MECHANICAL ENGINEERING TECHNOLOGY MAJOR (B.S.)

https://manchester.unh.edu/program/bs/mechanical-engineering-technology-major

Description

Engineering technology requires the application of engineering and scientific knowledge and methods combined with technical skills in support of engineering activities. Graduates may work in a variety of areas including engineering design, manufacturing, field service, testing, and sales and may work in management positions related to engineering, manufacturing, and computer technology.

The UNH Manchester BS in Mechanical Engineering Technology is accredited by the Engineering Technology Accreditation Commission (ETAC) of ABET, www.abet.org.

The engineering technology program at UNH Manchester offers only junior- and senior-level coursework. Students admitted to this program must have an appropriate associate degree from the New Hampshire Technical Institute or an equivalent institution accredited by the Engineering Technology Accreditation Commission (ETAC) of ABET, www.abet.org or show academic evidence of ability to successfully complete the requirements of this calculus-based program. After two major courses, non-matriculated students must either be admitted to the program or declare that they are not planning to pursue a degree in engineering technology.

The programs at UNH Manchester are designed to meet the needs of both full- and part-time students with a mix of classes scheduled during the day and in the evening.

Requirements

Students must complete a minimum of 128 credits and satisfy the University’s Discovery Program.

Mechanical Engineering Technology (MET) Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>COMP 425</td>
<td>Introduction to Programming</td>
<td>4</td>
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<tr>
<td>or COMP 415</td>
<td>Mobile Computing First and For Most</td>
<td></td>
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<tr>
<td>ET 625</td>
<td>Technical Communications</td>
<td>4</td>
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<tr>
<td>ET 635</td>
<td>Fluid Technology and Heat Transfer</td>
<td>4</td>
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<tr>
<td>ET 641</td>
<td>Production Systems</td>
<td>4</td>
</tr>
<tr>
<td>ET 644</td>
<td>Mechanical Engineering Technology Concepts in Analysis and Design</td>
<td>4</td>
</tr>
<tr>
<td>ET 674</td>
<td>Control Systems and Components</td>
<td>4</td>
</tr>
<tr>
<td>ET 675</td>
<td>Electrical Technology</td>
<td>4</td>
</tr>
<tr>
<td>ET 696</td>
<td>Topics in Mechanical Engineering</td>
<td>4</td>
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<tr>
<td>ET 733</td>
<td>Business Organization and Law</td>
<td>4</td>
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<tr>
<td>or COMP 560</td>
<td>Ethics and the Law in the Digital Age</td>
<td></td>
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<tr>
<td>ET 734</td>
<td>Economics of Business Activities</td>
<td>4</td>
</tr>
<tr>
<td>ET 751</td>
<td>Mechanical Engineering Technology Project</td>
<td>4</td>
</tr>
<tr>
<td>ET 781</td>
<td>Introduction to Automation Engineering</td>
<td>4</td>
</tr>
<tr>
<td>Discovery Course</td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>

| Credits | 60        |

Degree Plan

Sample Course Sequence

Course Title Credits

Third Year

Fall
ET 635 Fluid Technology and Heat Transfer 4
ET 641 Production Systems 4
MATH 426 Calculus II 4
Discovery Course 4

Credits 16

Spring
ET 625 Technical Communications 4
ET 644 Mechanical Engineering Technology Concepts in Analysis and Design 4
ET 674 Control Systems and Components 4
ET 675 Electrical Technology 4
Discovery Course 4

Credits 20

Fourth Year

Fall
ET 733 Business Organization and Law 4
ET 751 Mechanical Engineering Technology Project 4
ET 781 Introduction to Automation Engineering 4
Discovery Course 4

Credits 20

Spring
ET 696 Topics in Mechanical Engineering 4
ET 734 Economics of Business Activities 4
ET 751 Mechanical Engineering Technology Project 4
Discovery Course 4

Credits 20

Total Credits 76

1 All entering Engineering Technology students should have completed mathematics through differential and integral calculus, calculus I. All students must complete MATH 426 Calculus II within the first semester before taking advanced level Engineering Technology coursework.

2 Must satisfactorily complete CHEM 403 General Chemistry I or offer evidence of equivalent coursework.

For information about the mechanical engineering technology program (MET), contact Sean Tavares (Sean.Tavares@unh.edu). For admissions information, contact the Office of Admissions (unhm.admissions@unh.edu) at (603) 641-4150.