Bakersfield College

Program Review – Annual Update

Attachments (place a checkmark beside the forms listed below that are attached):

☐ Faculty Request Form ☐ Classified Request Form ☐ Budget Change Request Form
☒ ISIT Form ☐ M & O Form ☒ Best Practices Form **(Required)**
☐ Other: _____

I. Program Information:

Program Name: **Automotive Technology (Engineering and Industrial Technology Department)**

Program Type: ☒ Instructional ☐ Non-Instructional

Program Mission Statement:

The EIT faculty and staff strive to offer effective, up to date and student centered instruction, being sensitive to the diversity of our students, their educational needs, and their career goals. We provide relevant course and lab work geared toward day and night students seeking careers in EIT related fields, also meeting the needs of students seeking training for career advancement or skills updating. We use a multi-dimensional approach in preparing our students not only for their specific career goals, but also provide activities that assist them with meeting their personal, academic, and intellectual goals. Our faculty actively pursues professional development, program/facilities improvement, and college/community involvement, seeking partnerships and collective efforts.

Program Description: Describe how the program supports the mission of Bakersfield College

The Automotive Technology program at Bakersfield College provides training for automotive technicians, smog test technicians, engine repair technicians, engine machinists, transmissions repair technicians, alignments specialists, suspension specialists, brake systems specialists, tire service technicians, air conditioning technicians, electrical diagnostic specialists, onsite/field repair technicians, heavy duty equipment technicians, service writers and consultants, parts sales persons.

Bakersfield College, as part of the California Community College system, provides CTE, transfer, and basic skills coursework. Our program successfully serves the CTE statewide goal for our discipline. In addition, we have participated in several of the strategic goals and initiatives of the college, including student success through our participation in the internship and job placement activities, and fiscal sustainability through our participation in the VTEA program and through donations the local new car dealership association and members of our advisory board. Our facilities and equipment are exemplary among similar programs in the State, and as such, they have contributed both to student success and a positive example of Bakersfield College's commitment to relevant technology and high-wage, high-growth occupations within our service area.

Degrees and Certificates: List the degrees and/or Certificates of Achievement awarded by the program, if applicable.

Degree – Associates Degree in Industrial Technology, Automotive Option

Certificates of Achievement - Automotive Brakes and Wheel Alignment
Automotive Power Trains
Automotive Engine Overhaul
Automotive Tune-up and Emission System

Job Skills Certificates **-Automotive Heating, Ventilation & Air Conditioning**
Automotive Management
Basic Clean Air Car Course
Advanced Clean Air Car Course

II. Program Assessment:

a. How did your outcomes assessment results inform your program planning?
In addition to classroom assignments, students complete many Lab Tasks through the course of the semester that require the student to perform certain tasks which allow the professor to assess the understanding & attainment of the information by each student. If the student does not exhibit proficiency in each task, the professor can quickly and accurately analyze the situation which allows them to guide the student until proficiency is achieved.
Results from the overall class proficiency is analyzed at the conclusion of each task sheet to determine if the success rate is acceptable and adjustments are implemented immediately if necessary. Our Advisory Committee consistently confirms that we are keeping up with the changing technical demands of our local employers.

b. How did your outcomes assessment results inform your resource requests this year?
Each professor in Automotive Technology has implemented information technology resources into the learning environment. In addition to using the most current tooling and equipment form our industry, we have utilized online training, computer simulation and animation to convey the subject matter in a format that is embraced by our students.
We have also put great effort into streamlining class offerings and meeting with our students one on one to help them achieve their goals more quickly. This has led to improving the pathway to the degree, certificates and ultimately employment in our industry. All of this is a result of constant communication with and evaluation of our students.

c. Note any significant changes in your program's strengths since last year.
Degree & Certificate issuance has constantly grown over the past four years. We are proud to note that of the 24 Degrees issued by the EIT department that 5 of those were earned by Automotive Students. Also during the 2012-13 year 56 Automotive Certificates were issued. But most encouraging is the fact that roughly 85% of our students are working in some sector of the Automotive industry, some while continuing their education.

d. Note any significant changes in your program's weaknesses since last year.
In our area, the non-traditional student is the female. Through outreach events, such as hosting an all female tour of the Bakersfield College EIT department for all local high schools, we have seen consistent growth in enrollment for our non-traditional students. As of last year, female enrollment has grown to 12%. That's up by 3% from the previous year and 8% over that last 4 years.

e. If applicable, describe any unplanned events that impacted your program.
None

III. Technology and Facilities Analysis

a. Has your program received new or repurposed technology in this cycle?
    i. If yes, how have you assessed the outcome of the use of that technology and its effectiveness as it relates to student outcomes?

ii. If no, what technology could play a contributing factor in future student success and outcomes for your program? **The Automotive faculty would like to improve the learning environment by adding short throw interactive projectors to the four automotive classrooms**

How would you evaluate the use of this technology? **Improved comprehension of subject matter should result in higher scores on classroom assignments and exams.**

iii. How might other areas use this technology?

(NOTE: Technology requests can be made by filling out the ISIT Request form.)

b. Has your area received any facilities maintenance, repair or updating in this cycle? If yes, how has the outcome contributed to student success?

(NOTE: Facilities and M&O requests can be submitted by completing the M&O request form)

IV. Trend Data Analysis:

Discuss any significant changes in data trends over the last year using data provided by Institutional Research. Metrics may include the following:

a. Changes in student demographics (gender, age and ethnicity)
Female enrollment grew to 12% for the 2012-13 year. That's up by 3% from the previous year and 8% over that last 4 years.
There were no other significant changes.
b. Changes in enrollment (headcount, sections, course enrollment and productivity)
Over the past four years our sections have reduced while our students per section have increased. This is the result of efforts of the Automotive faculty to be as efficient as possible while still maintaining high level of instruction. This has been a successful effort since student retention and success rates have grown consistently over the past four years.
c. Success and retention for face-to-face, as well as online/distance courses
The Automotive student retention rate is 88% and success rate is 79.7%, both higher than the college wide averages.
d. Degrees and certificates awarded (five-year trend data for each degree and/or certificate awarded)
Automotive degree and certificate issuance has consistently grown over the past four years and continues to be a large portion of the total degrees and certificates issued by the EIT department. For the 2012-13 year, the Automotive students earned 5 Associates of Science Degrees and 56 Certificates.
e. Other program-specific data *(please specify or attach)*

V. Progress on Program Goals:

List the program's goals from the previous Program Review. For each goal, please discuss progress and changes. If the program is addressing more than two (2) goals, please duplicate this section.

Previously Established Goal 1: *(state goal)*
Continue to coordinate with local industry through the work of advisory boards and other collaborative efforts. [Continued goal from last year. Changes in curriculum were either made or proposed in response to feedback by advisors. Evaluation of the change will take place over the next several years
Progress on Goal:

☐ Completed: _____ (Date) ☐ Revised: _____ (Date)

Comments on Goal 1: **Goal is On-going**

The Automotive Department is in constant communication with our industry partners to assess how we can best prepare our students for employment in our industry. In addition to this, over the past year we have worked with the Bakersfield New Car Dealership Association to create a scholarship and job placement opportunity for our graduating students. This continuous collaborative effort insures that our department is always in line with the needs of our industry and providing the best possible education and opportunities to our students.

Previously Established Goal 2: *(state goal)*
Continue to address gaps in core indicators. [This is continued from last year – especially in terms of non-traditional student (female) enrollment.

Progress on Goal:

☐ Completed: _____ (Date) ☐ Revised: _____ (Date)

Comments on Goal 2: **Goal is On-going**

In our area, the non-traditional student is the female. Through outreach events, such as host an all female tour of the Bakersfield College EIT department for all local high schools, we have seen consistent growth in enrollment for our non-traditional students. As of last year, female enrollment has grown to 12%. That's up by 3% from the previous year and 8% over that last 4 years.

VI. Curricular Review (Instructional Programs only):

a. List each of the courses offered within the discipline's academic program in the first column, using one row per course. Place an **X** in the appropriate column to indicate when the course is scheduled for review.

Course	2013-2014 (2019-2020)	2014-2015 (2020-2021)	2015-2016 (2021-2022)	2016-2017 (2022-2023)	2017-2018 (2023-2024)	2018-2019 (2024-2025)
AUTO B1AB 9/2013			X		X	
AUTO B2A 3/2013			X		X	
AUTO B2B 9/2013			X		X	
AUTO B3 6/2011	X		X		X	
AUTO B14 5/2011	X		X		X	
AUTO B15 3/2011	X		X		X	
AUTOB56AB(deleted)						
AUTOB56C(deleted)						
AUTO B59 3/2011	X		X		X	

AUTO B61 3/2011	**X**		**X**		**X**	
AUTO B62 (deleted)						
AUTO B64B (deleted)						
AUTO B64 3/2011	**X**		**X**		**X**	
AUTO B65A (deleted)						
AUTO B68 (deleted)						
AUTO B73 (deleted)						
AUTO B74 (deleted)						
AUTO B75A 1/2012		**X**		**X**		**X**
AUTO B75B 1/2012		**X**		**X**		**X**
AUTO B75C 1/2012		**X**		**X**		**X**
AUTO B75D 1/2012		**X**		**X**		**X**
AUTO B106 3/2012		**X**		**X**		**X**
AUTO B112 3/2013			**X**		**X**	

b. List courses that are proposed for *addition*.

c. List courses that are proposed for *deletion*.

d. List any changes the program has made to online/hybrid/distance education courses.
No changes at this time – program does not use online/hybrid/distance education.

e. Provide an update on the program's transition to adopting a Transfer Model Curriculum (AA-T or AS-T), if applicable.
Not Applicable – Program does not have a TMC.

VII. Conclusions and Findings:

Present any conclusions and findings about the program.

1. **Streamlining the Automotive classes available to our students will continue to increase persistence and completion rates.**

2. **Students continue to come to our classes under-prepared academically and challenged by our rigorous coursework in this program. We need to adapt our teaching strategies and add teaching resources, such as informational technology, to promote continued growth in retention and success rates of our students.**

3. **Although growth of sections has been limited in the recent past due to budget cuts, we anticipate growth in sections and FTES from this year on. Course sections have typically been full and waitlisted in our program.**

4. **It will continue to be a challenge to meet the expectations of industry (greater breadth of knowledge required for the average technical employee) while meeting the expectations of our College program (productivity, number of sections allowed and scheduling issues) and the limitations of our facilities for expansion.**

5. **Employers are more willing now to offer internships, donations of equipment and money, expertise, and entry-level employment. This is a direct result of the efforts we have made in connecting our industry sectors with our College.**