Marshall University
Syllabus Template

Course Title/Number | Industrial Fire Protection /SFT 340
Semester/Year | Fall/2013
Days/Time | Tuesday & Thursday /2:00 – 3:15PM
Location | Harris Hall Room 303
Instructor | Clair Roudebush
Office | Gullickson Room 12
Phone | 304-696-3018
E-Mail | roudebush@marshall.edu
Office/Hours | Monday 4:30-6:30
| Tuesday 1-2 & 3-4
| Thursday 1-2 & 3-4

University Policies
By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to 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

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
An introductory course that explores the relationship between engineering & fire prevention. Topics include: behavior/nature of fire, sprinkler systems, water supplies, fire extinguishers and other systems.

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 students will practice each outcome in this Course</th>
<th>How student achievement of each outcome will be assessed in this Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students will 1) Have an ability to apply knowledge of mathematics, science and applied sciences</td>
<td>Group Student Work, Individual Student Work, Group Writing Activities, Individual Student Writing Activities, Examinations, Group Student</td>
<td>A Survey Questionnaire will be administered and the end of the semester to determine</td>
</tr>
<tr>
<td>2) Have an ability to design and conduct experiments as well as to analyze interpret data</td>
<td>Group Student Work, Individual Student Work, Group Writing Activities, Individual Student Writing Activities, Examinations, Group Student</td>
<td>A Survey Questionnaire will be administered and the end of the semester to determine</td>
</tr>
<tr>
<td>3) Have an ability or formulate or design a system, process or program to meet desired needs</td>
<td>Group Student Work, Individual Student Work, Group Writing Activities, Individual Student Writing Activities, Examinations, Group Student</td>
<td>A Survey Questionnaire will be administered and the end of the semester to determine</td>
</tr>
</tbody>
</table>
4) Have an ability to function on multidisciplinary teams

5) An ability to identify and solve applied science problems

6) Have an understanding of professional and ethical responsibilities

7) Have an ability to communicate effectively

8) Have a broad education necessary to understand the impact of solutions in a global and societal context

9) Have an recognition of the need for an ability to engage in life-long learning

10) Have a knowledge of contemporary issues

11) Have an ability to use the techniques, skills, and modern scientific and technical tools necessary for professional practice

13) Anticipate, recognize, evaluate, and develop control strategies for hazardous conditions and work practices

14) Demonstrate the application of business and risk management concepts

15) Demonstrate an understanding of the fundamental aspects of safety, industrial hygiene, environmental science, fire science, hazardous materials, emergency management, ergonomics, and/or human factors

16) Design and evaluate safety, health, and/or environmental programs

17) Apply adult learning theory to safety training methodology

Required Texts, Additional Reading, and Other Materials

1. No Textbook Required

Course Requirements / Due Dates

Interim Examinations - There will be two interim exams during this semester. Only authorized absences,
with prior approval by Dr. Roudebush, will be accepted for make-up examinations. Make-up exams may or may not be of the same proportioned variety.

*Comprehensive Fire Safety Inspection Report* - This is a group activity with three students per group. This activity entails conducting a Fire Safety Inspection of an assigned building on the Marshall University campus. Then prepare a written report which discusses the building’s fire protection features/deficiencies and evaluates management’s fire safety planning & control.

*Class Participation, In-Class Activities & Homework* – The criteria used to evaluate this student activity includes: - Student’s successful completion of in-class activities & homework
- student’s contribution to classroom discussions throughout the semester
- student’s ability to raise relevant topical questions

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**Grading Policy**

<table>
<thead>
<tr>
<th>Student Activity</th>
<th>Individual Score</th>
<th>Weighted %</th>
<th>Weighted % Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interim Exam</td>
<td></td>
<td>x 0.35</td>
<td></td>
</tr>
<tr>
<td>Final Exam</td>
<td></td>
<td>x 0.35</td>
<td></td>
</tr>
<tr>
<td>Fire Safety Inspection Report</td>
<td></td>
<td>x 0.20</td>
<td></td>
</tr>
<tr>
<td>Class Participation, In-class Exercises &amp; Homework</td>
<td></td>
<td>x 0.10</td>
<td></td>
</tr>
<tr>
<td><strong>Grand Total =</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Grading Scale**

<table>
<thead>
<tr>
<th>% Value</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>90% &amp; Above</td>
<td>A</td>
</tr>
<tr>
<td>80% - 89%</td>
<td>B</td>
</tr>
<tr>
<td>70% - 79%</td>
<td>C</td>
</tr>
<tr>
<td>60% - 69%</td>
<td>D</td>
</tr>
<tr>
<td>59% &amp; Below</td>
<td>F</td>
</tr>
</tbody>
</table>

**Attendance Policy**

See Marshall University Excused Absence Policy

[Note that for undergraduate courses, the attendance policy may not violate the University’s excused absence policy.]

**Course Schedule**

Topic #1 – list the major historical fire events and discuss their relevance to the development of industrial fire protection.

Topic #2 – list the major components of fire and describe their interactive relationship

Topic #3 – be able to inspect a building for life safety code violations

Topic #4 – be able to inspect a building for building code violations

Topic #5 – be able to inspect and review placement requirements of portable fire extinguishers

Topic #6 – be able to inspect fire detections and fixed suppression systems.

Topic #7 – be able to inspect storage requirements for flammable liquids