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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 inMATH 165 | **MATH 265****Calc III****4 cr**C- or better inMATH 166or MATH 166H | **MATH 267****Diff Eq/Lap****4 cr**C- or better inMATH 166 or MATH 166H | **I E 305****Engr Econ Analysis****3 cr**MATH 166 | **I E 348****Solidif Processes****3 cr**IE 248MAT E 273*Spring Only* | **I E 413****Stoch Modeling****4 cr**Math 267Stat 231*Fall Only* | **I E 441****IE Design****3 cr**IE 248, IE 271, IE 361,Credit/Enrollment inIE 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 248IE 305*Spring Only* |
|  | **CHEM 167****Engr Chem****4 cr**MATH 140 CHEM 50or 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 221MATH 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** |