

# BACHELOR OF SCIENCE, BIOLOGY

## GENERAL EDUCATION REQUIREMENTS

42-43 S.H.

*(Parentheses indicate prerequisites)*

<b>CHECK TO BE SURE THE FOLLOWING REQUIREMENTS ARE COMPLETED:</b>				
<input type="checkbox"/> <b>Writing Intensive Course (WI)</b> <input type="checkbox"/> <b>Multicultural/Global Course (M/G)</b> <input type="checkbox"/> <b>Lab Science Course (LAB)</b>		<input type="checkbox"/> <b>Broad Based Literature Course (LIT)</b> <input type="checkbox"/> <b>Computer Competency Exam or Computer Literacy Course</b> <input type="checkbox"/> <b>Rowan Seminar (RS) – Freshmen Only</b>		
<b>Transfer</b>	<b>Rowan</b>	<b>Rowan #</b>	<b>COMMUNICATIONS BANK</b>	<b>9-10 S.H.</b>
		COMP 01111 COMP 01105	College Composition I (3 s.h.) or Integrated College Composition I (4 s.h.)	3-4 s.h.
		COMP 01112	College Composition II ( <i>College Composition I</i> )	3 s.h.
		CMS 06202	Public Speaking ( <i>College Composition II</i> )	3 s.h.
<b>Transfer</b>	<b>Rowan</b>	<b>Rowan #</b>	<b>SCIENCE/MATHEMATICS BANK</b>	<b>8 S.H.</b>
		MATH 01130	Calculus I	4 s.h.
		CHEM 06100 CHEM 06105	Chemistry I or Advanced Chemistry I	4 s.h.
<b>Transfer</b>	<b>Rowan</b>	<b>Rowan #</b>	<b>SOCIAL &amp; BEHAVIORAL SCIENCES BANK</b>	<b>6 S.H.</b>
			3 hours, student choice	3 s.h.
			3 hours, student choice	3 s.h.
<b>Transfer</b>	<b>Rowan</b>	<b>Rowan #</b>	<b>HISTORY/HUMANITIES/LANGUAGE BANK</b>	<b>6 S.H.</b>
		PHIL 09369	Philosophy of Science	3 s.h.
			3 hours, student choice	3 s.h.
<b>Transfer</b>	<b>Rowan</b>	<b>Rowan #</b>	<b>ARTISTIC &amp; CREATIVE EXPERIENCE BANK</b>	<b>3 S.H.</b>
			3 hours, student choice	3 s.h.
<b>Transfer</b>	<b>Rowan</b>	<b>Rowan #</b>	<b>NON-PROGRAM COURSES</b>	<b>10 S.H.</b>
			Student choice	10 s.h.

- ◆ This information has been provided by the department listed above as of the date listed below and is subject to change.
- ◆ To declare this major go to the CAP Center in Savitz Hall, or
- ◆ If this is a restricted major, Requirements for entering this major are attached.
- ◆ A suggested sequence of courses is also attached.

ROWAN # COURSE NAME S.H.

**PREREQUISITES**

BIOL 01104	Biology 1: Diversity, Evolution & Adaptation	4	
BIOL 01106	Biology 2: Concepts in Genetics	4	<i>Biology 1 – BIOL 01104</i>
BIOL 01203	Biology 3: Introduction to Cell Biology	4	<i>Biology 1 – BIOL 01104 &amp; Biology 2 – BIOL 01106</i>
BIOL 01204	Biology 4: Global Ecology	4	<i>Biology 1 – BIOL 01104 &amp; Biology 2 – BIOL 01106 &amp; Biology 3 – BIOL 01203 <b>OR</b> Biology 1 – BIOL 01100 &amp; Biology II – 01101 &amp; Biology 3t – BIOL 01202</i>
CHEM 06101	Chemistry II	4	<i>Chemistry I - CHEM 06100</i>
CHEM 07200	Organic Chemistry I	4	<i>Chemistry II - CHEM 06101 or Adv. Chemistry II - CHEM 06106</i>
CHEM 07201	Organic Chemistry II	4	<i>Chemistry II - CHEM 06101 or Adv. Chemistry II - 106 and Organic Chemistry I - CHEM 07200</i>
PHYS 02202	Physics I	4	<i>Intermediate Algebra - MATH 01121 or Equivalent</i>
PHYS 02203	Physics II	4	<i>Physics I with calc - PHYS 02200 or Physics I without calc - PHYS 02202</i>
STAT 02280	Biometry	4	<i>Calc I – MATH 01130 &amp; Biology I – BIOL 01100 &amp; Biology II – BIOL 01101</i>

**Major Electives** \_\_\_\_\_ **22 s.h.**

(Total of 22 credits; no fewer than 20 credits from laboratory courses)

*Students may apply any Biology course towards the major with the exceptions of:*

BIOL 20100	Natural Resources	BIOL 01112	General Biology: Environmental Focus
BIOL 01110	Human Biology	BIOL 01115	General Biology: Plants and People
BIOL 01113	General Biology: Human Focus	BIOL 01210	Biological Systems and Applications

**Free Electives** \_\_\_\_\_ **16 s.h.**

- \* Instructor’s Permission
- \*\* Majors only
- \*\*\* must complete major credits
- \*\*\*\* must have senior standing
- (to be used for unique pre-requisites for majors)

NOTE: Must have at least 4 different laboratory courses among biology electives. At least 20 s.h. must be taken at Rowan. Need 30s.h. of Bio total. A grade of “C” or better is needed for each Bio course.

**\*\*\*A combined GPA of 2.0 is required for Chemistry I, Chemistry II, Organic Chemistry I, Organic Chemistry II, Physics I, Physics II, Calculus I and Biometry.\*\*\***

**General Education (see other side).....42s.h.**

**Total Credits in Program.....120 S.H.**

## Suggested Course Sequence

### Biological Sciences

PLEASE NOTE: Considerable flexibility exists for moving courses between spring and fall semesters, except when a course is only offered in spring or fall (noted in some Specialization Courses). When altering course sequences, give careful consideration to prerequisites.

FIRST SEMESTER		SECOND SEMESTER	
College Composition I COMP 01111	3	College Composition II COMP 01112	3
Chemistry I CHEM 06100	4	Chemistry II CHEM 06101	4
Biology 1: Diversity, Evol & Adapt BIOL 01104	4	Biology 2: Concepts in Genetics BIOL 01106	4
Calculus I MATH 01130	4	Biometry STAT 02280	4
THIRD SEMESTER		FOURTH SEMESTER	
Organic Chemistry I CHEM 07200	4	Organic Chemistry II CHEM 07201	4
Biology 3: Intro to Cell Biology BIOL 01203	4	Biology 4: Global Ecology BIOL 01204	4
Physics I PHYS 02202	4	HHL Elective (LIT)	3
Public Speaking CMS 06202	3	Physics II PHYS 02203	4
FIFTH SEMESTER		SIXTH SEMESTER	
Biology Elective	4	Biology Elective	4
Biology Elective	4	Artistic & Creative Exp Gen. Ed.	3
Philosophy of Science PHIL 09369	3	SBS Gen Ed (M/G)	3
Non-program Course	3	Non-program Course	3
		Free Elective	3
SEVENTH SEMESTER		EIGHTH SEMESTER	
Biology Elective	4	Biology Elective (any)	4
SBS Gen Ed	3	Special Topics (WI)	3
Non-program Course	3	Non-program Course	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
<b>NOTES OR COMMENTS</b>			
PLEASE BE SURE TO GET AN ADVISOR AND MEET WITH HIM/HER REGULARLY !!!			