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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Degrees** | **Semester 1** | **Semester 2** | **Semester 3** | **Semester 4** | **Semester 5** | **Semester 6** | **Semester 7** | **Semester 8** |
| **B.S. in IE**  **122 credits** | **Math 165**  **Calc I**  **4 cr**  Placement Exam | **Math 166**  **Calc II**  **4 cr**  C- or better in Math 165 | **Math 265**  **Calc III**  **4 cr**  C- or better in Math 166 | **Math 267**  **Diff Eq/Lap**  **4 cr**  C- or better in Math 166 | **I E 305**  **Engr Econ Analysis**  **3 cr**  Math 166 | **I E 348**  **Solidif Processes**  **3 cr**  IE 248  Mat E 273  *Spring Only* | **I E 413**  **Stoch Modeling**  **4 cr**  Math 267  Stat 231  *Fall Only* | **I E 441**  **IE Design**  **3 cr**  IE 248, IE 271, IE 361  Credit/Enrollment in IE 341, IE 413  & IE 448 |
|  | **SSH**  **Elective**  **3 cr** | **Phys 221**  **Classical Phys I**  **5 cr**  Credit/enrollment in Math 166 | **I E 248**  **Intro Mfg Processes**  **3 cr**  Math 166, Phys 221; Credit/ enrollment in IE 101 & Mat E 273  *Fall Only* | **Stat 231**  **Prob & Stat**  **4 cr**  Credit/enrollment in Math 265 | **I E 341**  **Production Systems**  **3 cr**  Stat 231  Credit/enrollment in IE 312  *Fall Only* | **I E 361**  **Quality Assurance**  **3 cr**  Stat 231 | **Engl 314**  **Tech Comm**  **3 cr** | **I E 448**  **Manuf Sys Engr**  **3 cr**  IE 248  IE 305  *Spring Only* |
|  | **Chem 167**  **Engr Chem**  **4 cr**  Math 140 | **SSH**  **Elective**  **3 cr** | **Mat E 273**  **Principles of Materials Science**  **3 cr**  Sophomore classification Chem 167 or 177, Math 165 | **I E 271**  **Appl Ergonomics**  **3 cr**  Physics 221  *Spring Only* | **I E 312**  **Optimization**  **3 cr**  Credit/enrollment in Math 267  *Fall Only* | **Engr Topic**  **Elective**  **3 cr** | **M E 231**  **Engineering Thermodynamics I**  **3 cr**  Math 265, Chem 167, Phys 222 | **Focus**  **Elective**  **3 cr** |
|  | **IE 148**  **Information Engr**  **3 cr**  Credit/enrollment in Math 142 | **Engl 150**  **Comp I**  **3 cr** | **Phys 222**  **Classical Phys II**  **5 cr**  Phys 221  Math 166 | **E M 274**  **Statics**  **3 cr**  Credit/enrollment in Math 166 & Phys 221 | **E E 442**  **Intro Circuits**  **2 cr**  Math 267  Physic 222 | **SSH**  **Elective**  **3 cr** | **Focus**  **Elective**  **3 cr** | **Mgmt**  **Elective**  **3 cr** |
|  | **Engr 101**  **Orientation**  **R cr** | **Lib 160**  **Library**  **1 cr** | **Engl 250**  **Comp II**  **3 cr**  C or better in Engl 150 or placement |  | **Sp Cm 212**  **Prof Comm**  **3 cr** | **Mgmt**  **Elective**  **3 cr** | **SSH**  **Elective**  **3 cr** | **Engr Topic Elective**  **3 cr** |
|  |  | **I E 101**  **I E Orient**  **R cr** |  |  |  |  |  |  |
| **122 Total Credits** | **14 cr** | **16 cr** | **18 cr** | **14 cr** | **14 cr** | **15 cr** | **16 cr** | **15 cr** |