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SR-15-16-47 CC

Marshall University

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CURRICULUM COMMITTEE RECOMMENDATION

SR-15-16-47 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 15, 2016 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: COLLEGE OF ARTS & MEDIA, COLLEGE OF BUSINESS, COLLEGE OF EDUCATION & PROFESSIONAL DEVELOPMENT, COLLEGE OF HEALTH PROFESSIONS, COLLEGE OF INFORMATION TECHNOLOGY & ENGINEERING, COLLEGE OF LIBERAL ARTS, and COLLEGE OF SCIENCE.

- **COLLEGE OF ARTS & MEDIA:**

- *Name of Course to be added: Percussion Class MUS 233 3 credit hours
- *Catalog Description: A class for non-music majors who will learn to play percussion instruments from various cultures.
- *Prerequisite(s): None

- *Name of Course to be added: Concert Band MUS 235/435 1 credit hour
- *Catalog Description: A concert band for any undergraduate student who has had experience playing a band instrument in high school or middle school.
- *Prerequisite(s): High School or Middle School band experience

- **COLLEGE OF BUSINESS:**

- *Name of Course to be added: Accounting Professionalism ACC 198 1 credit hour
- *Catalog Description: Introduction to the accounting profession, career options, professional responsibilities, and codes of conduct. Professionalism, networking, interviewing, job search, and technical writing skills are developed.
- *Prerequisite(s): Accounting major

- *Name of Course to be added: Social Media Marketing MKT 400 3 credit hours
- *Catalog Description: Social media as a marketing function: students will gain the knowledge and skills necessary to engage and service the customer and explore the strategic use of current social media platforms.
- *Prerequisite(s): MKT 340

- *Name of Course to be added: Marketing Analytics MKT 425 3 credit hours
- *Catalog Description: Students analyze data to make marketing decisions regarding segmentation and target market selection, product positioning, brand choice, customer relationship management, pricing, customer lifetime value, and other areas.
- *Prerequisite(s): MGT 218, MKT 340, LCOB major

- **COLLEGE OF EDUCATION & PROFESSIONAL DEVELOPMENT:**

- *Name of Course to be added: Digital Citizenship ITL 406 3 credit hours
- *Catalog Description: Introduction to skills that build digital citizenship literacy that will help students learn the cognitive, social and technical skills for navigating and evaluating the digital information ecosystem.
- *Prerequisite(s): None

- **COLLEGE OF HEALTH PROFESSIONS:**

- *Name of Course to be added: Sport Performance Analysis ESS 452 3 credit hours
- *Catalog Description: This course will provide students with an understanding of basic and advanced principle of sport performance analysis, and specific method to adapt and utilize in the practical sports fields.
- *Prerequisite(s): None

- *Name of Course to be added: Rock Climbing PEL 173 1 credit hour
- *Catalog Description: Through activity, the students will learn the fundamentals and techniques of rock climbing.
- *Prerequisite(s): None

- *Name of Course to be added: Ethical & Legal Issues in PH PH 455 3 credit hours
- *Catalog Description: Introduction to principles in healthcare, sources and types of law, the U.S. government and development law, organizational ethics, legal-ethical issues for healthcare and patient rights and responsibilities.
- *Prerequisite(s): PH 270, PH 101

- *Name of Course to be added: Adv Epidemiological Methods PH 496 3 credit hours
- *Catalog Description: Examine important epidemiologic concepts, compare and contrast various epidemiologic study designs, compute, analyze, and interpret measures of occurrence and association, determine causal association, and evaluate the accuracy of epidemiologic studies.
- *Prerequisite(s): Introduction to Epidemiology (PH 105), PH 101

- *Name of Course to be added: Substance Abuse in SWK SWK 260 3 credit hours
- *Catalog Description: This course provides information on substance abuse and addiction from a social work perspective including dynamics of addiction, drug classifications, screening tools, brief interventions, and treatment approaches.
- *Prerequisite(s): None

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

- *Name of Course to be added: Programming Lab EE 210 3 credit hours
- *Catalog Description: This course introduces students to the fundamental principles of programming for solving engineering programs. It familiarizes students with the process of translating real-life engineering problems to computation problems.
- *Prerequisite(s): CS 110

*Name of Course to be added: Electromagnetic Fields EE 310 3 credit hours
*Catalog Description: This course provides in depth coverage of all aspects electromagnetics, with a focus on field and wave generation and propagation. The course will focus on the more practical aspects of E-M theory.

*Prerequisite(s): PHY 213

*Name of Course to be added: Analysis of Signals & Systems EE 320 3 credit hours
*Catalog Description: This class introduces students to concepts of probability and random variables necessary for study of signals and systems involving uncertainty; applications to elementary problems in detection, signal processing and communication.

*Prerequisite(s): MTH 335

*Name of Course to be added: Random Signals and Systems EE 330 3 credit hours
*Catalog Description: This course will introduce students to the fundamental concepts of probability theory applied to engineering problems, including elementary set operations, sample spaces and probability laws, conditional probability and independence.

*Prerequisite(s): EE 320

*Name of Course to be added: Computer Architecture & Design EE 340 4 credit hours
*Catalog Description: This course is a study of the factors influencing the design of hardware and software elements of computer systems. Topics include: instruction set design; cache and virtual memory organizations.

*Prerequisite(s): EE 210, ENGR 202

*Name of Course to be added: Elect. Properties of Materials EE 350 3 credit hours
*Catalog Description: Introduction to basic physical properties of solid materials; some solid state physics employed, but major emphasis is on engineering applications based on semiconducting, magnetic, dielectric and superconducting phenomena.

*Prerequisite(s): ENGR 215

*Name of Course to be added: Linear Systems & Control Theory EE 360 3 credit hours
*Catalog Description: Application of state variable and frequency domain techniques to modeling, analysis and synthesis of single input, single output linear control systems.

*Prerequisite(s): EE 320

*Name of Course to be added: Elect. Machinery & Power Systems EE 370 3 credit hours
*Catalog Description: Fundamentals of energy-handling electric circuits, power electronic circuits, analysis of power electric circuits, elements of linear and rotating electric machinery, induction, and DC machinery.

*Prerequisite(s): EE 310

*Name of Course to be added: Microprocessor Design EE 380 3 credit hours
*Catalog Description: Hardware and software for real-time microprocessor-based digital systems. Basic concepts of on-chip components related to digital system functionality. Introduction to 32-bit machines with treatment of 16- and 8-bit machines.

*Prerequisite(s): ENGR 204

*Name of Course to be added: Electrical Engineering Design EE 410 3 credit hours
*Catalog Description: Application of design process and project engineering as practiced in industry; team approach to the design process; development of a project proposal; proposed project implemented in EE 420.
*Prerequisite(s): ENGR 202

*Name of Course to be added: Computer Engineering Design EE 412 3 credit hours
*Catalog Description: Introduction to the design process and project engineering as practiced in industry; student teams apply the design process by developing a project from proposal; proposed project implemented in EE 420.
*Prerequisite(s): ENGR 204

*Name of Course to be added: Capstone Design EE 420 3 credit hours
*Catalog Description: Application of the design process and project engineering as practiced in industry; team approach to the design process; completion of project based on proposal from EE 410 or EE 412.
*Prerequisite(s): EE 410 or EE 412

*Name of Course to be added: Digital Control Systems EE 440 3 credit hours
*Catalog Description: Feedback systems in which a digital computer is used to implement the control law; Z-transform and time domain methods serve as a basis for control systems design.
*Prerequisite(s): EE 360

*Name of Course to be added: Radio Frequency & Microwave Engr EE 445 3 credit hours
*Catalog Description: Fundamental Radio Frequency (RF) and microwave circuit analysis: return loss, insertion loss; transmission lines, lumped elements, impedance matching; theory, analysis and design of basic RF and microwave passive circuits.
*Prerequisite(s): EE 320

*Name of Course to be added: Real-Time Digital Processing EE 447 3 credit hours
*Catalog Description: This course provides an introduction to the principles of real-time digital signal processing and hands-on development of real-time signal processing algorithms.
*Prerequisite(s): EE 320

*Name of Course to be added: Power Electronics EE 448 3 credit hours
*Catalog Description: Principles of power electronics. Including understanding of power semiconductor devices, passive components, basic switching circuits, AC/DC, DC/DC, DC/AC converters and their applications.
*Prerequisite(s): ENGR 202, EE 310

*Name of Course to be added: Engineering Analysis ENGR 265 4 credit hours
*Catalog Description: Mathematical and analytical solutions of linear and power systems that involve linear algebra, Fourier analysis, and complex variables.
*Prerequisite(s): MTH 231

- *Name of Course to be added: Mech. Engineering Analysis ME 335 3 credit hours
- *Catalog Description: Covers the mathematical methods available for analysis of engineering problems, and how to apply them effectively for analytically mechanical and thermal systems.
- *Prerequisite(s): MTH 335

- **COLLEGE OF LIBERAL ARTS:**

- *Name of Course to be added: Crime and Custom ANT 460 3 credit hours
- *Catalog Description: This course examines law and legal processes in diverse cultures from anthropological and law and society perspectives.
- *Prerequisite(s): None

- *Name of Course to be added: Design, Planning & Health ANT 464 3 credit hours
- *Catalog Description: Social scientific study of how places where people live, work, and recreate affect quality of life and overall health with an emphasis on design decisions within urban and regional planning.
- *Prerequisite(s): None

- *Name of Course to be added: Great Civs to 1300 H HST 101H 3 credit hours
- *Catalog Description: Comparative study of the origin and cause of major civilizations focusing on the Middle East, India, China, and the West. This honors section emphasizing critical thinking skills.
- *Prerequisite(s): Admission to Honors College

- *Name of Course to be added: World & West 1300-1850 H HST 102H 3 credit hours
- *Catalog Description: An interdisciplinary analysis of the foundations of Western development. This class emphasizes critical thinking skills.
- *Prerequisite(s): Admission to Honors College

- *Name of Course to be added: History of Appalachia HST 401 3 credit hours
- *Catalog Description: This course will explore the historical and historiographical development of Appalachia and the economic, political, and cultural forces that have shaped the lives and communities of mountaineers.
- *Prerequisite(s): None

- **COLLEGE OF SCIENCE:**

- *Name of Course to be added: General, Organic, and Biochem CHM 205 3 credit hours
- *Catalog Description: Introductory course for health professions students and non-science majors covering basic chemical principles with applications in organic chemistry and biochemistry.
- *Prerequisite(s): None

- *Name of Course to be added: Special Topics CIT 280-283 1-4 credit hours
- *Catalog Description: None
- Prerequisite(s): Permission

*Name of Course to be added: Independent Study CIT 285 1-4 credit hours

*Catalog Description: Independent study for selected freshmen and sophomores under supervision of faculty; may be repeated only once.

*Prerequisite(s): Permission

*Name of Course to be added: Special Topics CIT 480-483 1-4 credit hours

*Catalog Description: None

Prerequisite(s): Permission

*Name of Course to be added: Independent Study CIT 485 1-4 credit hours

*Catalog Description: Independent study for selected juniors and seniors under supervision of faculty; may be repeated only once.

*Prerequisite(s): Permission

*Name of Course to be added: Open Source Intelligence DFIA 305 3 credit hours

*Catalog Description: This course identifies and demonstrates free online resources that can aid investigators in searching the Internet for resources that can be applied to domestic and international investigations.

*Prerequisite(s): DFIA and CJ Majors Only

*Name of Course to be added: Incident Response DFIA 420 3 credit hours

*Catalog Description: This course examines forensic and investigate aspects of a network intrusion. Topics include pre-incident preparation, developing leads, scoping an incident, forensic data collection, evidence from hosts, networks, and enterprise environments.

*Prerequisite(s): DFIA 400

*Name of Course to be added: Exploit Development DFIA 430 3 credit hours

*Catalog Description: Students will learn the skills required to reverse-engineer 32-bit and 64-bit applications, perform remote user application, analyze patches for 1-day exploits, and write complex exploit modern software and operating systems.

*Prerequisite(s): CIT 352, DFIA 357

*Name of Course to be added: Mobile and Web Pen Testing DFIA 445 4 credit hours

*Catalog Description: this course is designed to teach students the advanced skills and techniques required to test mobile and web applications.

*Prerequisite(s): CIT 264, CIT 352

*Name of Course to be added: Capstone DFIA 490 3 credit hours

*Catalog Description: This course reinforces and assesses the student's ability to apply core digital forensic and information assurance knowledge and skills in a series of realistic practical exercises.

*Prerequisite(s): DFIA 400, 462, 467, 357; 454

*Name of Course to be added: Research DFIA 491 3 credit hours

*Catalog Description: Students will explore and apply common research methods used in digital forensics and information assurance. Students will complete research project including a paper or poster during the semester.

*Prerequisite(s): DFIA 460, 467

*Name of Course to be added: Investigating the Universe PHY 222 2 credit hours
*Catalog Description: (2 hrs) A creative laboratory course designed to give students an opportunity to work with modern research equipment, with ample time to conduct experiments and/or investigate phenomena of their choosing.
*Prerequisite(s): MTH 122, and MTH 127 or MTH 130 or MTH 132

FACULTY SENATE CHAIR:

APPROVED BY THE
FACULTY SENATE:

Larry Stabler

DATE: 5/9/2016

DISAPPROVED BY THE
FACULTY SENATE:

_____ DATE: _____

UNIVERSITY PRESIDENT:

APPROVED:

James A. O'Neil

DATE:

5-20-16

DISAPPROVED:

_____ DATE: _____