MAC 161 Machine Shop Practices I

Instructor: Ed Morris (MSME)
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Office Location: Hastings 322
Office Hours: by appointment

Methods of Instruction: Lecture/Lab

Course Description: Introduces safety procedures, bench work, hand tools, precision measuring instruments, drill presses, cut-off saws, engine lathes, manual surface grinders, and milling machines. Part I of II.

Additional course description: This course teaches the student identification, nomenclature, and the safe use of basic machine tools and measuring instruments necessary to become a machinist.

Learning Outcomes:

- Demonstrate knowledge of proper safety procedures in the machine shop.
- Demonstrate the ability to use basic hand tools and measurement tools.
- Demonstrate the proper use of sawing machines, belt sanders, and pedestal grinders
- Demonstrate the proper use of drilling machines.
- Demonstrate the proper use of the engine lathe.
- Demonstrate the proper use of the vertical milling machine.

Prerequisite/Corequisite: School Principal Approval and/or Division Approval

Course Textbook(s): Precision Machining Technology, 3rd Edition

Peter J. Hoffman; Eric S. Hopewell

Student Workbook and Project Manual for Precision Machining Technology

Grading/Evaluation Procedures:

<table>
<thead>
<tr>
<th>Grading Scale:</th>
<th>Coursework:</th>
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<tbody>
<tr>
<td>A= 89.6 – 100.0</td>
<td>Employability 30%</td>
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<tr>
<td>B= 79.6 – 89.5</td>
<td>Machining Labs 30%</td>
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<tr>
<td>C= 69.6 – 79.5</td>
<td>Homework/Quizzes 10%</td>
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<tr>
<td>D= 59.6 – 69.5</td>
<td>Tests 15%</td>
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<tr>
<td>F= 0 – 59.5</td>
<td>Final Exam (NIMS Certification Exam I) 15%</td>
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