# **Program Review for Physics & Astronomy**

Development of Action Steps

## **General Comment:**

The reviewers were impressed with the curriculum, highlighted student satisfaction with the program, but also identified challenges that could impede the program's growth and erode some core strengths (plant biology expertise and collaborations related to it)

## **Commendations:**

- 1. The Department is a valuable resource and has demonstrated very high quality in research and education
- 2. Morale is high
- 3. Faculty, graduate students and undergraduate students are involved in exciting research
- 4. High student satisfaction with faculty
- 5. Active partnership with the American Museum of Natural History via the AstroCom NYC program

## **Identified Issues:**

- 1. Seniority of faculty members/risk of loss from retirement. The Solid State group with two faculty is particularly vulnerable
- 2. The Department's research composition is almost entirely theoretical, which is reflected in the curriculum with a lack of advanced lab courses
- 3. Office and research space is limited
- 4. The number of physics majors is small
- 5. Students expressed concern about the lack of a community environment on campus, course availability, and tutoring resources
- 6. There is a burden for maintenance of instructional lab equipment and rapid replacement of supplies

### **Recommendations:**

Recommendation	Strengths Leveraged/Issues Addressed	Notes	Responsible Party	Actions Taken
1. Add one additional	Issue 1		Provost	
tenure-earning faculty			Dean	
member within the			Program	
next few years to				
strengthen the Solid				
State group				
2. Develop a plan of	Issue 1		Provost	
action with the senior			Dean	
administration to			Program	
guarantee "one-to-one				
replacements" of				
retiring faculty				

3. Consider hiring	Issue 2	Provost	
more faculty in		Dean	
experimental physics		Program	
4. Develop curricula	Issue 4	Dean	
that can attract more		Program	
physics majors.			
Complete the			
development of the			
astronomy minor and			
begin development of			
a medical physics			
program		 	
5. Provide greater	Issue 3	Provost	
physical plant support,		A&F	
particularly more		Dean	
student and faculty		Program	
offices. Each faculty			
member should have			
an individual room			
6. Establish a student	Issue 6	Program	
lab fee or a dedicated			
funding line for the			
daily operations of the			
instructional labs			