ANNUAL PROGRAM REPORT

Academic Program	Sciences and Mathematics
Reporting for Academic Year	2015 - 2016
Department Chair	Cynthia S. Trevisan
Date Submitted ***Forms are submitted in fall term following the academic year under review**	November 22, 2016.

1. SELF-STUDY (Approx. 500 words)

Please present any planning goals from the last comprehensive Program Review, and report on progress toward achieving these goals.

Since our last Program Review (2013), our program achieved the following goals:
The chemistry program replaced its *Chemistry I* class with two specialized chemistry classes: *Introductory Chemistry*, and *General Chemistry*.

Two new classes were created in the marine sciences program, namely, *Marine Biology Laboratory*, and *Directed Research*.

A math minor was created, which included the development of the following new classes: Introduction to *Linear Algebra*, *Complex Analysis*, and *Probability and Statistics*.

One new class was created in the physics program: *Physics for Future Leaders*. No progress was made towards creating a minor in physics.

Supplemental instruction sessions were established for several classes in chemistry, physics and mathematics. Tenure-track faculty members in all programs (with the exception of computer sciences) have engaged undergraduate students in research projects at an individual level.

Faculty in our physics program were instrumental in creating and advising a new student club (Earth to Sky Maritime), which launches weather balloons into the upper stratosphere with the goal of conducting a variety of fundamental physics experiments like the measurement of solar energy flux.

B.

2. <u>SUMMARY OF ASSESSMENT</u> (Approx 500 words)

A. Program Student Learning Outcomes

<u>Sciences – Student Learning Outcomes</u>

1. Understand scientific principles and their relationship to the physical universe. (IWSLO-B,D)
2. Use theories, principles and models, in conjunction with the scientific method to analyze problems in science. (IWSLO-B,C,D)
3. Acquire and utilize mathematical and computational techniques to both analyze and comprehend problems in science. (IWSLO-B,C,D,G)
4. Effectively communicate scientific information in a way that is meaningful and convincing (IWSLO-A,F)

<u>Mathematics – Student Learning Outcomes</u>

1. Apply mathematical techniques and reasoning to problems in math. (IWSLO-C)
2. Create mathematical expressions from a word or application problem and analyze those expressions applying mathematical principles. (IWSLO-B,C)
3. Demonstrate an understanding of the theoretical and practical aspects of solving problems in math. (IWSLO-B,D)

B. Program Student Learning Outcome(s) Assessed

All program student learning outcomes were assessed.

3. STATISTICAL DATA

Statistical data is meant to enhance and support program development decisions. These statistics will be attached to the Annual Report of the Program Unit. This statistical document will contain the same data as required for the five-year review including student demographics of majors, faculty and academic allocation, and course data.

Program	Fall 2015
A. Students	
1. Undergraduate	NA (no majors offered)
2. Postbaccalaureate	NA (no majors offered)
B. Degrees Awarded	NA (no majors offered)
C. Faculty	
Tenured/Track Headcount	
1. Full-Time	8
2. Part-Time	0