

**Bakersfield College 2018-2019  
Program Review – Annual Update**

**Program Name:** Public Health Science

**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:** Public Health is the science and art of creating healthy communities through education, research and promotion of healthy lifestyles. The Public Health Sciences (PBHS) degree aligns directly to the mission as follows:

- ***To attain degrees and certificates-*** The Public Health Science Program provides an Associate Science Transfer degree in Public Health Science and recently added a stackable Health Navigator Certificate of Achievement.
  - ***Associate Science Transfer (AST) Degree in Public Health Science*** –The degree's mission is to raise awareness of public health challenges, provide sustainable solutions that build capacity and empower individuals to be proactive in community development. Upon completion of the degree, students will know the principles of the Public Health Sciences and career pathways in the field. The Associate Science in Public Health Science for Transfer is designed to prepare students for a seamless transfer into the California State University (CSU) system to complete a baccalaureate degree in Health Sciences or a similar major. This also includes a focus on Career Technical Education (CTE). The AST in Public Health Science aligns to California State University (CSU) Health Science majors. The degree lays the framework for a wide range of career pathway opportunities within the health science field. In addition, the degree addresses the community health needs of the Central Valley area, where there is currently and continues to be a shortage of health professionals (Department of Labor, 2018). The nature of the course work and topics provides opportunities for community partnerships, grant opportunities and capacity building to help improve health disparities within Kern County. For Bakersfield College, this not only helps our students, but the degree mission and purpose demonstrates how Bakersfield College is committed to the well-being and health of its region and community.
  - ***Health Navigator Certificate of Achievement*** – The certificate of achievement provides the competency skills needed in the health promotion field and includes an internship class. Students are able to apply public health science concept and practice new skill sets.
- ***To attain workplace skills*** – The program works closely with community partners to align curriculum with competency skills required in the work place. The program recently added a work experience component to support career development.
- ***To attain preparation for transfer*** – All public health science course work is focused on preparing students for transfer by incorporating components of what is expected in the CSU system. All PBHS courses are CSU transferable and are also included in the BC GE.

***Instructional Programs only:***

- A. **List the degrees and Certificates of Achievement the program offers:** The program offers an Associate Transfer of Degree in Public Health Science and recently a new Certificate of Achievement Health Navigator was approved by the State in Summer 2018.
- 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

**Program Goals:**

- 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 (2) goals, please duplicate this section. Please provide an action plan for each goal that gives the steps to completing the goal and the timeline.
  - 1. **Program Goal:** Increase awareness of public health degree and major as measured by increase in number of majors and enrollment in public health science courses.

**List the institutional goals from the Bakersfield College Strategic Plan that will be advanced upon completion of this goal?**  
(Student Learning, Student Progression and Completion, Facilities, Leadership and Engagement)

- *This Program Goal aligns with #2 ILO Student Progression and Completion*

**Progress on goal achievement:** One year into implementation

The program had its first graduate in Spring 2018; who has successfully transferred to CSUB. Currently in Fall 2018, there are over 60 declared Public Health Science majors. The program is actively conducting outreach into the community, providing a variety of formats (e.g., online, hybrid), working with staff to increase promotions, and creation of printed and online promotional materials. In addition, the program is expanding its reach by providing an Early College class at Arvin Highschool and participating in the Rural Initiative in Delano. There is an interest to expand this program to more areas throughout Kern County. As this program grows, there will be a need for an additional faculty person to provide instruction, advising and support the expansion of the program to rural areas and underserved areas of Kern County.

**Status Update – Action Plan and any link to Resource Requests:**

BC currently has 1 FTE faculty member who acts as the programmatic lead, advises students, promotes the program both externally and internally, secures grant funding to build capacity, and actively works to secure career development partners. With the public health student enrollment grows, this model is sustainable. As a leader in California, BC has **created one of the first community college public health science programs** in California and has been recognized by nationally with the *League of Innovation Riegleman Award for Innovation 2017*. One of the key components of receiving the award was committing to sustainable development and rural outreach.

- **Request for additional faculty-** Last year, the Program Review requested an additional 1 FTE faculty with anticipation of growth. The program has now reached a milestone with new majors, a new certificate, participation in the Rural Initiative with an interest in expanding into the Inmate Education program. In order to meet the new growth targets and support student learning, the program has requested an additional 1 FTE Public Health Science faculty.
  - **Request for professional expert to support Public Health Interns-** The intern assignments vary and require ongoing support. There is a need to provide support of these interns as they are navigating the work environment from a person who has a strong public health background and has established relationships with the public health field. Currently, the faculty lead is doing this position but as this certificate of achievement grows, there will be a need for additional support.
2. **Program Goal:** Increase awareness of public health career options and opportunities as measured by number of materials created and an assessment of counselors' and students' knowledge of public health careers.

**List the institutional goals from the Bakersfield College Strategic Plan that will be advanced upon completion of this goal?**

(1. Student Learning, 2. Student Progression and Completion, 3. Facilities, 4. Leadership and Engagement)

- *This program goals aligns with the ILO #1 -Supports Student Learning*

**Progress on goal achievement:** New Certificate of Achievement in Health Navigation approved in July 2018. The first group of students are currently beginning to enroll. New materials are currently being created for counselors and students, specific to career options.

**Status Update – Action Plan and link to Resource Requests:** There is a need to promote and expand opportunities in public health careers. The program had more internship placements than BC Intern. This is due to lack of knowledge, often BC students are unaware of public health pathways and local career opportunities. The following are action items:

- **Promotional Materials-** The program has addressed the gap of knowledge by creating a series of promotional materials, which have been well received. There have been request for additional promotional materials to help in advising students and promoting the career pathways in the field. Request for ongoing promotional materials.
- **Outreach events-** There are outreach events planned for Fall, 2018 to highlight career options. These outreach events will be open to students and counselors alike to learn about careers in public health. Request for ongoing promotional materials and support for events.
- **Peer to Peer Mentoring -** One suggestion, is using peer to peer outreach, a research based strategy that has demonstrated results. This would entail, a current public health student who has successfully completed a series of classes, participated in an internship or is currently employed in the public health field to reach out to students to promote degree completion and participating in career development events. Request for funding for a student worker to assist with outreach and mentoring.

B. List new or revised goals (if applicable) N/A

**Program Goal:**

**List the institutional goals from the Bakersfield College Strategic Plan that will be advanced upon completion of this goal?**

(Student Learning, Student Progression and Completion, Facilities, Leadership and Engagement)

**Progress on goal achievement:**  
**Status Update – Action Plan and link to Resource Requests:**

### **Program Analysis:**

Take a look at your trend data (all programs should have some form of data that is used to look at changes over time). *All programs will answer the following questions unless otherwise indicated.*

1. Please report on any unexpected changes or challenges that your program encountered this cycle: Growth in the program with an increase from 19 majors to over 60 declared majors in one year has been significant and higher than expected. It is anticipated that the number of majors will continue to grow significantly with promotion and with CSUB adding the program in the near future.
2. How does your trend data (or other data your area collects) impact your decision making process for your program? All efforts moving forward are focused on capacity building. Strategies will focus on practices that support strengthen a growing program such as:
  - Integrating with current initiatives (i.e. Rural Initiative, Guided Pathways, Coaching etc.) to support growth.
  - Secure additional human resources to allow cross training and ensure sustainable growth through hiring tenured faculty and adjunct.
  - Tracking student progress using data and providing interventions when needed.
  - Highlight student success to spotlight best practices and providing peer to peer mentoring opportunities.
3. Evidence of Department Dialog of data
  - If you have had time to review and discuss your program's data with members of your department, attach documentation of your discussion. Documentation can come in the form of minutes from meetings or retreats, email dialog or any other ways that show substantive discussion. N/A as the program currently consists of only one regular faculty. However, this is an area the program would like to expand as the program grows.
4. Were there any changes to student demographics (age, gender, or ethnicity) for the past cycle? N/A first year of program data
5. Were there any changes to student success and retention rates for face-to-face and online courses? (instructional only) N/A first year of program data. Face to face has a lower enrollment at 90 with a 86% retention rate at Census compared to 157 online with an 89% retention rate. It is important to note that there are students who enroll in the program as they wait for an opening in their first choice class. This trend seems to be changing as public health science classes are now are a part of BC GE and the Public Health Science major is an option.
6. Equity gaps
  - Please look for large differences, or gaps, between top performing groups and others. Consider how you could identify the reasons behind these gaps, and if there changes that could be made to reduce them. For in depth review of equity issues, and on changes that are being made campus-wide, please refer to the current [Bakersfield College Student Equity Plan](#). Currently not enough data to determine trends.

7. Please describe any recent achievements of your department, including but not limited to faculty who have won awards or distinctions, new projects your department has implemented, professional development work, professional conference presentations or recently published work.
  - a. Received the Hunkins Distinguished Article Curriculum Award in 2017
  - b. Completed research with a high school mentor for the National Institute of Health, which was presented in Bethesda MD
  - c. Attended a national workshop at Harvard on Case Studies in Public Health
  
8. The college has embarked on significant efforts such as **Guided Pathways, affinity groups** and **completion coaching communities** to improve the success and completion rates of our students. Please describe what your program/department/office is doing to contribute to these efforts.
  - a. Recently, Public Health Science was assigned a counselor to assist and we have started to recently meet as of August 2018. The program is interested in any other services that could help students on their path.
  
9. Explain your role if you are involved in Dual Enrollment, Inmate Education, or Rural Initiatives.
  - a. Public Health Science is currently offering one class in Arvin and one in Delano as part of the Rural Initiative. The program has reached out to the dual enrollment program to support dual enrollment but there has not been an expressed interest by the high school to date. Public health science program is interested in providing a class in the Inmate Education program but lacks faculty to pursue this further.

**Analysis of Received Resources from Previous Cycle**

**Discuss the type of resources you received and their Impact on program effectiveness?**

**Facilities:**

*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.*

- 1: Space Allocation
- 2: Renovation
- 3: Furniture
- 4: Other
- 5: Beyond Routine Maintenance

**Technology:**

*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?*

N/A

*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.*

**Conclusion:**

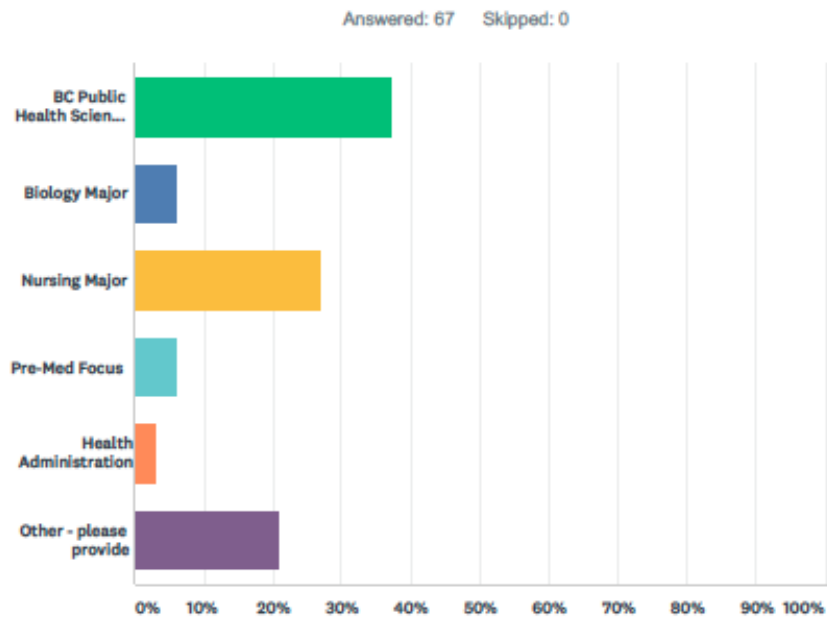
Present any conclusions and findings about the program. This is an opportunity to provide a brief abstract or synopsis of your program’s current circumstances and needs. Consider this a snapshot of your program if someone were to only read this portion of your annual program review.

Bakersfield College is leading the way with the new Public Health Sciences degree. It is not only innovative, but most importantly it empowers our students to be proactive in their community and gives the skills sets needed to enter the public health field. The Public Health Sciences degree is unique to Kern County and to the Southern Central Valley region. Currently, there are no public health sciences degrees in the Southern Central Valley and BC is leading the way. However, CSUB is in the process of creating a public health degree. A needs assessment was completed by CSUB Master Students. Please click here to the [hyperlink here to download](#) the final needs assessment report. These results not only help drive the program but document the need for the program locally.

The survey, which was sent through Survey Monkey, provided clear results. Majority of the participants in this survey were also Bakersfield College students (88.06%). The total number who participated was (N=67). Data collection occurred through an electronic link and was emailed out to Bakersfield College students. This survey was not administered to CSUB students so the sample represents those interested at Bakersfield College.

When asked what the career focus of the participants was, the results were varied; however, the majority were Bakersfield College Public Health Science major students (37.31%). Nursing was the second highest choice with 26.87%, and of those who chose other, the Radiologic Technology was the most chosen option. (See Q2 screenshot)

Q2 What is your major or area of interest? One option.



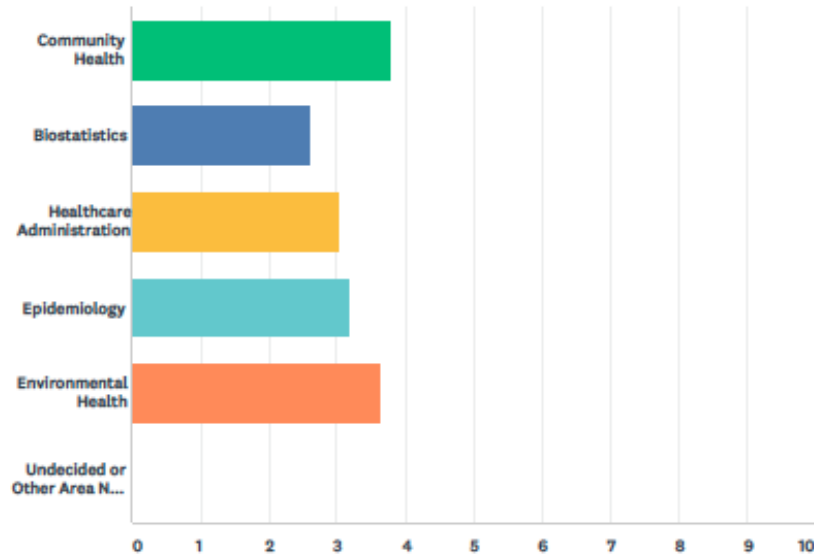
Excerpt from the needs assessment:

The participants were then asked to rank the public health career areas they are interested in and community health was the number one option with 26 participants extremely interested and only two not interested. Environmental health is the second highest option with 21 participants extremely interested, followed by Epidemiology with 16 participants extremely interested and Healthcare Administration with 12 participants extremely interested. Biostatistics ranked the least favorable with only two participants being extremely interested. Question three from the survey. (See Q3 screenshot)

Approximately, 71% indicated that they were interested in transferring to a CSU or UC and the majority indicated transferring to CSUB.

### Q3 What public health career areas are you interested in. Indicate interest below.

Answered: 67 Skipped: 0



The program continues to work with University California Los Angeles (UCLA) and University Nevada Las Vegas (UNLV) have both contacted BC to partner and create a pipeline into their public health science degrees and to work on related projects. The following are some of the highlights from one year of operation and demonstrate the potential that this degree can have for BC students and our community.

- Established a new Public Health Sciences Associate Degree for Transfer to 13 plus or minus CSUs with Health Sciences Degrees, as well as UC degrees.
- Developed and created a new Certificate of Achievement Health Navigator
- Provided outreach to the community and raised awareness for what public health entails through the Bakersfield College Public Health Hackathon. The Hackathon was selected as the Student Government Event of the Year. Over 75 students spent the weekend engaged in problem solving and creating solutions to public health challenges.
- Secured funding from The California Endowment to engage students in development of Mobile Application to address public health needs. This Building Healthy Community App was a result of the weekend Hackathon. Funding, \$25,000 was awarded to continue this project.



- Partnered with UCLA to create a public health sciences pipeline through a Center for Disease Control Grant (CDC). This will begin this fiscal year and is a 5-year grant for approximately \$3 million.
- Partnered with University of Nevada Las Vegas to mentor an intern who presented at the National Institute of Health on Sexual Transmitted Diseases in Kern County

The program has made enormous progress in the short time since it was initiated. This was accomplished with only one full-time faculty in the program. However, to make this successful program sustainable, deal with enrollment growth, and pursue opportunities, it is critical that additional faculty are added.