Fall 2004

BME 124T.01: Construction Basics I

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University of Montana - Missoula

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THE UNIVERSITY OF MONTANA
MISSOULA
COLLEGE OF TECHNOLOGY
INDUSTRIAL TECHNOLOGY DEPARTMENT

COURSE SYLLABUS

COURSE NUMBER AND TITLE: BME 124T Construction Basics I

DATE REVISED: February 2004

SEMESTER CREDITS: 4

CONTACT HOURS PER SEMESTER: 105
   Lecture hours per week: 6
   Lab hours per week: 0
   Shop hours per week: 8

PREREQUISITES: None

INSTRUCTOR: John Walker
E-MAIL: john.walker@mso.umt.edu
PHONE: (406) 243-7645
OFFICE LOCATION: T&T II, West Campus
OFFICE HOURS: To be announced

RELATIONSHIP TO PROGRAM:
This course gives the Building Maintenance Engineers the basic knowledge to maintain building roofing, flooring, and plumbing systems and to supervise professionals that are doing this type of contract work on the building.

COURSE DESCRIPTION:
Application of plumbing, masonry, roofing, and flooring principles and the identification and safe uses of associated tools and materials.

STUDENT PERFORMANCE OUTCOMES:

<table>
<thead>
<tr>
<th>Occupational Performance Objectives</th>
<th>Life-Long Learning Skill Codes*</th>
</tr>
</thead>
<tbody>
<tr>
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<td>[Include Code and Number]</td>
</tr>
</tbody>
</table>

Upon completion of this course, the student will be able to:

1. Understand the basic concepts of plumbing, masonry, roofing, and flooring.
2. Select the correct tool for the task to be completed.
3. Maintain and repair the included systems.
STUDENT PERFORMANCE ASSESSMENT METHODS AND GRADING PROCEDURES:

Grading Scale:
- 90% - 100% = A
- 80% - 89% = B
- 70% - 79% = C
- 60% - 69% = D
- less than 60% = F

Grade Breakdown:
- Tests 75% (Roofing test, Flooring test, Plumbing test)
- Lab Project 15% (Based on quality of work and difficulty of project)
- Attendance 10% (Attendance will be taken at the beginning of class and lab. If you are not there at that time you will be marked absent.)

Notes:
1. Tests will be as required.
2. Late tests will be reduced one letter grade.
3. Late tests will not be accepted after one week.
4. Safety glasses are required when in the lab.
5. Lab project materials are required.

HOW VARIOUS ASSESSMENT METHODS WILL BE USED TO IMPROVE THE COURSE:
1. Student course evaluations
2. Peer feedback
3. Advisory committee feedback

REQUIRED TEXT:  
- Roofing & Siding by Lane Publishing
- Flooring by Lane Publishing
- Modern Plumbing by E. Keith Blankenbaker

REQUIRED REFERENCE MATERIALS:  
- Masonry handout

COURSE OUTLINE:
I. Roofing
   A. Tools
   B. Materials
   C. Techniques

II. Flooring
   A. Tools
   B. Materials
   C. Techniques
III. Plumbing
   A. Safety
   B. Tools
   C. Piping materials and fittings
   D. Pipe and fitting installation
   E. Valves, faucets, and meters
   F. Plumbing fixtures
   G. Maintaining and repairing plumbing systems
<table>
<thead>
<tr>
<th>FOUNDATIONAL SKILLS:</th>
<th>COMPETENCIES:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BASIC SKILLS [BSKL]</strong></td>
<td><strong>RESOURCES [RSRC]</strong></td>
</tr>
<tr>
<td>1. Reading</td>
<td>1. Manages Time</td>
</tr>
<tr>
<td>2. Writing</td>
<td>2. Manages Money</td>
</tr>
<tr>
<td>3. Arithmetic/Mathematics</td>
<td>3. Manages Materials and Facility Resources</td>
</tr>
<tr>
<td>4. Listening</td>
<td>4. Manages Human Resources</td>
</tr>
<tr>
<td>5. Speaking</td>
<td></td>
</tr>
<tr>
<td><strong>THINKING SKILLS [THINK]</strong></td>
<td><strong>INTERPERSONAL SKILLS [IPS]</strong></td>
</tr>
<tr>
<td>1. Creative Thinking</td>
<td>Participates as Member of a Team</td>
</tr>
<tr>
<td>2. Decision Making</td>
<td>1. Teaches Others</td>
</tr>
<tr>
<td>3. Problem Solving</td>
<td>2. Serves Clients and Customers</td>
</tr>
<tr>
<td>4. Mental Visualization</td>
<td>3. Exercises Leadership</td>
</tr>
<tr>
<td>5. Knowing How to Learn</td>
<td>4. Negotiates to Arrive at a Decision</td>
</tr>
<tr>
<td>6. Reasoning</td>
<td>5. Works with Diversity</td>
</tr>
<tr>
<td><strong>PERSONAL QUALITIES [PQ]</strong></td>
<td></td>
</tr>
<tr>
<td>1. Responsibility</td>
<td><strong>INFORMATION [INFO]</strong></td>
</tr>
<tr>
<td>2. Self-esteem</td>
<td>1. Acquires and Evaluates Information</td>
</tr>
<tr>
<td>3. Sociability</td>
<td>2. Organizes and Maintains Information</td>
</tr>
<tr>
<td>4. Self-management</td>
<td>3. Interprets and Communicates Information</td>
</tr>
<tr>
<td>5. Integrity/Honesty</td>
<td>4. Uses Computers to Process Information</td>
</tr>
<tr>
<td><strong>SYSTEMS [SYS]</strong></td>
<td><strong>TECHNOLOGY [TECH]</strong></td>
</tr>
<tr>
<td>1. Understands Systems</td>
<td>1. Selects Technology</td>
</tr>
<tr>
<td>3. Improves and Designs Systems</td>
<td>3. Maintains and Troubleshoots Technology</td>
</tr>
</tbody>
</table>