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 and complete by December 4th

Name: __Vita Bankauskas_____

Major:___Biological Sciences_____

Date:____November 2018_____

Semester: ___Fall_____

Undergraduate Program Director: __ Joe Ventola_____

UPD Contact Information:

848-932-3000 _____Martin Hall, 200_____

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

This course of study is recommended for those who wish to study biology as part of their liberal arts education, preparing them for a career in one of the health professions, graduate studies in biology, a teaching career in secondary schools (courses in education are also required), as well as employment in various areas of the life sciences. A student who wishes to concentrate in a specific area of biology should consider a major offered by one of the departments in the Division of Life Sciences or at the School of Environmental and Biological Sciences..

The course requirements for the Biological Sciences major are divided into two sections, the Life Sciences Core and the Life Sciences Electives.

Life Sciences Core is mandatory for all students who major in biological sciences while students can choose which Life Science Electives they wish to take.

II. Total number of students within the major

167

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

Students majoring in biological sciences can pursue careers in government, industry, and secondary school teaching; a degree in biological sciences satisfies entrance requirements for medical school and dental schools.

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

The goals of the major courses for the biological sciences major are:

I. To acquire the appropriate factual and conceptual knowledge that provides students with a foundation to further their education and career in the areas of life science or health science.

II. To develop data analysis and statistical reasoning skills that prepares students for a society increasing reliant on the use of data and information.

III. To develop the ability to use scientific reasoning as embodied by the structured process commonly known as the scientific method to empower students with the ability to generate and refine knowledge.

IV. To develop critical thinking and problems solving skills appropriate to prepare students to evaluate, synthesize and generate knowledge that provides them with a competitive advantage to adapt to an evolving, global, and knowledge based society.

Students should be learning:

- Ability to observe and describe nature accurately
- Ability to construct and critique logical arguments in biology
- Ability to apply the scientific method, that is:
    1. Observe a problem
    2. Use inductive reasoning to develop a testable hypothesis
    3. Design an appropriate experimental protocol
    4. Collect data
    5. Use deductive reasoning to explain the outcome of the experiment and to make predictions
- Ability to communicate ideas and arguments effectively both orally and in writing
- Ability to collaborate by working effectively in a team
- Ability to apply problem-solving to learning
- Ability to apply quantitative reasoning to biological questions
- Ability to evaluate information, especially that available on the internet

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

None

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

-Seminars at SEBS

-Cell Biology and Neuroscience Seminars

-Molecular Biology and Biochemistry Seminars

-Genetics Seminars

VII. Research Opportunities

-Seminars

-Research for Credit

-ARESTY program

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

- Division of Life Sciences- Summer Undergraduate Research Fellowship
- SAS Honors Life Sciences Summer Undergraduate Research Fellowship
- Honors College with Johnson & Johnson Women in STEM2D Life Sciences Summer Undergraduate Research Fellowship
- RWJMS - Summer Undergraduate Research Programs

- Rutgers Career Services
- **Health Related Experiences List from Career Services ***
- For SEBS students, the Student to Professional Internship Network, SPIN
- Here are guidelines for the SPIN internship for Biological Sciences majors.
- Rutgers FIGS Peer Instructors
- Rutgers International Service Learning Programs
- Douglass Project for Women in STEM

IX. Changes within the major in the upcoming year?

None