Academic Affairs

PROGRAM PLANNING AND ASSESSMENT EXECUTIVE SUMMARY

SPRING 2014

I. Service Area Name: Advanced Technology and Applied Science

II. Date of Review: May 2014

III. Service Area Mission Statement (optional):

IV. Service Area’s key duties, responsibilities, functions, activities, and tasks:
    Advanced Technology and Applied Science comprises the following disciplines: Agriculture (which includes Agriculture Business, Agriculture Production, and Food Safety), Agricultural and Industrial Technology, Advanced Automotive Technology, Advanced Diesel Technology, Computer Science and Information Technology (Computer Science, Digital and Web Design, Network and Security), Construction (Sustainable Construction and Sustainable Design), Drafting Technology, and Welding. Students in Advanced Technology pursue transfer and career technical education paths that lead to high demand, and high waged careers. The focus is on providing up-to-date hands-on education in state of the art facilities that focuses on labor market demands and industry-driven educational offerings. The ultimate goal is to prepare the most effective workforce to serve the local and regional industry needs. Additionally, the Alisal campus, which is the home of the division of Advanced Technology, is at the center of numerous outreach activities focusing on energizing the community and empowering citizens through education. The division is an active participant in the local and regional workforce development, and an ally to numerous businesses and associations.
V. Greatest strengths and most significant accomplishments during the past three years:

Some of the most significant accomplishments of Advanced Technology are:

- CSIT-in-3: this program is the nation’s first seamless collaboration between a community college and a 4-year institution to increase success and completion in computer science. It is over two-years of close collaboration between Hartnell and CSUMB to ensure that barriers are dropped and creativity is ensured.
- Food Safety program and the Western Regional Food Safety Summit at Hartnell College. Our program and conference are the premier educational venues for practitioners and have proven to be successes with students and professionals.
- Sustainable Design curriculum development. A unique program that focuses on sustainability in all aspects of construction, starting at the genesis.
- New curriculum for diesel, which has become Advanced Diesel Technology. The program was aligned with national standards to ensure up-to-dateness. Similarly, the auto program is in the process of acquiring a new curriculum, and becoming the Advanced Automotive Technology.
- Two new initiatives in agriculture are starting to materialize with course curriculum approved and two emphases in progress.
- Working with the deans overseeing English and Math we were able to create additional sections to cover the needs of Advanced Technology students during their hours of availability.
- Starting a tutoring program

VI. Major challenges during the past three years—that is, the aspects that are most in need of improvement:

- Finding adjuncts that would teach. Professionals are paid more in their respective industries than Hartnell pays.
- Getting adjuncts equivalencies. Extremely challenging to get people who have ample experience through the equivalency process.
- Budget allocations do not cover actual cost of instruction and upgrade.
- Lack of funds for memberships in professional and industry trade groups, organizations, etc.
- Lack of library services.
- Lack of consistent tutorial services.
- Restricted hours of counseling.

VII. Brief summary of continuous quality improvement actions to be taken that will help to build upon strengths and address challenges.