

Program Planning and Assessment (PPA)
for Academic Programs

Comprehensive Review, Annual Review & Ac

Dean's Comments (required) :

Astronomy is a growing/rebounding discipline, with a new degree and up to date curriculum/learning assessment. Astronomy and the planetarium are working toward a higher level of coordination ; both will benefit .

Typed Name of Area Dean Shannon Bliss Date 5/27/15

VPAA Comments (required for comprehensive reviews):

Typed Name of VPAA Date

This PPA report is organized in 3 sections and 11 subsections as follows:

- I. Comprehensive Review a. Overall Program Effectiveness, b. Instructional Staffing, c. CTE Programs Labor Market & Achievement, and d. Program Goals.
- II. Annual Review a. Course Data & Trends, b. Teaching Modality, c. Curriculum, d. Outcomes, and e. Previously Scheduled Activities.
- III. Annual Action Plan a. New Activities and b. Resource Requests.

INSTRUCTIONS

è For programs/disciplines scheduled for comprehensive review in spring 2015

I. COMP REHENSI VE REVIEW

This section must be completed for ALL academic programs, including those scheduled for a comprehensive review in spring 2015.

A. COURSE DATA & TRENDS

1. Please evaluate the 3-year trend of enrollment and success of courses in your program/ discipline. Identify the courses you are choosing to examine this current year in the list below. You do NOT need to evaluate trends for each cou

During Spring 2012 and Fall 2012 enrollment in Astronomy lecture has increased(compared to Fall 2011) because of the addition of an extra section offered at King City. During Fall 2012 there was a drop of enrollment in the laboratory sections because one laboratory section had to be canceled. During Spring 2014, there has been a

In general, there is a higher student success rate in the AST1L (upper 80%-low 90%) than in AST-1 lecture (upper 60%- low 70%). This is because the majority of the student grade in the lecture is based on exams whereas as the majority of the student grade in the labs is based upon the laboratory write-ups. Students are in general more successful with their laboratory write -ups because they can work in groups, are given feedback from the instructor, and

DEGREES AND CERTIFICATES

4. Descr

3. Describe the process to change and

c. CURRICULUM

Complete the following tables pertaining to courses scheduled for re

List Program level outcome(s) scheduled for assessment as previously specified

What changes have occurred

2. Describe how program level outcomes were specific

COURSE LEVEL STUDENT LEARNING OUTCOMES

4. Please complete the following tables.

List courses scheduled for SLO assessment as previously specified	In what term was the course assessed?	Was the Course Assessment Summary Report completed?
AST	Will be assessed Spring 201	Not yet
AST1	Will be assessed Spring 201	Not yet
AST Onlin	Will be assessed Spring 201	Not yet

List courses scheduled for SLO assessment in AY 2015-16	Faculty member(s) responsible for coordinating	Target semester and year Fa 2015 or Sp 2016
AST	Pimol Moth, Philip Deutsch	Spring 201
AST1	Pimol Moth, Philip Deutschl	Spring 201
AST Onlin	Pimol Moth, Philip Deutsch	Spring 201

5. Describe course level assessments results and how they will influence your plans for the future. Since courses will be assessed during Spring 2015, the results will not be discussed until the

6. Describe assessment activities that need to be

41.8ET

Activity scheduled	What success has been achieved to date on this activity?	What challenges existed or continue to exist?	Will activity continue into AY 15-16?	Will activity continue into AY 16-17?*
1. The offering of Observational Astronomy Course as a Special Project course or as an Experimental Astronomy course	This course was not offered because AST45 has been inactivated.	We needed to purchase Mira Pro software to execute this course as an experimental astronomy course but this software was unable to be purchased.	Instead of a special project, we can incorporate the same type of activity as part of an internship	If successful, it may continue during this period

* For each activity that will continue into AY 2016-17 and th

This section must be completed for ALL academic programs, whether s

1. List information concerning new projects or activities planned. The first activity listed should be the most important; the second activity listed the second most important, etc. Please keep in mind that resources needed, if funded, would not be approved until spring 2016 and provided until FY 2016-17. Ongoing activities involving resources that will no longer be available from grant funds starting FY 2016-17 must be planned for appropriately.

Activity	Strategic Plan Goal(s) No. & Letter (e.g., 5A)*	Related Courses, SLOs, PLOs, or goals	Desired Outcome(s)	Resources Needed	Person Responsible	Estimated Date of
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2. This item is used to describe how the new ac

This activity will help to fulfill the Astronomy program goal to increase awareness and interest in STEM fields, and in particular in Astronomy for the underrepresented population. Including more planetarium shows into the classroom will help students to become more fascinated with the beauty of the night sky and celestial objects in the sky, which directly relates to the Core Competancy, Aesthetic Appreciation. This activity also fulfills Strategic plan goals 2A, 2B (Student Success) because it will help students be more successful in their Astronomy course. This activity also fulfills 4A (Effective Utilization of Resources) because it will bring about a big Bang for the Buck because for just a small increase in salary, there will be a large gain in benefits/positive exposure to the College when the Planetarium is used to

*** Please complete this page for each

This internship will satisfy this program outcome by allowing students to experience what it would be like to be a research astronomer. They will receive hands on training and practical experience typical of astronomy research by learning how to take their own observations and subsequently analyzing the images to understand the properties of astronomical objects. This course will address strategic priority 1, 2, 4, 5, and 6. Strategic Priority #1- Student success is addressed because after taking this course, students will be more prepared and successful when they transfer in STEM majors. Strategic Priority #2, #4, #5, #6 - Student access, effective utilization of resources, innovation and relevance for educational programs, and partnerships with industry, business, agencies, and education are addressed because this course gives students access to the latest software and technology used in observational astronomy while partnering with Fremont Peak Observatory and Salinas High Observatory.

c) Does this acti

*** Please complete this page for each new activity. ***

2. This item is used to describe how the new activity, or continuing new activity, will

If yes, descri

*** Please complete this page for each new activity. ***

2. This item is used to describe how the new activity, or continuing new activity, will support the program/discipline.

Consider:

- Faculty
- Other staffing
- Facilities
- Equipment (non-expendable, greater than \$5,

[Begin response here]

d) What measurable outcomes are expected from this activity? List indicators of success.

With this activity, it is hoped that the student success and retention rate would increase. Because the club will allow students to participate in activities outside of the classroom that are related to the field, it may help to maintain and even increase their interest in the subject. Students in the club will share a common interest and can be a support network for each other. This will allow them to form study groups and help each other succeed in the difficult classes. Also, because the mentor will be able to get to know the students better in a more personal environment, she will be better able to gauge the progress of the students and inform them of opportunities that arise in the field.

e) What are the barriers to achieving success in this activity?

The main barrier to achieving success in this activity is to recruit enough students who are interested in joining the club and also finding students who are responsible enough and are able to have enough time in their schedule to be the officers in the club. Another barrier is that the instructor who will be the advisor for the club will have to be able to have enough time to devote to the club outside of the classroom.

B. RESOURCE REQUESTS

If new/ additional resources are needed for your program/

5. Not tied to any activity		2 Small laboratory carts							\$600.00
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* Personnel: Include a C, E, or M after the amount to indicate Classified Staff, Faculty, or Manager.

** S for Supplies, E for Equipment. If additional supplies, for example, are needed for ongoing activities, this should be requested through the budget rollover process.

*** H for Hardware, S for Software.

APPENDIX A. Strategic Priorities & Goals (from Hartnell College Strategic Plan 2013-2018)

Priority 1: **Student Access**

Goal 1A: Hartnell College will provide higher education, workforce development, and lifelong learning opportunities with seamless pathways to all of the colleges present and prospective constituent individuals and groups.

Priority 2: **Student Success**

Goal 2A: Hartnell College will provide a supportive, innovative, and collaborative learning environment to help studen

Priority 5: Innovation and Relevance for Programs and Services

Goal 5A: Hartnell College will provide programs and services that are relevant to the real-world needs of its diverse student population, while also developing and employing a culture of innovation that will lead to improved institutional effectiveness and student learning.

Priority 6: Partnership with Industry, Business Agencies and Education

Goal 6A: Hartnell College is committed to strengthening and furthering its current partnerships, in order to secure lasting, mutually beneficial relationships between the college and the community that the college serves.