

Academic Rhode Map for BS Medical Imaging Major at Rhode Island College with Concentration in Magnetic Resonance Imaging

GENERAL EDUCATION: A complete listing of General Education courses can be found at the Office of Academic Support (OASIS) 401 456-8083 or in the online catalog; look at catalog for year you enrolled. For Gen Ed courses, aside from Second Language requirement, which varies depending on where you are placed, you need ONE course from each category. Second Language 101/102 options are: American Sign, Arabic, French, German, Italian, Japanese, Korean, Latin, Portuguese, or Spanish. For other ways to satisfy the second language requirement look under the Gen Ed. section of the catalog. For information about Math Placement exam visit the orientation webpage. Any courses marked (F) offered Fall only; (Sp) Spring only. Courses with a “W” in the prefix are Writing in the Discipline (WID) courses and will be writing intensive. Courses with an asterisk* have prerequisites.

Academic Major Checklist	Course	Academic Major Checklist	Course
BIOL 108 Basic Principles of Biology*		MEDI 463W Senior Seminar in Medical Imaging (Sp)* (WID)	
BIOL 231 Human Anatomy*		MRI 302 Foundations of Magnetic Resonance Imaging (Sp)*	
BIOL 335 Human Physiology*		MRI 303 Procedures I (Sp)*	
CHEM 105 General, Organic and Biological Chemistry I (F, Su)*		MRI 304 Physical Principles I (Sp)*	
MATH 209 Precalculus Mathematics*		MRI 305 Clinical Education I (Sp)*	
PHYS 110 Introductory Physics*		MRI 306 Procedures II (Su)*	
MEDI 201 Orientation to Medical Imaging*		MRI 307 Clinical Education II (Su)*	
MEDI 203 Complete Introduction to Medical Imaging (F)*		MRI 431 Physical Principles II (F)*	
MEDI 205 Medical Terminology in Medical Imaging (F)*		MRI 432 Clinical Education III (F)*	
MEDI 255 Patient Care in Medical Imaging (F)*		MRI 433 Advanced Procedures in Magnetic Resonance Imaging (Sp)*	
MEDI 308 Professional Behavior in Medical Imaging (F)*		MRI 434 MRI Registry Review (Sp)*	
MEDI 309 Sectional Anatomy in Medical Imaging*		MRI 435 Clinical Education IV (Sp)*	
MEDI 410 Pathology of Medical Imaging (F)*			
PLEASE NOTE THAT ENROLLMENT IN ANY MEDI COURSE ABOVE THE 201 LEVEL OR ANY MRI COURSE, REQUIRES FORMAL ADMISSION INTO THE MRI CLINICAL PROGRAM			

This map is a semester-by-semester plan to help you toward graduation in four years, including one summer semester. Not everyone graduates in four years as it depends on how many courses you can take, how you do in those courses and when, or if, you are accepted into the clinical program. This map is not your only route; it is a suggestion. Many of the courses in this list have prerequisites that can only be fulfilled by following the suggested course sequence.

In the following tables, the column to the left suggests the ideal courses for you to take each semester. There are times when those courses may be full or unavailable the semester you plan to take them, in this case consider another course from a different semester with which you can switch. The column on the right has "Checkpoints" for each semester that show where you should be by the end of that semester. You should work from this map as you plan each semester's schedule with your advisor. You should plan to see your advisor in late September for the Spring Semester and in February for the Fall. The Map is designed primarily for freshmen coming to college for the first time, but transfer students may also use the Rhode Map with the understanding that they have most likely completed several requirements through transfer of credit and will be starting further into the program. Maps assume a Fall start.

GRADUATION REQUIREMENTS: The following requirements must be completed by undergraduate degree candidates at Rhode Island College in order to graduate:

- General Education program, including a second language requirement and RIC 100 or its equivalent
- College Math Competency (which is separate from the Gen Ed math requirement)
- College Writing Competency (satisfied by FYW with a minimum grade of C)
- Academic Major—see check chart. Writing in the Discipline requirement is satisfied through major courses
- A minimum of 120 credit hours, with a minimum of 45 credit hours taken at RIC. Of the 45 credit hours, a minimum of 15 credit hours must be in the major (12 of which must be at the 300- or 400-level)
- A minimum overall grade point average of 2.70
- A minimum grade of C in all required courses

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SEMESTER 1	CR	SEMESTER 1 CHECKPOINTS
First Year Writing (FYW 100) or First Year Seminar (FYS 100).	4	FYW 100P is a 6-credit option. There is a Directed Self-Placement questionnaire you can take to aid in this decision; check the RIC First Year Writing website
RIC 100 Introduction to Rhode Island College	1	Exempt if taking COLL 101, COLL 150, or HONR 150
CHEM 105 General, Organic and Biological Chemistry I (F, Sul)* satisfies Gen Ed Natural Science (NS) Lecture and Lab.	4	Math competency MUST be completed in order to take ALL science courses (or math placement exam). If not, will need to take MATH 010 this semester
BIOL 108 General Principles of Biology*	4	Prereq. is Math competency; Minimum grade of C
Gen Ed--Second Lang 101 (based on placement, a course higher than 101/102 may be taken). If language requirement already satisfied: Any Gen Ed Distribution course.	4	Language placement test with Dept. of Modern Languages (optional). Complete Second Lang 101 (if needed)
Requirements and GPA		Aim for 16 earned credits (While 12 is fulltime, 16 credits are preferred to stay on track to graduate in 4 years). Minimum 2.70 GPA overall
# CREDITS EARNED	17	Make appointment with advisor in Sept. to discuss your schedule for next semester

SEMESTER 2	CR	SEMESTER 2 CHECKPOINTS
FYW 100 or FYS 100	4	Complete FYS and FYW, for FYW, grade C or better
BIOL 231 Human Anatomy*	4	Prereq. BIOL 108 with C or better
MATH 209 Precalculus Mathematics*	4	Prereq. MATH 120, or placement exam; Gen Ed- Math completed
Gen Ed--Second Lang 102* (if needed), or any other needed Gen Ed	4	Complete Second Language 102* (if needed)
Requirements and GPA		Aim for minimum of 32 earned credits. Minimum 2.70 GPA
# CREDITS EARNED	16	Make appointment with advisor in Feb. to discuss your schedule for next semester

SEMESTER 3	CR	SEMESTER 3 CHECKPOINTS
MEDI 201 Orientation to Medical Imaging*	1	Prereqs are BIOL 231 and MATH 209. Complete TEAS Exam
PHYS 110 Introductory Physics*	4	Prereq. is MATH 120 or appropriate score on math placement exam
Gen Ed Distribution course from one of these GE categories: Arts (A); Literature (L); History (H), or Social and Behavioral Sciences (SB).	4	
Gen Ed Distribution course from one of these GE categories: Arts (A); Literature (L); History (H), or Social and Behavioral Sciences (SB), or elective	3-4	
Requirements and GPA		Maintain 2.7 minimum GPA overall
# CREDITS EARNED	12-13	Make appointment with advisor in Sept. to discuss your schedule for next semester

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SEMESTER 4	CR	SEMESTER 4 CHECKPOINTS
Choose 1 Connections course (Gen Ed-C)*	4	Prereqs are 45 completed credits and FYW and FYS.
BIOL 335 Human Physiology (Gen Ed. AQR)*	4	Prereqs are BIOL 108 with grade of C or better, and BIOL 231
Gen Ed Distribution course from one of these GE categories: Arts (A); Literature (L); History (H), or Social and Behavioral Sciences (SB).	4	
Gen Ed Distribution course from one of these GE categories: Arts (A); Literature (L); History (H), or Social and Behavioral Sciences (SB), or elective	3-4	All ten Gen Ed courses and second lang. req. completed
Requirements and GPA		Prior to applying for MRI clinical program, complete all pre-clinical required courses with a grade of C or better: MEDI 201, BIOL 108, BIOL 231, BIOL 335, CHEM 105, MATH 209, and PHYS 110. Maintain 2.7 minimum GPA overall. If applying for a medical imaging clinical program, consult with your advisor, write your essay, and submit your application through MyRIC by May 15.
# CREDITS EARNED	15-16	Make appointment with advisor in Feb. to discuss your schedule for next semester

SEMESTER 5 (Clinical Freshman Fall I)	CR	SEMESTER 5 CHECKPOINTS
MEDI 203 Complete Introduction to Medical Imaging (F)*	3	Prereq. acceptance into a Medical Imaging clinical program
MEDI 205 Medical Terminology in Medical Imaging (F)*	1	Prereq. acceptance into a Medical Imaging clinical program
MEDI 255 Patient Care in Medical Imaging Health (F)*	3	Prereq. acceptance into a Medical Imaging clinical program
MEDI 308 Professional Behavior in Medical Imaging (F)*	3	Prereq. acceptance into a Medical Imaging clinical program
MEDI 309 Sectional Anatomy in Medical Imaging*	3	Prereq. acceptance into a Medical Imaging clinical program (also offered in Sp)
Requirements and GPA		Minimum grade of C in all required courses, with overall GPA of 2.70. Minimum of 67 earned credits. All ten Gen Ed courses and second lang. req. completed
# CREDITS EARNED	13	Make appointment with advisor in Sept. to discuss your schedule for next semester

SEMESTER 6 (Clinical Freshman Spring I)	CR	SEMESTER 6 CHECKPOINTS
MRI 302 Foundations of Magnetic Resonance Imaging (Sp)*	3	Prereq. acceptance into a Medical Imaging clinical program
MRI 303 Procedures I (Sp)*	3	Prereq. acceptance into a Medical Imaging clinical program
MRI 304 Physical Principles I (Sp)*	4	Prereq. acceptance into a Medical Imaging clinical program
MRI 305 Clinical Education I (Sp)*	3	Prereq. acceptance into a Medical Imaging clinical program
Requirements and GPA		Minimum grade of C in all clinical courses; minimum 2.70 GPA overall
# CREDITS EARNED	13	Make appointment with advisor to discuss your schedule for next semester

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SEMESTER 7 (Clinical Senior Summer I)	CR	SEMESTER 7 CHECKPOINTS
MRI 306 Procedures II (Su)*	3	Prereq. MRI 303
MRI 307 Clinical Education II (Su)*	5	Prereq. MRI 305
Requirements and GPA		Minimum grade of C in all clinical courses; minimum 2.70 GPA overall
# CREDITS EARNED	8	

SEMESTER 8 (Clinical Senior Fall II)	CR	SEMESTER 8 CHECKPOINTS
MRI 431 Physical Principles II (F)*	4	Prereq. MRI 304
MRI 432 Clinical Education III (F)*	5	Prereq. MRI 307
MEDI 410 Pathology of Medical Imaging (F)*	3	Prereq. MEDI 309
Requirements and GPA		Minimum grade of C in all clinical courses; minimum 2.70 GPA overall. Apply for graduation
# CREDITS EARNED	12	

SEMESTER 9 (Clinical Senior Spring II)	CR	SEMESTER 9 CHECKPOINTS
MRI 433 Advanced Procedures in Magnetic Resonance Imaging (Sp)*	3	Prereq. MRI 432
MRI 434 MRI Registry Review (Sp)*	6	Prereq. MRI 432
MRI 435 Clinical Education IV (Sp)*		Prereq. MRI 432
MEDI 463W Senior Seminar in Medical Imaging (Sp)* (WID)	3	Prereq. DMS 433 or MEDI 410
Requirements and GPA		Minimum grade of C in all clinical courses, and 2.70 GPA overall. Need a minimum of 120 credits to graduate
# CREDITS EARNED	13	Attend Gradfest and Commencement

For more information, check the Medical Imaging options on the Biology Department website:
<https://www.ric.edu/departments-directory/departments-biology/departments-biology-undergraduate-programs/medical-imaging-bs>

The total credit count for the major is 84 credits, and 40 credits for General Education, with possibly 9 more depending on secondary language needs and RIC 100. However, 12 Gen Ed. credits for M, NS, and AQR will double-count, that makes the minimum program total 112 credits, leaving room for 8 credits that may need to include secondary language courses and RIC 100, or can be electives, so it is possible you may have more than 120 credits at graduation.