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CURRICULUM COMMITTEE
RECOMMENDATION

SR-12-13-30 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 15, 2013 meeting date; click the link in the Description column to open a particular item.

Recommends approval of the listed COURSE ADDITIONS in the following colleges and/or schools/program: COLLEGE OF IT AND ENGINEERING, COLLEGE OF HEALTH PROFESSIONS, COLLEGE OF LIBERAL ARTS, COLLEGE OF FINE ARTS and the COLLEGE OF SCIENCE:

• COLLEGE OF IT AND ENGINEERING:

  CS 105 Expl World with Computing 3 credits
  *Add Course and Catalog Description with CT designation:
  Rational: Central principles and big ideas of computing: problem solving, computational and critical thinking, abstraction, creativity, reasoning, data, algorithms, recursion, visualization, and limits of computation, solve real-world problems with computing.

  CS 110H Computer Science I Honors 3 credits
  *Add Course and Catalog Description:
  Rational: Object-oriented and algorithmic problem solving principles and techniques; programming with classes in an integrated programming environment; and program debugging.
  Co-requisite(s): MTH 132 or MTH 229 or MTH 229H
  Prerequisite(s): Admittance to the Honors College AND Math ACT of 23 or higher.

  CS 205 Scientific Computing 3 credits
  *Add Course and Catalog Description:
  Rational: An introduction to computer programming, software design, and algorithm analysis and implementation. Abstract concepts illustrated with examples and exercises drawn from the mathematical and physical sciences. Primarily for non-CS majors.
  Co-requisite/Prerequisite: MTH 229

• COLLEGE OF HEALTH PROFESSIONS:

  HP 110 Intro to the Health Profession 3 credits
  *Add Course and Catalog Description:
  Rational: This course is designed to provide an overview of the health care system and health professions taught within the Marshall University campus and throughout the state.
HP 210 Health Sciences Seminar 3 credits
* Add Course and Catalog Description:
Rational: This course is designed to bring outside non-clinical speakers to discuss professionalism in health care. Students analyze career opportunities and establish non-clinical career expectations.
Prerequisite(s): HP 110

HP 320 Intro to Res in Health Prof. 3 credits
* Add Course and Catalog Description:
Rational: This course covers the basic quantitative and qualitative research techniques used in the health professions.
Prerequisites: HP 110, HP 210 & Statistics. EDF 417 or PSY 417, BSC 417 or MTH 225

HP 420 Allied Health Sciences Admin. 3 credits
* Add Course and Catalog Description:
Rational: In this course students will explore and apply allied health sciences principles as they relate to the student’s focus in the Health Sciences major.

MI 212 Seminar Imaging Sciences II 1 hour
* Add Course and Catalog Description:
Rational: Seminar on new and emerging technologies in imaging sciences.

MI 311 Seminar Imaging Sciences III 1 hour
* Add Course and Catalog Description:
Rational: Seminar on new and emerging technologies in imaging sciences.

MI 312 Abdominal Sonography I 4 credits
* Add Course and Catalog Description:
Rational: This course covers basic abdominal sonography positioning and scanning protocols, as it related to normal anatomy of the abdomen. Laboratory included.

MI 313 Ultrasound Physics I 3 credits
* Add Course and Catalog Description:
Rational: The focus of this course is to educate students about the physics of sound waves and their interaction with tissue enabling the display of diagnostic imaging.

MI 314 Clinical Practice I Sonography 4 credits
* Add Course and Catalog Description:
Rational: Clinical practice experiences are designed for sequential development, application, critical analysis, integration, synthesis.
and evaluation of concepts and theories in the performance of sonographic procedures.

MI 315 Small Parts Sonography 3 credits
* Add Course and Catalog Description
Rational: The course covers anatomy, positioning and scanning protocol of the superficial structures.

MI 316 Abdominal Sonography II 3 credits
* Add Course and Catalog Description:
Rational: This course covers basic abdominal sonographic positioning and scanning protocols, as it related to normal anatomy, anatomical variants, physiology to include the retro peritoneum, associated abdominal vasculature identified.
Prerequisite: MI 312

MI 317 Ultrasound Physics II 3 credits
* Add Course and Catalog Description:
Rational: The focus of this course is to educate students about the physics of sound waves and their interaction with tissue enabling the display of diagnostic imaging.

MI 318 Vascular Sonography I 4 credits
* Add Course and Catalog Description:
Rational: Discussion of vascular disease, duplex examinations with comparison to arteriography, as it pertains to venous and visceral vascular examinations. Laboratory included.

MI 319 Clinical Practice II Sonography 4 credits
* Add Course and Catalog Description:
Rational: Clinical practice experiences are designed for sequential development, application, critical analysis, integration, synthesis and evaluation of concepts and theories in the performance of sonographic procedures.

MI 415 RIS and PACS Principles 3 credits
* Add Course and Catalog Description:
Rational: Course content provides basic knowledge of digital storage systems, computer networking, and radiology information systems (RIS), and picture archiving and communications systems (PACS).

MI 416 Obstetrical Sonography I 3 credits
* Add Course and Catalog Description:
Rational: This course covers basic obstetrical sonographic positioning and scanning protocols, as it relates to normal anatomy of the fetus.
### MI 417 Gynecological Sonography I 3 credits
*Add Course and Catalog Description:
**Rational:** This course presents a study of normal anatomy and physiology of the nongravid and first trimester pelvis.

### MI 419 Clinical Practice III Sonography 4 credits
*Add Course and Catalog Description:
**Rational:** Clinical practice experiences are designed for sequential development, application, critical analysis, integration, synthesis and evaluation of concepts and theories in the performance of sonographic procedures.

### MI 420 Obstetrical Sonography II 2 credits
*Add Course and Catalog Description:
**Rational:** This course focuses on sonographic techniques in high risk pregnancies and fetal abnormalities.

### MI 421 Gynecological Sonography II 2 credits
*Add Course and Catalog Description:
**Rational:** This course presents a study of pathology if the nongravid and first trimester pelvis.

### MI 422 Clinical Practice IV Sonography 4 credits
*Add Course and Catalog Description:
**Rational:** Clinical practice experiences are designed for sequential development, application, critical analysis, integration, synthesis and evaluation of concepts and theories in the performance of sonographic procedures.

### MI 424 Vascular Sonography II 3 credits
*Add Course and Catalog Description:
**Rational:** Discussion of capsular pathology and the use of plethysmography techniques in sonography.

### COLLEGE OF FINE ARTS:

#### ART 464 History of Modern Design 3 credits
*Add Course and Catalog Description:
**Rational:** History of print and object design from the beginning of the nineteenth through the twentieth century will be studied in terms of art history, technology, politics, economics, and consumer behavior.  
**Prerequisites:** ART 112 or ART 101 and ART 201 or permission.

### COLLEGE OF LIBERAL ARTS:

#### JPN 245 Modern Japanese Lit 3 credits
*Add Course and Catalog Description:
Rational: Taught in English, course examines Japanese literature from the mid-nineteenth century to the present day.
*Designators: CT, INTL, Core II (Humanities)

JPN 250 Japanese Anime and Manga 3 credits
* Add Course and Catalog Description:
Rational: Taught in English, this course examines the history and nature of Japanese animation (anime) and comics (manga).
*Designators: CT, INTL, Core II (Humanities)

JPN 407 Japanese Teaching Methodology 3 credits
* Add Course and Catalog Description:
Rational: Analysis and practical application of teaching Japanese, including professional development, language pedagogy, and language standards.
*For Japanese education majors only.
Co-requisite: CI 470
Prerequisite: JPN 315 or permission

PSC 466 Appalachian Politics 3 credits
* Add Course and Catalog Description:
Rational: Explores Appalachia as both a geographical region and a political construct, focusing on how politics shapes regional identity and the region's relationship to the United States.

- COLLEGE OF SCIENCE:

CHM 361H Intro Honors Organic Chem Lab 3 credits
* Add Course and Catalog Description:
Rational: This laboratory will introduce students to advanced concepts and techniques in organic synthesis and spectroscopy. It requires students to engage in an independent synthetic project from the chemical literature.
Co-requisite: CHM 356

FACULTY SENATE CHAIR:
APPROVED BY THE FACULTY SENATE:Ellen L. Date: 4-29-13
DISAPPROVED BY THE FACULTY SENATE: DATE:

UNIVERSITY PRESIDENT:
APPROVED: DATE: 5-21-13
DISAPPROVED: DATE:
COMMENTS: ________________________________________________

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