

# Academic Rhode Map for BS Health Sciences Major at Rhode Island College with Concentration in Medical Laboratory Sciences

**GENERAL EDUCATION:** A complete listing of General Education courses can be found 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, 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*		ENGL 233W Writing for the Health Professions*	
BIOL 231 Human Anatomy*		MATH 240 Statistical Methods I*	
BIOL 335 Human Physiology*		MEDT 301 Clinical Microbiology (F)*	
BIOL 348 Microbiology*		MEDT 302 Clinical Chemistry (Sp)*	
BIOL 429 Medical Microbiology*		MEDT 303 Immunohematology (F)*	
CHEM 103 General Chemistry I*		MEDT 304 Hematology (Sp)*	
CHEM 104 General Chemistry II*		MEDT 305 Pathophysiology (F)*	
CHEM 205 Organic Chemistry I (F, Su)*		MEDT 306 Clinical Immunology (Sp)*	
CHEM 206 Organic Chemistry II (Sp, Su)*		MEDT 307 Clinical Microscopy (F)*	
CHEM 310 Biochemistry (F)*		PHYS 101 Physics for Science and Mathematics I*	
CSCI 102 Computer Fundamentals for Cyber Security*			

This map is a semester-by-semester plan to help you toward graduation in four years. Not everyone graduates in four years as it depends on how many courses you can take, and how you do in those courses. This map is not your only route; it is a suggestion. You might take additional courses over the summer (or early spring/winter) to catch up or get ahead if the courses you need are offered at these times. While many courses in your major will have prerequisites that you will need to take in a special order, there is some flexibility in this map, but always double check you have the correct prerequisites for a course you plan to take.

The column to the left on the other side of this page 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 which 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, before checking in with your advisor. 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 Milestone (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 above. 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 2.0
- A minimum grade point average of 2.0 in your major

Approved by Program Director: Eric Hall Date 6/22/2020

Approved by Curriculum Committee: Date 6/22/2020

Revised: 6/1/2023

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<b>SEMESTER 1</b>	<b>CR</b>	<b>SEMESTER 1 CHECKPOINTS</b>
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
Gen Ed--Second Lang 101 (based on placement, a course higher than 101/102 may be taken). If language requirement satisfied: another Gen Ed Distribution course.	4	Language placement test with Dept. of Modern Languages (optional). Complete Second Lang 101 (if needed)
CHEM 103 General Chemistry I (Gen Ed Natural Science)	4	Prerequisite is Math Milestone/Math Placement Exam; minimum grade of C-
BIOL 108 Basic Principles of Biology*	4	Prereq. is Math Milestone; minimum grade of C
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). Math Milestone completed. Minimum 2.0 GPA
# CREDITS EARNED	16	Make appointment with advisor to discuss your schedule for next semester in Sept.

<b>SEMESTER 2</b>	<b>CR</b>	<b>SEMESTER 2 CHECKPOINTS</b>
FYW 100 or FYS 100	4	Complete FYS and FYW, for FYW, grade C or better
CHEM 104 General Chemistry II*	4	Prereq. CHEM 103 with a minimum of C-
BIOL 231 Human Anatomy*	4	Prereq. minimum of C in BIOL 108
Gen Ed--Second Lang 102* (if needed), or another Gen Ed Distribution course in a needed category.	4	Complete Second Lang 102* (if needed)
Requirements and GPA		Need a minimum of 30 earned credits. Minimum 2.0 GPA
# CREDITS EARNED	16	Make appointment with advisor to discuss your schedule for next semester in Feb.

<b>SEMESTER 3</b>	<b>CR</b>	<b>SEMESTER 3 CHECKPOINTS</b>
CHEM 205 Organic Chemistry I (F, Su)*	4	Prereq. is CHEM 104 with a minimum of C-
MATH 209 Precalculus I* (Gen Ed Mathematics)*	4	Prereq. MATH 120, or appropriate score on Mathematics Placement Exam
ENGL 233W Writing for the Health Professions* (WID)	4	Prereqs. are any FYW or completion of the college writing requirement
Gen Ed Distribution course from <b>one</b> of these Gen Ed categories: Arts (A); History (H); Literature (L); Social Behavioral Science (SB)	4	
Requirements and GPA		Need minimum of 45 earned credits, with minimum of 2.0 GPA overall and in the major
# CREDITS EARNED	16	Make appointment with advisor in Sept. to discuss your schedule for next semester, and discuss possible minor

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<b>SEMESTER 4</b>	<b>CR</b>	<b>SEMESTER 4 CHECKPOINTS</b>
BIOL 335 Human Physiology*	4	Prereq. BIOL 108 and 231. Satisfies Gen Ed- Advanced Quantitative/Scientific Reasoning (AQSR)
CHEM 206 Organic Chemistry II (Sp, Su)*	4	Prereq. CHEM 205
CSCI 102 Computer Fundamentals for Cyber Security *	4	Prereq. Math Milestone
Gen Ed Distribution course from <b>one</b> of these Gen Ed categories: Arts (A); History (H); Literature (L); Social Behavioral Science (SB)	4	
Requirements and GPA		Need minimum of 60 earned credits, with minimum of 2.0 GPA overall and in the major
# CREDITS EARNED	15-16	Make appointment with advisor to discuss your schedule for next semester in Feb

<b>SEMESTER 5</b>	<b>CR</b>	<b>SEMESTER 5 CHECKPOINTS</b>
BIOL 348 Microbiology*	4	Prereqs. BIOL 108 with a minimum of C
CHEM 310 Biochemistry* (F)	4	Prereq. CHEM 206
PHYS 101 Physics for Science and Mathematics I*	4	Prereq. MATH 120 or appropriate score on Mathematics Placement Exam
Gen Ed Distribution course from <b>one</b> of these GE categories: Arts (A); History (H); or Literature (L); or Social Behavioral Science (SB), or elective	3-4	
Requirements and GPA		Aim for minimum of 75 earned credits, with minimum of 2.0 GPA overall and in the major
# CREDITS EARNED	15-16	Make appointment with advisor to discuss your schedule for next semester in Sept.

<b>SEMESTER 6</b>	<b>CR</b>	<b>SEMESTER 6 CHECKPOINTS</b>
Choose Connections course (Gen Ed-C)*	4	Prereqs are 45 earned credits and FYW and FYS.
BIOL 429 Medical Microbiology*	4	Prereq. BIOL 348, CHEM 205 and CHEM 206
MATH 240 Statistical Methods I*	4	Prereq. Math Milestone or appropriate score on Mathematics Placement Exam
Gen Ed Distribution course from <b>one</b> of these Gen Ed categories: Arts (A); History (H); Literature (L); Social Behavioral Science (SB), or elective	3-4	
Requirements and GPA		Aim for minimum of 90 earned credits, with minimum of 2.0 GPA overall and in the major. Apply for degree audit online through MyRIC
# CREDITS EARNED	15-16	Make appointment with advisor to discuss your schedule for next semester in Feb.

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<b>SEMESTER 7</b>	<b>CR</b>	<b>SEMESTER 7 CHECKPOINTS</b>
MEDT 301 Clinical Microbiology (F)*	8	Prereq. acceptance into Med. Lab Science program
MEDT 303 Immunohematology (F)*	4	Prereq. acceptance into Med. Lab Science program
MEDT 305 Pathophysiology (F)*	2	Prereq. acceptance into Med. Lab Science program
MEDT 307 Clinical Microscopy (F)*	2	Prereq. acceptance into Med. Lab Science program
Requirements and GPA		All ten GE courses and second lang. req. completed Aim for minimum of 105 earned credits, with minimum of 2.0 GPA overall and in the major
# CREDITS EARNED	16	Make appointment with advisor to discuss your schedule for next semester in Sept.

<b>SEMESTER 8</b>	<b>CR</b>	<b>SEMESTER 8 CHECKPOINTS</b>
MEDT 302 Clinical Chemistry (Sp)*	8	Prereq. acceptance into Med. Lab Science program
MEDT 304 Hematology (Sp)*	6	Prereq. acceptance into Med. Lab Science program
MEDT 306 Clinical Immunology (Sp)*	2	Prereq. acceptance into Med. Lab Science program
Requirements and GPA		Need minimum of 120 earned credits, with minimum of 2.0 GPA overall and in the major
# CREDITS EARNED	16	Attend Gradfest and Commencement

**For more information, check the Health Science Department website:**

<https://www.ric.edu/department-directory/department-biology/department-biology-undergraduate-programs/health-sciences-bs>

**NOTE: The total credit count for Health Science (concentration in Medical Laboratory Services) major is 88 credits, although 12 of those may be offset against Gen Ed. courses (AQSR, NS, M), which leaves 28 more credits of Gen Ed. and possibly 9 more depending on secondary language needs and RIC 100. The minimum credit count will be 110 credits (without secondary language or RIC 100), which could leave just one elective credit.**