Course Title/Number | Safety 372 – Safety and Industrial Technology (3hrs)
---|---
Semester/Year | Spring 2013
Days/Time | M,W 200-315
Location | Gullickson Hall, Room 211
Instructor | James D. McIntosh, CIH, CSP
Office | Engineering Offices Gullickson Hall, Room 3H
Phone | 304.696.3113 & 304.746.2039
E-Mail | mcintoshj@marshall.edu
Office/Hours | (M 1-2)(W 1-2)(T 2-5)

University Policies
By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy be going to [www.marshall.edu/academic-affairs](http://www.marshall.edu/academic-affairs) and clicking on “Marshall University Policies.” Or, you can access the policies directly by going to [http://www.marshall.edu/academic-affairs/?page_id=802](http://www.marshall.edu/academic-affairs/?page_id=802)

Academic Dishonesty/ Excused Absence Policy for Undergraduates/ Computing Services Acceptable Use/ Inclement Weather/ Dead Week/ Students with Disabilities/ Academic Forgiveness/ Academic Probation and Suspension/ Academic Rights and Responsibilities of Students/ Affirmative Action/ Sexual Harassment

Course Description: From Catalog

Industrial processes, graphics, materials, and dynamics, instrumentation, and design factors involving safety.

The table below shows the following relationships: How each student learning outcomes will be practiced and assessed in the course.

<table>
<thead>
<tr>
<th>Course Student Learning Outcomes</th>
<th>How Practiced in this Course</th>
<th>How Assessed in this Course</th>
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<tbody>
<tr>
<td>Demonstrate understanding of OSHA General Industry safety and other applicable industry standards.</td>
<td>Use of OSHA’s website to find standards and discuss these standards in class and apply them to hazardous situations.</td>
<td>Successful completion of exams (70%). (ABET Program Objectives A, C, G &amp; J).</td>
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<tr>
<td>Demonstrate the ability to recognize general industry site safety hazards using OSHA and other standards.</td>
<td>Completion of videos and oral discussion of the hazards viewed and discussion of ways to prevent these hazards.</td>
<td>Successful completion of team project (70%). (ABET Program Objectives A, D, G &amp; J).</td>
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<tr>
<td>Develop, design and apply appropriate control techniques for general industry safety hazards.</td>
<td>Completing different requirements and objectives within the project, such as critically thinking of ways to design safety controls on a specific topic.</td>
<td>Successful completion of project (70%) and Exams (70%). (ABET Program Objectives A, C, D, G, &amp; J).</td>
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Required Texts, Additional Reading, and Other Materials

1. None

Course Requirements / Prerequisites

SFT 235 with a minimum grade of C.
MTH 121 or MTH 123 or MTH 127 or MTH 130 or MTH 122 or MTH 140 or MTH 229 or MTH 229H

Ability to use basic computer skills to conduct research on the internet. The University Acceptable Computer use Policy will be followed and can be found at http://www.marshall.edu/ucs/CS/acceptuse.asp

Grading Policy

The grading scale is as follows.
- A 90-100%
- B 80-89%
- C 70-79%
- D 60-69%
- F below 59%

The grade will be determined from the following.
1. 1st Exam 100 points
2. 2nd Exam 100 points
3. Final Exam 140 points
4. Team Project 40 points
4. Participation (Individual & group - Instructor) 20 points

TOTAL 400 points

Attendance Policy

Role will not be taken. Attending class and participating in class discussions are part of the course and is your responsibility. There will be no makeup quizzes, assignments or in class group assignments!!! University excused absence paperwork will be required to allow for the project or missed exam to completed outside of the scheduled time. Please be prompt in notifying me if you have an excused absence.

Note: Wednesday April 3, 2013 is reserved for Assessment day. Regular classes will not meet, but students are expected to participate in University – Wide Assessment activities. Students may obtain a list of activities from their respective department chairs. Undecided students should go to their college offices for a list Assessment day activities. Regularly scheduled classes will resume at 4:00pm.


Plagiarism/Academic Honesty/Academic Integrity
University policies shall be followed. For the complete policy please refer to the Academic Dishonesty Policy provided in: http://www.marshall.edu/cataolog/undergraduate/ug_07-08.pdf

Students with Disabilities
Students with disabilities who believe that they may need special accommodations are encouraged to contact the instructor as soon as possible. Please refer to: the University http://www.marshall.edu/disabled for additional information.
Safety 372 Safety and Industrial Technology
Spring 2013

Week 1: Introduction to the Course

Week 2

Week 3

Week 4

Week 5

Week 6: Exam 1

Week 7

Week 8

Week 9

Week 10: Spring Break

Week 11

Week 12: Exam 2

Week 13

Week 14

Week 15: Project Presentations

Week 16

Week 17: Final Exam (May 6)
SFT 372 Topics

**Manufacturing Processes** (primarily videos & discussion)

1. Turning the Lathe; Punch Presses
2. Sheet Metal Shearing & Bending; Stamping Presses, Stamping Dies & Processes
3. Casting; Forging
4. Extrusion Processes; Welding

**General Industry Safety**

1. Intro to OSHA (1903)
2. OSHA Record Keeping (Subpart A,B,C & D)
3. Walking Working Surfaces (Subpart D)
5. Powered Platforms, Manlifts, and Vehicle Mounted Platforms (Subpart F)
6. Hazardous Materials: compressed gasses, flammable & combustible liquids & intro to PSM (Subpart H)
7. Personal Protective Equipment: respiratory protection (Subpart I)
8. Permit Required Confined Spaces (Subpart J 1910.146)
9. The Control of Hazardous Energy (Subpart J 1910.147)
10. Fire Protection (Subpart L)
11. Materials Handling & Storage- Powered Industrial Trucks (Subpart N 1910.178)
12. Machinery & Machine Guarding (Subpart O)
13. Welding Cutting & Brazing (Subpart Q)
14. Electrical (Subpart S)
15. Hazard Communication (Subpart Z)
16. Bloodborne Pathogens (Subpart Z)

**Other**

1. Introduction to the Safety Profession and Certification