CURRICULUM PLAN COLLEGE OF HEALTH PROFESSIONS 2019-2020

## **MEDICAL IMAGING RADIOGRAPHY**

#### REQUIREMENTS

CORE CURRICULUM 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 marshall.edu/gened.

CORE 1: CRIT	TICAL THINKING	CORE 2:						
CODE	COURSE NAME	HRS	GRADE	CODE	COURSE NAME		HRS	GRADE
FYS 100	First Year Seminar in Crit Thinking	3		ENG 101	Beginning Composition	•	3	
MTH 121	Critical Thinking Course	3		ENG 201	Advanced Composition	•	3	
CLS 105	Critical Thinking Course	3		CMM 103	Fund Speech-Communication	•	3	
Addition	al University Requirements			MTH 121	Concepts and Applications (CT)	•	3	
	Writing Intensive (MI 403 rec.)	3		BSC 228	Human Physiology	• •	4	
	Writing Intensive (MI 411 rec.)	3			Core II Humanities	•	3	
	Multicult or Internat (MI 411 rec.)	3			Core II Soc Sci	•	3	
	Capstone (see advanced modailty track)	3			Core II Fine Arts	•	3	

#### MAJOR-SPECIFIC

All Medical Imaging majors are required to take the following courses:

CODE	COURSE NAME		HRS	GRADE	CODE	COURSE NAME		HRS	GRADE
BSC 227	Human Anatomy	<b>♦</b>	4 .		MI 206	Clinical Practice I	•	4	
BSC 228	Human Physiology	<b>\</b>	4 .		MI 207	Imaging Procedures II	•	4	
PHY 101	Concepts of Physics	•	3 .		MI 208	Pharm & Drug Admin for Img Sci	•	2	
PHY 101L	Concepts of Physics Lab	<b>♦</b>	1 .		MI 209	Intro to Imaging Equipment	•	3	
CLS 105	Med Term & Intro to Lab Med	<b>♦</b>	3 .		MI 210	Clinical Practice II	•	4	
	(CT)				MI 211	Seminar in Imaging Science	•	1	
MI 201	Intro to Radiography	•	3 .		MI 212	Seminar in Imaging Science II	•	1	
MI 202	Patient Care in Imag Science	•	3 .			Statistics	<b>\</b>	3	
MI 204	Radiographic Anatomy	<b>•</b>	3 .						

#### **AREA OF EMPHASIS**

All Medical Imaging majors pursuing the radiography area of emphasis are required to take the following courses (additional courses will vary depending on advanced modality track in fourth year):

CODE	COURSE NAME		HRS GRADE	CODE	COURSE NAME		HKS	GRADE
MI 302	Principles of Radiation Physics	•	3	MI 308	Rad Image Analysis	•	2	
MI 303	Image Acquisition	•	3	MI 309	Digital Image Acquisition	•	2	
MI 304	Radiographic Pathology	•	3	MI 310	Clinical Practice V	•	4	
MI 305	Clinical Practice IV	•	4	MI 311	Seminar Imaging Sciences	•	1	
MI 306	Seminar Imaging Science	•	1	MI 321	Procedures III	•	3	
MI 307	Rad Protection	•	3	varies	Advanced Modality Track	•	27-30	

#### MAJOR INFORMATION

- 2.50 and receive a grade of C or better in all MI coursework.
- All applicants must meet the professional guidelines established by the ARRT to sit for particular certification examinations.
- By Year 3, students must choose to continue in the radiography area of emphasis or apply to the competitive sonography area of emphasis. This academic map outlines the curriculum for those who choose the radiography area of emphasis.
- Students in the Medical Imaging Program must maintain a minimum GPA of In Year 4, students in the radiography area of emphasis must choose one of the following four advanced modality tracks:

MY ADVISOR'S NAME IS:

- CT/MRI (27 hours): MI 401, 402, 403, 404, 405 (or 3 hrs. 406), 409, 410, 411, 415, ACLS certification
- Cardiovascular/Interventional (27 hours): MI 401, 402, 403, 407, 408, 409, 410, 411, 426, ACLS certification
- Mammography (27 hours): MI 401, 402, 403, 409, 410, 411, 414, 426, 430, **ACLS** certification
- Medical Imaging Management (30 hours): MI 401, 402, 403, 409, 410, 411, 412, 413, 415, 426

FOUR YEAR PLAN COLLEGE OF HEALTH PROFESSIONS 2019-2020

## **MEDICAL IMAGING RADIOGRAPHY**

St. Mary's School of Medical Imaging (SOMI) is a hospital-based program, partnered with Marshall University to offer a Bachelor of Science in Medical Imaging. The program curriculum is designed to prepare students to practice radiography/sonography and introduce students to related specialized imaging modalities. The program can be completed in four years. Credentialed Radiographers may enter the professional portion of the program (fourth year) and also obtain the degree.

MY ADVISOR'S NAME IS:

		FALL SEMESTER					SPRING SEMESTER			
	CODE	COURSE NAME		HRS	GRADE	CODE	COURSE NAME		HRS	GRADE
	CMM 103	Fund Speech Communication	•	3		BSC 228	Human Physiology	• •	4	
	ENG 101	Beginning Composition	•	3		ENG 201	Advanced Composition	•	3	
运	MTH 121	Concepts and Applications (CT)	•	3		FYS 100	First Year Seminar in Crit Thinking	•	3	
ONE	BSC 227	Human Anatomy	•	4			Core II Social Sci	•	3	
띰	CLS 105	Med Term & Intro to Lab Med (CT)	•	3		PHY 101	Concepts of Physics	•	3	
YEAR	UNI 100	Freshman First Class		1		PHY 101L	Concepts of Physics Lab	•	1	
<b>X</b>										
	TOTAL HO	URS		17		TOTAL HO	DURS		17	
	Summer Term (optional):									

		FALL SEMESTER				SPRING SEMESTER			
	CODE	COURSE NAME	HRS	GRADE	COD	E COURSE NAME		HRS	GRADE
	MI 201	Intro to Radiography	<b>♦</b> 3			Core II Humanities	•	3	
	MI 202	Patient Care in Imaging Science	<b>♦</b> 3		MI 20	07 Imaging Procedures II	•	4	
0	MI 204	Radiographic Anatomy	<b>♦</b> 3		MI 20	Pharm & Drug Admin for Imag Sci	•	2	
TWO	MI 205	Imaging Procedures I	<b>♦</b> 4		MI 20	9 Intro to Imaging Equipment	•	3	
퍼	MI 206	Clinical Practice I	<b>♦</b> 4		MI 21	10 Clinical Practice II	•	4	
YEA	MI 211	Seminar in Imaging Science	<b>•</b> 1		MI 21	12 Seminar in Imaging Science II	<b>•</b>	1	
X									
	TOTAL HO	DURS	18		TOTA	AL HOURS		17	

		FALL SEMESTER					SPRING SEMESTE	R		
	CODE	COURSE NAME		HRS	GRADE	CODE	COURSE NAME		HRS	GRADE
	MI 302	Principles of Radiation Physics	•	3		MI 307	Rad Protection	•	3	
re-1	MI 303	Image Acquisition	•	3		MI 308	Rad Image Analysis	•	2	
田田	MI 304	Radiographic Pathology	•	3		MI 309	Digital Image Acquisition	•	2	
THRE	MI 305	Clinical Practice IV	•	4		MI 310	Clinical Practice V	•	4	
	MI 306	Seminar Imaging Science	•	1		MI 311	Seminar Imaging Sciences	•	1	
AF	MI 321	Procedures III	•	3			Statistics	•	3	
YEAR										
	TOTAL H	OURS		17		TOTAL F	IOURS		15	
	Summer Term (o	ntional):								

		FALL SEMESTE	R				SPRING SEMEST	ER		
	CODE	COURSE NAME		HRS	GRADE	CODE	COURSE NAME		HRS	GRADE
		Core II Fine Arts	•	3			Advanced Modality Track	•	14-17	
		Advanced Modality Track	•	13						
UR										
FOL										
R F										
⋖										
YE.										
	TOTAL H	OURS		16		TOTAL H	OURS		14-17	
	Summer Term (o			.0		· O IALII	00115			
	Julillier Territ (0	ptional).								

Summer Term (optional):

#### **INVOLVEMENT OPPORTUNITIES**

- Student Government Association
- · Campus Activity Board
- JMELI
- Commuter Student Advisory Board
- Club Sports
- · Religious Organizations
- Political Organizations
- · Residence Hall Association
- Cultural Organizations
- National Society of Leadership and Success
- Greek Life

#### **RELATED MAJORS**

- Clinical Laboratory Science
- Respiratory Therapy
- Physics
- Pre-Medicine
- Health Sciences
- Healthcare Management

#### **GRADUATION REQUIREMENTS**

- Have a minimum of 120 credit hours (some colleges or majors require more);
- Have an overall and Marshall Grade Point Average of 2.00 or higher;
- Have an overall Grade Point Average of 2.00 or higher in the major area of study;
- Have earned a grade of C or better in English 201 or 201 H;
- Have met all major(s) and college requirements;
- Have met the requirements of the Core Curriculum;
- Have met the residence requirements of Marshall University, including 12 hours of 300/400 level coursework in the student's college (see section entitled "Residence Requirements" in the undergraduate catalogue);
- Be enrolled at Marshall at least one semester of the senior year;
- Have transferred no more than 72 credit hours from an accredited West Virginia twoyear institution of higher education.

Colleges and specific programs may have unique requirements that are more stringent than those noted above. Students are responsible for staying informed about and ensuring that they meet the requirements for graduation.

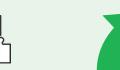
This academic map is to be used as a guide in planning your coursework toward a degree. Due to the complexities of degree programs, it is unfortunate but inevitable that an error may occur in the creation of this document. The official source of degree requirements at Marshall University is DegreeWorks available in your myMU portal. Always consult regularly with your advisor.

# MEDICAL IMAGING - RADIOGRAPHY — 2019-2020

YEAR ONE



Have questions? Need to talk? You already have a Friend-At-Marshall ready to help you succeed. Find your FAM Peer Mentor here: www.marshall.edu/fam



Meet with a career education specialist to conduct a "gap analysis." Figure out the skills you'll need for the career you want while you still have time to build them.



Select your core curriculum courses carefully so that each course meets more than one requirement (e.g. writing intensive, critical thinking, multicultural).



Stay on the Herd Path and come to class! Class attendance is more important to your success than your high school GPA, your class standing, or your ACT/SAT scores.



Ta you you

Take a pulse check. Know what you need to do every year to keep your grants, scholarships, or federal financial aid



Take a Community Based Learning (CBL) class that connects course content to the community. Stay engaged and make a difference.



Take a career self-assessment to help determine what majors fit your talents and interests.

### YEAR THREE



Networking is key! Attend a Career Expo to seek employment opportunities and network with employers in your field.



Join professional associations in your field, like: ASRT, SDMS, WVSRT.



Have you decided which advance modality track to pursue during your senior year? Talk to your advisor now.



Think about who can help you grow as a student and a professional (professors, advisors, alumni, etc.) and ask at least one to be your mentor.





Are you on track to graduate? Meet with your advisor for your Junior Eval to make sure you know what requirements you have left.



In order to work in your field, you need to take a primary pathway certification exam. Talk with your advisor and develop a study strategy now.



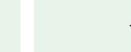
Be at the top of your professional

game! Prepare a final resume and

practice your interview skills with a

career coach in Career Education.

## YEAR FOUR



This is it! Are you on track to graduate? Meet with your advisor for your Senior Eval to see what requirements you have left.



Be at the top of your professional game! Prepare a final resume and practice your interview skills with a career coach in Career Education.



Want to continue your education and increase your opportunities? Talk to a faculty member about whether graduate school fits your career goals.



Think about who can help you grow as a student and a professional (professors, advisors, alumni, etc.) and ask at least one to be your mentor.





In order to work in your field, you need to take a primary pathway certification exam. Talk with your advisor and develop a study strategy now.



Talk to faculty about also pursuing optional professional certifications (postprimary pathways in specialized subfields).



Join professional associations in your field, like: ASRT, SDMS, WVSRT.



TRANSFERABLE SKILLS

· Evaluation and Assessment

Computer Technology Skills

Ability to Work Independently

• Knowledge of Medical Equipment

· Cardiac/Interventional Radiologist

• Medical and Health Services Manager

Cardiovascular Technologist

· Radiology Administrator

Technical Writing Skills

**ASSOCIATED CAREERS** 

Radiologic Technologist

Mammographer

MRI Technologist

Sonographer

Empathy

ASSOCIATED WITH THIS MAJOR

• Effective Oral Communication Skills

Adaptability in High Stress Environment

Marshall University
College of Health Professions
1 John Marshall Drive
Huntington, WV 25755
1-304-696-2624
cohp@marshall.edu
marshall.edu/cohp

## YEAR TWO



Have you finished your university core curriculum requirements? If not, use the summer term before Sophomore Year to get back on track before beginning your Medical Imaging core.



Join professional associations in your field, like: ASRT, SDMS, WVSRT.



Take a pulse check. Know what you need to do every year to keep your grants, scholarships, or federal financial aid.



Develop relationships with professors who can serve as future references by attending their office hours.



Meet with a career education specialist to conduct a "gap analysis." Figure out the skills you'll need for the career you want while you still have time to build them.



Volunteer for health-related organizations, such as hospitals or long term care facilities.

Have you decided which Area of Emphasis to pursue? If you're interested in Sonography, you'll need to apply at the end of your sophomore year.