

# Bakersfield College

## Comprehensive Program Review

**Program Information:**

Program Name: Mechanized Agriculture

Program Type:       Instructional       Student Affairs       Administrative Service       Other

**Bakersfield College Mission:** Bakersfield College provides opportunities for students from diverse economic, cultural, and educational backgrounds to attain Associate and Baccalaureate degrees and certificates, workplace skills, and preparation for transfer. Our rigorous and supportive learning environment fosters students’ abilities to think critically, communicate effectively, and demonstrate competencies and skills in order to engage productively in their communities and the world.

Describe how the program supports the Bakersfield College Mission: **The implementation of a complete pathway in Mechanized Agriculture will provide students the opportunity to receive high quality training for high demand, high paying jobs in Kern County. Currently industry has a strong demand for certified Equipment technicians. By streamlining a comprehensive training and certification program Bakersfield College can help meet the community needs for these employees.**

Program Mission Statement: **The mission of the Mechanized Agriculture program is to provide current and industry standard training for vocational students. Our goal is to produce skilled and prepared technicians and industry professionals.**

**Instructional Programs only:**

A. List the degrees and Certificates of Achievement the program offers: **Agriculture Safety Certificate (3 units), Small Engine Tech Certificate (3 units), Diesel Engine Repair Certificate (3 units), Equipment Systems Certification (3 units), Hydraulics Certificate (3 units), Diesel Engine Tech Certificate (3 units)- Heavy Equipment Technician Certification (Comprehensive of all previous Certifications 24 units total)**

B. If your program offers both an A.A. and an A.S. degree in the same subject, please explain the rationale for offering both and the difference between the two. **N/A**

C. If your program offers a local degree in addition to the ADT degree, please explain the rationale for offering both. **N/A**

**Progress on Program Goals, Future Goals, and Action Plans:**

A. List the program’s current goals. For each goal (minimum of 2 goals), discuss progress and changes. If the program is addressing more than two goals, please duplicate this section.

Current Program Goals	Which institutional goals from the 2015-2018 Strategic Directions for Bakersfield College will be advanced upon completion of this goal? (select all that apply)	Progress on goal achievement (choose one)	Comments
1. Develop a Heavy Equipment Technician	<input checked="" type="checkbox"/> 1: Student Learning <input checked="" type="checkbox"/> 2: Student Progression and Completion <input type="checkbox"/> 3: Facilities <input type="checkbox"/> 4: Oversight and Accountability	<input type="checkbox"/> Completed: _____ (Date) <input type="checkbox"/> Revised: _____ (Date) <input checked="" type="checkbox"/> Ongoing: _09/2017_ (Date)	The program is currently in the writing stage soon to be submitted for curriculum approval

training program to meet industry needs.	<input type="checkbox"/> 5: Leadership and Engagement		
2. Work with Strong Workforce to ensure that student, employer, and industry partner needs are met.	<input checked="" type="checkbox"/> 1: Student Learning <input checked="" type="checkbox"/> 2: Student Progression and Completion <input type="checkbox"/> 3: Facilities <input checked="" type="checkbox"/> 4: Oversight and Accountability <input checked="" type="checkbox"/> 5: Leadership and Engagement	<input type="checkbox"/> Completed: _____ (Date) <input type="checkbox"/> Revised: _____ (Date) <input checked="" type="checkbox"/> Ongoing: _09/2017_ (Date)	Partnering with strong workforce will provide us with the support to facilitate the courses as well as bring new industry partners to Bakersfield College

B. List the program’s goals for the next three years. Ensure that stated goals are specific and measurable. State how each program goal supports the College’s strategic goals. Each program must include an action plan.

Future Goals	Which institutional goals from the 2015-2018 Strategic Directions for Bakersfield College will be advanced upon completion of this goal? (select all that apply)	Action Plan	Timeline for Completion	Lead person for this goal
1. Increase Student knowledge and enrollment of the program	<input checked="" type="checkbox"/> 1: Student Learning <input type="checkbox"/> 2: Student Progression and Completion <input type="checkbox"/> 3: Facilities <input type="checkbox"/> 4: Oversight and Accountability <input checked="" type="checkbox"/> 5: Leadership and Engagement	Promote the program to students already attending Bakersfield college as well as those students planning on attending in the future	Fall 2019	M. Riley
2. Increase Mechanized Agriculture faculty	<input checked="" type="checkbox"/> 1: Student Learning <input checked="" type="checkbox"/> 2: Student Progression and Completion <input type="checkbox"/> 3: Facilities <input type="checkbox"/> 4: Oversight and Accountability <input checked="" type="checkbox"/> 5: Leadership and Engagement	Additional faculty will allow additional courses to be taught each semester, increasing the rate students can complete the program	Fall 2019	M. Riley

**Best Practices:**

Programs often do something particularly well; usually they have learned through assessment – sometimes trial and error – what solves a problem or makes their programs work so well. These are often called Best Practices and can help others. Please share the practices your program has found to be effective.

Successful CTE programs work closely along side industry. This is a necessity as our first and foremost duty is to prepare students to enter the workforce. Our focus is to offer students current and relevant training in their career field. The second duty of a successful CTE program is to train students on industry standard equipment , with industry standard tools, in an environment that simulates the industry workplace. Our focus is not further education but rather a very specific set of technical skills. Skills that often are continuously changing. Without a strong connection to industry partners and equipment that represents the workplace we are not able to prepare students for success in their career field.

**3 Year Program Analysis:**

Take a look at your trend data. Provide an analysis of program data throughout the last three years (all programs should have some form of data that is used to look at changes over time) and report:

1. Changes in student demographics (gender, age and ethnicity).
2. Changes in enrollment (headcount, sections, course enrollment, and productivity).
3. Changes in achievement gap and disproportionate impact.
4. Success and retention for face-to-face as well as online/distance courses.
5. Any unplanned events that affected your program/.
6. Degrees and certificates awarded (three-year trend data for each degree and/or certificate awarded).
7. Reflect on any changes you would like to see in your program in the next 3 years.
8. List degrees and certificates awarded (three-year trend data for each degree and certificate awarded). Include targets (goal numbers) for the next three years.

Full Name of Degree or Certificate	2015- 2016	2016- 2017	2017- 2018	2018- 2019	2019- 2020	2020- 2021
Heavy Equipment Technician Certification				XXXXXX		
AS Mechanized Agriculture				XXXXXX		

**Resource Request and Analysis:**

Resource Request		If Fulfilled, Discuss How Previous Year’s Requests Impact Program Effectiveness?
<p><b>Positions:</b>  <i>Discuss the impact new and/or replacement faculty and/or staff had on your program’s effectiveness.</i></p>	<input type="checkbox"/> 1: Classified Staff <input checked="" type="checkbox"/> 2: Faculty	<p>Addition of new faculty will allow more Mech Ag courses to be offered each semester. This addition would allow us to offer both Certification pathway courses as well as AS courses to students in a rotation allowing them to complete their program in a timely fashion while also enabling us to facilitate the needs of dual enrollment</p>
<p><b>Professional Development:</b>  <i>Describe briefly, the effectiveness of the professional development your program has been engaged in (either providing or attending) during the last cycle</i></p>	<input type="checkbox"/> 1: Provided Professional Development <input checked="" type="checkbox"/> 2: Attended Professional Development	<p>Attending Manufacturers Factory training will keep professors current on industry standards and practices. This is important in CTE courses focusing on industry certifications and placement</p>

<p><b>Facilities:</b>  <i>If your program received a building remodel or renovation, additional furniture or beyond routine maintenance, please explain how this request or requests impacts your program and helps contribute to student success.</i></p>	<input type="checkbox"/> 1: Space Allocation <input type="checkbox"/> 2: Renovation <input type="checkbox"/> 3: Furniture <input type="checkbox"/> 4: Other <input type="checkbox"/> 5: Beyond Routine Maintenance	
<p><b>Technology:</b>  <i>If your program received technology (audio/visual – projectors, TV’s, document cameras) and computers, how does the technology impact your program and help contribute to student success?</i></p>	<input type="checkbox"/> 1: Replacement Technology <input type="checkbox"/> 2: New Technology <input type="checkbox"/> 3: Software <input type="checkbox"/> 4: Other _____	
<p><b>Resource Request</b></p>		<p><b>Discuss How Effective Request is for Student Success?</b></p>
<p><b>Other Equipment:</b>  <i>If your program received equipment that is not considered audio/visual or computer equipment technology, please explain how these resources impact your program and help contribute to student success.</i></p>	<input type="checkbox"/> 1: Replacement <input type="checkbox"/> 2: New <input type="checkbox"/> 3: Other _____	

**Budget:**

*Explain how your budget justifications will contribute to increased student success for your program. (Fiscal requests will be submitted by the faculty chair and/or area administrator.)*

**Conclusions & Snapshot:**

Present any conclusions and findings about the program. This is an opportunity to provide a brief abstract or synopsis of your program's current circumstances and needs. Consider this a snapshot of your program, if someone were to only read this portion of your Comprehensive Review.

We are in the planning and implementation stage of our Heavy Equipment Technician Certification program. We currently offer four of the requested eight courses. The funding requested would allow us to offer the additional four classes and offer a new option for Bakersfield College students as well as members of the community looking for job training. Bakersfield College has been committed to growing its Mechanized Agriculture program and the addition of this program will meet the demands of our community, our local industry, and provide a source of training for students. Research data has shown not only high demand but also a growth in the demand for technicians. This along with the high starting salaries associated with these positions reinforces the need for this program to be offered locally.