

4-17-2015

SR-14-15-41 CC

Marshall University

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CURRICULUM COMMITTEE RECOMMENDATION

SR-14-15-41 CC

NOTE: The curricular form for each item listed may be accessed at www.marshall.edu/senate/ucc. Click the UCC Agendas/Minutes link; click the link for the March 6, 2015 meeting date; click the link in the Description column to open a particular item.

Recommends approval of the listed UNDERGRADUATE COURSE CHANGES in the following colleges and/or schools/program: COLLEGE OF INFORMATION TECHNOLOGY & ENGINEERING, COLLEGE OF LIBERAL ARTS, and COLLEGE OF SCIENCE.

- **COLLEGE OF INFORMATION TECHNOLOGY & ENGINEERING:**

| | | | |
|----|-----|--|---------|
| CE | 322 | Soil Mechanics *Change course title to: Geotechnical Engineering *Rationale: New course title accurately reflects the material covered in the course. New title also reflects the title typically used at other institutions. | 4 hours |
|----|-----|--|---------|

| | | | |
|----|-----|---|---------|
| CE | 443 | Highway Design *Change in course title to: Transportation Systems Design *Change in catalog description to: Application of transportation engineering principles to evaluate existing transportation systems and design necessary improvements. Transportation systems include roadway segments, intersections, sidewalks, and interchanges. Course includes a design project. *Pre-requisite: CE 342 * Rationale: The term "highway design" implies that only freeways or roadway segments are being design. However, the course encompasses all aspects of roadway systems, which also includes intersections, sidewalks, and interchanges. The course title change better reflects this encompassing nature. The catalog description is also being changed to reflect the encompassing content of the course and the way that the course has been taught in recent semesters. The PR can be simplified to CE 342 because CE 241 is a PR for CE 342. | 3 hours |
|----|-----|---|---------|

- **COLLEGE OF LIBERAL ARTS:**

| | | | |
|-----|-----|--|---------|
| GEO | 429 | Intermediate GIS-Vector Analysis *Change in course title to: GIS Vector Analysis *Change in catalog description to: GIS vector analysis and spatial statistics, including topics such as map overlay and distance analysis, pattern analysis, spatial joins, network analysis, spatial autocorrelation, geographically weighted regression. *Rationale: Course description better reflects the advanced nature of the | 3 hours |
|-----|-----|--|---------|

material.

- GEO 440 Quant Methods in Geography 3 hours
*Change in course title to: Spatial Statistics
*Change in catalog description to: Application of statistical methods to problem solving in geography. Primary focus on descriptive spatial statistics, mapping, analysis of spatial data, spatial sampling, pattern analysis, and inferential spatial statistics.
*Rationale:
Better describes the content of the course.

• **COLLEGE OF SCIENCE:**

- BSC 105 Introduction to Biology 4 hours
*Change in course title to: Human Biology
*Change in catalog description to: Fundamentals of biological human structure, function, and interactions with the environment. Intended for non-science majors. Does not count for health professions credit. 3 lec-2 lab.
*Rationale: The course description and title are being changed to reflect the focus of the course on humans. The course has been taught with the human focus for a number of years, the description change removed the references to plants, evolution, and ecology.
- BSC 227 Human Anatomy 4 hours
*Change in catalog description to: Principles of gross and microscopic anatomy of human body systems and their development. Provides preparation for degrees in health professions. Does not count toward a major in Biological Science. 3 lec-2 lab. ACT composite 19 or higher or 12 hrs. college credit, 100 level or above with minimum GPA of 2.3.
*Rationale: This is a minor change that removes a confusing reference to students in the BSN program.
- BSC 228 Human Physiology 4 hours
*Change in catalog description to: Fundamentals of normal human physiology, from cells to systems. Provides the scientific background for understanding pathophysiology and preparation for degrees in health professions. Does not count toward a major in Biological Science. 3 lec-3 lab.
*Pre-requisite: BSC 227 with grade C or better.
* Rationale:
This is a minor change that clarifies the aims of the course and specifies its applicability to students interested in pursuing degrees in health professions. The change removes a confusing reference to students in the BSN program.
- BSC 422 Animal Physiology 4 hours
*Change in catalog description to: Physiological principles operating in cells, organs, and systems of animals, with a focus on vertebrate, including human, function. 3 lec-3 lab.

*Pre-requisite: BSC 322, CHM 355, MTH 140 or 132 or 229; or permission.
*Rationale: Limiting the description to only vertebrate animals is inaccurate as other animal systems are also introduced in the course. BSC 302, 320, and 324 provide limited preparation and are thus inappropriate prerequisites. Chemistry and math experience will better prepare students for this course. Instructor discretion is still allowed through PR by permission allowing granting of exceptions for certain students who may not meet the course prerequisites.

BSC 425 Biosystematics 3 hours

*Change in course title to: Systematics

*Rationale:

The original course name of "Biosystematics" is an antiquated term that hasn't been used in 30 years. Systematics is the appropriate term for this subdivision of biology.

FACULTY SENATE CHAIR:

**APPROVED BY THE
FACULTY SENATE:**

Larry Stickle

DATE: 4/17/2015

**DISAPPROVED BY THE
FACULTY SENATE:**

DATE: _____

UNIVERSITY PRESIDENT:

APPROVED:

Ray S. White

DATE:

6/11/15

DISAPPROVED:

DATE:
