**Advising Sheet: B.S. in Biomedical Engineering – Bioinformatics**

(Revised September 2020)

**Name**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **ID**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **FALL** | | | | | **SPRING** | | | | | |
| **Freshman (17)** | **Hrs** | **Grade** | **Prereq** | **Coreq** | **Freshman (16)** | **Hrs** | | **Grade** | **Prereq** | **Coreq** |
| Writ 101 | 3 |  |  |  | Writ 102 | 3 | |  |  |  |
| Math 261 | 3 |  | Math ACT 24 |  | Math 262 | 3 | |  | Math 261 (min C) |  |
| Chem 105 | 3 |  | Math ACT 25 | Chem 115 | Chem 106 | 3 | |  | Chem 105 (min C) | Chem 116 |
| Chem 115 | 1 |  |  | Chem 105 | Chem 116 | 1 | |  |  | Chem 106 |
| Bisc 160 | 3 |  | Math ACT 25 | Bisc 161 | Bisc 162 | 3 | |  | Bisc 160 (min C) | Bisc 163 |
| Bisc 161 | 1 |  |  | Bisc 160 | Bisc 163 | 1 | |  | Bisc 161 (min C) | Bisc 162 |
| SS/H/FA | 3 |  |  |  | BME 200 | 2 | |  | Math 261 | Chem 105 |
| **Sophomore (17)** |  |  |  |  | **Sophomore (17)** |  | |  |  |  |
| Math 263 | 3 |  | Math 262 (min C) |  | Math 264 | 3 | |  | Math 263 (min C) |  |
| Phys 211 | 3 |  |  | Math 262, Phys 221 | Math 353 | 3 | |  |  | Math 264 |
| Phys 221 | 1 |  |  | Phys 211 | Phys 212 | 3 | |  | Phys 211 | Math 262, Phys 222 |
| CSCI 251 | 3 |  |  | Math 261 | Phys 222 | 1 | |  |  | Phys 212 |
| BME 222 | 3 |  | Bisc 160 (min C-),Chem 105 (min C-) |  | ENGR 360 | 3 | |  | Math 262, Phys 211 | Phys 212 |
| Chem 221 | 3 |  | Chem 106 (min C) |  | Chem 222 | 3 | |  | Chem 221 (min C) |  |
| Chem 225 | 1 |  | Chem 116 | Chem 221 | Chem 226 | 1 | |  | Chem 225 | Chem 222 |
| **Junior (18)** |  |  |  |  | **Junior (15)** |  | |  |  |  |
| EL E 331 | 3 |  | ENGR 360 (min C-), Math 353 |  | BME 314 | 1 | |  | Math 261, Phys 212 |  |
| BME 313 | 3 |  | Chem 105, Math 261, Phys 212, CSCI 251 (211) |  | BME 370 | 3 | |  | Math 353 or Math 302 or Math 375 & CSCI 251 or CSCI 112 |  |
| CSCI 343 | 3 |  | CSCI 112 or CSCI 251 or CSCI 256 |  | BME 444 | 3 | |  | BME 333, ELE 331 |  |
| Ch E 307 | 2 |  | Chem 106 (min C) |  | CSCI 475 | 3 | |  | CSCI 211 or CSCI 343 |  |
| SS/H/FA | 3 |  |  |  | Ch E 308 | 2 | |  | Ch E 307 (min C-), Math 262 (min C-) |  |
| BISC 336 | 4 |  | Bisc 160, 161, 162 & 163 |  | SS/H/FA | 3 | |  |  |  |
| **Senior (12)** |  |  |  |  | **Senior (14)** |  | |  |  |  |
| BME 333 | 3 |  | ChE 308 (min C-), Bisc 162 (min C) |  | BME 462 | 2 | |  | BME 461 |  |
| BME 461 | 2 |  | BME 444 |  | ECON 310 | 3 | |  | Math 262 |  |
| CSCI Elective | 3 |  |  |  | CSCI Elective | 3 | |  |  |  |
| ENGR 400 | 1 |  |  |  | Track Elective | 3 | |  |  |  |
| SS/H/FA | 3 |  |  |  | SS/H/FA | 3 | |  |  |  |
|  |  |  |  |  |  |  | |  |  |  |
| Must have at least 6 hrs of Social/Behavioral Science courses, 9 hrs of Humanities and Fine Arts course with at least 3 hrs in each; 15 hrs of Social/Behavioral Sciences – Humanities – Fine Arts and other approved courses are required. Must take 3 hrs Engineering Economy serving as a required liberal arts class (total of 18 hrs). | | | | | | | | | | |
| **Social/Behavioral Science** | | | | **Humanities** | | | **Fine Arts** | | | |
|  | | | |  | | |  | | | |
|  | | | |  | | |  | | | |
|  | | | |  | | |  | | | |
| **Engineering Electives** – Any 300+ level engineering course | | | | | **Track Electives** – Any departmental (track) approved 300+ level elective course | | | | | |
| An anchor means a course is only taught in a designated Fall/Spring semester. However, the class may be taught in Summer session(s). | | | | | | | | | | |
|  | | | | |  | | | | | |
|  | | | | | **Total = 126 Hours** | | | | | |