

B.S. in Biological Sciences

Academic Program Guide for **New First-Year Students** (Effective Fall 2018) Department of Biological Sciences (bioadvising@rowan.edu)

Students who entered Rowan University prior to Fall 2018 should follow the guide for their program and start year in consultation with their advisor.

Rowan University Graduation Requirements for all Majors / Degrees

- Students must complete at least 120 semester hours (sh) of coursework that apply to their Rowan University degree.
- Students must have a cumulative GPA of at least 2.0 in Rowan University coursework. (Transfer courses/credit do not count toward the RU GPA.)
- A minimum of 30 sh of coursework must be completed at/through Rowan University.
- Only grades of “D-” or above may apply to graduation/degree requirements. (Some programs may set higher minimums.)
- Students must meet the Rowan Core and Rowan Experience Requirements.
 - An individual course can potentially satisfy one Rowan Core literacy and/or multiple Rowan Experience attributes.
 - Rowan Core and Rowan Experience designations are listed in course details in Section Tally (www.rowan.edu/registrar) and may also be searched on that site under “Attributes.” A list of Rowan Core courses is here: <https://confluence.rowan.edu/display/AS/Rowan+Core+Course+List>.
- Students must apply for graduation and should do so for the term in which they will complete all program requirements.

Program-Specific Graduation Requirements for this Major / Degree

- Students must receive a grade of C- or better in all introductory-level biology courses to progress to the subsequent course (BIOL 01104, 01106, 01203, and 01204).
- Students must receive a grade of C or better in all upper-level biology electives.
- Students must have an overall GPA of at least 2.0 in the associated chemistry, physics, and mathematics requirements for the major.

Rowan Core Requirements¹

*Students must satisfy all **six** Rowan Core Literacies. A minimum total of 3 sh of coursework is required to satisfy each Literacy.*

With the exception of the 9 sh counted here for Communicative Literacy, credits attached to the courses in this section will apply elsewhere.

(COML) Communicative Literacy: *Must be met by the following three courses or their official equivalents:*

COMP 01111 College Composition I (3 sh) COMP 01112 College Composition II (3 sh) CMS 04205 Public Speaking (3 sh)

(ARTL) Artistic Literacy *Recommendation from major:*

(GLBL) Global Literacy *Recommendation from major:*

(HUML) Humanistic Literacy *Recommendation from major:* PHIL 09369 or PHIL 09376 (3 sh counted under non-program)

(QNTL) Quantitative Literacy *Recommendation from major:* MATH 01130 (4 sh counted under non-program)

(SCIL) Scientific Literacy *Recommendation from major:* CHEM 06100 or BIOL 01104 (4 sh counted under major)

Subtotal of credits counted in this section: 9 sh

Rowan Experience Requirements

Students must satisfy all three Rowan Experience attributes. Credits attached to the courses in this section will apply elsewhere.

(LIT) Broad-Based Literature Attribute *Recommendation from major:*

(WI) Writing Intensive Attribute *Recommendation from major:* PHIL 0939 or PHIL 09376 (3 sh counts under non-program)

(RS) Rowan Seminar Attribute² *Recommendation from major:* BIOL 01104 (4 sh counted under major)

Non-Program Courses (minimum 18 sh)

Courses in this section cannot be in the major department.

Course #	Course Name	Course Attributes / Notes	Sem/Yr	Grade	Credits
MATH 01130	Calculus I	Satisfies Quantitative Literacy			4
PHIL 09369 or PHIL 09376	Philosophy of Science-WI or Philosophy of Medicine-WI	Satisfies Humanistic Literacy and WI requirement			3
					Subtotal: 18 sh

¹ The Rowan Core requirements are waived for transfer students with an earned A.A. or A.S. degree from a NJ community/county college.

² The Rowan Seminar requirement is waived for all students transferring 24 or more approved credits into Rowan University at the time of initial entry.

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Major Requirements (66 sh)

SUMMARY OF MAJOR REQUIREMENTS

- 44 sh of Foundational Courses
 - 22 sh of Upper-Level Courses
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- 66 sh total

FOUNDATIONAL COURSES

Course #	Course Name	Course Designations / Notes	Sem/Yr	Grade	Credits
BIOL 01104	Introduction to Evolution and Scientific Inquiry	Satisfies RS requirement			4
BIOL 01106	Introduction to Genetics				4
BIOL 01203	Introduction to Cell Biology				4
BIOL 01204	Introduction to Ecology				4
CHEM 06100	Chemistry I				4
CHEM 06101	Chemistry II				4
CHEM 07200	Organic Chemistry I				4
CHEM 07201	Organic Chemistry II				4
PHYS 00210	Physics I w/o Calculus				4
PHYS 00211	Physics II w/o Calculus				4
STAT 00280	Biometry				4
Subtotal:					44 sh

UPPER-LEVEL COURSES

Course #	Course Name	Course Designations / Notes	Sem/Yr	Grade	Credits
	Upper level biology lab elective	Must be at 300+ level			4
	Upper level biology lab elective	Must be at 300+ level			4
	Upper level biology lab elective	Must be at 300+ level			4
	Biology lab elective	Must be at 200+ level			4
	Upper level elective	May be lecture based; must be at 300+ level			3
BIOL 01445 or BIOL 01475	Special Topics or Biology Lab/Field Research				3
Subtotal:					22 sh

Free Electives for this Major/Degree (27 sh)

Students should choose Free Electives that satisfy any Rowan Core or Rowan Experience requirements that are not fulfilled by Major or Non-Program courses.

Course #	Course Name	Course Attributes / Notes	Sem/Yr	Grade	Credits
Subtotal:					27 sh

Total Program Credits Required for this Major / Degree: 120 SH