

Automotive Technology

Overview:

- Transportation continues to be a major economic driver of the greater Los Angeles region, with the Cerritos Auto Square comprising one of the largest dealership sales sites in the nation, The California Energy Commission reports that there were a total of 16,101,797 register light-duty cars in the state of as of 10/2015, and 987,817 medium and heavy-duty vehicles.
- Currently, the Automotive Mechanical Repair department is lacking in both General Motors (GM) transmission equipment and curriculum to remain consistent to OEM industry standards.
- The GM program needs to remain current on technology standards, purchasing of advanced diagnostic equipment will help our student meet the industry standard.

Core Indicator Alignment:

- Due to an aging population of automotive technicians nationwide, the demand for trained technicians has been increasing over the past several years, and will continue to do so for the near future. There is evidence that transportation technologies will continue to advance, as competition in the automotive sector is particularly strong in the global marketplace.
- Automotive repair has exhibited high and stable completion rates across the last six fall terms.
- With the upgraded curriculum and new GM transmissions, our students completing this two-year program should be capable of moving directly into employment at a dealership.

Solutions:

- The existing need for upgrades and expansion of curriculum and training aids/components currently being provided in the corporate automotive mechanical repair programs will be crucial to retaining program viability.
- This IPII Project will upgrade and enhance existing curriculum in Automotive Mechanical Repair, providing our students the capability to develop skills currently needed in the highly competitive and technical automotive industry.

Amount Funded: \$ 72,000

Music

Overview:

- The Commercial Music program is currently in its fourth year, providing students with stackable credentials which include an A.A. Degree, or a certificate option.
- The A.A. Degree integrates commercial music training with General Education curriculum, facilitating transfer to a four-year institution.
- Those students who wish to directly enter the workforce have the option to complete a 38-unit Certificate of Achievement in Commercial Music Production. This certificate provides students with the in-depth training that will facilitate their entry into internships, or paid positions where they may be able to build their professional experience.

Core Indicator Alignment:

- The redesigned and enhanced curriculum will reflect the potential for students of the Commercial Music Program to expand their knowledge in the audio recording, live sound production, and digital audio networking.
- Improving student skills and capabilities will allow them to work in a variety of environments that support the entertainment industry.
- This new certificate will train students in the basic principles of electronics and networking so that they can repair cables, configure computers for audio recording, build computer-recording systems and create a digital audio network for audio distribution.
- The Music department measures its success in terms of skills mastery as evidenced by grades, and retention.
- The building of internships and partnerships with the industry.
- The Commercial Music program progresses, the potential for a more diverse student audience will likely to occur particularly with the rise of independent women in audio engineers, in the based regions.

Solutions:

- This 13-unit certificate will offer technical infrastructure training for students seeking careers as audio technicians.
- Students will receive professional, certified training in audio system design using software and hardware as they apply to audio system installations in recording studios, theatrical venues, and presentation halls.
- The goal is to provide students with the ability to operate in professional environments where adaptability is crucial.

Submitted By: Andrew Maz

Amount Funded: \$ 56,500

Welding

Overview:

- The Cerritos College GTAW Welding Program is one of the most advanced College Aerospace Welding Programs in the U.S. The program offers students the opportunity to obtain 16 Industry Welding Certifications in addition to a Program Certificate of Achievement and A.A. Degree.
- The welding equipment industry has made substantial progress in equipment development. It would greatly benefit the program to update equipment to industry standards. Our students will be able to learn on equipment that meets industry standards and will enable them to be career ready for employment.

Core Indicator Alignment:

- These machines will facilitate improved skill attainment by increasing student engagement through ease of use and increased speed in which the students can be trained to safely and properly operate these welding machines.

- Decrease time necessary to train students and increase overall productivity of the machines, can reasonably increase student completion of welding projects, industry certification obtainment, satisfactory completion of welding courses.
- The new machines will lead to a less intimidating learning experience, which will prove to increase indicator completion percentages of those in the nontraditional groups.

Solutions:

- The goal is to update G.T.A.W. Inspection Laboratory by purchasing the Miller Dynasty 400 welding machines.
- The Welding Industry Advisory Committee has continually expressed concerns with our current equipment. By purchasing the new equipment, the equipment will be updated to meet industry standard and better prepare our welding students for the workforce.

Submitted By: Jason Foral

Amount Funded: \$ 75,000