



Directions for Undergraduate Program Director Reports:

1. Talk to students in your major, ask around if there are any current academic issues.  
(ex: class conflicts within the major, issues with professors, etc)
2. Look at Degree Navigator, write down the course requirements
3. Formulate a list of things you would like to know about the program (corporate connections with the university, current research projects, opportunities for students to get involved, etc)
4. Email Undergraduate Program Director and Arrange Appointment
5. Fill out Undergraduate Report Sheet
6. email to [vicepresident@sgc.rutgers.edu](mailto:vicepresident@sgc.rutgers.edu) and complete by December 16th



Name: Michael Botros

Major: Biological Sciences

Date: 12/16/2016

Semester: Fall 2016

Undergraduate Program Director: Dr. Carr-Schmid and Dr. Ventola

UPD Contact Information:

advisor@biology.rutgers.edu Dr. Carr-Schmid (848) 445-2075 Ventola (848) 932-3000

I. Major Options - What options are offered within the major? How do they differ?

This major offers no options. It is a very broad major that allows for connections to every major based on the interests of the student. The advisors are looking for students to explore their interest.

II. Total number of students within the major

The total number of students in all of Rutgers is about 1000 declared.

III. Goals within the major - What are expectations of students post-graduation?

The goals that are associated with pursuing the major are pursuing an advanced education, work in an industrial and research setting, as well as a five year program students pursuing a teaching career.

IV. Major Courses - What is the goal of each course? What should students be learning?

The goal of the major courses is to provide students with a strong foundations in basic sciences so that they can learn their interests in a general manner. This allows for the learning of different subjects. In this, they can choose which area to pursue.

General Chemistry I and II

General Biology I and II

Calculus

Organic Chemistry I and II

General Physics I and II

Genetics

Life Science Elective Courses - expand on interests.

V. Concerns/Student issues with classes? How to resolve, suggestions?

Getting into courses such as Microbiology and Genetics.

Resolution: Apply for the Waitlist since Biology Courses do not offer SPNs

Passing General courses that are difficult in order to ensure learning.

Resolution: See advisors for help and specialized learning opportunities.

VI. Things going on within the major (Research, Visitors, Talks, Seminars within the

major)

There are seminars that are available for every department. The Biological Sciences department is actually very small and focuses on generalizing. It is not a specialized area of expertise that offers individualized research and talks. One of the top 3 majors.

## VII. Research Opportunities

Speak with specialty professors of the interest that is being pursued.

## VIII. Job Outlook, suggestions for students in this major (ex: organizations to join, news to pay attention to)

Organizations to Join: Pre-Med Honors Society, Biology Club restarting Fall 2016 with Dr. Carr-Schmid as the advisor.  
Encourages Research and Networking through Research Mixers, Career Services, and Student Employment Office.  
Look into SPIN Programs for Credit while working.

## IX. Changes within the major in the upcoming year?

BIO 115 is now being offered in the Spring.  
BIO 116 is now being offered in the Fall.  
ONLY LIMITED SPOTS FOR BOTH.

## X. Other Suggestions

Take advantage of resources: Learning Center, ODASIS, SEE ADVISORS!!  
Degree Navigator, Specialty Advisors.

There is a specialized system for students who have met with their advisor:  
<http://biology.rutgers.edu/>. Click on "Review Your MAJOR Progress"

Requirement V1: General Biology - Types: Major - 3 Courses

01:119:115 - General Biology 1

01:119:116 - General Biology 2

01:119:117 - General Biology Lab

Requirement V2: Genetics - 1 Course

01:447:380 - Genetics

Requirement V3: Non-Life Science Core - Types: Major - 6 Courses

**General Chemistry and Lab**

01:160:162 (General Chemistry I), 01:160:162 (General Chemistry II), 01:160:171

Or

01:160:163 (Honors General Chemistry I), 01:160:164 (Honors General Chemistry II),  
01:160:171 (Intro to Experimentation).

**Organic Chemistry Lecture**

01:160:307 (Organic Chemistry 1), 01:160:308 (Organic Chemistry 2)

Or

01:160:315 (Honors Organic Chemistry 1), 01:160:316 (Honors Organic Chemistry 2)

**Organic Chemistry Lab**

01:160:313 (Organic Chemistry Laboratory), 01:160:314 (Organic Chemistry Laboratory)

OR

01:160: 311 (Organic Chemistry Laboratory)

Requirement V4: Non-Life Science Core - Types: Major - 2 Courses

**Calculus I**

01:640:135 (Calculus 1)

**Calculus II**

Or

**Upper Level Statistics**

Or

**Introductory Statistics**

Requirement V5: Non-Life Science Core - Types: Major - 2 Courses

**Physics I - Lecture**

01:750:193 (Physics for the Sciences)

Or

01:750:201 (Extended General Physics)

Or

01:750:203 (General Physics)

**Physics II - Lecture**

01:750:194 (Physics for the Sciences)

Or  
01:750:202 (Extended General Physics)  
Or  
01:750:204 (General Physics)

Requirement V6: Non-Life Science Core - Types: Major - 2 Courses

**Physics I - Lab**

01:750:193 (Physics for the Sciences)  
Or  
01:750:201 (Extended General Physics)  
Or  
01:750:205 (General Physics Lab)

**Physics II - Lab**

01:750:193 (Physics for the Sciences)  
Or  
01:750:201 (Extended General Physics)  
Or  
01:750:206 (General Physics Lab)

Requirement V7: Life Science Electives - 24 Credits  
Find at <https://biology.rutgers.edu>

Requirement V8: Life Science Electives - 3 Courses  
Find at <https://biology.rutgers.edu>

Requirement V9: Upper Level Courses - 18 Credits  
Find at <https://biology.rutgers.edu>