

Bakersfield College Engineering and Industrial Technology

Instructional Program Level SLO and Assessment Plan

BC Mission: With its heritage as a foundation and an eye toward the future, Bakersfield College provides the high quality education necessary for our socially and ethnically diverse students--whether they be vocational, transfer-oriented, developmental, or some combination of these--to thrive in a rapidly changing world. We will accomplish our mission by:

1. Establishing strong connections with our student and business communities
2. Understanding the needs of our diverse student population
3. Responding to student and community needs with efficiency and flexibility
4. Honoring our long heritage of community involvement
5. Remaining vigilant in scanning our present and future environment within which we operate
6. Promoting tolerance and patience with all our stakeholders

Program Mission:

The mission of the Bakersfield College Engineering and Industrial Technology Department is to prepare vocational and transfer students for successful careers in engineering and industrial technology.

GE	SLO	Assessment Plan (Describe)	Course Matrix											Results/ Decisions	
			Course name - ARCH	Course name - AUTO	Course name - CNST	Course name - ELEC	Course name - ENGR	Course name - INDR	Course name - INDT	Course name - MFGT	Course name - WTRT	Course name - WOOD	Course name - WELD		
	Students will demonstrate proficiency in technical skills and safety principles required for industrial employment.	Track CTE Core Indicator 4 TOP code data for employment of our students by discipline. Track safety test results.	B6, B31, B32, B33, B55, B56	B1ab, B2ab, B14, B15, B50ab, B59, B62, B64ab, B67abc, B68, B73, B74, B75abcd, B76, B106, B112	B1, B3ab, B50ab, B54ab	B1, B4, B5, B6, B55a, B56, B61, B62, B63, B70	B17L, B45, B47	B10, B11, B20a, B20b, B40, B50, B51, B52	B10, B51	B1ab, B2, B3, B43L, B52, B53	B51, B52, B53, B61, B62	B1, B2, B5, B65ab	B1ab, B53ab, B54ab, B55abcd, B65ab, B74ab	Participants: Anderson, Canaday, Caras, Dixon, Dommer, Fernandez, Grays, Hageman, Johnson, Komin, Posey, Ralls, Rigby, Rozell, Taylor, Torres	CTE Core Indicator data shows that the EIT department has employment rates above 80%. (82.7% for Architecture & 83.2% for Engineering and Industrial Technologies) Currently, the EIT programs use different safety assessment tools in which students must obtain 100% in order to use equipment, etc. We plan on standardizing our safety assessment across all programs by utilizing an OSHA approved tool, SP2.
	Students will demonstrate problem solving skills used in industrial design and product development.	Faculty will evaluate course project SLOs based on a common rubric.	B1, B12, B21, B22, B31, B32				B19c/c++, B24, B36, B37, B47	B20a, B20b, B51, B52	B5, B271, B272, B273, B274, B275, B277	B43L, B52		B65ab		Participants: Anderson, Dixon, Hageman, Rigby, Rozell, Torres	Currently, all student projects are graded by course-specific rubrics. For assessment purposes, we plan on adding a departmental rubric to ensure that course projects are meeting the design outcomes for program assessment.
	Students will demonstrate a deep understanding of the core material required for transfer to a four year university degree program or for certification in the department programs.	Track A.A., A.S., Certificate, and transfer rates for each discipline from Datamart, IRP, and Perkins IV databases	B1, B6, B11, B12, B16, B21, B22, B31, B32, B33, B55	B1ab, B2ab, B14, B15, B59, B64ab, B75abcd, B106, B112	B1, B2, B50ab	B1, B4, B5, B6, B55a, B56, B61, B62, B63, B70	B17, B17L, B19c/c++, B24, B36, B37, B45, B47	B10, B11, B20a, B20b, B40, B50, B51, B52	B10, B271, B272, B273, B274, B275, B277	B1ab, B2, B3, B43L, B52, B53		B1, B2, B5, B65ab	B1ab, B53ab, B54ab, B55abcd, B65ab, B74ab	Participants: Anderson, Canaday, Caras, Dixon, Dommer, Fernandez, Grays, Hageman, Johnson, Komin, Posey, Ralls, Rigby, Rozell, Taylor, Torres	Core indicator data from the CTE database shows that our <u>completion rate</u> (Certificate, Degree, and Transfer - Core Indicator 2) is consistently high at 94.7% for Architecture and 72.9% for Engineering and Industrial Technologies. We will continue to monitor these statistics.