

GENERAL EDUCATION: A complete listing of General Education courses can be found at the Office of Academic Support (OASIS) **401** 456-8083 or online at http://www.ric.edu/recordsoffice/Pages/College-Catalog.aspx; 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. Any courses marked (F) offered Fall only; (Sp) Spring; (Su) Summer. All courses marked with an asterisk * have a prerequisite. For info. about Math Placement exam visit: http://www.ric.edu/orientation/Pages/Math-Placement.aspx. Courses with (WID) are Writing in the Discipline courses and will be writing intensive.

Academic Major Checklist	Course	Academic Major Checklist	Course
CSCI 211 Computer Programming and Design*		CSCI 435 Operating Systems and Computer	
CSCI 212 Data Structures* (WID)		Architecture*	
CSCI 309 Object-Oriented Design*		THREE courses from: CSCI 305 Functional Programming (F)*; CSCI 415 Software Testing (Sp)*; CSCI416 Human-Computer Interaction	
CSCI 312 Computer Organization and Architecture I*		Design*; CSCI 422 Introduction to Computation Theory (Sp)*; CSCI 427 Introduction to Artificial Intelligence*; CSCI 428 Machine Learning* (Sp); CSCI 437 Networks and Programming * CSCI 455	
CSCI 313 Computer Organization and		Introduction to Database Systems (F)*; CSCI 467 Computer Science	
Architecture II*		Internship*; CSCI 476 Advanced Topics in Computer Science (Sp)*	
CSCI 325 Organization of Programming Language*		Cognates:	
CSCI 401 Software Engineering* (WID)		MATH 212 Calculus I*	
CSCI 423 Analysis of Algorithms*		MATH 436 Discrete Mathematics*	
IT IS RECOMMENDED that students also take the following:			
COMM 208 Public Speaking		MATH 213 Calculus II*	
ENGL 230 Workplace Writing*		MATH 315 Linear Algebra (F)*	
MATH 209 Precalculus Math*			

Please note: Students must consult with their assigned advisor before they will be able to register for courses

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. While there are many courses in your major that have prerequisites that will need you to take them in a special order, there is some flexibility in this map. All courses that have prerequisites are marked with an asterisk* in the checklists above and in the map.

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 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 below.
- 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).

Revised: 6/1/2020

- A minimum overall grade point average of 2.0
- A minimum grade point average of 2.0 in your major



SEMESTER 1	CR	SEM	ESTER 1 CHECKPOINTS 🗸
First Year Writing (FYW 100) or First Year	4	☐ FY	YW 100P is a 6-credit option. To decide which FYW to
Seminar (FYS 100).		ta	ake, see Directed Self-Placement test at
		W	ww.ric.edu/firstyearwriting
RIC 100 Introduction to Rhode Island College	1	□ Ex	xempt if taking COLL 101, COLL 150, or HONR 150
CSCI 157 Introduction to Algorithmic Thinking,	4	□ Re	ecommended as the prerequisite for CSCI 211
or Gen Ed.		☐ Pr	rereq. college math competency completed
MATH 209 Precalculus Math* (if needed to be	4	☐ Pr	rereq. for MATH 209 is MATH 120 or appropriate
ready for calculus) or MATH 212 Calculus I*		SC	core on mathematics placement exam; recommended
[either one satisfies Gen Ed Mathematics (M)]		☐ Pr	rereq for MATH 212 is MATH 209 or appropriate score
		or	n mathematics placement exam
Gen EdSecond Lang 101 (based on placement, a course	4		anguage placement test with Dept. of Modern Languages
higher than 101/102 may be taken). If language requirement		-	optional)
already satisfied: Any Gen Ed Distribution course.			omplete Second Lang 101 (if needed)
			im for 16 earned credits (While 12 is fulltime, 16 credits
			re preferred to stay on track to graduate in 4 years)
			lath Competency completed
Requirements and GPA			1inimum 2.0 GPA
# CREDITS EARNED	17		lake appointment with advisor to discuss your
		SC	chedule for next semester in Sept.
SEMESTER 2	CR	SEM	ESTER 2 CHECKPOINTS ✓
FYW 100 or FYS 100	4		omplete FYS and FYW, for FYW, grade C or better
MATH 212 Calculus I* (if not yet taken), or Gen	4	☐ Pr	rereq for MATH 212 is MATH 209 or appropriate score
Ed.		or	n mathematics placement exam; Gen Ed. Math.
CSCI 211 Computer Programming and Design*	4	☐ Pr	rereq. is CSCI 157 or consent
Gen EdSecond Lang 102* (if needed), Gen Ed,	3-4	□ Co	omplete Second Language 102* (if needed)
elective, or course toward minor/major			
		☐ Ai	im for minimum of 32 earned credits
Requirements and GPA		□ М	1inimum 2.0 GPA
# CDEDITC EADNED	15 16	П Ма	ake annointment with advicer to discuss your schedule for next semester in Eeh

SEMESTER 3	CR	SEMESTER 3 CHECKPOINTS ✓
CSCI 212 Data Structures* (WID)	4	☐ Prereq. is CSCI 211
CSCI 309 Object-Oriented Design*	4	Prereq. is CSCI 201 or 211
ENGL 230 Workplace Writing*, or COMM 208	4	☐ Recommended not required
Public Speaking, or elective		☐ Prereq, for ENGL 230 is FYW 100 or completion of
		College Writing Requirement
Gen Ed Distribution course from one of these	4	☐ Consider Gen Ed Natural Science (NS)
categories: Arts (A); Literature (L); History (H), Natural		
Science (NS); or Social and Behavioral Sciences (SB).		
		☐ Aim for minimum of 48 earned credits,
Requirements and GPA		☐ Minimum of 2.0 GPA overall and in major
# CREDITS EARNED	16	☐ Make appointment with advisor to discuss your schedule for next
		semester and discuss possible minor or double major in Sept.



SEMESTER 4	CR	SE	MESTER 4 CHECKPOINTS ✓
CSCI 312 Computer Organization and Architecture	4		Prereq. is CSCI 201 or 211
CSCI 325 Organization of Programming Language*	3		Prereq. is CSCI 212 or 315
MATH 436 Discrete Mathematics (Sp)*	3		Prereq. is MATH 212
Gen Ed Distribution course from one of these	4		
categories: Arts (A); Literature (L); History (H), Natural			
Science (NS); or Social and Behavioral Sciences (SB).		_	A: 6
Dogwing magnets and CDA			Aim for minimum of 64 earned credits
Requirements and GPA # CREDITS EARNED	1.1		Minimum of 2.0 GPA overall and in major Make appointment with advisor to discuss your schedule for next semester in Feb.
# CREDITS EARNED	14	Ш	make appointment with advisor to discuss your scriedule for next semester in Feb.
SEMESTER 5	CR	SF	MESTER 5 CHECKPOINTS ✓
CSCI 313 Computer Organization and	3		Preregs are CSCI 312 and either CSCI 211 or 221
Architecture II*	3		ricieds are CSCI 312 and either CSCI 211 of 221
Choose ONE from: CSCI 305 Functional Programming (F)*;	3-4		Need to complete a minimum of THREE CSCI electives
CSCI 416 Human-Computer Interaction Design*; CSCI 427			(there are several offered only in Fall or Spring and they
Introduction to Artificial Intelligence*; CSCI 437 Networks			have only been listed here when potentially offered
and Programming *; CSCI 455 Introduction to Database			that semester)
Systems (F)*; CSCI 467 Computer Science Internship*; or			Prereqs. vary—see catalog
another needed Gen Ed.			
MATH 240 Statistical Methods I* or MATH 248	4		Recommended (not required) statistics; satisfies Gen Ed AQSR
Business Statistics I* or elective			Prereq. for MATH 240 is MATH 120 or consent; Prereq. for MATH 248
			is MATH 177 or consent
Gen Ed Distribution course from one of these	4		
categories: Arts (A); Literature (L); History (H), Natural Science (NS); or Social and Behavioral Sciences (SB).			
Science (N3), or Social and Behavioral Sciences (SB).			Aim for minimum of 80 earned credits
Requirements and GPA			Minimum of 2.0 GPA overall and in major
# CREDITS EARNED	14-15		Make appointment with advisor to discuss your schedule for next semester in Sept.
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SEMESTER 6	CR	SE	MESTER 6 CHECKPOINTS ✓
Choose 1 Connections course (Gen Ed-C)	4		Prereqs are 45 completed credits and FYW and FYS.
CSCI 401 Software Engineering* (WID)	3		Preregs are CSCI 212 or 315, CSCI 309 and at least two
			additional computer science courses at the 300-level or
			above, or consent of department chair
			This course, also, could be taken in Semester 8
CSCI 423 Analysis of Algorithms*	4		Preregs are MATH 212, MATH 436 and either CSCI 212 or CSCI 315;
			satisfies Gen Ed Advanced Quantitative/Scientific Reasoning (AQSR)
			Could be taken in Semester 8, and elective or Gen Ed course taken here
Gen Ed Distribution course if needed, or CSCI elective	3-4		
			Aim for minimum of 96 earned credits
			If pursuing minor or second major make sure you have registered
			for this with the relevant department prior to audit
			Minimum of 2.0 GPA overall and in major
Requirements and GPA			Apply for degree audit online through MyRIC
# CREDITS EARNED	14-15		Make appointment with advisor to discuss your schedule for next semester in Feb.



SEMESTER 7	CR	SEMESTER 7 CHECKPOINTS ✓
CSCI 435 Operating Systems and Computer	3	☐ Prereqs are CSCI 313 and either CSCI 212 or 315
Architecture*		
MATH 213 Calculus II* or elective	3-4	☐ Recommended not required
		☐ Prereq. is MATH 212 and satisfies Gen Ed. AQSR.
Choose ONE from: CSCI 305 Functional Programming (F)*;	3-4	☐ Need to complete a minimum of THREE from this list
CSCI 416 Human-Computer Interaction Design*; CSCI 427		(also consider the Spring only options)
Introduction to Artificial Intelligence*; CSCI 437 Networks		☐ Prereqs. vary—see catalog
and Programming *; CSCI 455 Introduction to Database		
Systems (F)*; CSCI 467 Computer Science Internship*; or		
elective		
MATH 315 Linear Algebra (F)* or elective	3-4	☐ Recommended not required
		☐ Prereq. is MATH 300 which also may need to take
		☐ Aim for minimum of 108 earned credits
		☐ Minimum of 2.0 GPA
		☐ Minimum GPA of 2.0 in major
Requirements and GPA		☐ All ten GE courses and second lang. req. completed
# CREDITS EARNED	12-15	☐ Make appointment with advisor to discuss your
		schedule for next semester in Sept.

SEMESTER 8	CR	SEMESTER 8 CHECKPOINTS ✓
Choose ONE from: CSCI 415 Software Testing (F (Sp)*; CSCI 416 Human-Computer Interaction Design*; CSCI 422 Introduction to Computation Theory (Sp)*; CSCI 427 Introduction to Artificial Intelligence*; CSCI 428 Machine	3-4	 □ Complete a minimum of THREE from this list (also consider the Fall only options) □ Prereqs. vary—see catalog □ Completed CSCI 401 and CSCI 423
Learning (Sp)*; CSCI 437 Networks and Programming *; CSCI 467 Computer Science Internship*; or CSCI 476 Advanced Topics in Computer Science (Sp)*		Completed eser 401 and eser 425
Choose another course from the above list, or elective	3-4	
Gen Ed Distribution course if needed, or elective	3-4	
Elective, or course toward minor	3-4	
		□ Need minimum of 120 earned credits□ Minimum of 2.0 GPA
Requirements and GPA		☐ Minimum GPA of 2.0 in major
# CREDITS EARNED	12-16	Attend Gradfest and Commencement

For more information, check the COMPUTER SCIENCE Department website:

http://www.ric.edu/mathComputerScience/Pages/default.aspx

Also note: Students cannot count toward the major more than TWO courses with grades below C-

NOTE: The minimum total credit count for the BA Computer Science major is 49 credits (depending on choices), and there are 40 credits of Gen Ed. with possibly 9 more depending on secondary language needs and RIC 100. However, 8 Gen Ed. credits for M and AQSR will double-count, making the total 81 credits (though this will be at least 20 credits higher if you take the additional recommended courses), leaving room for 39 credits that may need to include two secondary language courses and RIC 100, but could go toward a minor or electives.