Bakersfield College
Program Review – Annual Update 2017

Program Name: Bakersfield College Paramedic Program

Program Type: ☒ Instructional   ☐ Student Affairs   ☐ Administrative Service   ☐ Other

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__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 Paramedic Program meets the Bakersfield College's mission by providing an educational opportunity allowing students to obtain both a Certificate of Achievement and Associate degree in the field of paramedicine. Locally, there is a high demand to fill paramedic job openings and the Bakersfield College Paramedic Program is the only paramedic program offering this field of study within Kern County. The paramedic program hones the students' communication skills and their ability to critically think through many situations using lecture, exams, and realistic simulation manikins in a variety of scenarios. The program is a tiered system of didactic lecture and skills, progressing to the hospital training phase, and finally field training in an ambulance. After successful program completion, in order to obtain their paramedic license, students test at the National level with the National Registry of Emergency Medical Technicians (NREMT). The Bakersfield College paramedic students have consistently demonstrated competencies in knowledge and skills with a five year average (2012 – 2016) first time pass rate of 94% with the NREMT.

Program Mission Statement:

The primary mission of the Bakersfield College Paramedic Program is to provide a strong educational foundation so our future paramedics may improve the health and welfare of Kern County with the highest quality prehospital emergency medical care.

Instructional Programs only:

   A. List the degrees and Certificates of Achievement the program offers
- Certificate of Achievement & A.S. Degree in paramedicine

   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:

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.

Program 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)	Status Update – Action Plan
1. 2016 Goal Update: Provide students the education necessary to pass the National Registry exam with first time pass rates equal to or higher than the National average pass rates.	☒ 1: Student Learning ☒ 2: Student Progression and Completion ☐ 3: Facilities ☐ 4: Oversight and Accountability ☐ 5: Leadership and Engagement	☒ Completed: 09/15/17 (Date) ☐ Revised: _____ (Date) ☐ Ongoing: _____ (Date)	From September 15, 2016 to September 14, 2017 the BC paramedic program's first time National Registry pass was **92%.** The National Average for the same time frame was **75%.**
2. 2016 Goal Update: Provide students the opportunity to retest x 1 on any exam, other than the final, falling below a 77% average.	☒ 1: Student Learning ☒ 2: Student Progression and Completion ☐ 3: Facilities ☐ 4: Oversight and Accountability ☐ 5: Leadership and Engagement	☒ Completed: 09/15/2017 (Date) ☐ Revised: _____ (Date) ☐ Ongoing: _____ (Date)	For those students who met the criteria for retesting, their average **GPA increased by 3.4%, from 76.3% to 79.7%.** By administering retests, program attrition rates dropped increasing the number of students who successfully completed the didactic portion of the paramedic program.
3. Current Goal for 2017/2018 : Purchase an updated Trauma Sim-Man, programed to run both basic and	☒ 1: Student Learning ☐ 2: Student Progression and Completion ☐ 3: Facilities ☐ 4: Oversight and Accountability ☒ 5: Leadership and Engagement	☐ Completed: _____ (Date) ☐ Revised: _____ (Date) ☒ Ongoing: 09/15/17 (Date)	Beginning in 2017, the National Registry has added a patient care scenario which closely mimics a real life call. In order to keep up with the changing NREMT testing requirements, it is important for our program to keep up so we can continue showing high

advanced life support level prehospital calls, as well as purchase all of the essential peripheral equipment needed for the Sim-Man's compatibility with our current equipment, such as the Zoll heart monitor.			student success outcomes.
4. Current Goal for 2017/2018: Meet paramedic curriculum needs through revision. Identify and implement new curriculum to meet the program's future needs.	☒ 1: Student Learning ☒ 2: Student Progression and Completion ☐ 3: Facilities ☒ 4: Oversight and Accountability ☐ 5: Leadership and Engagement	☐ Completed: _____ (Date) ☐ Revised: _____ (Date) ☒ Ongoing: 09/15/17 (Date)	With a new paramedic instructor, textbook updates, and a late start with curriculum's Elumem launch, we need to make changes to the paramedic curriculum.

B. List new or revised goals (if applicable)

New/Replacement Program Goal	Which institutional goals will be advanced upon completion of this goal? (select all that apply)	Status Update – Action Plan
1. New Goal for 2017/2018: Obtain more classroom space and office space for our growing faculty and program class sizes.	☒ 1: Student Learning ☐ 2: Student Progression and Completion ☒ 3: Facilities ☐ 4: Oversight and Accountability ☐ 5: Leadership and Engagement	Our program is growing and we've added more faculty and have more students than in the past. Shared spaces are getting tight, therefore, it has gotten to the point that we need more classroom and office space.

| 1. **New Goal for 2017/2018:** Meet with the Kern County's EMS Medical Director, Christopher Lyons, about how the Bakersfield College Paramedic Program may be called upon to meet the community's needs if a "Community Paramedicine" program is implemented by the department of EMS here in Kern County. | ☐ 1: Student Learning
☐ 2: Student Progression and Completion
☐ 3: Facilities
☒ 4: Oversight and Accountability
☒ 5: Leadership and Engagement | Community Paramedicine (CP) is an innovative and evolving model of community-based healthcare designed to provide more effective and efficient services at a lower cost. Community Paramedicine allows paramedics to function outside their traditional emergency response and transport roles to help facilitate more appropriate use of emergency care resources while enhancing access to primary care for medically underserved populations. |

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.

1.) Administer a retest to any student who scores lower than the minimum passing score. Even if they score 100% on the retest, there official score only comes up to a 77%, the minimum passing grade. This method also assures that the retest students' scores won't surpass the scores of those who passed the exam on the first attempt.

2.) Allow students to fill out a "Challenge Form" after each exam to challenge any two exam question they feel was unfair or poorly worded. This becomes a teachable moment for the student as they must look up the information, document page numbers and PowerPoint slide information, as well as explain the reason for their challenge (Tossing a question is based on that question's stats as well as the student's ability to articulate his/her point on paper) , then the question is tossed and every student's score is adjusted accordingly.

3.) Use a Bingo cage with numbered balls to randomly call on students. This sounds like a super silly idea, however, assigning numbers to students has served two purposes:

i.   It has completely stopped all complaints of students feeling like I've singled them out or called on more often than others.

ii. The sounds of the ping-pong balls rattling around in the cage perks everyone up, as they wonder if their number is going to be called, and they are much more likely to pay attention to the question

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).

1. Please report on any unexpected changes or challenges that your program encountered this cycle:
   - I found the "Emergency Medical Technology (EMT) data, but did not find any paramedic data listed. It may be because we have only been an "official" program for the 2016-17 school year; therefore, we won't have any comparable data listed until the 2017-18 school year data has posted.

2. How does your trend data impact your decision making process for your program?
   - N/A

3. Were there any changes to student success and retention for face-to-face, as well as online/distance courses?
   - N/A

4. Were there any changes to student demographics (age, gender, or ethnicity) for the past cycle?
   - N/A

Resource Request and Analysis:

Resource Request		If Fulfilled, Discuss How Previous Year's Requests Impact Program Effectiveness?
Positions: *Discuss the impact new and/or replacement faculty and/or staff had on your program's effectiveness.*	☒ 1: Classified Staff ☒ 2: Faculty	I am requesting one part time new department two assistant to help with the increased work load placed on our only department three assistant. The program has grown from one fulltime faculty to five fulltime faculty, one program Director, and now three programs; Fire Technology, EMT/Paramedic, Prison Fire and EMS, and Law. We hired a much needed full time paramedic instructor; however, she just started working this semester. Therefore, I will report on this in next year's annual program review. The hiring of this person also fulfilled a request by our accrediting agency CoAmps.
Professional Development: *Describe briefly, the effectiveness of the professional development your program has been engaged in (either*	☐ 1: Provided Professional Development ☒ 2: Attended Professional Development	1.) Attending Elumen training for curriculum development. 2.) Staff has been regularly attending the Pathways meetings. We have been reaching out to students (making phone calls and sending emails) who have less than 12 to 15 units. We have been informing them of the statistical benefits opportunities of enrolling full time. We have also been working with

providing or attending) during the last cycle		the counseling department staff to help close the gap between the information being pass along to students.
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	1.) Last year public safety supported strongly supported measure "J". Measure "J" did pass, but we are in the second five year funding cycle. All areas of public safety training are being impacted. EMS is constrained by a lack of classroom, and office space. Fire is being constrained by the same, and Olive Drive situation is unchanged as well, this school year we will be doing four academies. This means more opportunities for smoke to drift onto the playgrounds to the south of the fire training center. We have just started a new law enforcement academy; until the new training center is built the Weill is being impacted even more. Public Safety training is what's known as paramilitary style training. This is not always conducive to other college classes. The Wiell has no shower room for academy students to shower, another reason for a public safety training center.
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?*	☒ 1: Replacement Technology ☒ 2: New Technology ☐ 3: Software ☐ 4: Other_____	1.) EMS Received a desktop computer in the paramedic classroom 121. This has made it easier for other instructors to teach without having to bring in their own personal computer. 2.) All four of the classrooms at the Weill have older (10 yr. old) projectors, which need to be replaced with newer larger screen monitors, and apple TV style teaching aids where the instructor can move about the room and teach from a apple tablet.
Resource Request		**Discuss How Effective Request is for Student Success?**
Other Equipment: *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.*	☒ 1: Replacement ☐ 2: New ☐ 3: Other_____	1.) Replaced old outdated heart monitors with newer Zoll monitors. This has helped keep the students up to date with technological advancements in ECG/Defibrillators and how to use them effectively.

Budget:		Most of the budgets are working, I did request an additional 50,000 student contact hours for the Olive Drive budget (due to four academies this year), this was granted by the Executive Vice President. Student success in all of our areas has increased and continues to increase. We are doing more with, in most cases the same amount of funds as last year. This is being accomplished with equipment donations. County EMS donated $1000.00 of dollars in medical supplies this year.
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 annual program review.

There is currently a very large shortage of paramedics across the country. So much so, that I have been contacted by phone by ambulance and fire services from the eastern United States asking to come in to talk to our students about working for their organizations after paramedic school. And, our program has proven itself with excellent first time pass rates with the National Registry of EMT's (Over the years, our first time pass rate averages of 94% to 100% are much higher than National averages of 72% to 77%). As a result of our success, our program is growing rapidly. In order to keep up with the demand without compromising the quality of the program, in the coming year and beyond we will need to change / expand in the following areas:

1.) Classroom and office space expansion
2.) Curriculum updates to the paramedic program's courses (this will include changing the SLO's as well as changing instructors for classes B10 and B13)
3.) Equipment needs such as a simulator ambulance set up in a lab room or classroom with a Sim Man simulator manikin (with the proper software to run real time prehospital scenarios) on a gurney. The students need a more realistic setting to practice paramedicine. The labs are set up more like the hospital setting and we need to have more of a prehospital setting.
4.) Set up a paramedic prep course to help decrease attrition rates in the first semester classes of paramedic program.
5.) We may need to consider working with other agencies if Hall Ambulance cannot perform field training of all of our students. City and county fire departments have offered to help. I believe the area of field training has the potential to become a bottle neck, in regards to getting our students certified to the point of employment.