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SR-16-17-46 CC

Marshall University

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CURRICULUM COMMITTEE RECOMMENDATION

SR-16-17-46 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 April 7, 2017 meeting date; click the link in the Description column to open a particular item.

Recommends approval of the listed UNDERGRADUATE COURSE ADDITIONS in the following colleges and/or schools/program:

Course Addition

- COLLEGE of INFORMATION TECHNOLOGY and ENGINEERING

***Name of Course:** CE 102 Introduction to CAD

***Rationale:** An introduction of scales, plan reading, engineering graphics and computer aided design (CAD). Introduction to the operation of modern 2D and 3D CAD software used in civil engineering applications.

***Curriculum:** <http://www.marshall.edu/senate/ucc/archives/CE%20102.pdf>

***Name of Course:** CE 319 Civil Eng. Fluid Mechanics Lab

***Rationale:** Laboratory experiments to support study of civil engineering fluid mechanics, including fluid properties, buoyancy, hydrostatic forces, flow visualization, jet impact, pipe flow, and open channel flow.

***Curriculum:** <http://www.marshall.edu/senate/ucc/archives/CE319.pdf>

***Name of Course:** CE 341 Advanced Geomatics

***Rationale:** Introduction to advanced geo-spatial data collection instrumentation, processes and capabilities. Geo-spatial data display, integration and analysis software tools are presented and utilized in a lecture/lab format.

***Curriculum:** <http://www.marshall.edu/senate/ucc/archives/CE341.pdf>

***Name of Course:** EE 411 Intro to Digital IC Design

***Rationale:** This course covers the analysis and design of digital integrated circuits using CMOS technology. Through lectures along with lab work the course emphasizes design, and requires extensive use of MAGIC for circuit layout, and HSPICE and IRSIM for simulations.

***Curriculum:** <http://www.marshall.edu/senate/ucc/archives/EE411.pdf>

***Name of Course:** EE 415 Intro VHDL Design

***Rationale:** This course provides fundamental understanding of hardware design methodologies and modeling. During lectures and lab hours, students learn the essentials of hardware description languages HDL, embedded C and get a full understanding of behavioral description of hardware-embedded systems using VHDL language.

***Curriculum:** <http://www.marshall.edu/senate/ucc/archives/EE415.pdf>

***Name of Course:** EE 419 Intro Digital Signal Processing

***Rationale:** This course covers the representation, transformation, and manipulation of signals and the information they contain. During lectures and lab hours, students will be introduced to concepts and the classification of discrete-time signal, representations of signals in time, frequency, z- and discrete frequency domains, representations and analyses of systems, and filter designs.

***Curriculum:** <http://www.marshall.edu/senate/ucc/archives/EE419.pdf>

- **COLLEGE of LIBERAL ARTS**

***Name of Course:** SPN 345 Ecocriticism in Latin America

***Rationale:** Taught in English, this course explores approaches to the ecological crisis in Latin America through a variety of texts including poetry, journalistic non-fiction, historical interpretation, and film.

***Curriculum:** <http://www.marshall.edu/senate/ucc/archives/Day%20Spn%20345.pdf>

- **COLLEGE of SCIENCE**

***Name of Course:** NRE 120 Discussions in Env. Sci.

***Rationale:** Critical thinking course designed to examine and explore issues in environmental science including protection of terrestrial and aquatic resources and production of energy and food for growing population.

***Curriculum:** <http://www.marshall.edu/senate/ucc/archives/NRE120revised.pdf>

- **COLLEGE of HEALTH PROFESSIONS**

***Name of Course:** MI 437

***Rationale:** This course covers anatomy, positioning, and scanning protocol for the breast as well as an introduction to ultrasound physics.

***Curriculum:**

<http://www.marshall.edu/senate/ucc/archives/Breast%20sonography%20course%20approval%20202.pdf>

FACULTY SENATE CHAIR:

APPROVED BY THE
FACULTY SENATE: Paige Mueller DATE: 5/8/17

DISAPPROVED BY THE
FACULTY SENATE: _____ DATE: _____

UNIVERSITY PRESIDENT:

APPROVED: Jerome A. O'Neil DATE: 7-13-17

DISAPPROVED: _____ DATE: _____