

CARDIOVASCULAR/ INTERVENTIONAL ADVANCED PRACTICE, EMPHASIS

Course Requirements

 - General Education Course

 - 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	Credit Hours
Core Curriculum		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121 	Concepts and Applications (CT)	3
CLS 105 	Medical-Lab Terminology (CT)	3
<i>Core 2</i>		
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 Humanities		3
Core II Social Science		3
Core II Fine Arts		3
<i>Additional University Requirements</i>		
Writing Intensive		3
MI 403	Adv Practice Medical Img	3
Writing Intensive		3
MI 411 	Transcultural Healthcare	3
Multicultural or International		3
MI 411 	Transcultural Healthcare	3
Capstone (see advanced 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 Cardiovascular/Interventional Advanced Practice area of emphasis:

Code	Title	Credit Hours
Area of Emphasis-Specific		
MI 401	Seminar in Imaging Sci	1
MI 403	Adv Practice Medical Img	3
MI 407	Cardiovascular Anatomy ¹	3
or MI 443	Vascular Interventional II	
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 434	Cardiovascular Imaging ²	3
or MI 408	Vascular Interventional Img	
MI 435	Seminar ARRT Exam Review II	1

ACLS Certification

- ¹ Students may choose between MI 407 (for expertise in Cardiovascular) or MI 443 (for expertise in Vascular Interventional).
² Students may choose between MI 434 (for expertise in Cardiovascular) or MI 408 (for expertise in Vascular Interventional).

First Year

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 Semester

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 Science		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 Semester

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
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Credit Hours **20**

Third Year

First Semester

MI 302	Princ of Radiation Physics	3
MI 307	Radiobiology	3
MI 303	Image Acquisition	3
MI 321	Imaging Procedures III	4
MI 305	Clinical Practice IV	4
MI 306	Seminar Imaging Science	1

Credit Hours **18**

Second Semester

MI 322	Radiation Safety	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
Core II Humanities		3

Credit Hours **16**

Fourth Year

First Semester

MI 403	Adv Practice Medical Img	3
MI 409	Adv Clinical Practice	4
MI 401	Seminar in Imaging Sci	1

Core II Fine Arts 3

Students who want to gain expertise in Cardiovascular will also take MI 434. Students who want to gain expertise in Vascular Interventional will take MI 408.

Credit Hours **14**

Second Semester

MI 410	Research Medical Imaging	3
MI 411	Transcultural Healthcare	3

Students who want to gain expertise in Cardiovascular will also take MI 407. Students who want to gain expertise in Vascular Interventional will take MI 443.

MI 426 Advanced Clinical Practice II 4

MI 435 Seminar ARRT Exam Review II 1

ACLS Certification

Credit Hours **14**

Total Credit Hours **134**