Bakersfield College

Comprehensive Program Review

**I. Program Information:**

Program Name:  **Animal Science**

Program Type: x Instructional  Non-Instructional

Program Mission Statement **The mission of the Bakersfield College Agriculture Department including The Animal Science program is to provide pertinent state-of-the-art education for vocational and transfer students in order to produce skilled agricultural and natural resource professionals for the industry, both public and private. This is in accordance with the college mission to respond to student and community needs with efficiency and flexibility and with the BC institutional level learning outcomes, i.e. to demonstrate knowledge and abilities in a chosen area of study**.

Program Description: Describe how the program supports the Bakersfield College Mission.

**The Agriculture Department is a Career Technical Education (CTE) department. Therefore, our certificate programs align us with one of the core missions of Bakersfield College, and that is to supply trained individuals to work in vocational jobs of regional agricultural businesses. Agricultural supervisory level jobs have increased about 4% in Kern County and in California. This is the highest percentage growth of any major occupational category. These jobs require a minimum of an associate degree and two years of experience.**

Program Learning Outcomes (PLOs)/Administrative Unit Outcomes (AUOs)—please list:

1. **Student will be able to Identify animal contributions to human needs, demonstrate and understand animal**

**behavior, and Identify life cycles and biotechnological principles of animal production.**

1. **Demonstrate specific skills in animal science such as production, genetics and nutrition within the animal science discipline needed for employment**
2. **Demonstrate appropriate husbandry best practices to animals of economic value. students will develop problem-solving skills for lifetime learning. Understand the scientific method and design of experiments to test hypotheses and as such experience the process of discovery.**
3. **The Animal Science Program students will demonstrate problem solving and critical thinking skills, skills to make oral presentations, and fundamental knowledge in production and management**

***Instructional Programs only:***

1. List the degrees and Certificates of Achievement the program offers.

**AA, AS, COA and JSC**

1. If your program offers both an A.A. and an A.S. degree in the same subject, please explain the rationale for offering both. **The A.S. is for those students wishing to enter the industry after completing the required units. The A.A is design more for students that are transferring to a four year institution.**
2. If your program offers a local degree in addition to the ADT degree, please explain the rationale for offering both.

**II. Program Assessment:**

1. How did your outcomes assessment results during the past three years inform your program planning?

**The outcomes assessment results gave us more insight of students who may not have a complete understanding of the SLO’s. The Animal Science Dept feels by making some adjustments to the SLO’s this will give us a chance to make improvements or changes to insure student success.**

1. How did your outcomes assessment results during the past three years inform your resource requests this year?

**The student learning outcome results do indicate that the program would benefit from the request of more funding for the labs in animal science. The students would obtain quality skills if the program had more livestock for hands on training.**

1. Describe how the program monitors and evaluates its effectiveness.

**The program is constantly monitoring and evaluating strategies that will improve the program. The Animal Science Dept obtains feedback from students and industry stakeholders to determine the effectiveness of the program, this is done not only by evaluation but face to face conversation.**

1. Describe how the program engages all unit members in the self-evaluation dialogue and process.

**The Animal Science staff meets in a group meeting once a week with the other agriculture instructors and staff. The agenda items are about college, department, horticulture lab, and farm issues and successes.**

1. Provide recent data on the measurement of the PLOs/AUOs, as well as a brief summary of findings. **The Animal Science Department has not completed data on the PLO’s at this time.**
2. What have the program’s PLOs/ AUOs revealed or confirmed in the last three years? **The Animal Science Departments PLO’s describe in measurable terms the knowledge, skills, and/or dispositions students are expected to demonstrate at the conclusion of the program. The Skill set at times has become a problem, do to the lack of sufficient lab facilities that gives the student a hands on education, larger facilities would be an asset to this program.**
3. *If applicable*, list other information, data feedback or metrics to assess the program’s effectiveness (e.g., surveys, job placement, transfer rates, output measurements). **N/A**
4. Discuss the strengths of your program. **Students interested in Animal Science come from varied backgrounds and their interests range from animal production and management to marketing and public relations. The Bakersfield College Animal Science Departments # 1 strength is the preparation of students for transfer. The Animal Science Department has been able to survive and offer a quality education even though funding district wide has been minimal.**
5. Discuss areas for improvement in your program**. The Animal Science Department could improve in the area of recruiting and growing the program. I feel the program has room for growth and expansion in the field of dairy science. Kern County is one of the top counties in California for dairy production.**
6. *If applicable*, describe any unplanned events that impacted your program.

**III. Resource Analysis:**

1. Human Resources
2. If you are requesting any additional positions, explain briefly how the additional positions will contribute to increased student success (Faculty Request form; Classified Request form)
3. Professional Development (Professional Development form)
4. Describe briefly the effectiveness of the professional development your program has been engaged with (either providing or attending) during the last cycle, focusing on how it contributed to student success. **The CATA conference at Cal Poly SLO gives all agriculture teachers in the state of California an opportunity to discuss cutting edge curriculum and to take the latest skill classes that will keep us as instructor’s current with industry and increase student success at BC.**
5. Provide rationale for future professional development opportunities and contributions that your program can make. **The Animal Science Department could contribute to teaching strategies.**
6. Facilities (M&O requests can be submitted by completing the [M&O Request form](https://committees.kccd.edu/sites/committees.kccd.edu/files/Copy%20of%2012%20M%26O%20Needs%20Workbook%2012-13%20APR.xlsx).)
   1. Assess the effectiveness of the facilities used by your program in meeting college strategic goals.
   2. Justify your facilities and M & O request.
7. Technology (Technology requests can be made by filling out the [ISIT Request form](http://www.bakersfieldcollege.edu/irp/Annual%20Program%20Reviews/2012-13/13%20ISIT%20Priority%20Workbook%2012-13.xlsx).)
8. Has your program received new or repurposed technology in this 3-year cycle?
   1. If yes, discuss the assessment of its effectiveness as it relates to student, program, or administrative outcomes. **The Ag Building has been equipped this year with smart boards and new projectors> I feel that this new technology will help our instructors engage the students in a more successful way.**
   2. If no, what technology could play a contributing factor in future student success and outcomes for your program? How would you evaluate the effectiveness of this technology?
9. Discuss the effectiveness of technology used in your area to meet [college strategic goals](http://www.bakersfieldcollege.edu/collegecouncil/BAKERSFIELD%20COLLEGE%20STRATEGIC%20FOCUS%202013-14.pdf). **Will enhance student learning by developing and empowering learning through curiosity.**
10. Does your program need new or repurposed technology to support student success? Justify your ISIT Technology Request and your vision for meeting student, program, or administrative unit outcomes for this next 3-year cycle.
11. Budget (Changes to the budget allocation can be requested using the [Budget Change Request Form](http://committees.kccd.edu/bc/committee/programreview)).

If you are requesting any additional funding, explain briefly how it will contribute to increased student success. **The additional funding will enhance student learning by gaining a stronger set of skills in the lab setting. The student will be more successful and better prepared with the purchase of livestock for the Animal Science labs.**

**IV. Trend Data Analysis:**

Review the data provided by Institutional Research. Provide an analysis of program data throughout the last three years, including:

* 1. Changes in student demographics (gender, age and ethnicity). **See Documents at the end( no Significant changes) But there is a 4% increase in females**
  2. Changes in enrollment (headcount, sections, course enrollment, and productivity). **Enrollment has steadily increase up until last year where we have had a 64 head drop from 2013-2014**
  3. Success and retention for face-to-face as well as online/distance courses. **N/A**
  4. Degrees and certificates awarded (three-year trend data for each degree and/or certificate awarded). **5 year total 113 degrees and certificates.**
  5. Other program-specific data (please specify or attach). **See Attachments**
  6. List degrees and certificates awarded (three-year trend data for each degree and certificate awarded). Include targets (goal numbers) for the next three years.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Degree or Certificate** | **2011-2012** | **2012-**  **2013** | **2013-**  **2014** | **2014-**  **2015** | **2015-**  **2016** | **2016-**  **2017** |
| |  | | --- | | **Associate of Arts** | | ~~8~~ | ~~1~~ | ~~2~~ | ~~8~~ | ~~5~~ | ~~4~~ |
| **Associate of Science** | ~~4~~ | ~~3~~ | ~~4~~ | ~~5~~ | ~~6~~ | ~~7~~ |
| **Certificates** | ~~13~~ | ~~18~~ | ~~22~~ | ~~25~~ | ~~30~~ | ~~33~~ |
|  |  |  |  |  |  |  |

**V. Progress on Previously Established Program Goals, Future Goals and Action Plans:**

1. 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** *(state goal)* | **Which institutional goals from the Bakersfield College Strategic Plan will be advanced upon completion of this goal?**  **(select all that apply)** | **Progress on goal achievement**  **(Choose one)** | **Comments**  **(if applicable)** |
| 1. Facility Needs - Learning Environment  Poor lab conditions combined with a lack of funding does not allow instructors to teach with the newest technology.  A lack of classroom space and updated lab facilities does not allow the goal to teach the latest technology. | x 1: Student Success x 2: Communication x 3: Facilities & Infrastructure x 4: Oversight & Accountability  5: Integration  x6: Professional Development | Completed: \_\_\_\_\_\_\_\_ (Date)  x Revised: 8/25/14\_\_\_\_\_\_\_\_\_\_\_ (Date)  *(*state revised goal) | **The Ag building was updated this past Augest and new technology was installed in the ag 39 lab classroom. The AKA farm is still in need of facilities.** |
| 2. Student Success / Completion  A lack of instructors reduces section offerings making completion more difficult for  students when they can’t enroll in classes. | x 1: Student Success x 2: Communication x 3: Facilities & Infrastructure  4: Oversight & Accountability  5: Integration  6: Professional Development | Completed: \_\_\_\_\_\_\_\_ (Date)  Revised: \_\_\_\_\_\_\_\_\_\_\_ (Date)  *(*state revised goal) |  |

1. 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 goal must include an action plan.

|  |  |  |  |
| --- | --- | --- | --- |
| **Future Goal** | **Action Plan** | **Lead person for this goal** | **Timeline for Completion:** |
| 1. **In sure student success in the class room.** | **Promoting Habits of Mind.**  **Utilizing the new SARS program** | **William Barnes** | **2014/2015** |
| **Which institutional goals from the Bakersfield College Strategic Plan will be advanced upon completion of this goal? (select all that apply)** | | | |
| **x 1: Student Success  2: Communication  3: Facilities & Infrastructure  4: Oversight & Accountability  5: Integration  6: Professional Development** | | | |
| **Future Goal** | **Action Plan** | **Lead person for this goal** | **Timeline for Completion:** |
| **2. Communicate better with fellow employees and the students in the animal science program.** | **Weekly meetings with courage’s conversation about the department and the college will help establish good communication lines with staff and help provide guidance for our program.** | **William Barnes** | **2014-2016** |
| **Which institutional goals from the Bakersfield College Strategic Plan will be advanced upon completion of this goal? (select all that apply)** | | | |
| **x 1: Student Success x  2: Communication  3: Facilities & Infrastructure x 4: Oversight & Accountability x 5: Integration  6: Professional Development** | | | |

**VI. Curricular Revisions *(Instructional Programs only):***

1. Review of Course Information:

* Column A list all of the courses associated with the degree.
* Column B list the Fall term the review process will be started for ongoing compliance.
* Column C list the compliance due date.
* Column D list any changes to courses with regard to distance education.
* Column E list corresponding C-ID descriptors if available. <http://www.c-id.net/>

**\*\*Dates listed should reflect a five year cycle allowing for one year of review**

**to maintain ongoing compliance.\*\***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **A. Course** | **B. Fall Term Review will be Submitted** | **C. Compliance Due Date** | **D. Distance Education Changes** | **E. C-ID Descriptors Available** |
| ANSC 1 |  |  |  |  |
| ANSC 2 |  |  |  |  |
| ANSC 3 |  |  |  |  |
| ANSC 4 |  |  |  |  |
| ANSC 5 | 9/10/2014 | 9/1/2014 |  |  |
| ANSC 6 | 9/10/14 | 4/1/2014 |  |  |
| ANSC 7 |  |  |  |  |
| ANSC 10 |  |  |  |  |
| ANSC 11 |  |  |  |  |
| ANSC 22  ANSC 78  ANSC 83  ANSC 85  ANSC 86  ANSC 88  ANSC 90  ANSC 92  ANSC 94  ANSC 96 |  |  |  |  |

1. Review of Program Information:

Is the program information housed in CurricUNET accurate? **No** (Considerations: changes in course(s) names and/or suffixes as well as additions/deletions of courses). If not, then a program modification needs to be started in CurricUNET to reflect the necessary changes. Explain the requested changes below.

**We will be dropping**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Is the program and course listing information in the current catalog accurate? If not, list the requested

changes below. Catalog information should reflect what is in CurricUNET. **No ANSCB82 has been discontinued and needs to be removed from the current catalog.**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*\_*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Student Education Plan (SEP) Pathway(s) uploaded to “Attached Files” in CurricUNET.

If applicable, SEP Pathway with CSU Breadth indicated? Yes or No x

If applicable, SEP Pathway with IGETC indicated? Yes or No x

If applicable, SEP Pathway with BC General Education indicated? x Yes or No

**\*\*Please ensure that the information housed in CurricUNET and the current catalog match. \*\***

1. If applicable, provide a description of the program’s future adoption of C-ID descriptors and Associate Degree for Transfer (ADT) or Model Curricula.

\_\_\_\_**N/A**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**VII. Faculty and Staff Engagement:**

1. Discuss how program members have engaged in institutional efforts such as committees, presentations, and departmental activities. **The Animal Science staff has been involved with PRC by serving for two years as the CO-Chair and by representing the PRC on the Executive Academic Senate Board, currently is now the department chair.**
2. *Instruction Only*: Discuss how adjunct faculty are included in departmental training, discussions and decision-making. **This is mostly done by Email and face to face discussions. The adjunct faculty in the Animal Science Department all have full time day careers.**

**VIII. Program Funding Sources:**

Identify any non-KCCD general fund sources

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Title of Account/Grant/Categorical Funding** | **Start Date** | **End Date** | **Percentage of Program Budget Covered** | **Positions funded wholly or in part** |
| Foundation Accounts | Barn account | 2009 | 2014 | 1% | N/A |
| Grants | VTEA | 2014 | 2015 | 25% | N/A |
| Categorical Funding |  |  |  |  |  |

**IX. Conclusions and Findings:**

Present any conclusions and findings about the program.

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

[Faculty Request Form](http://committees.kccd.edu/bc/committee/programreview)  [Classified Request Form](http://committees.kccd.edu/bc/committee/programreview) x [Budget Change Request Form](http://committees.kccd.edu/bc/committee/programreview)

Professional Development  [ISIT Form](http://committees.kccd.edu/bc/committee/programreview)  [M & O Form](http://committees.kccd.edu/bc/committee/programreview)

x [Best Practices Form](http://committees.kccd.edu/bc/committee/programreview) **(Required)**  Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_