

Final Report Program Information by TOP Code

District/College: CERRITOS CCD/CERRITOS COLLEGE
 Program Title: Engineering Design Technology

Agreement No.: 17-C01-006
 TOP Code: 095300

Briefly describe the program improvement issue(s) concerning this TOP code.			
Engineering Design Technology / Drafting have been rapidly changing and improving in the last several years at Cerritos College. One of the area where we lack the improvements is the non-traditional participation. Furthermore, drafting technology is rapidly changing with more computationally intensive programs, which represents problems for the execution on current computer stations.			
Briefly describe how the issue(s) will be addressed.			
We propose streamlining of the curriculum to align it with current industry needs and interests of non-traditional participants in case of ENGT, females, and purchasing of high power dual screen CAD stations to keep up with computational demands of the current generation software. Furthermore, to increase industry competitiveness of our graduates, we propose subscribing to the mold-making specialty CAD and to the soft products CAD and to the Parametric Optimization CAD and create classes to teach those technologies.			
Final Report Summary:			
1. Was the program improvement issues(s) addressed and/or planned objectives met (Narratives limited to 1000 characters)? If the response in Section 1 is No or Partially describe the barriers and/or lessons learned in Section 2. If the response in Section 1 is Yes or Partially describe the accomplishment and and/or effective practices derived from the project in Section 3			
Select <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially			
2. Describe any barriers encountered and lessons learned (Narratives limited to 1000 characters).			
3. Describe accomplishments/best practices derived from the project (Narratives limited to 1000 characters).			
We have streamlined class content to the contemporary needs to our industry partners. We have introduced new industrial certification "Certified solidworks additive manufacturing associate", and introduced mold design and mold making class to cross training with PMT. We have been able to attract large population of high school students through PLTW articulations, many of which are now graduating with Certificates of Achievements. We are developing testing and inspection class in collaboration with PMT department and our industry partners and looking into development of industry specific drafting classes for aerospace, medical devices and micromechanical systems.			
Requirement for Uses of Funds	MET	UNMET	NOW MET
1. Strengthening the academic, and career and technical skills of students participating in CTE programs through the integration of academics with CTE programs. [§135(b)(1)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Link CTE at the secondary and the postsecondary levels, including by offering elements of not less than one program of study described in §122(c)(1)(A). [§135(b)(2)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Provide students with strong experience in and understanding of all aspects of an industry, which may include work-based learning experiences. [§135(b)(3)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Develop, improve, or expand the use of technology in CTE, which may include training to use technology, providing students with the skills needed to enter technology fields, and encouraging schools to collaborate with technology industries to offer internships and mentoring programs. [§135(b)(4)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Provide in-service and pre-service professional development programs to faculty, administrators, and career guidance and academic counselors involved in integrated CTE programs, on topics including effective integration of academics and CTE, effective teaching skills based on research, effective practices to improve parental and community involvement, effective use of scientifically based research and data to improve instruction. Professional development should also ensure that faculty and personnel stay current with all aspects of an industry; involve internship programs that provide relevant business experience; and train faculty in the effective use and application of technology. [§135(b)(5)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Develop and implement evaluations of the CTE programs carried out with Perkins I-C funds, including an assessment of how the needs of special populations are being met. [§135(b)(6)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Initiate, improve, expand and modernize quality CTE programs, including relevant technology. [§135(b)(7)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Provide services and activities that are of sufficient size, scope and quality to be effective. [§135(b)(8)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Provide activities to prepare special populations, including single parents and displaced homemakers enrolled in CTE programs, for high-skill, high-wage or high-demand occupations that will lead to self-sufficiency. [§135(b)(9)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Describe specific future activity(ies) intended to address the remaining unmet requirement(s) (Narratives limited to 4000 characters):			
Final Report of Expenditure by TOP Code: \$43,955			
<input checked="" type="checkbox"/> Professional Dev. (including stipends)	<input checked="" type="checkbox"/> Instructional Materials Purchase/Replacement (including software)		
<input checked="" type="checkbox"/> Instructional Equipment Purchase/Replacement	<input type="checkbox"/> Project Administration		
<input type="checkbox"/> Facility rental/lease (off-campus location)	<input type="checkbox"/> Programs/Services for Special Populations		
<input type="checkbox"/> Curriculum Development	<input checked="" type="checkbox"/> Consultants or Other Contracted Services		
<input checked="" type="checkbox"/> Program Marketing and Outreach	<input checked="" type="checkbox"/> Other(specify) <u>CTE Coordinator assist in ad</u>		