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SR-08-09-42 CC

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CURRICULUM COMMITTEE RECOMMENDATION

SR-08-09-42 CC

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

- **COLLEGE OF EDUCATION & HUMAN SERVICES**

ATE 441 Advanced Computer Training for Technical Education 3 hours
The course balances fact, theory, and application as it examines the computer's role in education and training. It presents theories and models relating to computer-assisted instruction. Co-requisite or Prerequisite(s): None.

ATE 475 Multimedia-Based Instructional Design 3 hours
This course will assist students in designing multi-media presentation for education and training. Focus will be on the development of web-based training programs. Co-requisite or Prerequisite(s): None.

- **COLLEGE OF HEALTH PROFESSIONS**

MI 201 Introduction to Radiography 3 hours
Provides an overview of the foundations in radiography and the practitioner's role in the health care delivery system and professional responsibilities of the radiographer. Co-requisite: None. Prerequisite(s): BSC 228, CHM 203, MTH 121 or higher, PHY 101, admission to the MI program.

MI 202 Patient Care in Imaging Science 3 hours
Content is designed to identify the role of the radiographer in patient care, including consideration of the physical and psychological needs of the patient and family. Co-requisite: MI 203, 204, 205, 206. Prerequisite(s): BSC 228, MI 201, admission to the MI program.

MI 203 Ethical & Legal Principles in Imaging Science 2 hours
Content is designed to provide a fundamental background in legal issues and ethical practice including the ARRT Code of Ethics and Practice Standards. Co-requisite: MI 202, 204, 205, 206. Prerequisite(s): Admission to the MI program.

MI 204 Radiographic Anatomy 3 hours
Content is designed to introduce the student to radiographic anatomy. Emphasis is placed on identifying structures visible on correctly performed radiographic procedures. Co-requisite: MI 202, 203, 205, 206. Prerequisite(s): BSC 228, admission to the MI program.

MI 205 Imaging Procedures I 4 hours
Content is designed to provide the knowledge base necessary to perform standard imaging procedures. Students will practice imaging procedures in lab prior to performing them on patients. Co-requisite: MI 202, 203, 204, 206. Prerequisite(s): BSC 228, admission to the MI program.

MI 206 Clinical Practice I 4 hours
Content and clinical practice experiences are designed to sequentially develop, apply, critically analyze, integrate, synthesize and evaluate concepts and theories in the performance of Radiologic procedures. Co-requisite: MI 202, 203, 204, 205. Prerequisite(s): Admission to the MI program.

MI 207 Imaging Procedures II 4 hours
Content is designed to provide the knowledge base necessary to perform special imaging procedures and basic computed tomography. Co-requisite: MI 208, 209, 210, 211. Prerequisite(s): MSC 228, MI 206, admission to the MI program.

MI 208 Pharmacology & Drug Administration for Imaging Science 2 hours
Content is designed to provide basic concepts of pharmacology including delivery of and pharmacodynamics associated with imaging contrast media. Co-requisite: MI 207, 209, 210, 211. Prerequisite(s): BSC 227, MI 206, BCLS, admission to the MI program.

MI 209 Introduction to Imaging Equipment 3 hours
Content is designed to provide in radiographic, fluoroscopic, mobile and tomographic equipment requirements and design. Co-requisite: MI 207, 208, 210, 211. Prerequisite(s): MTH 121 or higher, PHY 101, PHY 101L, admission to the MI program.

MI 210 Clinical Practice II 4 hours
Content is designed to provide the knowledge base necessary to perform standard imaging procedures. Students will begin clinical rotations in computed tomography. Co-requisite: MI 207, 208, 209, 211. Prerequisite(s): MI 206, admission to the MI program.

MI 211 Seminar in Imaging Science 1 hour
Introduces student to current research in imaging science. Emphasis will be on oral communication via power point presentations. Co-requisite: MI 207, 208, 209, 210. Prerequisite(s): Admission to the MI program.

MI 301 Clinical Practice III 10 hours
Content is designed to provide the knowledge base necessary to perform standard imaging procedures. Clinical practice is sequential. Students will be introduced to special imaging modalities. Co-requisite: None. Prerequisite(s): MI 210, admission to MI program.

MI 302 Principles of Radiation Physics 3 hours
Introduces student to the nature and characteristic of radiation production and the fundamentals of photon interactions with matter. Course covers principles associated with radiography, nuclear medicine and radiation oncology. Co-requisite: MI 303, 304, 305, 306. Prerequisite(s): CHM 203, PHY 101, PHY 101L, MTH 121 or higher, MI 209, admission to MI program.

MI 303 Image Acquisition & Processing 3 hours
Introduces student to the factors that govern the image production process. Co-requisite: MI 302, 304, 305, 306. Prerequisite(s): MTH 121 or higher, MI 209, admission to MI program.

- MI 304 Radiographic Pathology 3 hours
Introduces student to concepts related to disease and etiological considerations with emphasis on radiographic appearance of disease and impact on exposure factor selection. Co-requisite: MI 302, 303, 305, 306. Prerequisite(s): BSC 228, MI 204, admission to MI program.
- MI 305 Clinical Practice IV 4 hours
Content is designed to provide the knowledge base necessary to perform standard imaging procedures. Clinical practice is sequential. Students will be introduced to special imaging modalities. Co-requisite: MI 302, 303, 304, 306. Prerequisite(s): MI 301, admission to MI program.
- MI 306 Seminar in Imaging Science 1 hour
Introduces student to current research in imaging science. Co-requisite: MI 302, 303, 304, 305. Prerequisite(s): Admission to MI program.
- MI 307 Radiation Protection & Radiobiology 3 hours
Introduces student to principles of radiation protection and radiobiology including the responsibilities of the radiographer for patients, personnel and the public. Co-requisite: MI 308, 309, 310. Prerequisite(s): BSC 228, CHM 203, MI 302, admission to MI program.
- MI 308 Radiographic Image Analysis 2 hours
Content is designed to provide a basis for analyzing and critiquing radiographic images. Co-requisite: MI 307, 309, 310. Prerequisite(s): MI 208, 303, 304; admission to MI program.
- MI 309 Digital Image Acquisition & Display 2 hours
Content is designed to impart an understanding of the components, principles and operation of digital imaging systems found in diagnostic radiography. Co-requisite: MI 307, 308, 310. Prerequisite(s): MI 303, admission to the MI program.
- MI 310 Clinical Practice V 4 hours
Content is designed to provide the knowledge base necessary to perform standard imaging procedures. Clinical practice is sequential. Students will be introduced to special imaging modalities. Co-requisite: MI 307, 308, 309. Prerequisite(s): MI 210, 301, 305; admission to MI program.
- MI 401 Seminar in Imaging Science 1 hour
Review seminar for the primary ARRT certification examination. Co-requisite: None. Prerequisite(s): Admission to MI program.
- MI 402 Quality Management 3 hours
Advanced practice course in the quality assurance (QA) and quality management (QM) process for imaging sciences. Co-requisite: None. Prerequisite(s): Senior status or ARRT certification.
- MI 403 Advanced Practice in Medical Imaging 3 hours
Core theory requirement for all advanced practice students focused on discussion of communication, human diversity, health care policy, legal issues and patient information management. Co-requisite: None. Prerequisite(s): Senior status or ARRT certification.

MI 404 Advanced Sectional Anatomy 3 hours
Provides students enrolled in CT/MRI advanced practice track advanced knowledge of sectional anatomy. Co-requisite: MI 405, 407. Prerequisite(s): Senior status or ARRT certification.

MI 405 CT Procedures & Equipment 3 hours
Focus on advanced patient care skills including ACLS, imaging procedures and equipment in Computed tomography. Co-requisite: MI 404, 408. Prerequisite(s): Senior status or ARRT certification.

MI 406 MRI Procedures & Equipment 3 hours
Focus on advanced patient care skills including ACLS, imaging procedures and equipment in Computed tomography. Co-requisite: MI 404, 408. Prerequisite(s): Senior status or ARRT certification.

MI 407 Cardiovascular Anatomy & Physiology 3 hours
Focus on advanced cardiovascular anatomy, physiology and pathophysiology including heart anatomy, coronary, systemic, pulmonary, peripheral and cerebral circulation. Co-requisite: MI 408. Prerequisite(s): Senior status or ARRT certification.

MI 408 Cardiovascular/Interventional Imaging Procedures & Equipment 3 hours
Focus is on advanced patient care skills including ACLS, procedures and equipment utilized in cardiovascular and vascular/interventional imaging. Co-requisite: MI 407. Prerequisite(s): Senior status or ARRT certification.

MI 409 Advanced Clinical Practice 4 hours
Students will arrange clinical experience in selected imaging modality to gain competency in clinical procedures required to sit for post-primary ARRT certification exams. Co-requisite: Variable. Prerequisite(s): Senior status or ARRT certification.

MI 410 Research in Medical Imaging 3 hours
Capstone Course. Research methods and information literacy. Co-requisite: Variable. Prerequisite(s): Statistics, senior status or ARRT certification.

MI 411 Transcultural Healthcare 3 hours
Multidisciplinary approach to transcultural healthcare. Course will utilize comparative ethnography and provide a theoretical framework for organizing and interpreting information about health. Co-requisite: Variable. Prerequisite(s): Permission of instructor.

- **COLLEGE OF LIBERAL ARTS**

ENG 100 College Writing 3 hours
Part one of the introduction to academic writing with emphasis on writing as a multi-stage process, critical thinking, and fundamental research strategies and skills. Co-requisite: None. Prerequisite(s): ACT ENG <18, SAT V<450.

HST 442 Latin America Firsthand 3 hours
Students learn Latin American history through a 15 day mobile classroom experience in one of a number of countries. Texts, presentation, journals, and papers are also required. Co-requisite/Prerequisite(s): None.

• **COLLEGE OF SCIENCE**

ISC 211 Living on Earth 4 hours
A course introducing the basic concepts of environmental science and using the scientific method to study current environmental issues. Co-requisite: None. Prerequisite(s): MTH 121 or higher.

ISC 215 Transportation & the Environment 4 hours
This course will focus on the issues surrounding the planning, construction, and mitigation of impacts by transportation systems in West Virginia. These systems include maritime, rails, roads, and air service. Co-requisite/Prerequisite(s): None.

ISC 217 Tropical Ecology 4 hours
An introduction to tropical ecosystems including rainforest and coral reefs. Cultural sites visited. Permission of instructor. Course includes required international travel with extra fees. Co-requisite/Prerequisite(s): None.

IST 224 Introduction to Forensic Science 4 hours
The relationship between scientific process and crime solutions is explored. DNA technology, probability theory, fingerprints, blood spatter, questioned documents, crime scene investigation will be examined using laboratories and case studies. Co-requisite/Prerequisite(s): None.

IST 243 Biotechnology Regulation 2 hours
Course provides an overview of cGMP and FDA regulations for pharmaceutical, biotechnology and medical device industry including Quality Control and Quality Assurance, upstream and downstream processing. Co-requisite: None. Prerequisite(s): ENG 102 or 201 H or 202 or 302; or IST 201; or YGS 162.

IST 303 C#.Net Programming 3 hours
Covers the essentials for developing robust and secure applications using C#, Windows forms, and the .NET framework. Also covers ADO.NET, writing secure .NET applications and web services. Co-requisite: None. Prerequisite(s): IST 163.

IST 434 Molecular Diagnostics 3 hours
This course is designed to provide an overview of the general principles and methods used to diagnose bacterial, viral and human diseases by molecular techniques. Co-requisite: None. Prerequisite(s): BSC 121 or 250 or CHM 212 or IST 340.

IST 436 Advanced Web Programming 3 hours
Includes topics in XHTML, JavaScript Data Object Model, dynamic application of CSS rules to page elements, browsers' support for XML, object-oriented PHP programming, service side graphics generation, web services. Co-requisite: None. Prerequisite(s): IST 430.

IST 455 Commercialization of Drugs, Biologics & Medical Devices 3 hours
 Students will learn key components of the drug discovery process and the steps leading to full regulatory approval and commercialization of drugs, biologics and medical devices. Case studies will be discussed. Co-requisite: None. Prerequisite(s): IST 340 or BSC 322.

IST 456 Technology & Innovation 3 hours
 This class introduces technology venture formation and intellectual property. Course covers employment, confidentiality and consulting agreements. Development of Green Businesses is emphasized through business case studies and writing grant proposals. Co-requisite: None. Prerequisite(s): ENG 102 or 201H, or 202, or 302, or IST 201 or YGS 162.

• **LEWIS COLLEGE OF BUSINESS**

MGT 429 Leadership 3 hours
 Leadership styles, principles, models, and practical applications including: motivation and communication, teamwork, use of power, development of trust, effective group facilitation, negotiation and persuasion, effective change, and ethics. Co-requisite: None. Prerequisite(s): MGT 320.

MGT 445 International Management 3 hours
 Focuses on the economic, political, legal, technological, and cultural issues faced by international managers. Topics include developing cultural awareness, implementing global strategy, and competing with ethical integrity. Co-requisite: None. Prerequisite(s): MGT 320.

MGT 446 Green Management 3 hours
 Focuses on environmental sustainability and the practices involved in managing a green business, including: eco-advantage strategies, supply chains, preventing the failure of eco-initiatives and sustained competitive advantage. Co-requisite: None. Prerequisite(s): MGT 320.

MIS 200 Computer Applications in Business 3 hours
 An introduction to computer applications in business, including spreadsheets, databases, presentation and word processing. Students also learn to integrate spreadsheet and database outputs into presentations and reports. Co-requisite/Prerequisite(s): None.

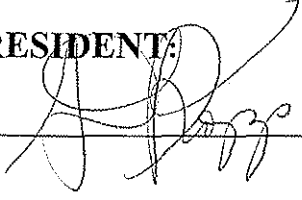
FACULTY SENATE CHAIR:

APPROVED BY THE
 FACULTY SENATE: Cam Brannan DATE: 5/13/09

DISAPPROVED BY THE
 FACULTY SENATE: _____ DATE: _____

UNIVERSITY PRESIDENT:

APPROVED: _____



DATE: _____

5/13/09

DISAPPROVED: _____

DATE: _____

COMMENTS: _____
