PRODUCT DEVELOPMENT OPTION

This option is offered within the following major(s):


This option, taken in conjunction with the BS in Manufacturing Engineering, will prepare students for careers in manufacturing industry that focus on the development of new products and equipment.

Option Code: 833

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ENGR 202</td>
<td>ELECTRICAL FUNDAMENTALS II</td>
<td>3</td>
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<tr>
<td>ENGR 391</td>
<td>ENGINEERING ECONOMICS AND PROJECT MANAGEMENT</td>
<td>3</td>
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<tr>
<td>MATS 322/ENGR 322</td>
<td>MECHANICAL PROPERTIES OF MATERIALS</td>
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<tr>
<td>ME 312/NSE 312</td>
<td>THERMODYNAMICS</td>
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<tr>
<td>ME 316</td>
<td>MECHANICS OF MATERIALS</td>
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<td>ME 317</td>
<td>INTERMEDIATE DYNAMICS</td>
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<tr>
<td>ME 331/NSE 331</td>
<td>INTRODUCTORY FLUID MECHANICS</td>
<td>4</td>
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<td>ME 332/NSE 332</td>
<td>HEAT TRANSFER</td>
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<tr>
<td>ME 373</td>
<td>MECHANICAL ENGINEERING METHODS</td>
<td>3</td>
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<tr>
<td>ME 383</td>
<td>MECHANICAL COMPONENT DESIGN</td>
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Restricted Elective

Select 4 credits from the following:

- CHE 445 POLYMER ENGINEERING AND SCIENCE
- ECE 418 SEMICONDUCTOR PROCESSING
- IE 355 STATISTICAL QUALITY CONTROL
- IE 356 EXPERIMENTAL DESIGN FOR INDUSTRIAL PROCESSES
- IE 366 WORK SYSTEMS ENGINEERING
- IE 367 PRODUCTION PLANNING AND CONTROL
- IE 368 FACILITY DESIGN AND OPERATIONS MANAGEMENT
- IE 411 VISUAL PROGRAMMING FOR INDUSTRIAL APPLICATIONS
- IE 412 INFORMATION SYSTEMS ENGINEERING
- IE 415 SIMULATION AND DECISION SUPPORT SYSTEMS
- IE 418 TELECOMMUNICATION CONCEPTS
- IE 419 WIRELESS NETWORKS
- IE 425 INDUSTRIAL SYSTEMS OPTIMIZATION
- IE 426 STOCHASTIC MODELS OF INDUSTRIAL SYSTEMS
- IE 470 MANAGEMENT SYSTEMS ENGINEERING
- IE 471 PROJECT MANAGEMENT IN ENGINEERING
- IE 475 ADVANCED MANUFACTURING COSTING TECHNIQUES
- ME 430 SYSTEMS DYNAMICS AND CONTROL
- ME 451 INTRODUCTION TO INSTRUMENTATION AND MEASUREMENT SYSTEMS
- ME 480 MATERIALS SELECTION
- ME 499 SPECIAL TOPICS
- MFGE 438 COMPOSITES MANUFACTURING
- MFGE 499 SPECIAL TOPICS
- ROB 421 APPLIED ROBOTICS

Total Hours 39