## ADVANCED DIAGNOSTIC RADIOGRAPHY, EMPHASIS

## **Course Requirements**

Title

- General Education Course

Code

► - Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

code	Title	Hours
Core Curriculun	n	
Core 1: Critical Th	inking	
FYS 100	First Yr Sem Critical Thinking	3
MTH 121 🚗	Concepts and Applications (CT)	3
CLS 105 💎	Medical-Lab Terminology (CT)	3
Core 2		
ENG 101 🚗	Beginning Composition	3
ENG 201 💎	Advanced Composition	3
CMM 103 💎	Fund Speech-Communication	3
MTH 121 💎	Concepts and Applications (CT)	3
BSC 228 💎	Human Physiology	3
BSC 228L 💎	Human Physiology Lab	1
Core II Humaniti	es	3
Core II Social Scie	ence	3
Core II Fine Arts		3
Additional Univer	sity Requirements	
Writing Intensive	2	3
MI 403	Adv Practice Medical Img	
Writing Intensive		3
MI 411 💎	Transcultural Healthcare	
Multicultural or I		3
MI 411 💎	Transcultural Healthcare	
	dvanced modality track)	3
Major-Specific		
BSC 227	Human Anatomy	3
BSC 227L	Human Anatomy Lab	1
BSC 228 💎	Human Physiology	3
BSC 228L 💎	Human Physiology Lab	1
PHY 101 💎	Conceptual Physics	3
PHY 101L 💎	Conceptual Physics Lab	1
CLS 105 💎	Medical-Lab Terminology (CT)	3
MI 201	Intro to Radiography	3

MI 202	Patient Care Img Science	3
MI 204	Radiographic Anatomy	3
MI 205	Imaging Procedures I	4
MI 206	Clinical Practice I	4
MI 207	Imaging Procedures II	4
MI 208	Pharmacology for Imaging Sci	2
MI 209	Intro to Imaging Equip	3
MI 210	Clinical Practice II	4
MI 211	Seminar Imaging Science	1
MI 212	Seminar Imaging Sciences II	1
MI 302	Princ of Radiation Physics	3
Statistics		3
MI 303	Image Acquisition	3
MI 304	Radiographic Pathology	3
MI 305	Clinical Practice IV	4
MI 306	Seminar Imaging Science	1
MI 307	Radiobiology	3
MI 308	Rad Image Analysis	2
MI 309	Image Acquisition II	3
MI 310	Clinical Practice V	4
MI 311	Seminar Imaging Sciences III	1
MI 321	Imaging Procedures III	4

In Year 4, students choose an area of emphasis. Below are Year 4 course requirements for the Advanced Diagnostic Radiography area of emphasis:

Code	Title	Credit Hours
MI 401	Seminar in Imaging Sci	1
MI 403	Adv Practice Medical Img	3
MI 409	Adv Clinical Practice	4
MI 410 💎	Research Medical Imaging	3
MI 411 💎	Transcultural Healthcare	3
MI 426	Advanced Clinical Practice II	4
MI 427	Adv Trauma and Surgical Rad	3
MI 429	Geriatric and Pediatric Rad	3
MI 435	Seminar ARRT Exam Review II	1

## **Semester Plan**

First Year

Credit

First Semester		Credit Hours
BSC 227	Human Anatomy	3
BSC 227L	Human Anatomy Lab	1
CLS 105 💎	Medical-Lab Terminology (CT)	3
MTH 121 💎	Concepts and Applications (CT)	3
ENG 101 💎	Beginning Composition	3
CMM 103 💎	Fund Speech-Communication	3
UNI 100	Freshman First Class	1
	Credit Hours	17
Second Semest	ter	
BSC 228 💎	Human Physiology	3

BSC 228L 💎	Human Physiology Lab	1
PHY 101 💎	Conceptual Physics	3
PHY 101L 💎	Conceptual Physics Lab	1
ENG 201 💎	Advanced Composition	3
Core II Social Sci	ence	3
FYS 100	First Yr Sem Critical Thinking	3
	Credit Hours	17
Second Year		
First Semester		
MI 202	Patient Care Img Science	3
MI 201	Intro to Radiography	3
MI 204	Radiographic Anatomy	3
MI 205	Imaging Procedures I	4
MI 206	Clinical Practice I	4
MI 211	Seminar Imaging Science	1
	Credit Hours	18
Second Semest	er	
MI 208	Pharmacology for Imaging Sci	2
MI 209	Intro to Imaging Equip	3
MI 304	Radiographic Pathology	3
MI 207	Imaging Procedures II	4
MI 210	Clinical Practice II	4
MI 212	Seminar Imaging Sciences II	1
Summer		
Statistics		3
	Credit Hours	20
Third Year	Credit Hours	20
Third Year First Semester	Credit Hours	20
	Credit Hours  Princ of Radiation Physics	<b>20</b>
First Semester		
First Semester MI 302	Princ of Radiation Physics	3
First Semester MI 302 MI 307	Princ of Radiation Physics Radiobiology	3
First Semester MI 302 MI 307 MI 303	Princ of Radiation Physics Radiobiology Image Acquisition	3 3 3
First Semester MI 302 MI 307 MI 303 MI 321	Princ of Radiation Physics Radiobiology Image Acquisition Imaging Procedures III	3 3 3 4
First Semester MI 302 MI 307 MI 303 MI 321 MI 305	Princ of Radiation Physics Radiobiology Image Acquisition Imaging Procedures III Clinical Practice IV	3 3 3 4 4
First Semester MI 302 MI 307 MI 303 MI 321 MI 305	Princ of Radiation Physics Radiobiology Image Acquisition Imaging Procedures III Clinical Practice IV Seminar Imaging Science Credit Hours	3 3 3 4 4 1
First Semester MI 302 MI 307 MI 303 MI 321 MI 305 MI 306	Princ of Radiation Physics Radiobiology Image Acquisition Imaging Procedures III Clinical Practice IV Seminar Imaging Science Credit Hours	3 3 3 4 4 1
First Semester MI 302 MI 307 MI 303 MI 321 MI 305 MI 306  Second Semest	Princ of Radiation Physics Radiobiology Image Acquisition Imaging Procedures III Clinical Practice IV Seminar Imaging Science Credit Hours er	3 3 3 4 4 1 18
First Semester MI 302 MI 307 MI 303 MI 321 MI 305 MI 306  Second Semest MI 322	Princ of Radiation Physics Radiobiology Image Acquisition Imaging Procedures III Clinical Practice IV Seminar Imaging Science Credit Hours er Radiation Safety	3 3 3 4 4 1 18
First Semester MI 302 MI 307 MI 303 MI 321 MI 305 MI 306  Second Semest MI 322 MI 308	Princ of Radiation Physics Radiobiology Image Acquisition Imaging Procedures III Clinical Practice IV Seminar Imaging Science Credit Hours er Radiation Safety Rad Image Analysis	3 3 3 4 4 1 1 18
First Semester MI 302 MI 307 MI 303 MI 321 MI 305 MI 306  Second Semest MI 322 MI 308 MI 309	Princ of Radiation Physics Radiobiology Image Acquisition Imaging Procedures III Clinical Practice IV Seminar Imaging Science Credit Hours er Radiation Safety Rad Image Analysis Image Acquisition II	3 3 3 4 4 1 18 3 2
First Semester MI 302 MI 307 MI 303 MI 321 MI 305 MI 306  Second Semest MI 322 MI 308 MI 309 MI 310	Princ of Radiation Physics Radiobiology Image Acquisition Imaging Procedures III Clinical Practice IV Seminar Imaging Science Credit Hours er Radiation Safety Rad Image Analysis Image Acquisition II Clinical Practice V Seminar Imaging Sciences III	3 3 3 4 4 1 18 3 2 3 4
First Semester MI 302 MI 307 MI 303 MI 321 MI 305 MI 306  Second Semest MI 322 MI 308 MI 309 MI 310 MI 311	Princ of Radiation Physics Radiobiology Image Acquisition Imaging Procedures III Clinical Practice IV Seminar Imaging Science Credit Hours er Radiation Safety Rad Image Analysis Image Acquisition II Clinical Practice V Seminar Imaging Sciences III	3 3 4 4 1 18 3 2 3 4
First Semester MI 302 MI 307 MI 303 MI 321 MI 305 MI 306  Second Semest MI 322 MI 308 MI 309 MI 310 MI 311	Princ of Radiation Physics Radiobiology Image Acquisition Imaging Procedures III Clinical Practice IV Seminar Imaging Science Credit Hours er Radiation Safety Rad Image Analysis Image Acquisition II Clinical Practice V Seminar Imaging Sciences III	3 3 4 4 1 18 3 2 3 4 1 1
First Semester MI 302 MI 307 MI 303 MI 321 MI 305 MI 306  Second Semest MI 322 MI 308 MI 309 MI 310 MI 311 Core II Humaniti	Princ of Radiation Physics Radiobiology Image Acquisition Imaging Procedures III Clinical Practice IV Seminar Imaging Science Credit Hours er Radiation Safety Rad Image Analysis Image Acquisition II Clinical Practice V Seminar Imaging Sciences III	3 3 4 4 1 18 3 2 3 4 1 1
First Semester MI 302 MI 307 MI 303 MI 321 MI 305 MI 306  Second Semest MI 322 MI 308 MI 309 MI 310 MI 311 Core II Humaniti	Princ of Radiation Physics Radiobiology Image Acquisition Imaging Procedures III Clinical Practice IV Seminar Imaging Science Credit Hours er Radiation Safety Rad Image Analysis Image Acquisition II Clinical Practice V Seminar Imaging Sciences III	3 3 4 4 1 18 3 2 3 4 1 1
First Semester MI 302 MI 307 MI 303 MI 321 MI 305 MI 306  Second Semest MI 322 MI 308 MI 309 MI 310 MI 311 Core II Humaniti  Fourth Year First Semester	Princ of Radiation Physics Radiobiology Image Acquisition Imaging Procedures III Clinical Practice IV Seminar Imaging Science Credit Hours er Radiation Safety Rad Image Analysis Image Acquisition II Clinical Practice V Seminar Imaging Sciences III ies Credit Hours	3 3 4 4 1 18 3 2 3 4 1 3 16
First Semester MI 302 MI 307 MI 303 MI 321 MI 305 MI 306  Second Semest MI 322 MI 308 MI 309 MI 310 MI 311 Core II Humaniti  Fourth Year First Semester MI 403	Princ of Radiation Physics Radiobiology Image Acquisition Imaging Procedures III Clinical Practice IV Seminar Imaging Science Credit Hours er Radiation Safety Rad Image Analysis Image Acquisition II Clinical Practice V Seminar Imaging Sciences III des Credit Hours Adv Practice Medical Img	3 3 4 4 1 18 3 2 3 4 1 1 3
First Semester MI 302 MI 307 MI 303 MI 321 MI 305 MI 306  Second Semest MI 322 MI 308 MI 309 MI 310 MI 311 Core II Humaniti  Fourth Year First Semester MI 403 MI 427	Princ of Radiation Physics Radiobiology Image Acquisition Imaging Procedures III Clinical Practice IV Seminar Imaging Science Credit Hours er Radiation Safety Rad Image Analysis Image Acquisition II Clinical Practice V Seminar Imaging Sciences III des Credit Hours Adv Practice Medical Img	3 3 4 4 1 18 3 2 3 4 1 3 16
First Semester MI 302 MI 307 MI 303 MI 321 MI 305 MI 306  Second Semest MI 322 MI 308 MI 309 MI 310 MI 311 Core II Humaniti  Fourth Year First Semester MI 403 MI 427 Core II Fine Arts	Princ of Radiation Physics Radiobiology Image Acquisition Imaging Procedures III Clinical Practice IV Seminar Imaging Science Credit Hours er Radiation Safety Rad Image Analysis Image Acquisition II Clinical Practice V Seminar Imaging Sciences III ies Credit Hours  Adv Practice Medical Img Adv Trauma and Surgical Rad	3 3 4 4 1 18 3 2 3 4 1 3 16

## **Second Semester**

	Total Credit Hours	134
	Credit Hours	14
MI 435	Seminar ARRT Exam Review II	1
MI 426	Advanced Clinical Practice II	4
MI 429	Geriatric and Pediatric Rad	3
MI 411 💎	Transcultural Healthcare	3
MI 410 💎	Research Medical Imaging	3