

COMP REHENSI VE REVIEW

Ι.

B. INSTRUCTIONAL STAFFING

1. In the table

2. Describe the number of, activities of, and recommendations resulting from advisory committee meetings that have occurred over the past two years. What information and/or data were presented that required or currently require changes to be made to your program?

[Begin response here]

3. Does labor market data and/or the need for additional education indicate that changes should be made to your program? Does the program (continue to) meet a labor market demand and/or fulfill an important step toward higher/additional education?

[Begin response here]

D. PROGRAM GOALS

1. List and describe program/disciplinary goals for the next comprehensive review cycle. Be sure to highlight innovative, unique, or other especially noteworthy aspects.

In considering your program s future

This section must be completed for ALL academic programs, inc

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Use your Program Outcome Maps to assist you in this subsection. As you plan your course assessments, keep the higher level program outcome in mind. While course level assessment serves the purpose of examining the teaching and learning for that particular course, it also provides the data that will be viewed collectively for assessment of the associated program level outcomes.

PROGRAM LEVEL OUTCOMES

1.

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students need to develop ough time an practice. Many of our students lack these skills, and they approach physics by trying to memorize

the process. The overall goal is to softenen the assessment prodessising welldeveloped rubrics stored in eLumen that be easily accessed by otherphysics faculty In addition, eLumen will allowfulltime faculty to generate repsrtand work together with adjunct faculty physics.

During summer 201and Academic year 2012016, all the SLOs and PLOs will be assessed themselves to see if changes need to be made so that they meet higher level Blooms

Taxonomystandardsand whether they can be improved full-time instructor will meet with Mohammed Yahdi, who is in charge of SLOs, to see whatmprovements can be made. If changes are made, then the time last the time for the College procedure to change them.

E. PREVIOUSLY SCHEDULED ACTIVITIES

This subsection focuses on activities that were pr

This section must be completed for ALL academic programs, whether scheduled for annual or comprehensive review in spring 2015.

A. NEW ACTIVIT IES

This subsecton addresses new activities for, and continuing new activities into, AY 2015-16. An activity canaddress many different aspects of your program/discipline, and ultimately is undertaken to improve, enhance, and or keep your program/discipline area current. A new activity may or may not require additional resources. Activities can include but are not limited to:

- a. NEW CURRICULUM
- b. FURTHER DEVELOPMENT OF THE PROGRAM OR SERVICE
- c. GRANT DEVELOPMENT AND PROPOSALS
- d. FACULTY AND STAFF TRAINING
- e. MARKETING/OUTREACH
- f. ENROLLMENT MANAGEMENT
- g. STUDENT SERVICES
- h. ADMINISTRATIVE SERVICES
- i. SUPPORT OPERATIONS
- j. FACILITIES

1. List information concerning new projects or activities

Ongoing activities involving

2. Studen success: Continue to be part of Early Success Program

Continue to use TopHat

Supplemental Instruction, STEM tutoring, Math Academy, Math Learning Center, STEM 3 Transfer 1A, 2A, 2E engineering students to four year institutions in two years

One Melissa Hornstein physics/astronoLaura Fatuzzo my instructor,

4 math instructors,

1 chemistry technician, training for math adjuncts, STEM scholarships Examine grid for scheduling conflits for engineering majors. Schedule

4. Support STEN clubs and their outreach efforts, projects, events, etc.	6A			Supplies for STEM clubs and outreach such as STEN Olympics	Club officers Tito Polo		
5. Develop and offer the new course Phy 32 (4 ID PHYS140), Survey of Chemistry and Physics, which is geared towards elementary education teachers	1A and 5A	Phy 32 (new course)	Have enrollments of at least 21 students	None	Laura Fatuzz Slava Bekker	Spring 2016	Will work with chemistry instructor Slava Becker in developing the course and in team teaching i
6. Introduce Reading Apprenticeship to all physics classrooms.	2A, 2B					Ongoinç	Many students ar not reading the text, an essential part to student success in the physics classe Students need to be taught how to rea scientific writing, which is very different from other kinds of writing.

* See Appendix A for a list of the 11 goals in the college s Strategic Plan.

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- ð Equipment (non-expendable, greater than \$5,000), supplies (expendable, valued at less than \$5,000)
 ð Software

3. Transfer engineering students to fouryear institutions in two years

a) Describe the new activity or followon activity that this resource will support.

Hartnell College is near Silicon Valley, a driving force of the US economy. By eadeigrees in engineering, our students would be able to get high paying, secure jobs. It is important that we create a pathway for studeentcceed in pryear institutions. Enrollments in physics and engineering have grown substantially in the last cdepof years, and we have added PHY as well as one extra lab both Fall and Spring semesters. The curreintefull physics instructor will not be able to teach all of the new sections, and adjuncts in physics are difficult to finds in Tsiding why it is important to hire a full-time physics instructor.

b) Describe how this activity supports any of the following:

- 1) Core Competency
- 2)

a) Describe the new activity or followon activity that this resource will support.

STEM clubs teach students leadership skills, communication skills, and teamwork skills. In addition, it encouragesculudentreach building important ties to their community. These skills are important but often not gained and just participating in a course. That is why it is important to s all STEM activities. One activity that has been very important is the Physics Osymptotic activity has been done yearly for the past 25 years. It is an event that brings together local high school students to participate in a fun day of science. It is important to convintent to convintent to convintent of participants, and prize money.

b) Describe how this activity supports any of the following:

- 6) Core Competency
- 7) Program level Out13.5511(e)Corrontinue thi

- 8) Course level Outcome
- 9) Program/Discipline Goal
- 10) Strategic Priority Goal

It would support the Physics Program goal of meeting the needs to fe student community including Elementary Education students who need both chemistry and physics. In swould support Strangic Priority Goals 1 A and 5 A.

c) Does this activity span multiple academic years? Yes.

If yes, describe the action plan for completion of this activity.

Will work on developing the course durisgmmer2015 and all 2015 in order to have all thebs and resources ready spring2015.

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

The indicator of success would be to have the class offesepting2015 with at least 29 tudents signed up for the sta

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

Making sure students know that this new class is being offered. Can work with counselors to make sure that students falmis a weav class, especially the elementary weation students and faculty.

6.

a) Describe the new activity or followon activity that this resource will support.

Introduce Reading Apprenticeship to all physics classrooms.

b) Describe how this activity supports any of the following:

- 11) Core Competency
- 12) Program level Outcome
- 13) Course level Outcome
- 14) Program/Discipline Goal
- 15) Strategic Priority Goal

It would support strategic goals 2A and 2B

c. Does this activity span multiple academic years? NO

If yes, describe the action plan for completion this activity.

I will be part of an online week 30 hour training program for Reading Apprenticeship. I plaim corporate physics classes the techniques learned in orderto help students learn to read their physics texts.

d) What measureable otcomes are expected from this activity? List indicators of success.

I will give students short reading assignments. Will develop indicators as presented in the training.

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

Time limitations. These activities take time to do, and we have so little time to cover all of the topics. I will explore the possibility pof and generating Reading Activities take time to do, and we have so little time to cover all of the topics. I will explore the possibility pof and generating Reading Activities take time to any in class, but also in the lab, where students have to advance to advance

Sixty laptops

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	Systems (E)	1518.00
1	Two Diode Lase	
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1	Two Michelson	
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1	Five Electrical	
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	Apparatus (E)	845.00
1	Six Wireless	
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APPENDIX A. Strategic Prioriti es & Goals (from Hartnell Coll

Priority 5: Innovation and Relevance for Programs and Services

Goal5A: Hartnell College will provi