

**Advising Sheet: B.S. EE BME Emphasis (July 2017)**

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

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

| Fall                             |     |       |     |  | Spring |  |       |     |  |
|----------------------------------|-----|-------|-----|--|--------|--|-------|-----|--|
| Freshman:                        | Hrs | Grade | Sem | Prereq/Coreq                                       |        | Hrs                                    | Grade | Sem | Prereq/Coreq                             |
| Writ 101                         | (3) |       |     |  |        | Writ 102                               | (3)   |     | Writ 101                                 |
| Math 261                         | (3) |       |     | Math ACT 24  |        | Math 262                               | (3)   |     | Math261 (Min C)                          |
| Chem 105                         | (3) |       |     | Math ACT 25, Chem115                               |        | Phys 211                               | (3)   |     | Math262, Phys221                         |
| Chem 115                         | (1) |       |     | Chem105  |        | Phys 221                               | (1)   |     | Phys211                                  |
| CSCI 251 Prog. for Sci. and Eng. | (3) |       |     | Math 261   |        | El E 235 Principles of Digital Systems | (3)   |     |  |
| El E 100                         | (1) |       |     |  |        | El E 236 Dig Sy Lab                    | (1)   |     | El E 235 Coreq./Prereq.                  |
| SS/H/FA                          | (3) |       |     |  |        | CSCI 259# Pro C++                      | (3)   |     | CSCI 251 or CSCI 111                     |
| <b>Sophomore:</b>                |     |       |     |  |        |  |       |     |  |
| Math 263                         | (3) |       |     | Math262 (Min C)                                    |        | Math 264                               | (3)   |     | Math263 (Min C)                          |
| Phys 212                         | (3) |       |     | Math262, Phys222, Phys211                          |        | Math 353 Diff. Eq.                     | (3)   |     | Math264                                  |
| Phys 222                         | (1) |       |     | Phys212  |        | ENGR 310 Analys I                      | (3)   |     | Math 262                                 |
| ENGR 360 Elec Circ               | (3) |       |     | Math263, Phys 212                                  |        | El E 386 Advanced Dig Systems Lab      | (1)   |     | El E 385                                 |
| El E 385 Adv Dig Sys             | (3) |       |     | El E 235 (Min C-)                                  |        | ENGR 361 Circ Lab                      | (1)   |     | ENGR 360                                 |
| SS/H/FA                          | (3) |       |     |  |        | Econ 310                               | (3)   |     |  |
|                                  |     |       |     |  |        | SS/H/FA                                | (3)   |     |  |
| <b>Junior:</b>                   |     |       |     |  |        |  |       |     |  |
| El E 351# Electro I              | (3) |       |     | ENGR360 (Min C-), Math 353                         |        | El E 314# Biomedical Meas.             | (1)   |     | Math 261, Phys 212                       |
| El E 485# Microp                 | (2) |       |     | El E 385, El E 386, El E 486                       |        | El E 352# Electro II                   | (3)   |     | El E 351, El E 353                       |
| El E 486# Microp Lab             | (1) |       |     | El E 485   |        | El E 353# Elect Lab                    | (1)   |     | ENGR 361, El E 352                       |
| El E 331# Linear Sys             | (3) |       |     | ENGR360 (Min C-), Math 353                         |        | El E 367# CAD in EE                    | (3)   |     | El E 351, ENGR 361                       |
| El E 313# Phys. BME              | (3) |       |     | Chem 105, Math 261, Phys 212, CSCI 111 or CSCI 251 |        | El E 413# Biomed Signal Pro            | (3)   |     | Math 353, ENGR 360, CSCI 111 or CSCI 251 |
| ENGR 410# Analys II              | (4) |       |     | Math264, Math 353                                  |        | El E 431# Control Theory               | (3)   |     | El E 331                                 |
|                                  |     |       |     |  |        | El E 414# Biomedical Elect.            | (1)   |     | El E 351                                 |
| <b>Senior:</b>                   |     |       |     |  |        |  |       |     |  |
| El E 461# Senior Design I        | (1) |       |     | El E 353, El E 367                                 |        | El E 462# Senior Design II             | (2)   |     | El E 461                                 |
| El E 447# Mod, noise             | (3) |       |     | El E 331   |        | El E 341# Field Theo                   | (3)   |     | Math 264, ENGR 410                       |
| Tech. Elective                   | (3) |       |     |  |        | El E 391# Random Signals               | (3)   |     | El E 331                                 |
| Tech. Elective                   | (3) |       |     |  |        | ENGR 321 Thermo                        | (3)   |     | Chem 105, Math 262                       |
| ENGR 309 Statics                 | (3) |       |     | Math 263, Phys 211                                 |        | SS/H/FA                                | (3)   |     |  |
| SS/H/FA                          | (3) |       |     |  |        |  |       |     |  |

**Must have at least 6 hrs of Social/Behavioral Science courses, and 9 hrs of Humanities and Fine Arts courses 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**

| Social/Behavioral Science | Humanities | Fine Arts |
|---------------------------|------------|-----------|
|                           |            |           |
|                           |            |           |
|                           |            |           |

**Technical Electives – Any departmental approved 300+ level elective course**

**# means a course is only taught in a designated Fall/Spring semester.**

**TOTAL = 128 HOURS**