4-2-2001

SR-00-01-(33) 74 (CC)

Marshall University

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CURRICULUM COMMITTEE
RECOMMENDATION

SR-00-01-(33) 74 (CC)

Recommends approval of the attached CURRICULUM UPDATE/REVISION for the B.S. Degree in Safety Technology within the College of Information Technology and Engineering.

RATIONALE:

With the creation of the College of Information Technology and Engineering and Safety Technology's subsequent move from the College of Education to the new college, changes have been required to revamp the Safety curriculum. Some minor changes were necessary for accreditation by ABET (Accreditation Board for Engineering & Technology) and these subsequent changes are reflected in this updated Bachelor of Science curriculum. With the approval of the Chemistry Department, we have added Chemistry 204 to the curriculum to satisfy ABET accreditation standards that require the Safety Technology Program to have a stand-alone Organic Chemistry course for the students. The changes were a collaborative effort between the Safety Technology faculty and the Chair, Division of Environmental Science and Safety Technology.

Changes will apply to students entering the program upon acceptance of curriculum changes and printing of the new Undergraduate Catalog. Current students will have the option of continuing under the previous program or electing to follow the updated curriculum; course substitutions will be made as necessary to accommodate students during the transition period.

FACULTY SENATE PRESIDENT:

APPROVED
BY SENATE: Donnie Donahue               DATE: 4/2/2001

DISAPPROVED
BY SENATE: _______________________________ DATE:__________________

UNIVERSITY PRESIDENT:

APPROVED: _______________ DATE: 4/3/01

DISAPPROVED: _______________________________ DATE:__________________

COMMENTS: ____________________________________________

_____________________________________________________

_____________________________________________________

_____________________________________________________

_____________________________________________________
MEMORANDUM

TO: Dr. Richard Lemke, Chair UG Curriculum Committee
FROM: Dr. D. Allan Stern, Program Coordinator
       Safety Technology Program
       College of Information Technology and Engineering
DATE: January 31, 2001
RE: Request for Curriculum Updating/Revision

With the creation of the College of Information Technology and Engineering and Safety Technology’s subsequent move from the College of Education to the new college, changes have been required to revamp the Safety curriculum. Some minor changes were necessary for accreditation by ABET (Accreditation Board for Engineering & Technology) and these subsequent changes are reflected in this updated Bachelor of Science curriculum. With the approval of the Chemistry Department, we have added Chemistry 204 to the curriculum to satisfy ABET accreditation standards that require the Safety Technology Program to have a stand-alone Organic Chemistry course for the students. The changes were a collaborative effort between the Safety Technology faculty and the Chair, Division of Environmental Science and Safety Technology.

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Signatures

Division of Chair
Registrar
Librarian
College Curriculum Chair
College Dean
University Curriculum Committee Chair
Faculty Senate President
Vice President/Academic Affairs
College of Information Technology  
And Engineering  

B.S. Degree in Safety Technology

A. General Requirements .......................................................... Total 32 to 37 Hrs

I. Orientation: UNI 101 ............................................................ 1 Hr

II. Fine Arts/Humanities:  
Student should choose ONE course from the following:

Art OR Theatre OR Music OR Religion OR  
Philosophy; Choose one of these ethics courses (302, 303 or 304)  

III. Communications Studies .................................................. 15 Hrs

ENG 101 and ENG 102 OR ENG 201(H) and ENG 354 OR ENG 302  

CMM 103 and 3 hrs  
Choose either: CMM 202 OR CMM 207 OR CMM 319  

IV. Mathematics: ................................................................. 5 to 9 Hrs

Note: The mathematics the student must take will depend upon several factors such as students ACT score and mathematics proficiency. Students may need to take additional math courses to bring them up to speed. (It is very important to talk to your advisor).

19 or 20 Math ACT

1. MTH 127 (5hrs) and MTH 122 (3) OR 8 Hrs

2. MTH 123 (3hrs) and MTH 130 (3hrs) and MTH 122 (3hrs) 9 Hrs

21 or higher on Math ACT

3. MTH 132 (5 hrs) OR 5 Hrs

4. MTH 130 (3 hrs) and MTH 122 (3 hrs) 6 Hrs

Math 140** or Math 229 should also be considered if student is thinking of going on to Graduate School in the future. This is a pre-requisite to some graduate courses.

V. Social Sciences ................................................................. 9 Hrs

Multicultural  
SOC 200  

International  
Select any course from the approved list.  
The safety program recommends: GEO 100 or 203
Note: The Marshall Plan requires the student to take a Writing Intensive Course (WIC). It is suggested that the student take such a course when they take an international course. Or another WIC should be chosen, like integrated science.

** Students considering working on an MS degree in Industrial Hygiene or Ergonomics will be required to take Math 140, Applied Calculus as a prerequisite for program admission.

Because the B.S. degree is an accredited program by RAC/ABET, students must be able to demonstrate "proficiency" in the areas of mathematics & statistics; chemistry, physics, and sciences; communication studies; psychology and physiology and major field of study, i.e. SAFETY. To demonstrate proficiency in the areas, a grade no less than a "C" is required. Students are reminded that a 2.0 GPA overall and in their area of specialization is required.

B. Basic Studies for Safety Technology Program ............................................. 50 Hrs

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 211</td>
<td>Principles of Chemistry I and Lab I</td>
<td>3</td>
</tr>
<tr>
<td>CHM 217</td>
<td>Principles of Chemistry II and Lab II</td>
<td>2</td>
</tr>
<tr>
<td>CHM 212</td>
<td>Principles of Chemistry II and Lab II</td>
<td>3</td>
</tr>
<tr>
<td>CHM 218</td>
<td>Principles of Chemistry II and Lab II</td>
<td>2</td>
</tr>
<tr>
<td>CHM 204</td>
<td>General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>PHY 201</td>
<td>General Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHY 202</td>
<td>General Physics Lab I</td>
<td>1</td>
</tr>
<tr>
<td>PHY 203</td>
<td>General Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHY 204</td>
<td>General Physics Lab II</td>
<td>1</td>
</tr>
<tr>
<td>BSC 104</td>
<td>OR</td>
<td>4</td>
</tr>
<tr>
<td>BSC 120</td>
<td>OR</td>
<td>4</td>
</tr>
</tbody>
</table>

Any other College of Science Course

With advisor approval

Management: ................................................................. 3 Hrs

Student should choose ONE course from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 100</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>MGT 320</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 419</td>
<td>Business and Society</td>
<td>3</td>
</tr>
<tr>
<td>MGT 424</td>
<td>Personnel Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 425</td>
<td>Industrial Relations</td>
<td>3</td>
</tr>
</tbody>
</table>

Statistics Courses.......................................................... 3 Hrs

Student should choose ONE course from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 225</td>
<td>Introductory Statistics</td>
<td>3</td>
</tr>
<tr>
<td>PSY 223</td>
<td>Elementary Behavioral Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MGT 218</td>
<td>Business Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Psychology Courses....................................................... 6 Hrs

Student should choose ONE course from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 201</td>
<td>General Psychology and</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Introduction to Industrial Organizational Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

Anatomy/Physiology Courses........................................... 3 Hrs

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 201</td>
<td>Scientific Foundations</td>
<td>3</td>
</tr>
</tbody>
</table>

Engineering Related Courses............................................ 6 Hrs

Student should choose ONE from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EG 101</td>
<td>Engineering Graphics or</td>
<td>3</td>
</tr>
<tr>
<td>EG 106</td>
<td>Computer Aided Drafting CTC</td>
<td>3</td>
</tr>
</tbody>
</table>
Student should choose ONE course of the following:

- EG 221 Engineering Economy 3 Hrs
- IST 211 Modern Production 3
- IST 350 Manufacturing 3
- IST 450 Manufacturing Processes 3
- EM 213 Static's (Prerequisite: MTH 229) 3
- EE 201 Circuits I (Prerequisite: MTH 229) 4

C. Professional Safety Core ........................................................... 33 Hrs

Course in this area MAY NOT be completed under the credit/non-credit option, except for internship.

- SED 235 Introduction to Safety Education 3 Hrs
- SED 340 Industrial Fire Prevention 3
- SED 372 Safety & Industrial Technology 3
- SED 373 Principles of Ergonomics 3
- SED 373L Principles of Ergonomics Lab 1
- SED 454 Industrial Environmental Protection 3
- SED 454L Industrial Environmental Protection Lab 2
- SED 475 Systems Safety 3
- SED 489 Process Safety Management 3
- SED 498 Environmental Safety and Health Legislation 3
- SED 499 Organization, Administration and Supervision of Safety Programs 3
- SED 490 (Capstone) Internship 3

D. Options: Student must choose ONE of the following options .......... 12 Hrs

- Occupational Safety Option (Select 12 hours)
- Mining Safety Option (Select 12 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SED 375 Construction Safety I</td>
<td>3</td>
<td>MSF 410 Survey of Mining</td>
<td>3</td>
</tr>
<tr>
<td>SED 378 Safety Evaluation</td>
<td>3</td>
<td>MSF 411 Mine Safety Program Analysis</td>
<td>3</td>
</tr>
<tr>
<td>SED 465 Accident Investigation</td>
<td>3</td>
<td>MSF 412 Mine Safety &amp; Health Legislation</td>
<td>3</td>
</tr>
<tr>
<td>SED 497 Occ. Safety &amp; Health Program</td>
<td>3</td>
<td>MSF 413 Mine Safety &amp; Health Management</td>
<td>3</td>
</tr>
<tr>
<td>SED 480 - 483 Special Topics</td>
<td>3</td>
<td>MSF 480 - 483 Special Topics</td>
<td>1 - 4</td>
</tr>
<tr>
<td>SED 485 - 488 Independent Study</td>
<td>1 - 4</td>
<td>MSF 485 - 488 Independent Study</td>
<td>1 - 4</td>
</tr>
<tr>
<td>SED 491 - 494 Workshop</td>
<td>1 - 4</td>
<td>MSF 491 - 494 Workshop</td>
<td>1 - 4</td>
</tr>
</tbody>
</table>

Other Courses as approved by your advisor

TOTAL HOURS: 128 to 132 Hrs