

4-2-2001

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

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Recommended Citation

Marshall University, "SR-00-01-(33) 74 (CC)" (2001). *Recommendations*. 642.
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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.

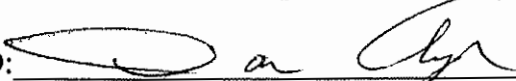
Changes will apply to students entering the program upon acceptance of curriculum changes and printing of the new Undergraduate Catalog. Current students will have the option of continuing under the previous program or electing to follow the updated curriculum; course substitutions will be made as necessary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

FACULTY SENATE PRESIDENT:

APPROVED
BY SENATE: Donna Donatelli DATE: 4/2/2001

DISAPPROVED
BY SENATE: _____ DATE: _____

UNIVERSITY PRESIDENT:

APPROVED:  DATE: 4/3/01

DISAPPROVED: _____ DATE: _____

COMMENTS: _____



COLLEGE OF INFORMATION TECHNOLOGY AND ENGINEERING

CENTER FOR ENVIRONMENTAL, GEOTECHNICAL, AND APPLIED SCIENCES
400 Hal Greer Boulevard
Huntington, West Virginia 25755-2585
304/696-5453
304/696-5454 FAX

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.

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.

Signatures

Table with 2 columns: Position and Signature/Date. Rows include Division of Chair, Registrar, Librarian, College Curriculum Chair, College Dean, University Curriculum Committee Chair, Faculty Senate President, and Vice President/Academic Affairs. Includes dates like 01/31/01, 2/5/01, 2/12/01, 2/13/01, and MAR 0 2 2001.

College of Information Technology And Engineering

B.S. Degree in Safety Technology

A. General RequirementsTotal 32 to 37 Hrs

I. Orientation: UNI 101 1 Hr

II. Fine Arts/Humanities: 3 Hrs

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 3 hrs

ENG 102 OR 3 hrs

ENG 201(H) and

ENG 354 OR 3 hrs

ENG 302

CMM 103 and 3 hrs

Choose either:

CMM 202 OR CMM 207 OR 3 hrs

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 3 hrs
SOC 200

International 6 hrs

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

CHM 211	Principles of Chemistry I and	3 Hrs
CHM 217	Principles of Chemistry Lab I	2
CHM 212	Principles of Chemistry II and	3
CHM 218	Principles of Chemistry Lab II	2
CHM 204	General Chemistry II	3
PHY 201	General Physics I	3 Hrs
PHY 202	General Physics Lab I	1
PHY 203	General Physics II	3
PHY 204	General Physics Lab II	1
BSC 104	OR	4
BSC 120		
Any other College of Science Course With advisor approval		4
Management:		3 Hrs
Student should choose ONE course from the following:		
MGT 100	Introduction to Business	3 Hrs
MGT 320	Principles of Management	3
MGT 419	Business and Society	3
MGT 424	Personnel Management	3
MGT 425	Industrial Relations	3
Statistics Courses.....		3 Hrs
Student should choose ONE course from the following:		
MTH 225	Introductory Statistics	3 Hrs
PSY 223	Elementary Behavioral Statistic	3
MGT 218	Business Statistics	3
Psychology Courses.....		6 Hrs
PSY 201	General Psychology <u>and</u>	3 Hrs
PSY 420	Introduction to Industrial Organizational Psychology	3
Anatomy/Physiology Courses.....		3 Hrs
PE 201	Scientific Foundations	3 Hrs
Engineering Related Courses.....		6 Hrs
Student should choose ONE from the following:		
EG 101	Engineering Graphics or	3 Hrs
EG 106	Computer Aided Drafting CTC	3

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)	
SED 375 Construction Safety I	3 Hrs	MSF 410 Survey of Mining	3 Hrs
SED 378 Safety Evaluation	3	MSF 411 Mine Safety Program Analysis	3
SED 465 Accident Investigation	3	MSF 412 Mine Safety & Health Legislation	3
SED 497 Occ. Safety & Health Program	3	MSF 413 Mine Safety & Health Management	3
SED 480 – 483 Special Topics	3	MSF 480 – 483 Special Topics	1 - 4
SED 485 – 488 Independent Study	1 - 4	MSF 485 – 488 Independent Study	1 - 4
SED 491 – 494 Workshop	1 - 4	MSF 491 – 494 Workshop	1 - 4

Other Courses as approved by your advisor

TOTAL HOURS: 128 to 132 Hrs