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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  or MATH 166H | **MATH 267**  **Diff Eq/Lap**  **4 cr**  C- or better in  MATH 166  or MATH 166H | **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 |
|  | **Social Sciences and Humanities**  **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**  Junior Classification ENGL 250 | **I E 448**  **Manuf Sys Engr**  **3 cr**  IE 248  IE 305  *Spring Only* |
|  | **CHEM 167**  **Engr Chem**  **4 cr**  MATH 140  CHEM 50  or HS Equivalent | **Social Sciences and Humanities**  **Elective**  **3 cr** | **MAT E 273**  **Principles of Materials Science**  **3 cr**  Soph classification,  CHEM 167 or 177, MATH 165 | **I E 271**  **Appl Ergonomics**  **3 cr**  PHYS 221  *Spring Only* | **I E 312**  **Optimization**  **3 cr**  Credit/enrollment in MATH 267  *Fall Only* | **Engineering 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**  Credit/enrollment in LIB 160 | **PHYS 222**  **Classical Phys II**  **5 cr**  PHYS 221  MATH 166 | **I E 222**  **Design & Analysis Sys Improvements**  **3 cr**  IE 248, Credit/ enrollment in IE 271  *Spring On*l*y* | **E M 274**  **Statics**  **3 cr**  Credit/enrollment in MATH 166  PHYS 221 | **Social Sciences and Humanities**  **Elective**  **3 cr** | **Focus**  **Elective**  **3 cr** | **Management**  **Elective**  **3 cr** |
|  | **ENGR 101**  **Orientation**  **R cr** | **LIB 160**  **Library**  **1 cr** | **ENGL 250 or ENGL 250H**  **Comp II**  **3 cr**  C or better in ENGL 150 or placement, Credit/enrollment in  LIB 160 |  | **SP CM 212**  **Fund of Public Speaking**  **3 cr** | **E E 442**  **Intro to Circuits**  **2 cr**  MATH 267  PHYS 222 | **Social Sciences and Humanities**  **Elective**  **3 cr** | **Engineering Topic Elective**  **3 cr** |
|  |  | **I E 101**  **I E Orient**  **R cr** |  |  |  |  |  |  |
| **122 Total Credits** | **14 cr** | **16 cr** | **18 cr** | **14 cr** | **15 cr** | **14 cr** | **16 cr** | **15 cr** |