MC Elective<br>3 hrs                     |                                       | HUM/SS/MC Elective<br>3 hrs                         |
| 15 hours  | 17 hours                                    | 17 hours                                       | 16 hours   | 12 hours                                | 16 hours  | 1 hour                                | Optional  | 1 hour                                | 17 hours  | 1 hour                                | 18 hours  |

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

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

Catalog Year: \_\_\_\_\_

**CORE ELECTIVES \***

- US Diversity: \_\_\_\_\_
- Non US Diversity: \_\_\_\_\_
- Social Science: \_\_\_\_\_
- Social Science: \_\_\_\_\_
- Humanity: \_\_\_\_\_
- Humanity: \_\_\_\_\_

\*one double-dip allowed

revised 8/5/2019

**HONORS STUDENTS REQUIREMENTS**

- US Diversity = HON 2010\*
- Social Science = HON 2010\*
- Humanity = HON 1010
- HON 3010 and 27 total hours required

Effective: Fall 2018

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revised 8/5/2019