Course Information

INT101: Introduction to Industrial Technology
3 Credits
Fall 2019

Instructor Information
Edward Bass
240-500-2465
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Office: ATC212
Office hours: Tuesday 10am-12pm, Thursday 9am-12pm

Course Description
This course will give students a foundation in basic industrial and commercial technology. Topics include basic principles of mechanical and electrical systems, work safety, tools, fasteners, measuring devices, control systems, lubrication, pneumatics and fluid power.

Textbook and Course Materials
Textbook: Industrial Mechanics, Edition 4th, KEMP
ISBN 9780826937124 Publisher ATP
Workbook: Industrial Mechanics-WORKBOOK, ATP STAFF
Edition 4th ISBN 9780826937131 Publisher ATP

Student Learning Outcomes
- Understand the staffing of manufacturing organizations
- Learn how to work safely using appropriate PPE and lock out.
- Understand and verify basic manufacturing and assembly prints using measurements and critical analysis.
- Identify mechanical power components and their electrical analogs.
- Recognize the concepts and importance of proactive/predictive maintenance.
- List types and causes of failure of power components.
- Follow basic troubleshooting procedures for common mechanical systems and processes.
Definition of Credit Hour: Classroom Courses
To earn one academic credit at HCC, students are required to complete a minimum of 37.5 clock hours (45 fifty-minute academic hours) of coursework per semester. Those hours of coursework may be completed through a combination of hours in the classroom and hours outside the classroom. Certain courses may require more than the 37.5 minimum hours of coursework per credit. For most classes, students should expect to complete at least 2 hours of coursework outside of class for each hour of in-class coursework.

<table>
<thead>
<tr>
<th>Classwork type</th>
<th>Direct Faculty Instruction</th>
<th>Student Work Out of Classroom</th>
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</thead>
<tbody>
<tr>
<td>In-class lecture and lab</td>
<td>45 hours</td>
<td>75 hours</td>
</tr>
<tr>
<td>Reading</td>
<td>15 hours</td>
<td></td>
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<tr>
<td>Lab Assignment Packets</td>
<td>10 hours</td>
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<tr>
<td>Workbook Assignments</td>
<td>35 hours</td>
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<tr>
<td>Exam Preparation</td>
<td>15 hours</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>37.5 hours</strong></td>
<td><strong>75 hours</strong></td>
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Services for students with disabilities
Students may receive reasonable accommodations if they have a diagnosed disability and present appropriate documentation. Students seeking accommodations are required to contact the Disability Support Services (DSS) office as early as possible. Students may contact a DSS staff member for an appointment at dss@hagerstowncc.edu or at 240-500-2530.