CURRICULUM PLAN COLLEGE OF HEALTH PROFESSIONS 2019-2020

MY ADVISOR'S NAME IS: _____

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: 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	
	Capstone (see advanced modailty track)		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
BSC 227	Human Anatomy	◆	4	
BSC 228	Human Physiology	◆	4	
PHY 101	Concepts of Physics	◆	3	
PHY 101L	Concepts of Physics Lab	◆	1	
CLS 105	Med Term & Intro to Lab Med (CT)	◆	3	
MI 201	Intro to Radiography	◆	3	
MI 202	Patient Care in Imag Science	◆	3	
MI 204	Radiographic Anatomy	◆	3	
MI 206	Clinical Practice I	◆	4	
MI 207	Imaging Procedures II	◆	4	
MI 208	Pharm & Drug Admin for Img Sci	◆	2	
MI 209	Intro to Imaging Equipment	◆	3	
MI 210	Clinical Practice II	◆	4	
MI 211	Seminar in Imaging Science	◆	1	
MI 212	Seminar in Imaging Science II	◆	1	
	Statistics	◆	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
MI 302	Principles of Radiation Physics	●	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	Rad Protection	●	3	
MI 308	Rad Image Analysis	●	2	
MI 309	Digital Image Acquisition	●	2	
MI 310	Clinical Practice V	●	4	
MI 311	Seminar Imaging Sciences	●	1	
MI 321	Procedures III	●	3	
varies	Advanced Modality Track	●	27-30	

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.
- 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.
- In Year 4, students in the radiography area of emphasis must choose one of the following four advanced modality tracks:
  - 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

● Area of Emphasis ◆ 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.

FOUR YEAR PLAN COLLEGE OF HEALTH PROFESSIONS 2019-2020

MY ADVISOR'S NAME IS: _____

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.

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 Sci	●	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 302	Principles of Radiation Physics	●	3		MI 307	Rad Protection	●	3	
MI 303	Image Acquisition	●	3		MI 308	Rad Image Analysis	●	2	
MI 304	Radiographic Pathology	●	3		MI 309	Digital Image Acquisition	●	2	
MI 305	Clinical Practice IV	●	4		MI 310	Clinical Practice V	●	4	
MI 306	Seminar Imaging Science	●	1		MI 311	Seminar Imaging Sciences	●	1	
MI 321	Procedures III	●	3			Statistics	◆	3	
TOTAL HOURS			**17**		**TOTAL HOURS**			**15**	

Summer Term (optional):

YEAR FOUR

FALL SEMESTER					SPRING SEMESTER				
CODE	COURSE NAME		HRS	GRADE	CODE	COURSE NAME		HRS	GRADE
	Core II Fine Arts	●	3			Advanced Modality Track	●	14-17	
	Advanced Modality Track	●	13						
TOTAL HOURS			**16**		**TOTAL HOURS**			**14-17**	

Summer Term (optional):

● Area of Emphasis ◆ 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.

MEDICAL IMAGING - RADIOGRAPHY — 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 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 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 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
- Mammographer
- Cardiac/Interventional Radiologist
- MRI Technologist
- Cardiovascular Technologist
- Radiology Administrator
- Sonographer
- Medical and Health Services Manager

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