D. Diagnostic Medical Sonography

|  |  |  |  |
| --- | --- | --- | --- |
| DMS 305 | Foundations of Diagnostic Medical Sonography | 3 | F |
| DMS 306 | Abdominal and Small Parts Sonography | 5 | Sp |
| DMS 308 | Sonographic Principles and Instrumentation | 4 | Sp |
| DMS 309 | Clinical Education I | 3 | Sp |
| DMS 312 | Sonographic Women’s Imaging | 4 | Su |
| DMS 313 | Clinical Education II | 5 | Su |
| DMS 431 | Vascular Technology | 4 | F |
| DMS 432 | Obstetrical Sonography | 4 | F |
| DMS 433 | Clinical Education III | 4 | F |
| DMS 434 | Registry Review | 3 | Sp |
| DMS 435 | Advanced Procedures in DMS | 3 | Sp |
| DMS 436 | Clinical Education IV | 4 | Sp |
| MEDI 201 | Orientation to Medical Imaging | 1 | F, Sp |
| MEDI 203 | Introduction to Medical Imaging | 3 | F |
| MEDI 205 | Medical Terminology in Medical Imaging | 1 | F |
| MEDI 255 | Patient Care in Medical Imaging | 3 | F |
| MEDI 308 | Professional Behavior in Medical Imaging | 3 | F |
| MEDI 463W | Senior Seminar in Medical Imaging | 3 | Sp |

Cognates

|  |  |  |  |
| --- | --- | --- | --- |
| BIOL 108 | Basic Principles of Biology | 4 | F, Sp, Su |
| BIOL 231 | Human Anatomy | 4 | F, Sp, Su |
| BIOL 335 | Human Physiology | 4 | F, Sp, Su |
| CHEM 105 | General, Organic and Biological Chemistry I | 4 | F, Sp, Su |
| MATH 209 | Precalculus Mathematics | 4 | F, Sp, Su |
| PHYS 110 | Introductory Physics | 4 | Sp, F, Su |

Subtotal: 84

E. Magnetic Resonance Imaging

|  |  |  |  |
| --- | --- | --- | --- |
| MEDI 201 | Orientation to Medical Imaging | 1 | F, Sp |
| MEDI 203 | Introduction to Medical Imaging | 3 | F |
| MEDI 205 | Medical Terminology in Medical Imaging | 1 | F |
| MEDI 255 | Patient Care in Medical Imaging | 3 | F |
| MEDI 308 | Professional Behavior in Medical Imaging | 3 | F |
| MEDI 309 | Sectional Anatomy in Medical Imaging | 3 | F |
| MEDI 410 | Pathology in Medical Imaging | 3 | F |
| MEDI 463W | Senior Seminar in Medical Imaging | 3 | Sp |
| MRI 302 | Foundations of Medical Resonance Imaging | 3 | Sp |
| MRI 303 | Procedures I | 3 | Sp |
| MRI 304 | Physical Principles I | 4 | Sp |
| MRI 305 | Clinical Education I | 3 | Sp |
| MRI 306 | Procedures II | 3 | Su |
| MRI 307 | Clinical Education II | 5 | Su |
| MRI 431 | Physical Principles II | 4 | F |
| MRI 432 | Clinical Education III | 5 | F |
| MRI 433 | Advanced Procedures in Magnetic Resonance Imaging | 3 | Sp |
| MRI 434 | MRI Registry Review | 3 | Sp |
| MRI 435 | Clinical Education IV | 4 | Sp |

Cognates

|  |  |  |  |
| --- | --- | --- | --- |
| BIOL 108 | Basic Principles of Biology | 4 | F, Sp, Su |
| BIOL 231 | Human Anatomy | 4 | F, Sp, Su |
| BIOL 335 | Human Physiology | 4 | F, Sp, Su |
| CHEM 105 | General, Organic and Biological Chemistry I | 4 | F, Sp, Su |
| MATH 209 | Precalculus Mathematics | 4 | F, Sp, Su |
| PHYS 110 | Introductory Physics | 4 | Sp, F, Su |

Subtotal: 84

F. Nuclear Medicine Technology

|  |  |  |  |
| --- | --- | --- | --- |
| CTSC 300 | Principles of Computed Tomography | 2 | As needed |
| CTSC 301 | Computed Tomography Physics and Radiation Protection | 2 | As needed |
| MEDI 201 | Orientation to Medical Imaging | 1 | F, Sp |
| MEDI 203 | Introduction to Medical Imaging | 3 | F |
| MEDI 205 | Medical Terminology in Medical Imaging | 1 | F |
| MEDI 255 | Patient Care in Medical Imaging | 3 | F |
| MEDI 308 | Professional Behavior in Medical Imaging | 3 | F |
| MEDI 309 | Sectional Anatomy in Medical Imaging | 3 | F |
| MEDI 410 | Pathology in Medical Imaging | 3 | F |
| MEDI 463W | Senior Seminar in Medical Imaging | 3 | Sp |
| NMT 302 | Foundations of Nuclear Medicine Technology | 3 | Sp |
| NMT 303 | Nuclear Medicine Procedures I | 3 | Sp |
| NMT 304 | Radiation Safety and Radiobiology | 3 | Sp |
| NMT 306 | Nuclear Medicine Procedures II and Therapeutics | 3 | Su |
| NMT 336 | Clinical Education I | 3 | Sp |
| NMT 337 | Clinical Education II | 5 | Su |
| NMT 433 | Radiopharmaceuticals in Nuclear Medicine | 3 | F |
| NMT 434 | Radiation Physics and Advanced Instrumentation | 3 | F |
| NMT 435 | Registry Review | 3 | Sp |
| NMT 436 | Clinical Education III | 5 | F |
| NMT 437 | Clinical Education IV | 4 | Sp |

Cognates

|  |  |  |  |
| --- | --- | --- | --- |
| BIOL 108 | Basic Principles of Biology | 4 | F, Sp, Su |
| BIOL 231 | Human Anatomy | 4 | F, Sp, Su |
| BIOL 335 | Human Physiology | 4 | F, Sp, Su |
| CHEM 105 | General, Organic and Biological Chemistry I | 4 | F, Sp, Su |
| MATH 209 | Precalculus Mathematics | 4 | F, Sp, Su |
| PHYS 110 | Introductory Physics | 4 | Sp, F, Su |

Subtotal: 86

G. Radiography

|  |  |  |  |
| --- | --- | --- | --- |
| MEDI 201 | Orientation to Medical Imaging | 1 | F, Sp |
| MEDI 203 | Introduction to Medical Imaging | 3 | F |
| MEDI 205 | Medical Terminology in Medical Imaging | 1 | F |
| MEDI 255 | Patient Care in Medical Imaging | 3 | F |
| MEDI 308 | Professional Behavior in Medical Imaging | 3 | F |
| MEDI 309 | Sectional Anatomy in Medical Imaging | 3 | F |
| MEDI 410 | Pathology in Medical Imaging | 3 | F |
| MEDI 463W | Senior Seminar in Medical Imaging | 3 | Sp |
| RAD 331 | Foundations of Radiography | 3 | Sp |
| RAD 332 | Radiographic Procedures I | 3 | Sp |
| RAD 333 | Radiographic Procedures II | 3 | Su |
| RAD 334 | Principles of Radiography | 4 | Sp |
| RAD 335 | Radiation Physics | 3 | Su |
| RAD 336 | Clinical Education I | 3 | Sp |
| RAD 338 | Clinical Education II | 5 | Su |
| RAD 432 | Advanced Principles and Radiobiology | 4 | F |
| RAD 433 | Clinical Education III | 5 | F |
| RAD 434 | Advanced Procedures in Radiography | 3 | Sp |
| RAD 435 | Registry Review | 3 | Sp |
| RAD 436 | Clinical Education IV | 4 | Sp |

Cognates

|  |  |  |  |
| --- | --- | --- | --- |
| BIOL 108 | Basic Principles of Biology | 4 | F, Sp, Su |
| BIOL 231 | Human Anatomy | 4 | F, Sp, Su |
| BIOL 335 | Human Physiology | 4 | F, Sp, Su |
| CHEM 105 | General, Organic and Biological Chemistry I | 4 | F, Sp, Su |
| MATH 209 | Precalculus Mathematics | 4 | F, Sp, Su |
| PHYS 110 | Introductory Physics | 4 | Sp, F, Su |

Subtotal: 87

## MEDI - Medical Imaging

MEDI 201 - Orientation to Medical Imaging (1)

Topics include the history of medical imaging, the technologist's role on the health care team, equipment, clinical settings and the various modalities in diagnostic imaging.

Prerequisite: BIOL 231 and MATH 209.

Offered: Fall, Spring.

MEDI 202 - Introduction to Medical Imaging (1.5)

Presents the history of various specialties in medical imaging, and the technologist's role in the health care team. Safety and ethics, accreditation, certification and professional organizations will also be discussed.

Prerequisite: MEDI 201 and acceptance into a medical imaging clinical program.

Offered: Fall.

MEDI 203 - Introduction to Medical Imaging (3)

Students learn about the history of imaging, discovery of x-rays, and the specialties. Student’s time-management, safety and professional ethics will be emphasized.

Prerequisite: Acceptance into a Medical Imaging Clinical Program

Offered: Fall

MEDI 205 - Medical Terminology in Medical Imaging (1)

Students will become proficient in the basic medical terminology utilized in medical imaging.

Prerequisite: Acceptance into a Medical Imaging Clinical Program.

Offered: Fall.

## RAD Radiography

RAD 331 - Foundations of Radiography (3)

Students are introduced to radiography, imaging equipment, and the radiography clinical environment. Topics include terminology, positioning and imaging principles, and radiation safety.

Prerequisite: Acceptance into a Medical Imaging Clinical program

Offered: Spring

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RAD 336 - Clinical Education I (3)

Students are introduced to the clinical environment with emphasis on radiography department procedures, radiation safety, and patient care. Students gain practical experience observing and applying imaging principles. 18 contact hours

Prerequisite: Acceptance into a Medical Imaging Clinical program

Offered: Spring

RAD 338 - Clinical Education II (5)

Student learn general radiography procedures, radiation safety, and patient care with emphasis radiographer skills. They will gain practical experience applying imaging principles.. 30 contact hours.

Offered: Summer

RAD 432 – Advanced Principles and Radiobiology (4)

Students learn the concepts of creating and capturing digital images including preprocessing, processing, and postprocessing. Students will also learn principles of radiobiology and radiation protection.

Offered: Fall

RAD 433 - Clinical Education III (5)

Students perform routine radiography procedures in various clinical settings on all patient types with emphasis on exposure factors and gaining independence in the clinical environment. 30 contact hours

Offered: Fall