

**Engineering Technology - COMPUTER Concentration****Bachelor of Science**

NAME:

W#:

|  | Grade | Semester  | Minimum Grade of D Required:   | Grade | Semester   | Minimum Grade of C required:   |                                 |
|--|-------|---|--|-------|--|--|---------------------------------|
| ENGLISH (12 hrs)   |       |   | <b>ENGL 101</b> Freshman Composition (3 hrs)   |       |  | <b>OSHE 111</b> Introduction to OSHE (3 hrs)                                 | ENGINEERING TECHNOLOGY (33 hrs) |
|  |       |   | <b>ENGL 102</b> Critical Reading and Writing (3 hrs)   |       |  | <b>IT 111</b> Engineering Drafting (3 hrs)                                   |                                 |
|  |       |   | <b>ENGL 230, 231</b> <i>or</i> <b>232</b> (3 hrs)  |       |  | <b>IT 407</b> Six Sigma Industrial Quality (3 hrs)                           |                                 |
|  |       | <b>ENGL 322</b> Intro to Prof and Technical Writing (3 hrs) |  |       | <b>ET 100</b> Introduction to Engineering Technology (3 hrs) |  |                                 |
| NATURAL SCIENCE (15 hrs)   |       |   | <b>Biology - GBIO 151</b> (3 hrs)  |       |  | <b>ET 202</b> Computer Applications (3 hrs)                                  |                                 |
|  |       |   | <b>Biology - BIOL 152</b> (1 hr)   |       |  | <b>ET 213</b> Electrical Circuits (3 hrs)                                    |                                 |
|  |       |   | <b>Chemistry - CHEM 121</b> Lecture (3 hrs)  |       |  | <b>ET 241</b> Introduction to Engineering Materials (3 hrs)                  |                                 |
|  |       |   | <b>Physics - PHYS 191</b> Lecture (3 hrs)  |       |  | <b>ET 305</b> Human Factors Engineering (3 hrs)                              |                                 |
|  |       |   | <b>Physics - PLAB 193</b> Lab (1 hr)   |       |  | <b>ET 492</b> Project Management (3 hrs)                                     |                                 |
|  |       |   | <b>Physics - PHYS 192</b> Lecture (3 hrs)  |       |  | <b>ET 493</b> Senior Design I (3 hrs)  |                                 |
| GENERAL EDUCATION (17 hrs)   |       |   | <b>ART, DNCE, MUS, <u>or</u> THEA</b> (3 hrs)  |       |  | <b>CMPS 290</b> Computer Organization (3 hrs) (ONLY A "D" GRADE IS REQUIRED) | COMPUTER CONCENTRATION (30 hrs) |
|  |       |   | <b>HIST 101, 102, 201, <u>or</u> 202</b> (3 hrs)   |       |  | <b>CMPS 297</b> Digital Logic (3 hrs) (ONLY A "D" GRADE IS REQUIRED)         |                                 |
|  |       |   | <b>COMM 211</b> Introduction to Public Speaking (3 hrs)  |       |  | <b>ET 205</b> Mathematical Methods for Engineering (3 hrs)                   |                                 |
|  |       |   | <b>ECON 201</b> <i>or</i> <b>ECON 202</b> (3 hrs)  |       |  | <b>ET 212</b> Introduction to Programming (3 hrs)                            |                                 |
|  |       |   | <b>ECON, PSYC, ANTH, SOC, <i>or</i> POLI</b> (3 hrs)   |       |  | <b>ET 221</b> Programming for Technologists (3 hrs)                          |                                 |
|  |       |   | <b>SE 101</b> <i>or</i> <b>Free Elective</b> (2 hrs) not required of transfer or re-admitted students with 30 hours or more. |       |  | <b>ET 225</b> Electronics I (3 hrs)  |                                 |
| MATH   |       |   | <b>MATH 165</b> Precalculus with Trigonometry (3 hrs)  |       |  | <b>ET 226</b> Electronics II (3 hrs)   |                                 |
|  |       |   | <b>MATH 200</b> Calculus I (5 hrs)   |       |  | <b>ET 320</b> Microprocessors and Interfacing (3 hrs)                        |                                 |
| <sup>1</sup> Technical Electives can be chosen from:<br>CMPS 329 Computer Networking and Security<br>CMPS 355 Object-Oriented Programming<br>CMPS 375 Computer Architecture<br>CMPS 431 Operating Systems<br>ET 375 Applied Thermodynamics<br>ET 376 Applied Fluid Mechanics<br>ET 381 Engineering Materials<br>ET 488 Robotics and Automation<br>IT 444 Computer Integrated Manufacturing (CIM) |       |   |  |       |  | <b>ET 410</b> Signals and Systems (3 hrs)                                    | Tech. Elec.                     |
|  |       |   |  |       |  | <b>ET 425</b> Control and Automation (3 hrs)                                 |                                 |
|  |       |   |  |       |  | <sup>1</sup> Technical Elective (3 hrs)                                      |                                 |
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