4-2-2001

SR-00-01-(35) 76 (CC)

Marshall University

CURRICULUM COMMITTEE RECOMMENDATION

SR-00-01-(35) 76 (CC)

Recommends approval of the listed **COURSE CHANGES** for the **College of Information Technology and Engineering:**

1. EE 201 Circuits I
   Change in alpha designator **FROM:** EE **TO:** ENGR
   Rationale: All courses in Engineering are being grouped under a common alpha-designator.
   -AND-
   Change in prerequisite and catalog description **FROM:** Fundamental concepts. Basic circuit laws. Principles of electrical measurements. Introduction to network theory. Computer applications. 3 lec-3 lab. (PR or CR: MTH 231). **TO:** Definition of fundamental concepts and components, including operational amplifiers. Steady-state ac and dc analysis using the basic laws of circuits. Principles of electrical measurements. Single-phase ac power. Computer applications. 3 lec-3 lab. (PR: MTH 229).
   Rationale: MTH 229 is a more accurate prerequisite and is consistent with requirements for similar courses at schools with which we have articulation agreements. The updated course description more accurately defines the list of topics covered.

2. EE 202 Circuits II
   Change in alpha designator **FROM:** EE **TO:** ENGR
   Rationale: All courses in Engineering are being grouped under a common alpha-designator.
   -AND-
   Change in prerequisite and catalog description **FROM:** Continuation of Circuits I. Sinusoidal steadystate network theorems. Fourier methods. Laplace transforms. Computer applications. 3 lec – 3 lab. (PR EE 201 PR or CR MTH 335). **TO:** The transient response of first- and second-order systems. Balanced three-phase systems. Mutual inductance, transformers, resonance, and two-port networks. 3 lec – 3 lab. (PR ENGR 201 or EE 201and MTH 230).
   Rationale: MTH 230 is a more accurate prerequisite and is consistent with requirements for similar courses at schools with which we have articulation agreements. The updated course description more accurately defines the list of topics covered.

3. EE 204 Introductory Digital Logic Design
   Change in alpha designator **FROM:** EE **TO:** ENGR
   Rationale: All courses in Engineering are being grouped under a common alpha-designator.
   -AND-
   Change in title to: Introduction to Digital Systems
   Rationale: The new title more accurately reflects course content.
   -AND-
   Change in prerequisite and catalog description **FROM:** Digital systems, Number Systems; Boolean Switching Algebra; Logic Design; Sequential Networks; Digital Subsystems. (PR: CSD 203 or CSD 205; CR: MTH 131). **TO:** Digital components and systems; Boolean switching algebra; the analysis and design of combinational and sequential circuits; introduction to computer architecture. 3 lec. (PR: ENGR 201 or EE 201).
   Rationale: The updated course description and prerequisite changes, more accurately defines the course content and skills required to complete the course successfully.

4. EG 107 Engineering Computations
Change in alpha designator **FROM:** EG **TO:** ENGR
Rationale: All courses in Engineering are being grouped under a common alpha-designator.
-AND-
Change in title to: Intro to Engineering
Rationale: The new title more accurately reflects course content.
-AND-
Change in prerequisite and catalog description **FROM:** Use of electronic calculators, format for engineering computations; significant figures and dimensional analysis; graphs; computer applications. 1 lec. – 2 lab. (PR or CR: MTH 122 or 131). **TO:** An introduction to the engineering profession; effective use of electronic calculators; significant figures and dimensional analysis; proper format for engineering computations; typical engineering problems and computations. 2 lec. (PR or CR: MTH 122 and MTH 130 or MTH 132).
Rationale: MTH 131 is not listed in the *Undergraduate Catalog*, this change reflects the needed mathematical prerequisites.

5. ENM 216 Mechanics of Deformable Bodies
Change in alpha designator **FROM:** ENM **TO:** ENGR
Rationale: All courses in Engineering are being grouped under a common alpha-designator.
-AND-
Change in title to: Mechanics of Materials
Rationale: The proposed title is more consistent with titles used at other institutions and by textbook publishers.
-AND-
Change in credit hours **FROM:** 4 **TO:** 3
Rationale: The reduction in credit hours makes the course consistent with the credit hours of similar courses awarded at those schools with which we have articulation agreements.
-AND-
Change in prerequisite and catalog description **FROM:** Strength of materials, shear and moment diagrams, stresses in shafts, beams and columns; combined stresses, deflections; computer applications. 4 lec. (PR: EM 213; PR or CR: MTH 231). **TO:** Strength of materials; shear and moment diagrams; stresses in shafts, beams and columns; combined stresses; deflections; 3 lec. (PR: ENGR 213 or ENM 213 and MTH 230).
Rationale: The updated prerequisites and reduction in credit hours are more consistent with the prerequisites and credit hours of similar courses at those schools with which we have articulation agreements.

6. ENM 218 Fluid Mechanics
Change in alpha designator **FROM:** ENM **TO:** ENGR
Rationale: All courses in Engineering are being grouped under a common alpha-designator.
-AND-
Change in credit hours **FROM:** 4 **TO:** 3
Rationale: The course has no laboratory component.
-AND-
Change in prerequisite and catalog description **FROM:** Principles of hydrostatics and hydrodynamics; computer applications. 3 lec. – 3 lab. (PR or CR: EM 214 and MTH 231). **TO:** Principles of hydrostatics and hydrodynamics; computer applications. 3 lec. (PR: ENGR 214 or ENM 214 and MTH 230).

Rationale: The updated prerequisites are more consistent with the prerequisites for similar courses at those schools with which we have articulation agreements.

FACULTY SENATE PRESIDENT:

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

DISAPPROVED
BY SENATE: _____ DATE: _____

UNIVERSITY PRESIDENT:

APPROVED: _____ DATE: 4/3/01

DISAPPROVED: _____ DATE: _____

COMMENTS: _____