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SR-03-04-36 CC

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## CURRICULUM COMMITTEE RECOMMENDATION

**SR-03-04-36 CC**

Recommends approval of the listed **COURSE CHANGES** for the following colleges and/or schools:

### ❖ COLLEGE OF INFORMATION TECHNOLOGY & ENGINEERING

ENGR 107 Introduction to Engineering

Change in content: **FROM:** see catalog description below. **TO:** see catalog description below.

Rationale: see below.

**-AND-**

Change in credit hours: **FROM:** 2 **TO:** 3

Rationale: The additional credit is justified by the additional material related to engineering graphics and computer-aided design and drafting.

**-AND-**

Change in catalog description: **FROM:** Introduction to Engineering 2 hrs. I – 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) **TO:** Introduction to Engineering 3 hrs. I, II – An introduction to the engineering profession and engineering disciplines; effective problem solving techniques; the engineering design process and team projects; introduction to engineering graphics and computer-aided design and drafting. 2 lec-2 lab. (PR or CR: MTH 122 and MTH 130 or MTH 132 or higher)

Rationale: These changes are consistent with the requirement of similar freshman-level courses required by other engineering programs and the trend to eliminate engineering graphics as a stand-alone course.

ENGR 204 Introduction to Digital Systems

Change in content: **FROM:** see catalog description below. **TO:** see catalog description below.

Rationale: see below.

**-AND-**

Change in credit hours: **FROM:** 3 **TO:** 4

Rationale: The additional credit is justified by the addition of a laboratory component.

**-AND-**

Change in catalog description: **FROM:** Introduction to Digital Systems 3 hrs. II – 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) **TO:** Introduction to Digital Systems 4 hrs. II – Number systems, digital components and systems; Boolean switching algebra; the analysis and design of combinational and sequential circuits; introduction to computer architecture. Laboratory exercises to reinforce lecture topics. 3 lec. – 2 lab. (PR: ENGR 201 or consent)

Rationale: The additional of a laboratory component is consistent with the requirements at other schools to which students transfer.

## ❖ COLLEGE OF LIBERAL ARTS

ENG 302 Research-Intensive Writing  
Change in title: **TO:** Research-Based Composition

Rationale: To clarify course content and purpose. ENG 302 serves as an upper-class version of the course ENG 102 required in Marshall's composition sequence, and students sometimes mistakenly enroll in it as if it were an elective that would fulfill 300-level general education requirements in literature or advanced writing.

GEO 101 Physical Geography  
Change in credit hours: **FROM:** 4 **TO:** 3

Rationale: To bring us in line with all other science courses on campus – a 3 hour lecture with a co-requisite 1 hour lab. This course change is accompanied by a 1-hour lab course addition.

**-AND-**

Change in catalog description: **FROM:** (no text provided) **TO:** Add “co-requisite GEO 101L”  
Rationale: None given.

GEO 429 Fundamentals of Geographic Information Systems (GIS)  
Change in title: **TO:** Fundamentals of GIS – Vector Analysis

Rationale: Better reflects course content and GIS curriculum in Geography.

**-AND-**

Change in content: **FROM:** Cartographic principles and introduction to GIS analysis. **TO:** GIS vector analysis.

Rationale: Old content, cartographic principles and introduction to GIS analysis, will be covered in new course GEO 301; new content, GIS vector analysis, represents changes in Geography curriculum in response to student need for more GIS coursework and more advanced GIS analysis.

**-And-**

Change in catalog description: **FROM:** Basic geodesy and application of cartographic principles to automated mapping and GIS. **TO:** Introduction to GIS vector analysis, beginning with the vector data model, and including buffering, overlay analysis, geocoding, and network analysis. Prerequisite: GEO 301 or permission.

Rationale: Reflects change in course content.

GEO 430 Intermediate Geographic Information Systems (GIS)

Change in title: **TO:** Intermediate GIS – Raster Analysis

Rationale: Better reflects course content and GIS curriculum in Geography.

**-AND-**

Change in content: **FROM:** GIS methods, data acquisition, and vector analysis. **TO:** GIS raster analysis.

Rationale: Old content, GIS methods, data acquisition, and introduction to vector analysis, will be covered in courses GEO 301 and GEO 429; new content, GIS raster analysis, represents changes in Geography curriculum in response to student need for more GIS coursework and more advanced GIS analysis.

**-AND-**

Change in catalog description: **FROM:** Data collection and input from readily available sources, creation of custom data using GPS, and advanced spatial analysis using GIS. **TO:** GIS raster analysis, including local, neighborhood, and zonal operations, terrain analysis, building raster databases, distance modeling, and surface interpolation. Prerequisite: GEO 301 or GEO 429 or permission.

Rationale: Reflects change in course content.

**FACULTY SENATE PRESIDENT:**

APPROVED BY SENATE: Larry M. Stabler DATE: 4/2/2004

DISAPPROVED BY SENATE: \_\_\_\_\_ DATE: \_\_\_\_\_

**UNIVERSITY PRESIDENT:**

APPROVED: [Signature] DATE: 4/4/09

DISAPPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_

**COMMENTS:** \_\_\_\_\_  
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