

MEDICAL IMAGING SONOGRAPHY

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: CRITICAL THINKING

CODE	COURSE NAME	HRS	GRADE
FYS 100	First Year Seminar in Crit Thinking	3	_____
MTH 121	Critical Thinking Course	3	_____
CLS 105	Critical Thinking Course	3	_____
Additional University Requirements			
_____	Writing Intensive (MI 403 rec.)	3	_____
_____	Writing Intensive (MI 411 rec.)	3	_____
_____	Multicult or Internat (MI 411 rec.)	3	_____
MI 410	Capstone: Research Med Imaging	3	_____

CORE 2:

CODE	COURSE NAME	HRS	GRADE
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	4	_____
_____	Core II Humanities	3	_____
_____	Core II Soc Sci	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	4	_____	MI 206	Clinical Practice I	4	_____
BSC 228	Human Physiology	4	_____	MI 207	Imaging Procedures II	4	_____
PHY 101	Concepts of Physics	3	_____	MI 208	Pharm & Drug Admin for Imag Sci	2	_____
PHY 101L	Concepts of Physics Lab	1	_____	MI 209	Intro to Imaging Equipment	3	_____
CLS 105	Med Term & Intro to Lab Med (CT)	3	_____	MI 210	Clinical Practice II	4	_____
MI 201	Intro to Radiography	3	_____	MI 211	Seminar in Imaging Science	1	_____
MI 202	Patient Care in Imag Science	3	_____	MI 212	Seminar in Imaging Science II	1	_____
MI 204	Radiographic Anatomy	3	_____	_____	Statistics	3	_____
MI 205	Imaging Procedures I	4	_____				

AREA OF EMPHASIS

All Medical Imaging majors pursuing the sonography 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	HRS	GRADE
MI 306	Seminar Imaging Science	1	_____	MI 319	Clinical Practice II Sonography	4	_____
MI 311	Seminar Imaging Sciences III	1	_____	MI 401	Seminar in Imaging Science	1	_____
MI 312	Abdominal Sonography I	4	_____	MI 403	Adv Practice Med Imaging (WI)	3	_____
MI 313	Ultrasound Physics	3	_____	MI 410	Research in Medical Imaging (C)	3	_____
MI 314	Clinical Practice I Sonography	4	_____	MI 411	Transcultural Healthcare (WI, MC)	3	_____
MI 315	Small Parts Sonography	3	_____	MI 419	Clinical Practice III Sonography	4	_____
MI 316	Abdominal Sonography II	3	_____	MI 422	Clinical Practice IV Sonography	4	_____
MI 317	Ultrasound Physics II	3	_____	_____	Advanced Modality Track	10-12	_____
MI 318	Vascular Sonography I	4	_____				

MAJOR INFORMATION

- Students in the Medical Imaging Program must maintain a minimum GPA of 2.50 and receive a grade of C or better in all MI coursework.
- Beginning in Spring of Year 3, students in the sonography area of emphasis must choose one of the following two advanced modality tracks:
 - General/OB-GYN Sonography (10 hours):**
 - Year 3 / Spring: MI 416
 - Year 4 / Fall: MI 417 and 420
 - Year 4 / Spring: MI 421
 - Cardiovascular Sonography (12 hours):**
 - Year 3 / Spring: MI 424
 - Year 4 / Fall: MI 423
 - Year 4 / Spring: MI 407 and 425
- 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 are accepted into the sonography area of emphasis.

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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.

YEAR ONE	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	_____
	MTH 121	Concepts and Applications (CT)	3	_____	FYS 100	First Year Seminar in Crit Thinking	3	_____
	BSC 227	Human Anatomy	4	_____	_____	Core II Social Science	3	_____
	CLS 105	Med Term & Intro to Lab Med (CT)	3	_____	PHY 101	Concepts of Physics	3	_____
	UNI 100	Freshman First Class	1	_____	PHY 101L	Concepts of Physics Lab	1	_____
	TOTAL HOURS		17		TOTAL HOURS		17	
	Summer Term (optional):							

YEAR TWO	FALL SEMESTER				SPRING SEMESTER			
	CODE	COURSE NAME	HRS	GRADE	CODE	COURSE NAME	HRS	GRADE
	MI 201	Intro to Radiography	3	_____	_____	Core II Humanities	3	_____
	MI 202	Patient Care in Imaging Science	3	_____	MI 207	Imaging Procedures II	4	_____
	MI 204	Radiographic Anatomy	3	_____	MI 208	Pharm & Drug Admin for Imag Sci	2	_____
	MI 205	Imaging Procedures I	4	_____	MI 209	Intro to Imaging Equipment	3	_____
	MI 206	Clinical Practice I	4	_____	MI 210	Clinical Practice II	4	_____
	MI 211	Seminar in Imaging Science	1	_____	MI 212	Seminar in Imaging Science II	1	_____
	TOTAL HOURS		18		TOTAL HOURS		17	
	Summer Term (optional):							

YEAR THREE	FALL SEMESTER				SPRING SEMESTER			
	CODE	COURSE NAME	HRS	GRADE	CODE	COURSE NAME	HRS	GRADE
	MI 312	Abdominal Sonography I	4	_____	MI 316	Abdominal Sonography II	3	_____
	MI 313	Ultrasound Physics	3	_____	MI 317	Ultrasound Physics II	3	_____
	MI 314	Clinical Practice I Sonography	4	_____	MI 319	Clinical Practice II Sonography	4	_____
	MI 318	Vascular Sonography I	4	_____	MI 311	Seminar Imaging Sciences	1	_____
	MI 306	Seminar Imaging Science	1	_____	_____	Statistics	3	_____
	MI 315	Small Parts Sonography	3	_____	_____	See Advanced Modality Track	3	_____
	TOTAL HOURS		19		TOTAL HOURS		17	
	Summer Term (optional):							

YEAR FOUR	FALL SEMESTER				SPRING SEMESTER			
	CODE	COURSE NAME	HRS	GRADE	CODE	COURSE NAME	HRS	GRADE
	MI 403	Adv Practice Med Imaging (WI)	3	_____	MI 410	Research in Medical Imaging (C)	3	_____
	MI 419	Clinical Practice III Sonography	4	_____	MI 411	Transcultural Healthcare (WI, MC)	3	_____
	_____	Core II Fine Arts	3	_____	MI 422	Clinical Practice IV Sonography	4	_____
	_____	See Advanced Modality Track	3-5	_____	MI 401	Seminar in Imaging Science	1	_____
					_____	See Advanced Modality Track	2-6	_____
	TOTAL HOURS		13-15		TOTAL HOURS		13-17	
	Summer Term (optional):							

◆ Major Requirement

● General Education Requirement

📌 Milestone Course: This is a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

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MEDICAL IMAGING - SONOGRAPHY – 2019-2020

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 two-year 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.

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



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.



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



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.



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



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



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.



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.



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



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.



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



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.



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



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



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



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.

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.



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.



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



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



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



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

TRANSFERABLE SKILLS ASSOCIATED WITH THIS MAJOR

- Empathy
- Effective Oral Communication Skills
- Evaluation and Assessment
- Computer Technology Skills
- Adaptability in High Stress Environment
- Technical Writing Skills
- Ability to Work Independently
- Knowledge of Medical Equipment

ASSOCIATED CAREERS

- Radiologic Technologist
- Sonographer
- Cardiovascular Sonographer
- Mammographer
- Cardiac/Interventional Radiologist
- MRI Technologist
- Cardiovascular Technologist
- Radiology Administrator
- Medical and Health Services Manager



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