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Fall 9-2004

### BME 124T.01: Construction Basics I

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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:**

Occupational Performance Objectives

Life-Long Learning Skill Codes\*  
[Include Code and Number]

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

*Life-Long Learning Skills Codes and Numbers	
<p style="text-align: center;"><b>FOUNDATIONAL SKILLS:</b></p> <p><b>BASIC SKILLS [BSKL]</b></p> <ol style="list-style-type: none"> <li>1. Reading</li> <li>2. Writing</li> <li>3. Arithmetic/Mathematics</li> <li>4. Listening</li> <li>5. Speaking</li> </ol> <p><b>THINKING SKILLS [THINK]</b></p> <ol style="list-style-type: none"> <li>1. Creative Thinking</li> <li>2. Decision Making</li> <li>3. Problem Solving</li> <li>4. Mental Visualization</li> <li>5. Knowing How to Learn</li> <li>6. Reasoning</li> </ol> <p><b>PERSONAL QUALITIES [PQ]</b></p> <ol style="list-style-type: none"> <li>1. Responsibility</li> <li>2. Self-esteem</li> <li>3. Sociability</li> <li>4. Self-management</li> <li>5. Integrity/Honesty</li> </ol>	<p style="text-align: center;"><b>COMPETENCIES:</b></p> <p><b>RESOURCES [RSRC]</b></p> <ol style="list-style-type: none"> <li>1. Manages Time</li> <li>2. Manages Money</li> <li>3. Manages Materials and Facility Resources</li> <li>4. Manages Human Resources</li> </ol> <p><b>INTERPERSONAL SKILLS [IPS]</b></p> <p>Participates as Member of a Team</p> <ol style="list-style-type: none"> <li>1. Teaches Others</li> <li>2. Serves Clients and Customers</li> <li>3. Exercises Leadership</li> <li>4. Negotiates to Arrive at a Decision</li> <li>5. Works with Diversity</li> </ol> <p><b>INFORMATION [INFO]</b></p> <ol style="list-style-type: none"> <li>1. Acquires and Evaluates Information</li> <li>2. Organizes and Maintains Information</li> <li>3. Interprets and Communicates Information</li> <li>4. Uses Computers to Process Information</li> </ol> <p><b>SYSTEMS [SYS]</b></p> <ol style="list-style-type: none"> <li>1. Understands Systems</li> <li>2. Monitors and Corrects Performance</li> <li>3. Improves and Designs Systems</li> </ol> <p><b>TECHNOLOGY [TECH]</b></p> <ol style="list-style-type: none"> <li>1. Selects Technology</li> <li>2. Applies Technology</li> <li>3. Maintains and Troubleshoots Technology</li> </ol>