### General Classes

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 220</td>
<td>Differential Calculus of One Variable Functions</td>
<td>4</td>
</tr>
<tr>
<td>MATH 224</td>
<td>Integral Calculus of One Variable Function</td>
<td></td>
</tr>
<tr>
<td>MATH 230</td>
<td>Differential Calculus of Multivariable Functions</td>
<td></td>
</tr>
<tr>
<td>MATH 234</td>
<td>Multiple Integration and Vector Calculus</td>
<td></td>
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</tbody>
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### Design and Communication

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>DSGN 106-1,2</td>
<td>One of COMM ST 102, PERF ST 103, or PERF ST 203</td>
</tr>
</tbody>
</table>

### Mathematics

- **4 courses**
- **4 total units**
- **Basic Sciences**: PHYSICS 135-2,3; 136-2,3; 239
- Biological Sci: BIOL SCI 215, 217, 219, 220, 221, 222; CHEM ENG 275
- Earth Sciences/Astronomy: EARTH 201, 202, 203; ASTRON 220

### Basic Engineering

- **Must cover 4 categories**
- **Required by IE**: EECS 211 (Comp Programming), EECS 317 (Comp Programming), CIV ENV 205 (Sys Eng and Analysis)

### Additional courses

- **2 courses**
- **Recommended Choices**: EECS 202 (Electrical Science), EECS 203 or 205 (Comp Architecture), BME 271 or Civ Eng 216 (Fluids/Solids), MAT SCI 201 (Material Science)

### Basic Engineering/Operations Research

- **3 courses**

### Production and Logistics

- **1 course**
- **IEMS 381** Supply-Chain Modeling and Analysis, or IEMS 382 Production Planning and Scheduling, or IEMS 383 Service Operations Management, or IEMS 385 Intro to Health Systems Management

### Senior Design Project

- **2 courses**
- **IEMS 393-1** Industrial Engineering Design Project, **IEMS 393-2** Industrial Engineering Design Project

### Technical Electives

- **3 courses**
- **General Technical Elective**: Any 200 level or higher engineering course, Econ 308; 309; 316; 337; 339; 349; 350; 355; 361; 362; 380-1,2; 381-1,2; 383
- **IMC 303**, LOC 306, 310, Math 300-0; 320-1,2,3; 330-1,2,3; 364; 366-1,2
- **Sociology 302**, Stats 320-2, 3; 325, 350, 351, Kellg-Fe 310, 312, 314, 316, Kellg-Ma 322, 324, 326

### Social Sciences-Humanities (Theme)

- **7 courses**
- At least 2 Soc Science courses
- At least 2 Humanities courses
- At least 3 courses must be thematically related

### Unrestricted Electives

- **5 courses**

### Unofficial Document

For Advising Purposes Only

Students may choose to follow any catalog year requirements from their first year to present, but may not mix and match requirements from different catalog years.