

EMERGENCY MEDICAL SERVICES

ANNUAL PROGRAM REVIEW

ACADEMIC YEAR: 2022-2023



FIRE, SAFETY AND EMERGENCY MEDICAL SERVICES

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Yearly Planning Discussion

PROGRAM NAME: EMERGENCY MEDICAL SERVICES

ACADEMIC YEAR: 2022-2023

General Questions

1. Has your program mission or primary function changed in the last year?

No, our program mission and primary function remain the same.

2. Were there any noteworthy changes to the program over the past year? (eg, new courses, degrees, certificates, articulation agreements)

The Paramedic Academy is set to start in the fall. We completed our initial site visit with CoAEMSP (the accrediting body) and were approved to start. That course will begin early Fall 2023 and be completed in May 2024. Students will receive a certificate of Achievement and sit for their National Registry EMT-P (Emergency Medical Technician Paramedic) certification.

3. Is your two-year program map in place and were there any challenges maintaining the planned schedule?

It is in place and on our EMS Webpage. However, one of our core requisite classes for the A.S. EMS Degree, Psych 127: Emotional Intelligence, stopped being taught, but recently restarted. It is currently only being offered in the Spring semester. Additional alternative psych courses will be revised in the EMS associate degree core requisite to suffice the psych requirement. I will be contacting the instructor to see if this course will continue. Furthermore, we are developing a new course titled "911 for the First Responder" which will be a mandatory course for EMS A.S. students about resiliency in the field.

4. Were there any staffing changes?

We have brought on nine PTF for the paramedic program and equal number of IA's for this program, as well as, five additional IA's for the EMT Academy. We lost one PTF to retirement that taught 9-units. We lost one PTF that taught both online classes that are cross listed with Fire services. I was able to hire one PTF to take over those classes that the retired staff taught, as well as a new hire (in processing) that will run the two online courses.

5. What were your program successes in your area of focus last year?

We returned our EMT Academy enrollment to pre-COVID days (which is 40). We easily fill the academy with a wait list. The number of students passing the national registry written exam is continuing to trend up, which is a tremendous success. We modified the books, online homework, testing and quizzes so they are more like the national registry exam. I sat in to take the national registry exam giving me a much better idea on how to test students with the hopes of them being better prepared to successfully pass the national registry exam upon graduating from the EMT Basic Academy. We interview those that sit for the exam on the testing questions, process, and

how our program enabled /disabled them and suggestions for improvement. The overwhelming response was that they felt how we test, the questions set them up for the exam.

The other obvious success is getting approval to begin the paramedic program which has been nearly 5-years in the making. Weathering through COVID and meeting all the accreditation requirements and deadlines was a huge success for our EMS program and our Public Safety Complex. Students can now complete all their public safety career certifications at our campus.

Learning Outcomes Assessment

a. Please summarize key results from this year's assessment.

I began the updates in course outlines through CurriQNet starting with courses that are currently being offered. I began sunseting courses; however, that is on hold due to the development and start of the paramedic program. The challenge is finding staff to bring on board that has the basic requirements required by the national accreditation and AHC.

b. Please summarize your reflections, analysis, and interpretation of the learning outcome assessment and data.

Based on the data collection provided by Allan Hancock College, the retention for all colleges for Fall-Spring 2021-2022 is 68%. Santa Barbara City College is also at 68%. AHC is 86%. EMS programs sit at 90%. The success (passed with a "c" or greater) is at 71% for AHC. The EMS program is at 85%. In reflecting, we do see an improvement in retention and success, one example being our EMS 301 Academy (greater than 90%). This success rate is also demonstrated in the National Registry Exam results. We have seen a significant increase in the pass rates in the last five years. This increase reflects the quality and legitimacy of content in EMS 301.

c. Please summarize recommendations and/or accolades that were made within the program/department.

It is always a challenge to develop a strong EMS program at the community college level. The high cost of student/ staff ratio, necessary equipment, clinical experiences (real-life and simulated) can cost the college funds that typically off-set by courses that do not require as much expenditure. Finding funding, fulfilling national, state and county requirements, as well as working within tight budget constraints are all challenges faced in our EMS program. With our great collaboration within the EMS community, creative teaching, and applications for institutional and other outside funding, we provide superior instruction to our students. However, consistent funding within the college is still essential to our program.

To remain compliant with Federal, State, and County regulations, we must maintain a specific student to instructor ratio, have equipment and supplies that not only make an exceptional learning environment, but are also (and will be) mandatory. We have an EMT academy, which is the foundation for students moving on to fire, police, paramedic, and nursing programs. Skills

taught in the EMS program save lives, period. This program is essential to the students in our schools, and without question, to the lives in our community.

As we build more programs at AHC that are in need, both at our state and community level, we are enabling the student's opportunity to stay in this community. This builds bridges and strengthens the cohesiveness of our community. All these factors allow us to run a successful program. With the addition of the paramedic academy, students could ultimately begin and end their training here at the PSTC—that is one of our outstanding strengths. We have acquired over \$100,000 worth of training equipment, so our students are prepared to be successful additions to the workforce upon the completion of any of our programs (EMT & Paramedic).

d. Please review and attach any changes to planning documentation, including PLO rubrics, associations, and cycles planning.

Courses related to certifications such as EMS 301 (EMS Academy, EMT-1 Basic) are guided by the governing body of accreditation (COAEMSP) using the guidelines of Title 22. Compliance to National, state and county standards is mandated to maintain the programs accreditation. After the first cohort completion of our paramedic academy, the PLO's will be reevaluated in both content knowledge and general abilities, such as critical thinking.

Distance Education (DE)

Modality Course Design Peer Review Update (Please attach documentation extracted from the *Rubric for Assessing Regular and Substantive Interaction in Distance Education Courses*)

a. Which courses were reviewed for regular and substantive interactions (RSI)?

We currently have 2 online courses that are both required for the EMS degrees (and one is cross-listed with the Fire degree). EMS 130: Principles of Emergency Management and EMS 319: Emergency response in Terrorism (cross-listed with FT 319).

b. What were some key findings regarding RSI?

As the Program Coordinator, I evaluated the new instructor teaching both online courses and thoroughly reviewed the curriculum. The annual update will be updated now, based on these findings (minimal change (books), data is current).

The PTF tackled the engagement issue online with the use of scenarios (both videos and written documents) within the discussion board on canvas. The students are required to discuss their thoughts and summaries of what they read. Part of these discussions the student is required to comment on others, which often opens a dialogue. The instructor can jump in to provide a different view and stimulate more critical thinking. Another way is to provide personalized feedback on the written assignments and offer the opportunity to open a discussion to other students.

Some strengths:

- Students provide unique perspectives of the situation they have watched or read obtained from their readings as well as life experiences and other resources. Opening a discussion, and at times a debate, enables a greater thought process supporting a well-rounded critical thinker. These substantive interactions are scheduled and predictable supporting the interactions.
- Document and verify that the staff follows the DE and Innovation / NC-SARA 2020 rules of responding to students that request support.
- AHC offers access to laptops for use during the semester as well as an excellent student services / financial aid program.
- The staff obtained to teach these courses have a strong background in both topics. We are bringing on a new PTF that has a BS in Homeland Security and Terrorism. This PTF was a police officer for 20 years and obtained his EMS degree with his certification during that period.

Some areas of possible improvement:

- Continuing to obtain new videos and current events is needed to bring the students into historical events and current affairs. This often engages the student even more.
- Education for the instructor to see the strengths and weaknesses and maintain the course with current knowledge and analysis of current and past events.

c. What is the plan for improvement?

- Providing this feedback to the current instructor is a huge start, requesting F23 courses have two new videos and current events.
- Providing students with a survey monkey questionnaire to students upon the completion to obtain direct feedback. Focus on engagement, knowledge retention, commitment to the DE course they are attending. This is a huge step in finding the areas of improvement and evaluating the effectiveness of the current structure and changes made.
- Consider obtaining a study of grades and student engagement.
- Obtain course options and provide the instructor opportunities to enroll and attend courses related to RSI as these courses will only be increasing, offering a greater diversity of students as well as students that logistically cannot attend live courses at AHC.

CTE two-year review of labor market data and pre-requisite review

a. Does the program meet documented labor market demand?

As stated in the prior annual review, the deficits for EMT-B and EMT-P are local and statewide. We still desperately need both EMT's and Paramedics. According to the U.S. Bureau of Labor

Statistics, Employment Projections program. "Overall employment of EMTs and paramedics is projected to grow 7 percent from 2021 to 2031, about as fast as the average for all occupations. About 20,000 openings for EMTs and paramedics are projected each year, on average, over the decade." We are collaborating with Santa Barbara County LEMSA bringing advanced EMT courses to help increase the pool for both AMR and SBCo Fire.

b. How does the program address needs that are not met by similar programs?

There are no similar programs at AHC. As previously stated, we have increased our EMT-Basic Academy from 30 to 40 students, holding a Spring and Fall academy. The paramedic program will run once a year, with a max capacity of 24 students. We will reevaluate once the first cohort graduates and consider an additional cohort for two academies each year. This will be an ongoing discussion with the agencies in the community based on workforce demand.

c. Does the employment, completion, and success data of students indicate program effectiveness and vitality? Please, explain.

Yes, it does. See the Curriculum and Teaching Design on success and retention data and summary. Since we have seen an increase in the success of students passing the NREMT exam, it would suggest our program is effective and exceeds expectations. We are developing a survey to send out to current and previous students. This would help us determine the ideology why some students don't even attempt to take the national registry exam or learn more about their failed attempts at national registry exam. This tool would help us evaluate and help students who are having trouble passing the national exam. In addition, this data collection would provide insight into those working in the field or using it as a stepping-stone to achieve a more advanced medical position, whether it is prehospital or other medical related fields.

d. Has the program met the Title 5 requirements to review course prerequisites, and advisories within the prescribed cycle of every 2 year for CTE programs and every 5 years for all others?

Yes

e. Have recommendations from the previous report been addressed?

Yes. See the 6-yr. Comprehensive Program Review, Validation Team Report with the recommendations. Most have been met. However, we are still updating and acquiring equipment for the paramedic program. Our goal is to turn out prepared students, immediately ready to enter the workforce. This means staying current with the ever-changing protocols and equipment used in Santa Barbara County.

New Program Planning Initiatives

Use the tables below to fill in **NEW** resources and planning initiatives that do not apply directly to core topics. ***This section is only used if there are new planning initiatives and resources requested.***

New Program Planning Initiative	
Title:	Paramedic Program: Skill lab equipment and supplies
Planning years:	1-2 years
Description:	
Obtaining equipment required by Paramedics that are essential for the skills that will be required to learn during the program (Clinicals and the Capstone Internship) and utilize upon graduation once they enter the field of Paramedicine	
Resources:	
Priority Level: High	
Resource Type: Supplies and Materials	
Quantity: 6	
Per Item Price: \$2.95	Price with taxes/shipping, etc: \$18.98
Description: <u>Pediatric Non-Rebreather</u> https://www.life-assist.com/products/details/1691/medsource-oxygen-masks/	
Resources:	
Priority Level: High	
Resource Type: Supplies and Materials	
Quantity: 6	
Per Item Price: \$27.45	Price with taxes/shipping, etc: \$176.64
Description: <u>Pediatric Bag-Valve Mask: Used to assist in ventilations</u> https://www.life-assist.com/products/details/2000/ambu-spur-ii-resuscitator-with-manometer/	
Resources:	
Priority Level: High	
Resource Type: Supplies and Materials	
Quantity: 3	
Per Item Price: \$3.35	Price with taxes/shipping, etc: \$10.78
Description: <u>Surgical Lube Bottles</u> https://www.life-assist.com/products/details/93/lubricating-jelly/	

Resources:

Priority Level: High

Resource Type: Supplies and Materials

Quantity: 2

Per Item Price: \$99.00

Price with taxes/shipping, etc: \$212.36

Description: Gurney Oxygen bottle holder.

<https://stretchersrus.com/products/stryker-fowler-oxygen-bottle-holder>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 2 of each size

Per Item Price: \$81.50

Price with taxes/shipping, etc: \$524.46

Description: Continuous Positive Airway Pressure (CPAP) Masks – Small, Medium, Large

<https://www.life-assist.com/products/details/2615/o2-max-disposable-cpap-devices-w-neb/>

Resources:

Priority Level: High

Resource Type: Supplies and Materials

Quantity: 2

Per Item Price: \$3.30

Price with taxes/shipping, etc: \$7.08

Description: Pediatric Nebulizer Masks – breathing treatment device

<https://www.life-assist.com/products/details/528/hudson-micro-mist-nebulizer/>

Resources:

Priority Level: High

Resource Type: Supplies and Materials

Quantity: 6

Per Item Price: \$2.89

Price with taxes/shipping, etc: \$6.20

Description: Adult Nebulizer Masks – breathing treatment device

<https://www.life-assist.com/products/details/528/hudson-micro-mist-nebulizer/>

Resources:

Priority Level: High

Resource Type: Supplies and Materials

Quantity: 6 (2 boxes of each size – box of 10)

Per Item Price: \$36.50

Price with taxes/shipping, etc: \$234.88

Description: Cuffed Endotracheal tubes (sizes 5.5, 6, 8.5)

<https://www.life-assist.com/products/details/1688/medsource-endotracheal-stylette-combo/>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 2

Per Item Price: \$1,500.00

Price with taxes/shipping, etc: \$3217.50

Description: Airtraq Video Intubation – for placing advanced airways

<https://www.mercurymed.com/wp-content/uploads/AirTraq-Tear-Sheet-ML2022-443.pdf>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 10

Per Item Price: \$94.50

Price with taxes/shipping, etc: \$1,013.51

Description: Laryngoscope handle – used for placing advanced airways

<https://www.life-assist.com/products/details/110/adc-fiberoptic-laryngoscopes/>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 3 (1 box of each size – box of 10)

Per Item Price: \$

Price with taxes/shipping, etc: \$18.98

Description: Laryngoscope straight blade – Size 1, 2, 3. Used for placing advanced airway

<https://www.life-assist.com/products/details/110/adc-fiberoptic-laryngoscopes/>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 3 (1 box of each size – box of 10)

Per Item Price: \$71.50

Price with taxes/shipping, etc: \$230.05

Description: Laryngoscope Curved blade – Size 2,3,4. Used for placing advanced airway

<https://www.life-assist.com/products/details/110/adc-fiberoptic-laryngoscopes/>

Resources:

Priority Level: High

Resource Type: Supplies and Materials

Quantity: 1 box of each size – 10/box

Per Item Price: \$245.00

Price with taxes/shipping, etc: \$1051.05

Description: Supraglottic Airway device (size 1, 1.5, 2, 2.5) - used for advanced airway

<https://www.life-assist.com/products/details/1591/i-gel-supraglottic-airway/>

Resources:

Priority Level: High

Resource Type: Supplies and Materials

Quantity: 30 (10 of each size)

Per Item Price: \$43.95

Price with taxes/shipping, etc: \$1414.09

Description: Supraglottic Airway device (size 3,4,5) - used for advanced airway

<https://www.life-assist.com/products/details/1591/i-gel-supraglottic-airway/>

Resources:

Priority Level: High

Resource Type: Supplies and Materials

Quantity: 4

Per Item Price: \$5.00

Price with taxes/shipping, etc: \$21.45

Description: Adult ET Tube Holder - used for to hold the advanced airway

<https://www.life-assist.com/Search/AC170>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 6 (3 of each ped & adult)

Per Item Price: \$7.50 **Price with taxes/shipping, etc:** \$48.26

Description: Magill Forceps (Pediatric and Adult)

Used for advanced airway placement and foreign body removal

<https://www.life-assist.com/products/details/114/magill-forceps/>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 10

Per Item Price: \$189.50 **Price with taxes/shipping, etc:** \$2,032.39

Description: Needle Thoracostomy Kit - advanced airway material

<https://www.life-assist.com/products/details/95/cook-emergency-thoracostomy-kit/>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 10

Per Item Price: \$918.00 **Price with taxes/shipping, etc:** \$984.56

Description: Life/form Cricothyrotomy Simulator - advanced airway material

<https://www.life-assist.com/products/details/789/life-form-cricothyrotomy-simulator/>

Resources:

Priority Level: High

Resource Type: material and supplies

Quantity: 20 (5 of each size)

Per Item Price: \$.65 **Price with taxes/shipping, etc:** \$13.94

Description: Suction Catheter Set (Sizes 6f, 8f, 10f, 14f)

<https://www.life-assist.com/products/details/1496/suction-catheters-with-coiled-packaging/>

Resources:

Priority Level: High

Resource Type: material and supplies

Quantity: 40 (10 of each size)

Per Item Price: \$ 2.49 **Price with taxes/shipping, etc:** \$106.82

Description: Orogastric tube (Sizes 16f, 18f, 12f, 14f)

<https://www.life-assist.com/products/details/2415/argyle-stomach-tube-levin-type/>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 2

Per Item Price: \$745.00 **Price with taxes/shipping, etc:** \$1598.03

Description: Portable Powered Suction Unit – Suctioning Airway

<https://www.life-assist.com/products/details/994/sscor-quickdraw-2403-handheld-aspirator/>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 4

Per Item Price: \$387.25

Price with taxes/shipping, etc: \$1,661.30

Description: EKG Cable set w/12 lead – cardiac monitoring

<https://www.medline.com/product/12-Lead-ECG-Patient-Cables/Accessories/Z05-PF163644?question=ECG%20CABLE%20WITH%20BANANA%20CONNECTOR%2C%204%20M>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 2

Per Item Price: \$54.63

Price with taxes/shipping, etc: \$117.18

Description: Mini Metronome Meideal M50 Device

<https://www.amazon.com/Waterwood-Meideal-Metronome-Multi-functional-Digital/dp/B00IU8LBKC>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 1 (pack of 5)

Per Item Price: \$22.95

Price with taxes/shipping, etc: \$24.61

Description: LP 0 15 paper (pack of 5) - printing out cardiac sequence from lifepak monitor

<https://www.life-assist.com/products/details/167/ekg-paper/>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 2

Per Item Price: \$695.00

Price with taxes/shipping, etc: \$1,490.78

Description: ymbio CS1201 12-Lead Heart Rhythm Defibrillator Simulator

https://www.medicaldevicedepot.com/CS1201-12-Lead-Heart-Rhythm-Defibrillator-Simulator/CS1201.htm?dfw_tracker=3918-96813&gclid=EA1aIQobChMlyL_Y25fD_wIVtA-etBh0E6AokEAQYASABEgIVi_D_BwE

Resources:

Priority Level: High

Resource Type: Supplies and Materials

Quantity: 5

Per Item Price: \$14.99

Price with taxes/shipping, etc: \$80.38

Description: End Tidal Co2 ET tube set – measuring End Tidal

<https://www.life-assist.com/products/details/1344/capnoline-and-filterline-h-capnography/>

Resources:

Priority Level: High

Resource Type: Supplies and Materials

Quantity: 5

Per Item Price: \$16.99

Price with taxes/shipping, etc: \$91.11

Description: End Tidal Co2 ET cannula set – measuring End Tidal

<https://www.life-assist.com/products/details/1344/capnoline-and-filterline-h-capnography/>

Resources:

Priority Level: High

Resource Type: Materials and Supplies

Quantity: 1

Per Item Price: \$510.00

Price with taxes/shipping, etc: \$546.98

Description: Adult/Ped EKG Electrodes (case of 250)

<https://www.life-assist.com/products/details/1029/ambu-blue-sensor-electrodes/>

Resources:

Priority Level: High

Resource Type: Materials and Supplies

Quantity: 2

Per Item Price: \$17.75

Price with taxes/shipping, etc: \$38.07

Description: Glucometer testing strips (box of 50)

<https://www.life-assist.com/products/details/2078/assure-prism-blood-glucose-monitoring-system/>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 4

Per Item Price: \$27.50

Price with taxes/shipping, etc: \$117.98

Description: Assure Glucometers – testing glucose for diabetic emergencies. <https://www.life-assist.com/products/details/2078/assure-prism-blood-glucose-monitoring-system/>

<https://www.life-assist.com/products/details/2078/assure-prism-blood-glucose-monitoring-system/>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 1

Per Item Price: \$64.50

Price with taxes/shipping, etc: \$69.18

Description: Large Adult Blood Pressure cuff for LifePak Monitor

<https://www.life-assist.com/products/details/1778/lifepak-reusable-blood-pressure-cuffs/>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 1

Per Item Price: \$59.99

Price with taxes/shipping, etc: \$64.34

Description: Regular Adult Blood Pressure cuff for LifePak Monitor

<https://www.life-assist.com/products/details/1778/lifepak-reusable-blood-pressure-cuffs/>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 1

Per Item Price: \$44.95

Price with taxes/shipping, etc: \$48.21

Description: Peds Blood Pressure cuff for LifePak Monitor

<https://www.life-assist.com/products/details/1778/lifepak-reusable-blood-pressure-cuffs/>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 1

Per Item Price: \$42.95

Price with taxes/shipping, etc: \$46.06

Description: Infant Blood Pressure cuff for LifePak Monitor

<https://www.life-assist.com/products/details/1778/lifepak-reusable-blood-pressure-cuffs/>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 5

Per Item Price: \$18.50

Price with taxes/shipping, etc: \$99.21

Description: Large Adult Blood Pressure cuff – taking manual BP

<https://www.life-assist.com/products/details/1663/dynarex-economy-bp-unit/>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 5

Per Item Price: \$12.50

Price with taxes/shipping, etc: \$67.03

Description: Regular Adult Blood Pressure cuff – taking manual BP

<https://www.life-assist.com/products/details/1663/dynarex-economy-bp-unit/>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 10 (5 of each peds and infant)

Per Item Price: \$14.95

Price with taxes/shipping, etc: \$160.34

Description: Infant and pediatric Blood Pressure cuff – taking manual BP

<https://www.life-assist.com/products/details/1663/dynarex-economy-bp-unit/>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 3

Per Item Price: \$26.95

Price with taxes/shipping, etc: \$86.71

Description: Broslow Tape – dosing/measuring pediatrics

<https://www.life-assist.com/products/details/1714/pediatape-pediatric-emergency-tape/>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 2

Per Item Price: \$468.73

Price with taxes/shipping, etc: \$817.46

Description: EZ-IO G3 Battery Powered Drill - Intraosseous (IO) vascular access

https://www.911tacmed.com/store/p80/EZ-IO_G3_Power_Driver_-_BLK_Item_%23%3A_30-0075_.html

Resources:

Priority Level: High

Resource Type: Materials and Supplies

Quantity: 5

Per Item Price: \$185.98

Price with taxes/shipping, etc: \$929.90

Description: Large Adult IO Needles + Stabilizer Kit (45mm) - IO Vascular Access

https://www.911tacmed.com/store/p84/EZ-IO_G3_Power_Driver_Needle_Set_.html

Resources:

Priority Level: High

Resource Type: Materials and Supplies

Quantity: 4 (2 of each size 15mm/25mm)

Per Item Price: \$185.98

Price with taxes/shipping, etc: \$743.92

Description: Adult & Peds IO Needles + Stabilizer Kits (15 & 25mm) - IO Vascular Access

https://www.911tacmed.com/store/p84/EZ-IO_G3_Power_Driver_Needle_Set_.html

Resources:

Priority Level: High

Resource Type: Materials and Supplies

Quantity: 1 (box of 5)

Per Item Price: \$35.99

Price with taxes/shipping, etc: \$38.60

Description: IO Stabilizers - IO Vascular Access

<https://www.liveactionsafety.com/ez-io-ez-stabilizer-dressing/>

Resources:

Priority Level: High

Resource Type: Materials and supplies

Quantity: 1 (box of 100)

Per Item Price: \$12.00

Price with taxes/shipping, etc: \$12.87

Description: Iodine Wipes (box of 100)

<https://www.life-assist.com/products/details/799/prep-pads/>

Resources:

Priority Level: High

Resource Type: Materials and supplies

Quantity: 12 (4 boxes of each size 18g, 20g, 22g – 50/box)

Per Item Price: \$194.50

Price with taxes/shipping, etc: \$2503.23

Description: Safety Angiocaths – Size 18g, 20g, 22g – Starting IV access

<https://www.life-assist.com/products/details/353/bd-insyte-autoguard-iv-catheters/>

Resources:

Priority Level: High

Resource Type: Materials and supplies

Quantity: 2

Per Item Price: \$194.50

Price with taxes/shipping, etc: \$417.20

Description: Safety Angiocaths – Size 24g – Starting IV access

<https://www.life-assist.com/products/details/353/bd-insyte-autoguard-iv-catheters/>

Resources:

Priority Level: High

Resource Type: Supplies and Materials

Quantity: 2

Per Item Price: \$27.95

Price with taxes/shipping, etc: \$59.95

Description: IV Pressure Infusion bag/cuff

<https://www.life-assist.com/products/details/314/infu-surg-disposable-pressure-infuser-bag/>

Resources:

Priority Level: High

Resource Type: Materials and Supplies

Quantity: 25

Per Item Price: \$2.45

Price with taxes/shipping, etc: \$65.69

Description: Luer Lock saline Locks – IV Access

<https://www.emsstuff.com/extension-set-saline-lock-by-icu-medical/>

Resources:

Priority Level: High

Resource Type: Materials and Supplies

Quantity: 25

Per Item Price: \$4.65

Price with taxes/shipping, etc: \$124.68

Description: Luer Lock Macro Drip IV Administration Sets

<https://www.life-assist.com/products/details/1573/b-braun-needleless-iv-sets/>

Resources:

Priority Level: High

Resource Type: Materials and Supplies

Quantity: 25

Per Item Price: \$4.55

Price with taxes/shipping, etc: \$122.00

Description: Luer Lock Micro Drip IV Administration Sets

<https://www.life-assist.com/products/details/1573/b-braun-needleless-iv-sets/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 1 (Box of 50)

Per Item Price: \$35.00

Price with taxes/shipping, etc: \$37.54

Description: Adult Safety Needles (18g – 1.5in) Box of 50

<https://www.life-assist.com/products/details/913/bd-safetyglide-needles/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 3 (1 box of each size - Box of 50)

Per Item Price: \$38.00

Price with taxes/shipping, etc: \$122.28

Description: Adult Safety Needles (21g 1.5in, 22g 1.5in, 23g 1in) Box of 50

<https://www.life-assist.com/products/details/913/bd-safetyglide-needles/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 4

Per Item Price: \$7.95

Price with taxes/shipping, etc: \$34.11

Description: Sharps Container – 2 gallon

<https://www.life-assist.com/products/details/368/sharpsafety-sharps-containers/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 4

Per Item Price: \$7.95

Price with taxes/shipping, etc: \$34.11

Description: Opsite IV Bandage

<https://www.amazon.com/Smith-Nephew-Opsite-3000-Dressing/dp/B0030CO8H6>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 4

Per Item Price: \$4.40

Price with taxes/shipping, etc: \$18.88

Description: Sharps Container – 1 quart

<https://www.life-assist.com/products/details/368/sharpsafety-sharps-containers/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 1 (box of 24)

Per Item Price: \$94.50

Price with taxes/shipping, etc: \$101.35

Description: Sharps DART Sharps Container – single use

<https://www.life-assist.com/products/details/1805/sharps-dart-sharps-container/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 4 (Box of 50)

Per Item Price: \$38.00

Price with taxes/shipping, etc: \$163.02

Description: Pediatric Safety Needles (25g 1in) Box of 50

<https://www.life-assist.com/products/details/913/bd-safetyglide-needles/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 2 (Box of 100)

Per Item Price: \$18.00

Price with taxes/shipping, etc: \$38.61

Description: Luer Lock 3mL Syringes (box of 100)

<https://www.life-assist.com/products/details/1502/syringes-luer-lock/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 2 (Box of 100)

Per Item Price: \$80.00

Price with taxes/shipping, etc: \$171.60

Description: Luer Lock 1mL Syringes (box of 100)

<https://www.life-assist.com/products/details/1502/syringes-luer-lock/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 2 (Box of 100)

Per Item Price: \$20.00

Price with taxes/shipping, etc: \$42.90

Description: Luer Lock 5mL Syringes (box of 100)

<https://www.life-assist.com/products/details/1502/syringes-luer-lock/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 2 (Box of 100)

Per Item Price: \$29.00

Price with taxes/shipping, etc: \$62.21

Description: Luer Lock 10mL Syringes (box of 100)

<https://www.life-assist.com/products/details/1502/syringes-luer-lock/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 1 (Box of 50)

Per Item Price: \$24.50

Price with taxes/shipping, etc: \$26.28

Description: Luer Lock 20mL Syringes (box of 50)

<https://www.life-assist.com/products/details/1502/syringes-luer-lock/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 50

Per Item Price: \$2.58

Price with taxes/shipping, etc: \$138.35

Description: Safety Vial Access Spike – Starting IV Drip bags

<https://www.life-assist.com/products/details/1911/amsafe-microclave-clear-needleless-system/>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 10

Per Item Price: \$12.25

Price with taxes/shipping, etc: \$131.38

Description: Mucosal Atomization Device for Narcan

<https://www.life-assist.com/products/details/312/mad-mucosal-atomization-device/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 1 (box of 100)

Per Item Price: \$199.00

Price with taxes/shipping, etc: \$213.43

Description: Normal Saline, 10mL preload Flushes – IV Vascular Access

<https://www.life-assist.com/products/details/2106/aquabiliti-aquastat-saline-flush-syringe/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 2

Per Item Price: \$459.00

Price with taxes/shipping, etc: \$984.56

Description: Glucagon 1mg – medication for diabetic emergencies

<https://www.life-assist.com/products/details/2372/glucagon/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 8 (packs of 3)

Per Item Price: \$13.95

Price with taxes/shipping, etc: \$119.69

Description: Oral Glucose – for Diabetic Emergencies

<https://www.life-assist.com/products/details/1341/glucose-15-and-glucose-45/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 5

Per Item Price: \$4.50

Price with taxes/shipping, etc: \$24.13

Description: Magnesium Sulfate, 2mg – pharmacology

<https://www.life-assist.com/products/details/2483/magnesium-sulfate/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 4 (packs of 2)

Per Item Price: \$124.50

Price with taxes/shipping, etc: \$534.11

Description: Naloxone 4mg nasal spray – pharmacology

<https://www.life-assist.com/products/details/1892/narcan-nasal-spray/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 1 (pack of 30)

Per Item Price: \$29.50

Price with taxes/shipping, etc: \$31.64

Description: Ondansetron – pack of 30 – pharmacology

<https://www.life-assist.com/products/details/2384/ondansetron/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 2

Per Item Price: \$49.90

Price with taxes/shipping, etc: \$107.04

Description: tranexamic acid – pharmacology

<https://www.life-assist.com/products/details/2395/tranexamic-acid-txa/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 4 (Box of 10)

Per Item Price: \$126.50

Price with taxes/shipping, etc: \$542.69

Description: Quickclot Hemostatic Dressing 4x4 (box of 10) – hemorrhage control

<https://www.life-assist.com/products/details/1668/quikclot-ems-family-of-products/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 4 (Box of 20)

Per Item Price: \$10.00

Price with taxes/shipping, etc: \$42.90

Description: ABD Pad – 8x10 – hemorrhage control

<https://www.life-assist.com/products/details/866/dukal-combine-abd-pads/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 2

Per Item Price: \$9.65

Price with taxes/shipping, etc: \$20.70

Description: Medium Burn Sheets

<https://www.life-assist.com/products/details/824/burnfree/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 2

Per Item Price: \$5.20

Price with taxes/shipping, etc: \$20.70

Description: Small Burn Sheets

<https://www.life-assist.com/products/details/824/burnfree/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 10

Per Item Price: \$9.50

Price with taxes/shipping, etc: \$101.89

Description: Saline Bottles 1000mL

<https://www.life-assist.com/products/details/829/irrigation-solutions/>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 2

Per Item Price: \$220.00

Price with taxes/shipping, etc: \$471.90

Description: Pediatric Backboard – spinal immobilization

<https://www.life-assist.com/products/details/2640/pediatric-spinal-immobilization-device/>

Resources:

Priority Level: High

Resource Type: equipment

Quantity: 4

Per Item Price: \$555.50

Price with taxes/shipping, etc: \$2383.10

Description: Fasplint Half Back Vacuum Splint for Pediatrics – splinting

<https://www.life-assist.com/products/details/1624/hartwell-fasplint-halfback/>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 25

Per Item Price: \$9.15

Price with taxes/shipping, etc: \$245.33

Description: Cervical Collar – adult immobilization

<https://www.life-assist.com/products/details/240/ambu-perfit-ace-extrication-collar/>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 10

Per Item Price: \$13.20

Price with taxes/shipping, etc: \$141.57

Description: Pediatric Cervical Collar – immobilization

<https://www.life-assist.com/products/details/237/laerdal-stifneck-adjustable-select-collar/>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 5

Per Item Price: \$11.80

Price with taxes/shipping, etc: \$63.28

Description: SAM Splints

<https://www.life-assist.com/products/details/265/sam-splint/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 2

Per Item Price: \$17.60

Price with taxes/shipping, etc: \$37.75

Description: OB Kit – Labor and Delivery

<https://www.life-assist.com/products/details/2708/obstetrical-kit-ob-with-cap-and-blanket/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 4

Per Item Price: \$4.25

Price with taxes/shipping, etc: \$18.23

Description: Disposable Yellow Blanket

<https://www.life-assist.com/products/details/542/yellow-emergency-blanket/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 4

Per Item Price: \$1.25

Price with taxes/shipping, etc: \$5.36

Description: Hot Packs

<https://www.life-assist.com/products/details/2776/dukal-instant-hot-and-cold-packs/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 4 (pack of 6)

Per Item Price: \$25.20

Price with taxes/shipping, etc: \$108.11

Description: 2" Cloth Tape – bandage placement

<https://www.life-assist.com/products/details/870/kendall-standard-porous-tape/>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 1

Per Item Price: \$34.50

Price with taxes/shipping, etc: \$37.00

Description: Mega Mover – lifting patients

<https://www.life-assist.com/products/details/939/graham-megamover-transport-units/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 1 (pack of 100)

Per Item Price: \$70.00

Price with taxes/shipping, etc: \$75.08

Description: Biohazard Bags – Waste

<https://www.life-assist.com/products/details/665/biohazard-bags-and-labels/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 1 (pack of 25)

Per Item Price: \$25.50

Price with taxes/shipping, etc: \$27.35

Description: Emesis Bags – 25 bags

<https://www.life-assist.com/products/details/1557/medegen-emesis-bag/>

Resources:

Priority Level: High

Resource Type: Material and Supplies

Quantity: 5

Per Item Price: \$14.99

Price with taxes/shipping, etc: \$80.83

Description: Posey 2532 Foam Quick-Release Limb Holders, Single Quick-Release Strap, 31"

<https://www.life-assist.com/products/details/583/posey-limb-holders/>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 4

Per Item Price: \$469.00

Price with taxes/shipping, etc: \$2,012.01

Description: Airway/Trauma Bags for materials/supplies

<https://www.life-assist.com/products/details/451/ferno-professional-trauma-airway-pack-5111/>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 1

Per Item Price: \$935.95

Price with taxes/shipping, etc: \$1,003.81

Description: Life/form Intraosseous Infusion Simulator – Training to insert IO infusion procedures

<https://www.life-assist.com/products/details/1710/life-form-intraosseous-infusion-simulator/>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 24 (4 of each medication)

Per Item Price: \$7.55

Price with taxes/shipping, etc: \$194.34

Description: Medication Training simulators (Epi, adenosine, atropine, naloxone, CaCL, lidocaine)

<https://www.life-assist.com/products/details/2656/simrx-training-medications/>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 8 (4 of each medication)

Per Item Price: \$8.95

Price with taxes/shipping, etc: \$76.79

Description: Medication Training simulators (Sodium Bicarbonate, 50% Dextrose)

<https://www.life-assist.com/products/details/2656/simrx-training-medications/>

Resources:

Priority Level: High

Resource Type: Materials and Supplies

Quantity: 2

Per Item Price: \$12.90

Price with taxes/shipping, etc: \$27.67

Description: iPad Chargers for i-simulate

<https://www.amazon.com/Charger-Foldable-Portable-Lightning-Compatible>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 2

Per Item Price: \$199.00

Price with taxes/shipping, etc: \$426.86

Description: Anatomy Lab Foley Catheter Insertion Kit

<https://anatomywarehouse.com/anatomy-lab-foley-catheter-insertion-kit-a-109567>

Resources:

Priority Level: High

Resource Type: Materials and Supplies

Quantity: 1 Box of 100

Per Item Price: \$77.95

Price with taxes/shipping, etc: \$83.60

Description: Anatomy Lab Foley Catheter Insertion Kit

<https://anatomywarehouse.com/anatomy-lab-foley-catheter-insertion-kit-a-109567>

Resources:

Priority Level: High

Resource Type: Materials and Supplies

Quantity: 7

Per Item Price: \$14.95

Price with taxes/shipping, etc: \$112.24

Description: Training Medication Labels: Adenosine, Amiodarone, Epi, MgSulfate, Midazolam,

Naloxone, Nitro <https://www.wallcur.com/Departments/Practi-Peel-N-Stick-Labels.aspx>

Resources:

Priority Level: High

Resource Type: Materials and Supplies

Quantity: 2 (Box of 40)

Per Item Price: \$60.95

Price with taxes/shipping, etc: \$130.74

Description: Practi-Fentanyl™ & Glucagon (for training)

[https://www.wallcur.com/Products/Practi-Fentanyl-\(for-training\)_499FT.aspx](https://www.wallcur.com/Products/Practi-Fentanyl-(for-training)_499FT.aspx)

Resources:

Priority Level: High

Resource Type: Materials and Supplies

Quantity: 2 (Box of 30)

Per Item Price: \$62.95

Price with taxes/shipping, etc: \$135.03

Description: Practi-Ketamine™ & Practi-TXA (for training)

[https://www.wallcur.com/Products/Practi-Ketamine-\(for-training\)_465KM.aspx](https://www.wallcur.com/Products/Practi-Ketamine-(for-training)_465KM.aspx)

Area of Focus: Curriculum and Teaching Design

Curriculum and Teaching Design analyzes currency of modalities, articulation, and industry needs. It includes content review, currency and relevance, accessibility, and equitable practices.

1. What data were analyzed and what were the main conclusions?

Success and retention, persistence, and awards (age, gender, and ethnicity) with California State, Allan Hancock College (AHC), and AHC EMS program were reviewed, analyzed, and summarized. The data collected focuses on retention, success, and awards given. The data compared all college data (statewide), AHC and the Emergency Medical Services programs (EMS) at AHC.

The retention for all colleges for Fall-Spring 2021-2022 is 68%. Santa Barbara City College (located in SB County) is also at 68%. AHC is 86% while the EMS program sits at 90%. The success (passed with a "c" or greater) is at 71% for AHC. EMS programs is at 85%. The data suggests a higher rate of both retention and success at AHC and even higher in the EMS program, than the state schools, including a local community college in the same county.

Diversity is strong in our EMS program, the success, retention, and persistence remain higher in Ethnicity than all AHC. The area we lack is gender. The number of females in our program has been declining. Over the past 5-years, they only represent about 25-30% of our students earning degrees/certificates, while all AHC has about 60% female ratio earning degrees.

Success & Retention

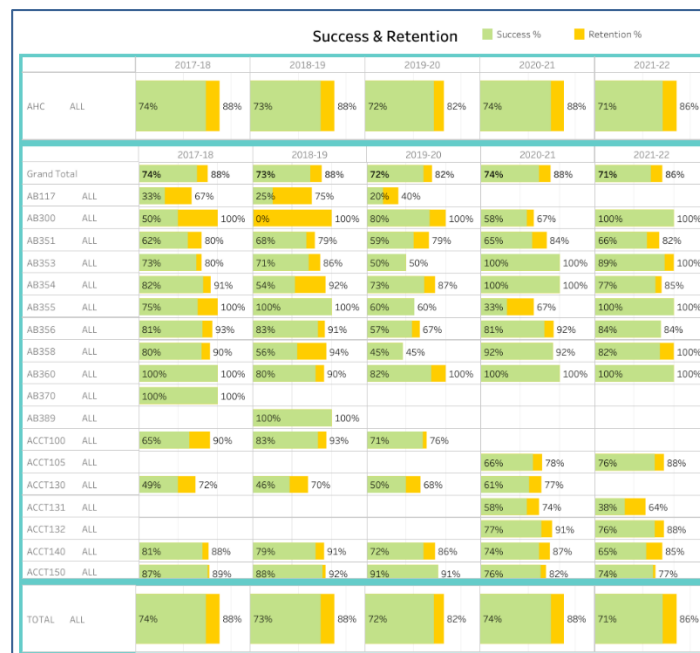


Figure 1: Success and Retention for all AHC programs.

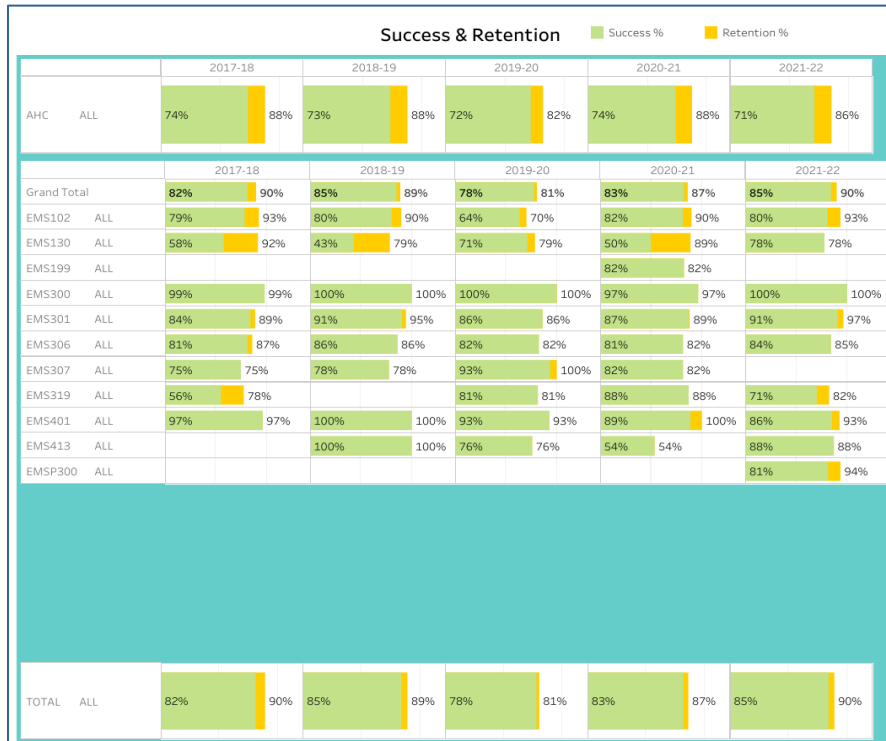


Figure 2: Success & Retention for AHC's EMS Program

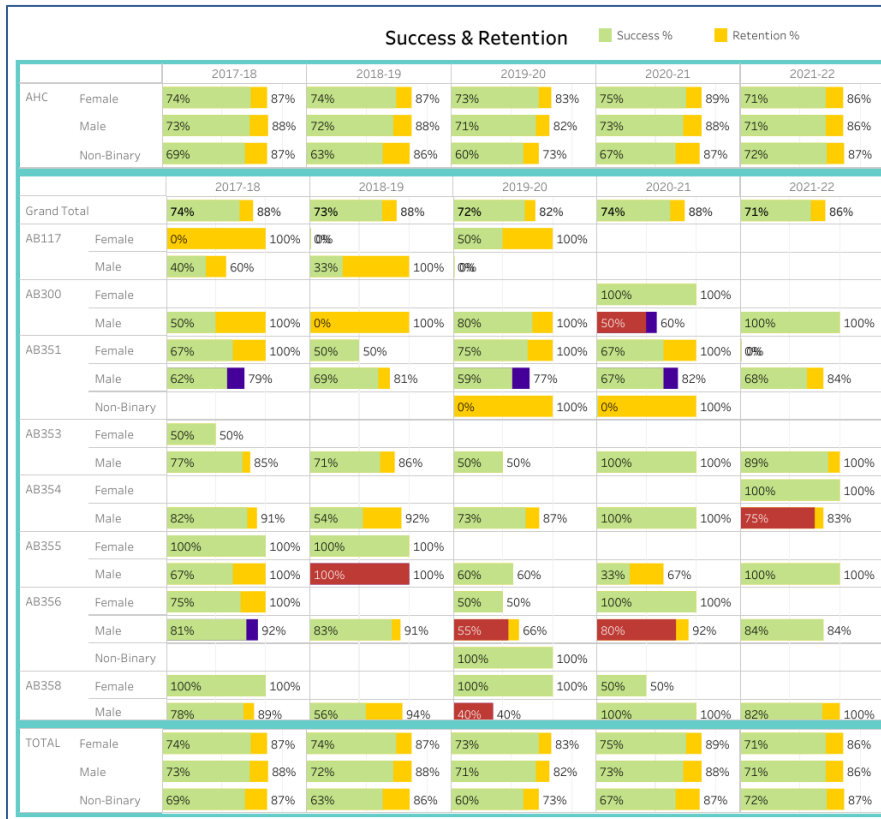


Figure 3: Gender Success & Retention for all AHC Programs.

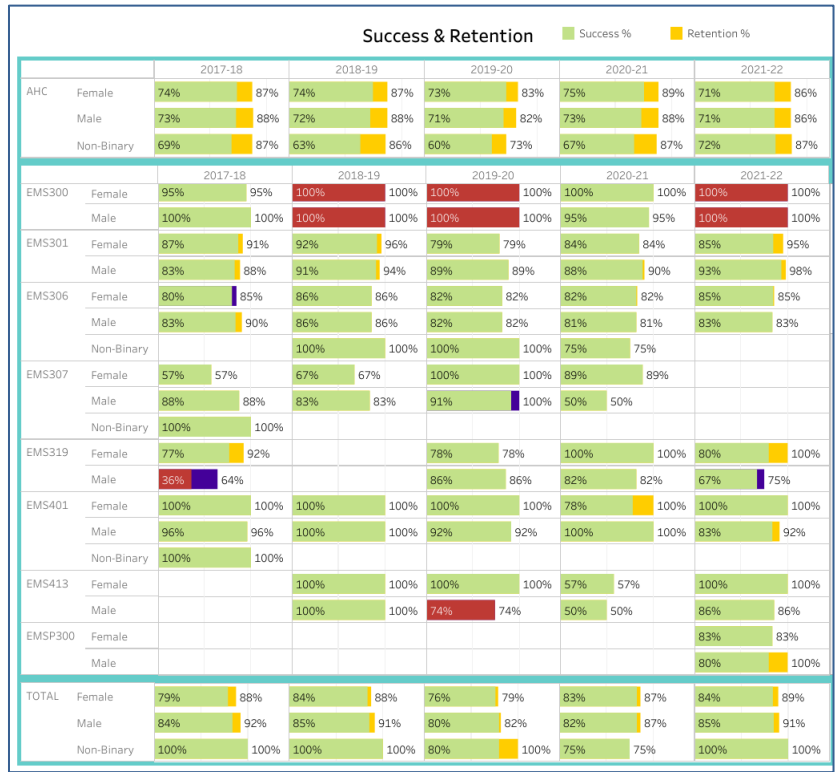


Figure 4: Gender Success & Retention for AHC's EMS Program.

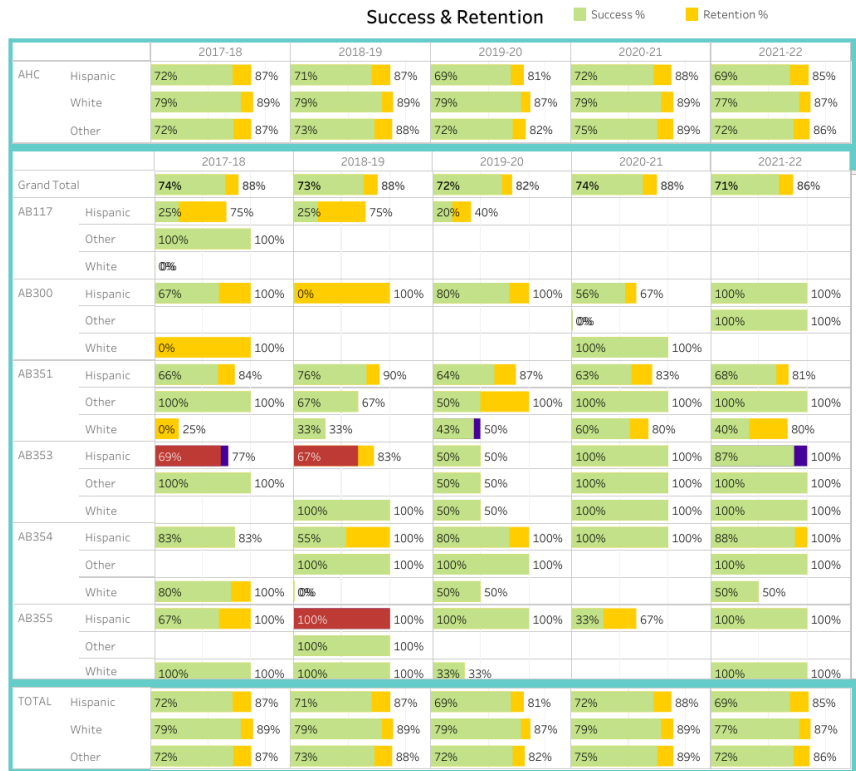


Figure 5: Ethnicity Success & Retention for all AHC Programs.

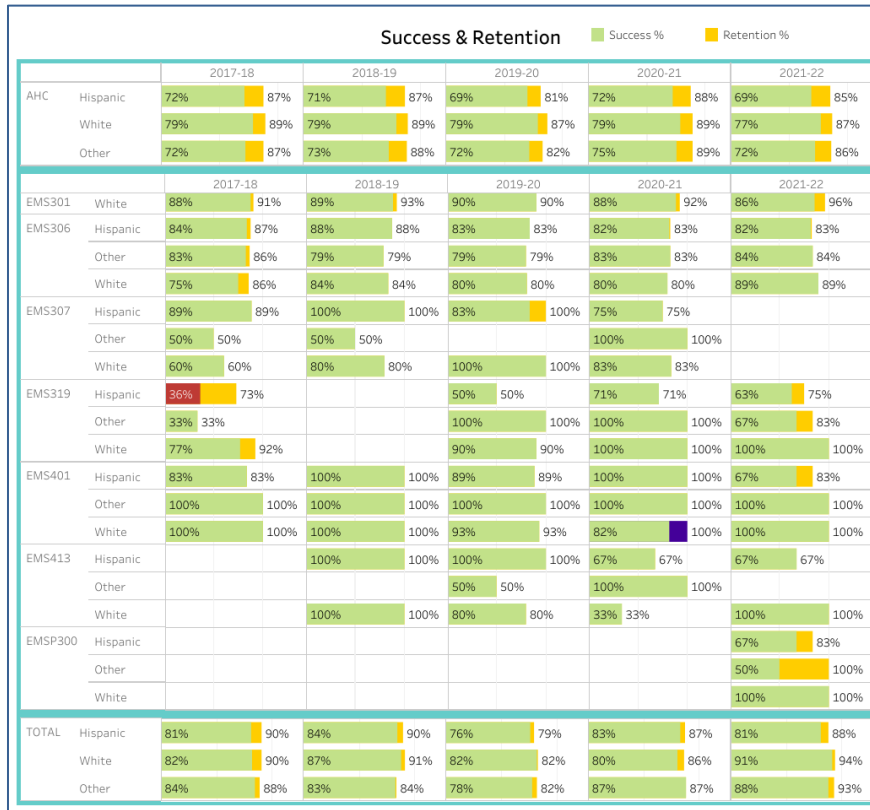


Figure 6: Ethnicity Success & Retention for AHC's EMS Program.

Persistence

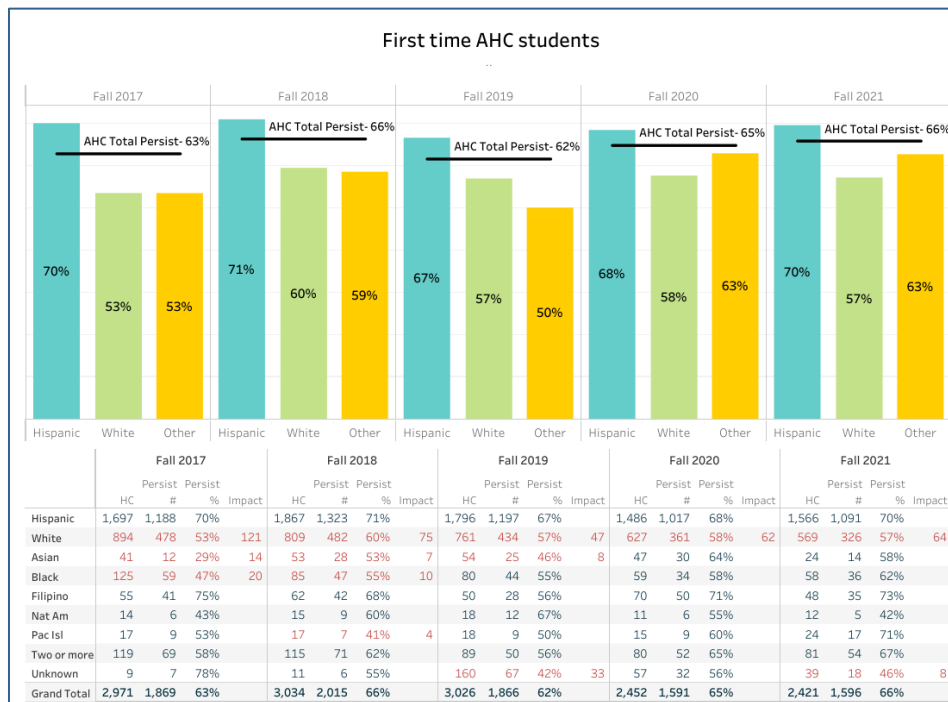


Figure 7: Ethnicity Persistence rate for all AHC Programs.

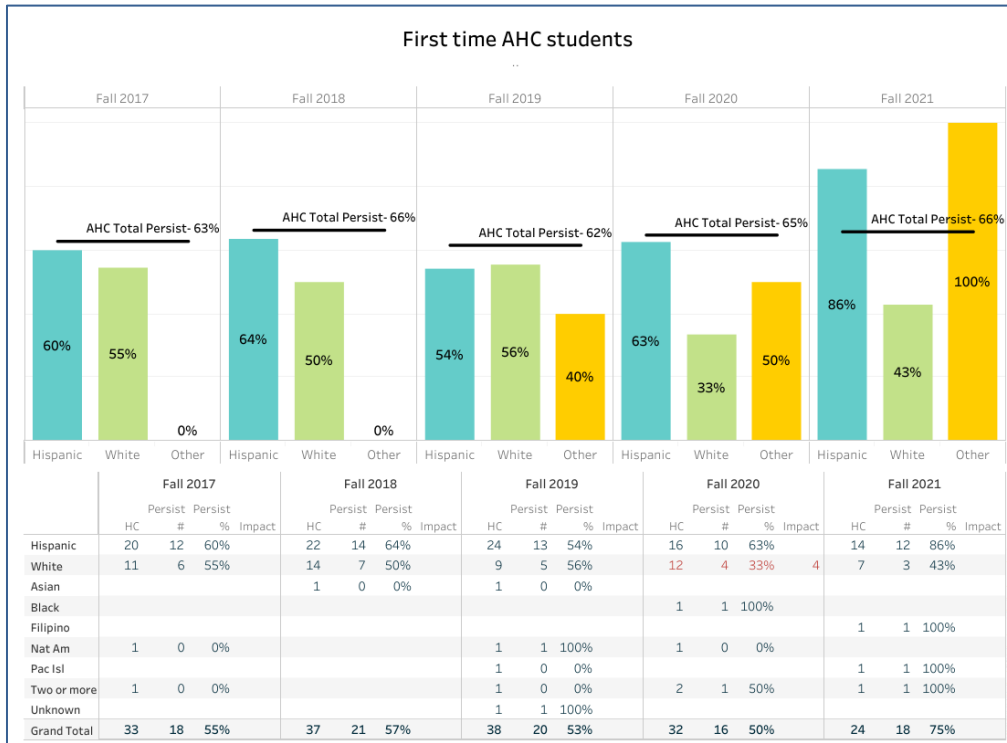


Figure 8: Ethnicity Persistence rate for AHC's EMS Program.

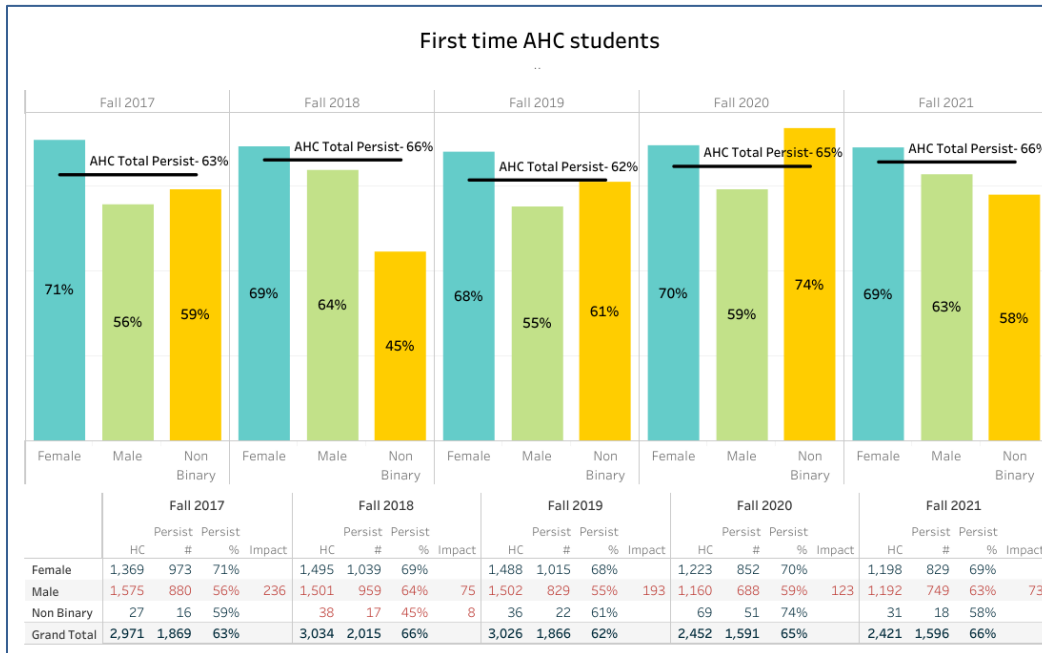


Figure 9: Gender Persistence Rate for all AHC Programs.

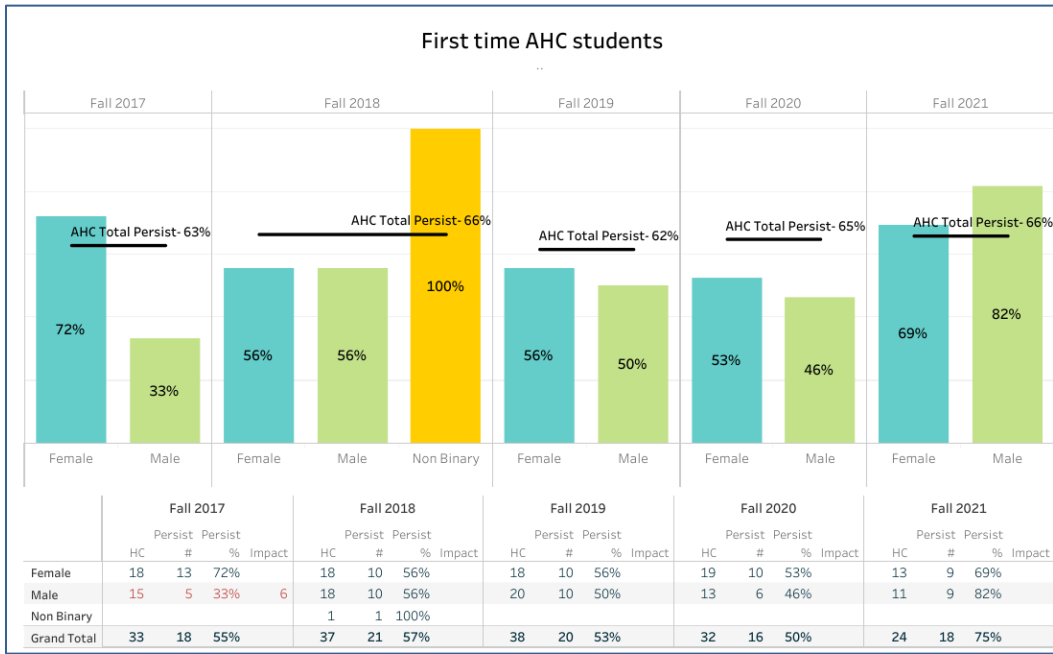


Figure 10: Gender Persistence rate for AHC's EMS Program.

Awards: Degrees & Certificates

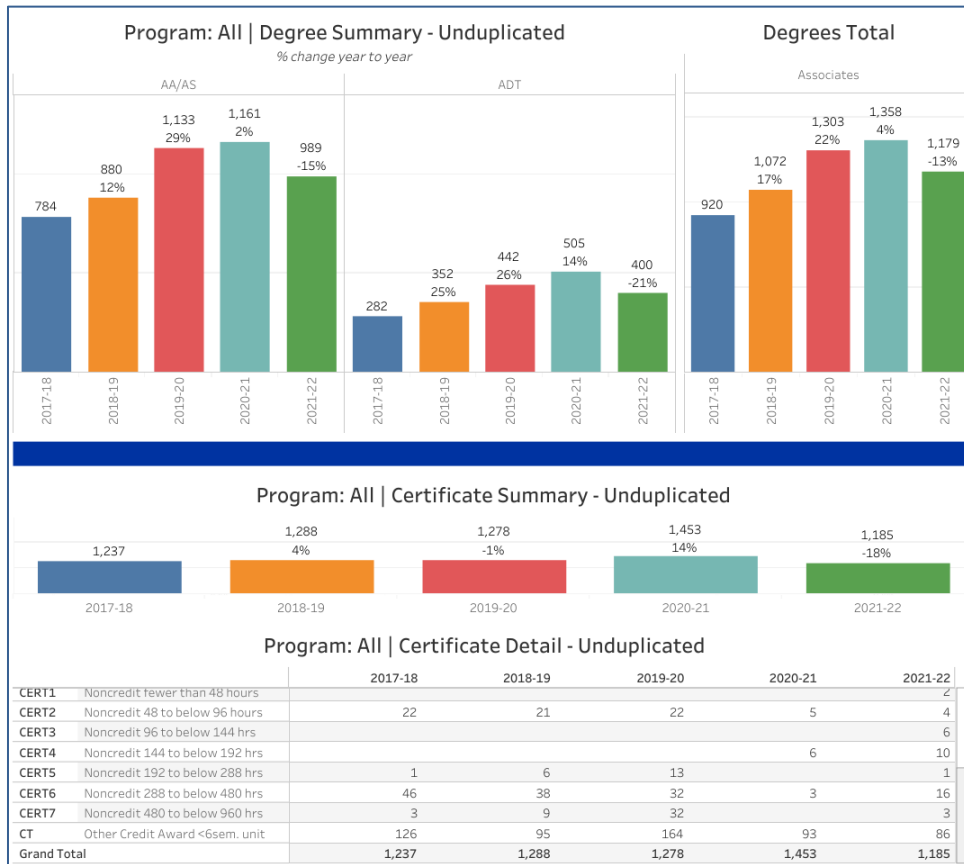


Figure 11: Degrees & Certificates for all AHC Programs.

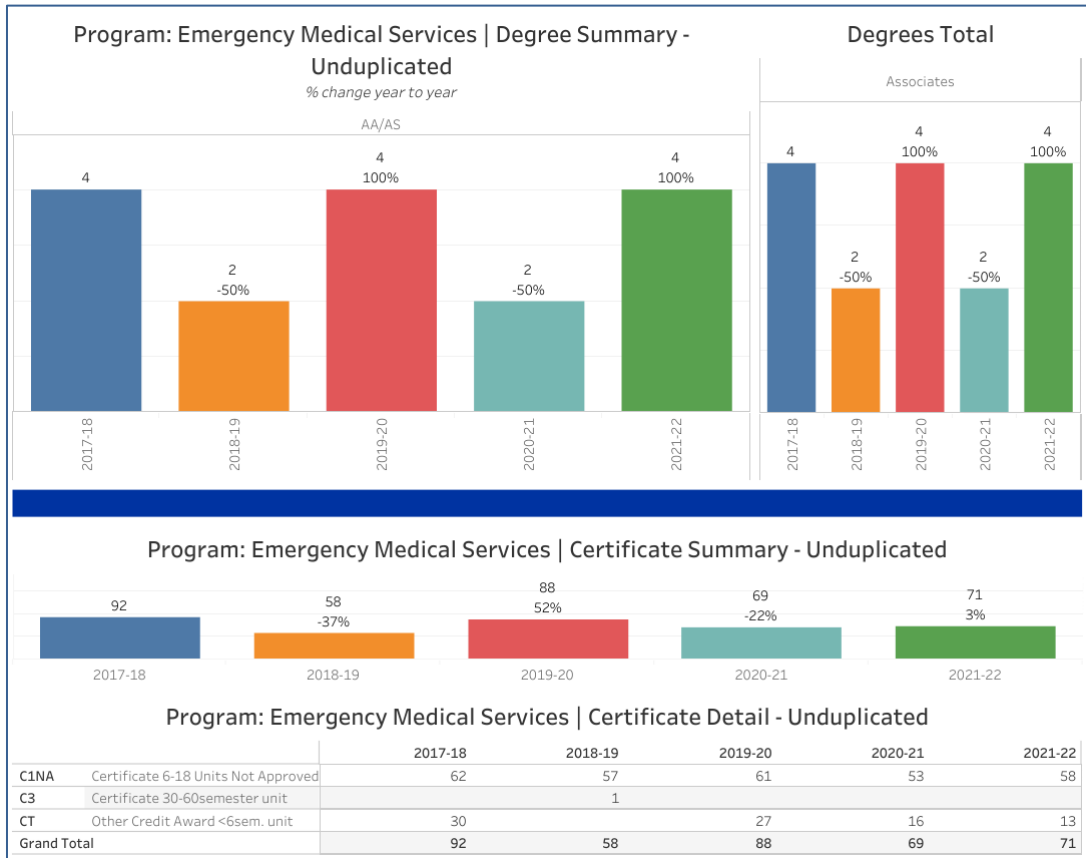


Figure 12: Degrees & Certificates for AHC's EMS Program.

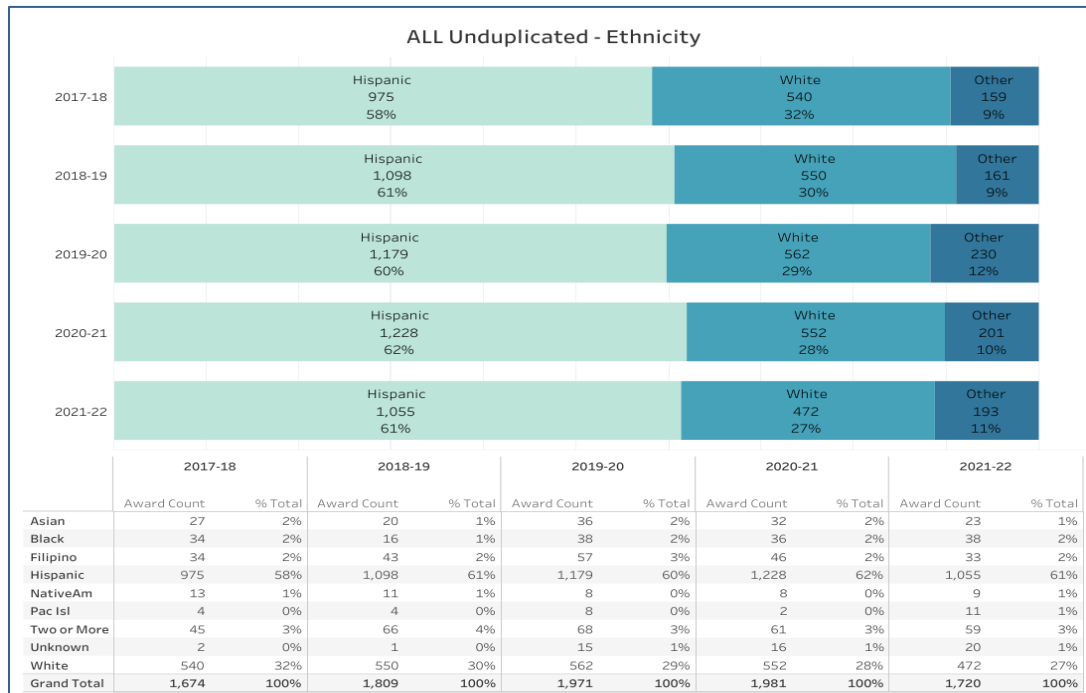


Figure 13: Ethnicity Degrees & Certificates for all AHC Programs

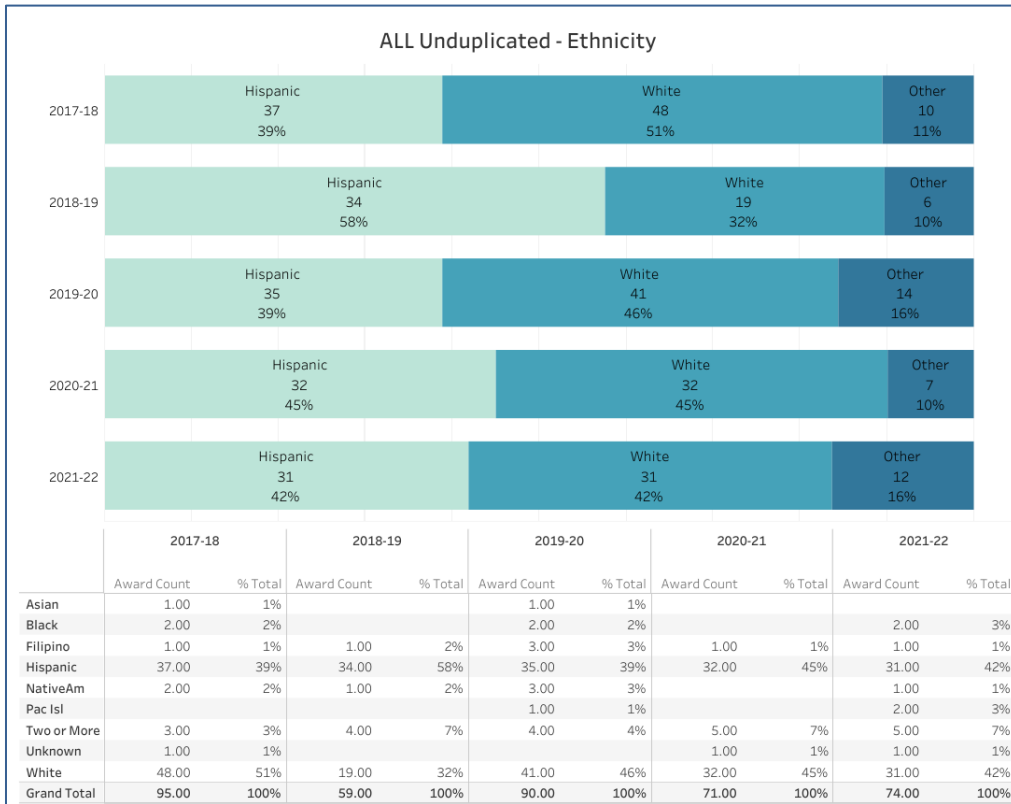


Figure 14: Ethnicity Degrees & Certificates for AHC's EMS Programs

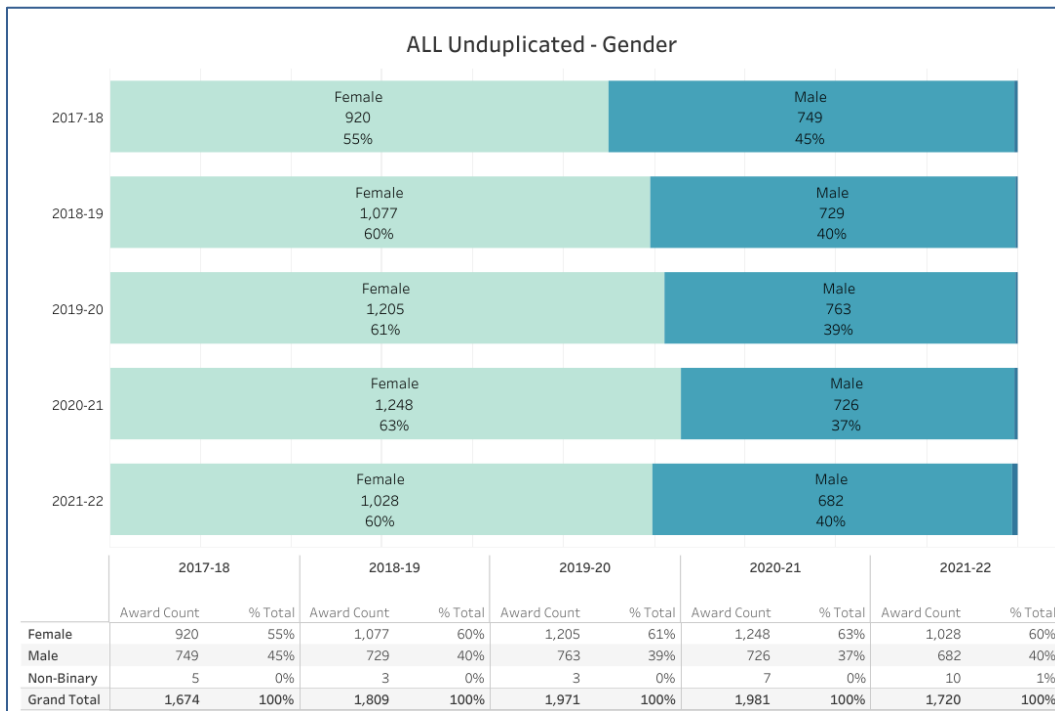


Figure 15: Gender Degrees & Certificates for all AHC Programs.

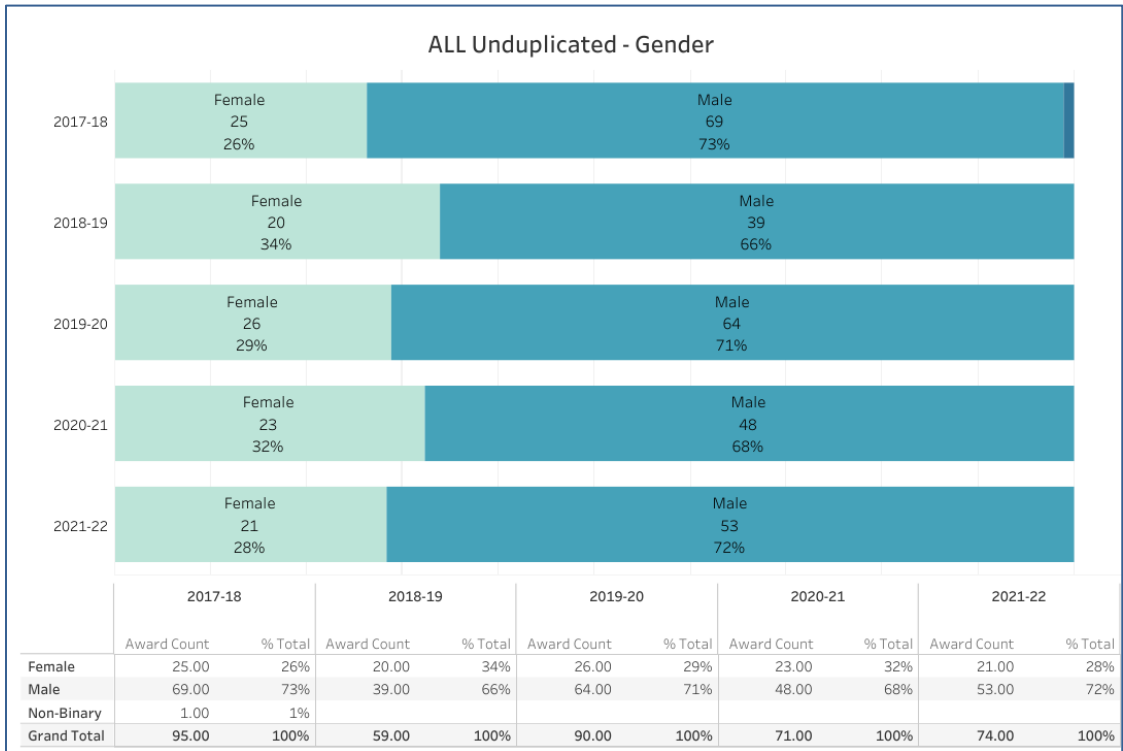


Figure 16: Gender Degrees & Certificates for AHC's EMS Program.

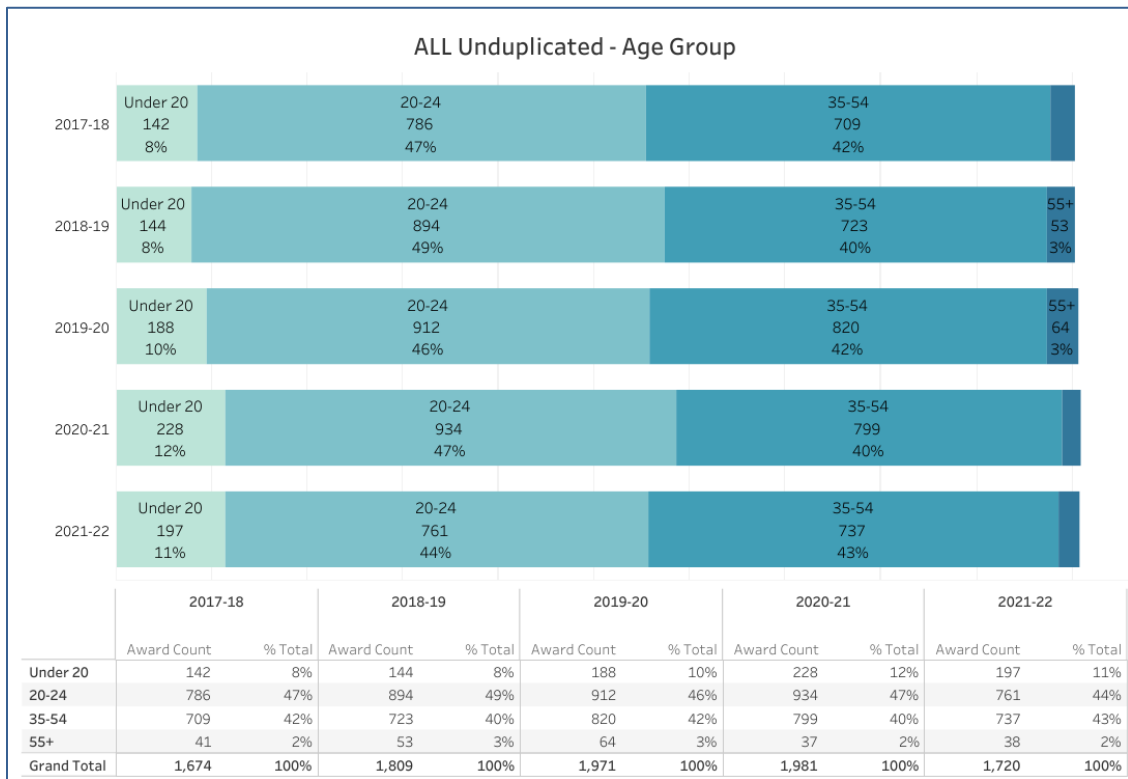


Figure 17: Age Group Degrees & Certificates for all AHC Programs.

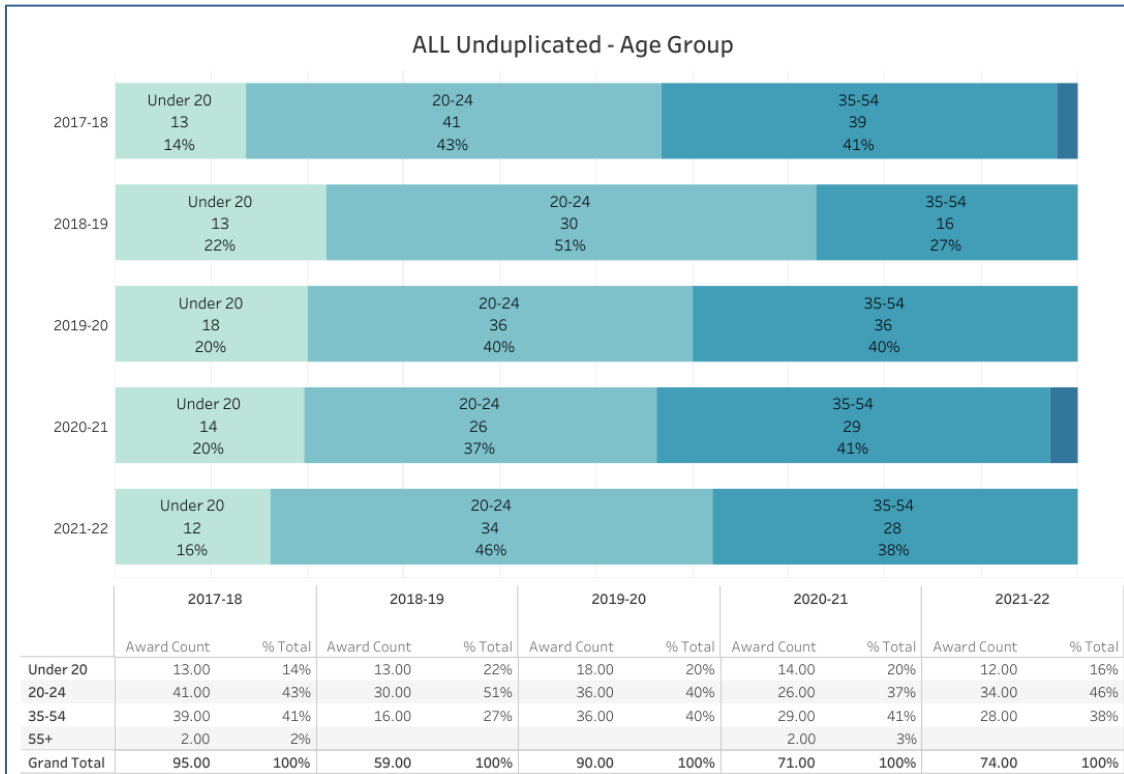


Figure 18: Age Group Degrees & Certificates for AHC's EMS Program.

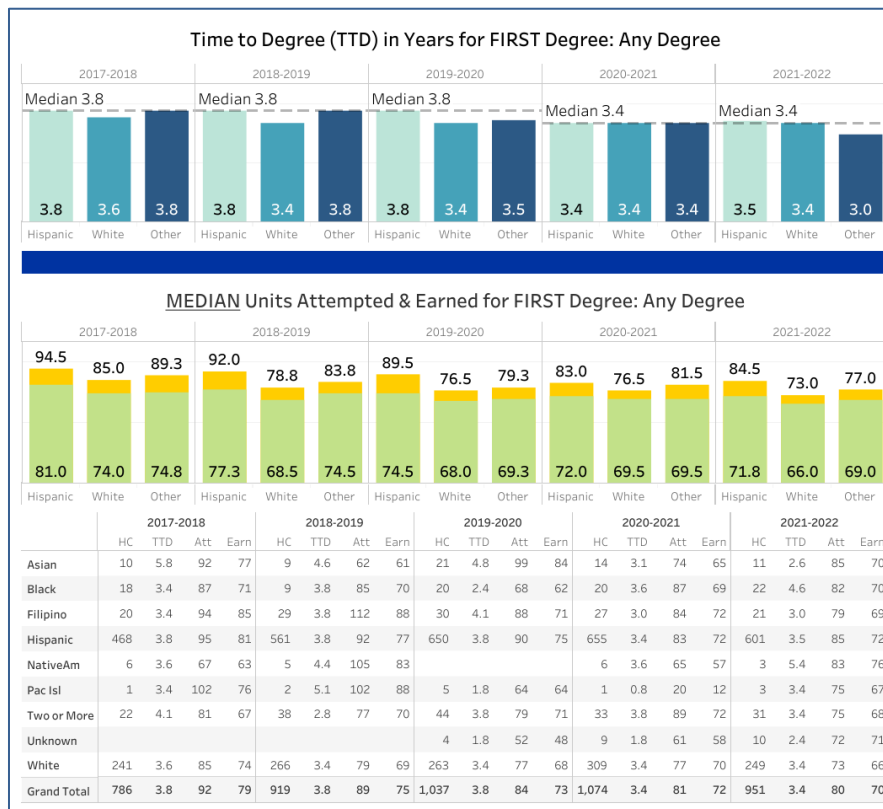


Figure 19: Ethnicity Time to Degree for all AHC Programs.

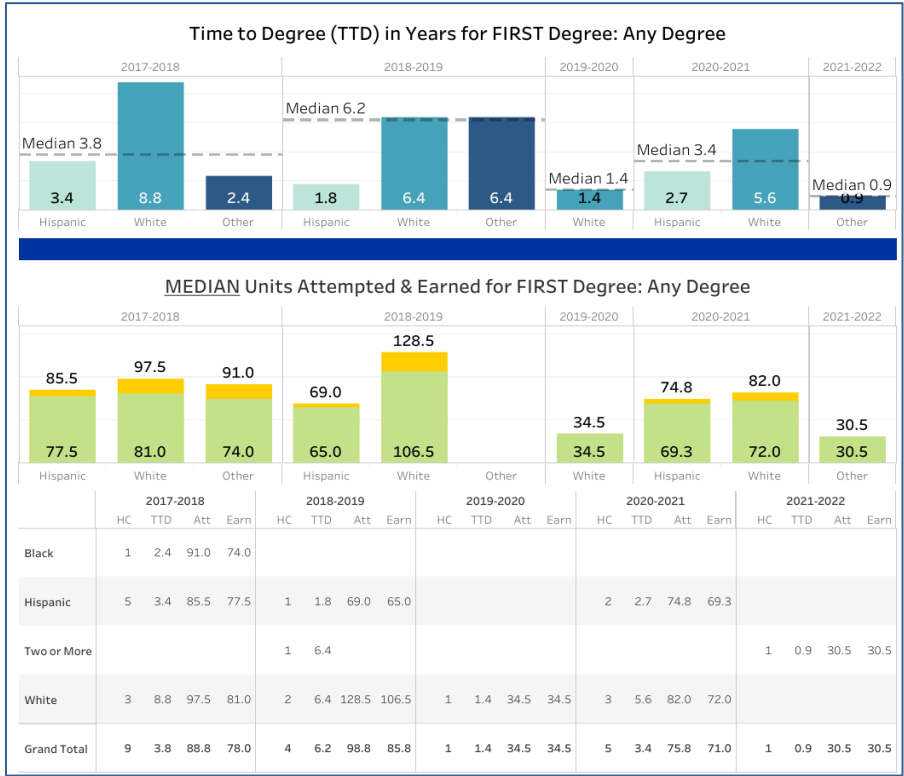


Figure 20: Ethnicity Time to Degree for AHC's EMS Program.

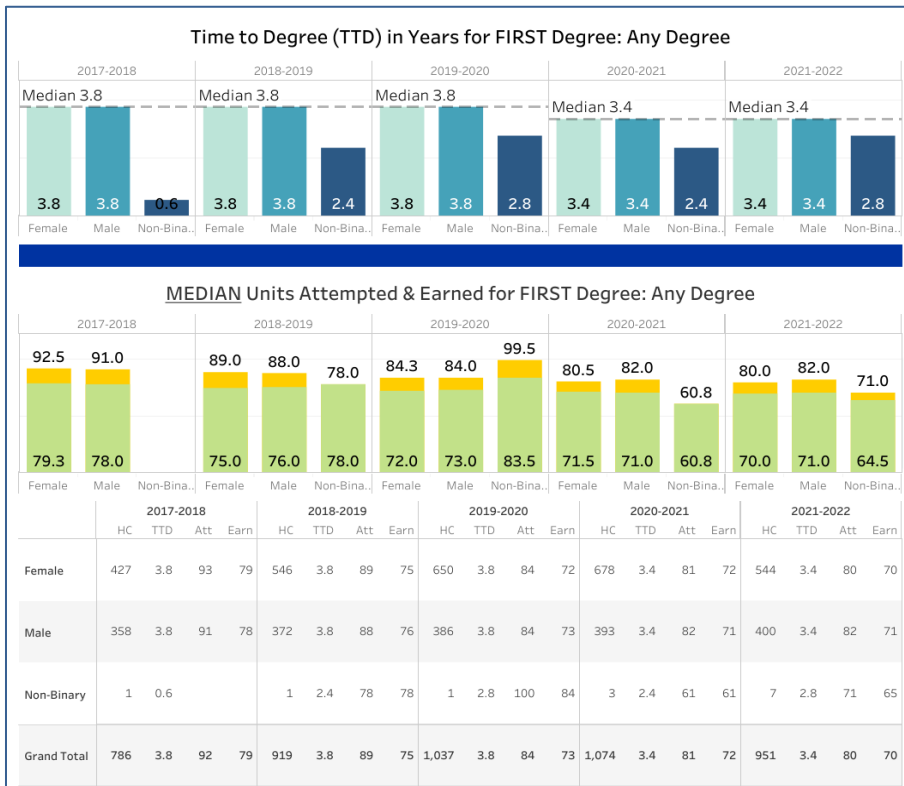


Figure 21: Gender Time to Degree for all AHC Programs.

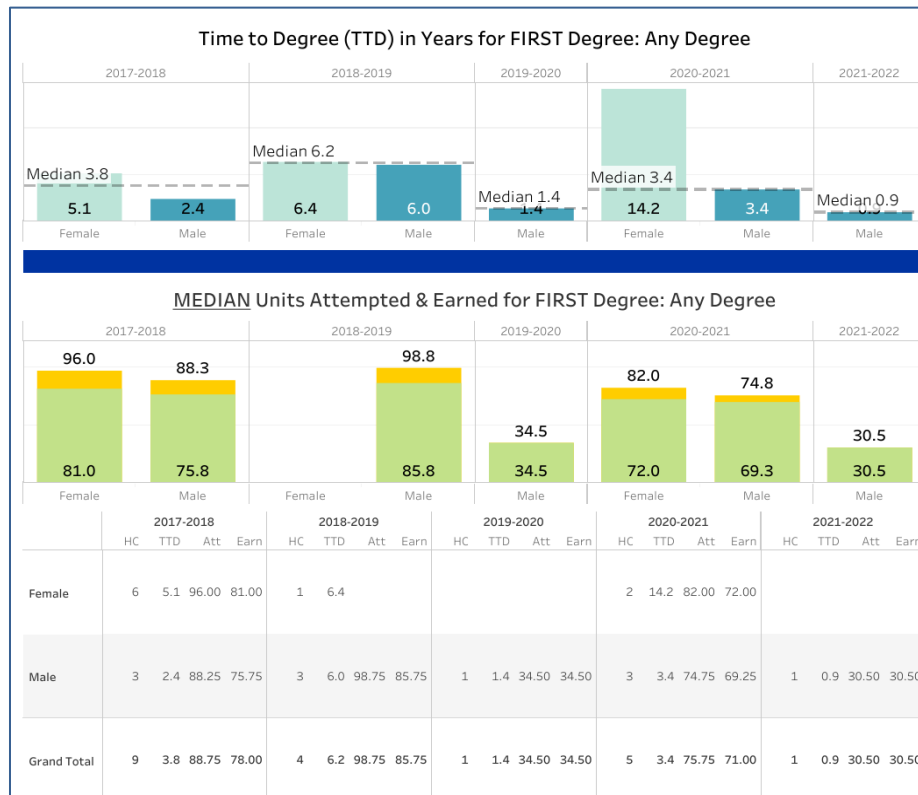


Figure 22: Gender Time to Degree for AHC's EMS Program.

2. Based on the data analysis and looking through a lens of equity, what do you perceive as challenges with student success or access in your area of focus?

By looking deeper into potential disparities and disadvantages within the population in our community as well as our school, it is imperative to reach equity or look through equity lens. Levels to evaluate can be gender, gender identity, ethnicity, accessibility, and age. As we investigate through this lens, we can build relationships and bridges to a common ground of equity. The result will find that power can then shift to allow equity and justice. In this report, I will focus on data we have collected and discuss the challenges appreciated in the EMS programs.

Many variables can affect data collected, and assumptions can be made on why and how conclusions were formed. The challenges in the EMS program had been representing the diversity of ethnicity, gender, gender identity, age, and socio economic (access). The past 6 years we increased our presence in the community (Santa Maria in the Streets, elementary, junior high, and high school visits) to share information on what our programs entails, the equipment we use, and of course, our diverse staff. We reach out to the AHC students with the "Bulldog" events, flyers, text messages and social media outreach.

The equity of ethnicity represents the community (50-70%) Hispanic being the largest group. Financial aid and other financial resources (scholarships, AB 540, emergency grants, etc.) have been a significant gateway for these students. We continue to seek access for the community members that are not aware of these courses and careers.

One of the current challenges in all of public safety is recruiting kids early. Many young adults are not aware how many career options lie in this field. Our EMS 102: First Aide and Safety (transferable course) is held 12 times a year, which includes Spring, Summer, and Fall is a perfect example. Many students attend this course with the intention that it is, 1) transferable and 2) they will receive practical and useful information. We have seen they initially had no intention of attending other EMS courses or even a career in this field. However, findings from a student survey found that many students were completely unaware of all these career choices in the EMS field. They found they enjoyed the course and 20% of applicants for the Basic EMT Academy came from this course.

From the data analyzed above, one challenge seems to be making sure our EMS students know the requirements to earn their A.S. degree in EMS. Our certificate of completion/achievement numbers are high, however, not many continue to finish the A.S. degree. This is becoming a two-fold problem. Many EMTs and Paramedics do not have a degree, meaning it is decreasing the size of qualified teaching staff. We need to encourage students to stay on track with their degree progress. Often, once hired and working in the field, they no longer pursue the degree due to the hectic work/life balance.

One of the newest challenges is the shift in the gender in our program. EMS 102 has close to a 50/50 male / female ratio. (Please, note gender identity has not been analyzed thoroughly— hopefully addressed in future questionnaires). We have seen a significant increase of males vs. females in EMS 301: EMT Basic Academy. The last two years, almost twice as many males than females were admitted into the academy. The last two semesters, there has been a much higher volume of males vs. female applications. Based on the data from the Lightcast Report of EMTs and Paramedics in Santa Barbara and San Luis Obispo Counties, males represent 68%, while only 32% are female.

The Fire Service has dealt with this gender discrepancy for decades. Our local Fire Service leaders are aware of this discrepancy; it's a matter of working together to recruit more females early. A large proportion of our accepted EMT Academy students are pursuing a career in fire. With such few females going into the fire service, that could be a factor in our low numbers in our EMT Basic Academy. The skills firefighters must possess have expanded immensely, especially in medical care. Since the majority of 911 calls are for medical emergencies, EMT-B certification has become mandatory for municipals departments, and many are moving towards paramedic certification to be the gold standard. We need to encourage, provide access, and support women in this field. This is no longer a career that only requires brute, physical strength. We need to include women in the narrative early. Women in the field are highly sought after and positions in our community want to hire a diverse crew that represents the constituents of our community; however, the number of qualified diverse applicants remains extremely low.

3. What are your plans for change or *innovation*?

First off, getting people engaged and excited about a career in public safety early is key. Since EMS and Fire are so closely connected, we need to have a strong working relationship (which we do in SBCo) and share a common goal: creating a diverse and inclusive workforce that reflects our constituents in all facets. Community outreach events to elementary schools all the way through to the college level, needs to continue, so young people learn about this rewarding field.

Discussions have been ongoing with the Fire Services training programs to support the stepping into each program to provide this gold standard. With the addition of the paramedic program starting this Fall, it is one such development from these discussions of collaborating and working together between agencies. Since EMT-P is the gold standard in the Fire Service now, it makes sense to offer all these programs at Allan Hancock at our state-of-the-art facility. The goal is to have our students return for all their public safety career needs. They can begin with our EMT-B program, move on to acquire their Firefighter I, and hopefully, return to attain their EMT-P certification. Having all these academies/certification opportunities in one place, makes the goal even more attainable. Not only on a financial level, but also on a more personal one. Students will create an attachment to the Public Safety Complex, their quality instructors, and the support of their fellow cadets.

To maintain our status as a top school choice for EMS, we need to continuously update and acquire new equipment and supplies. Medicine is dynamic and constantly changing. We need to stay current and make sure we are training our students appropriately. This requires the acquisition of expensive equipment for our manipulative skills training. Funding is always a challenge. However, if we turn out prepared cadets, they become assets to this community.

One of the goals for the EMS program is to build a High-Fidelity Lab. "High Fidelity Simulation" means using computerized manikins that are operated by trained personnel from another location to produce audible sounds and to alter, simulate and manage physiological changes within the manikin to include, but not be limited to, altering the heart rate, respirations, chest/lung sounds, blood pressure and saturation of oxygen. It can replace live encounters in the hospital clinicals and capstone field internship and ensure students meet their minimum patient contacts and criteria. The goal would be to create a sim lab that we could collaborate with and share with other local agencies and beyond.

4. How will you *measure* the results of your plans to determine if they are successful?

The changes are going to take some time to determine if we are trending towards success. We must modify the narrative by shattering the social constructs of gender roles and adjusting the firefighter/EMT prototype to instantly broaden who fits the criteria. When the shift happens, there is an emphasis on collective intelligence, the different strengths and perspective that each individual brings. The fire/ems service begins to reflect the demographics of their community enhancing the ability to serve by removing those cultural barriers and allowing them to connect on a deeper level with its constituents. This change will be achieved in two ways: 1) our leaders

(city officials, fire chiefs, college faculty) need to support the diversity efforts and trust it makes a stronger department and environment, and 2) young people of all genders and ethnicities need to know and believe this as a viable career – they need to see people like them representing EMS and Fire Departments. By ramping up our community outreach, we will hopefully see an increase in diversity. We will continue to send out surveys, monitor the results/trends, and let the numbers/data direct our next actions.

5. What practices are used in your program's DE courses that support or demonstrate regular and substantive interaction?

Our DE classes are engaging and interactive. Each instructor has their own style, but consists of discussion boards, posts, questions, among fellow classmates. Each student needs to respond to a prompt and reply to two other students with a thoughtful response. Instructors are also required to provide feedback on discussion responses or assignments throughout the course. The instructor should also post current events, articles, latest trends, things that are relevant to the course material to encourage and facilitate student interaction.

Validation for Program Planning Process – N/A

If you have chosen to do the Validation this year, please explain your process and the findings.

- 1. Who have you identified to validate your findings? (Could include Guided Pathway Success Teams, Advisory Committee Members, related faculty, industry partners or higher education partners)**
- 2. Are there specific recommendations regarding the core topic responses from the validation team?**

New Program Planning Initiative

Based on the narratives for the prompts above, what are some program planning initiatives and resources needed for the upcoming years? ***This section is only used if there are new planning initiatives and resources requested.***

New Program Planning Initiative	
Title:	EMS Programs: High Fidelity Simulation lab
Planning years:	3
Description:	
<p>“High Fidelity Simulation” means using computerized manikins that are operated by trained personnel from another location to produce audible sounds and to alter, simulate and manage physiological changes within the manikin to include, but not be limited to, altering the heart rate, respirations, chest/lung sounds, blood pressure and saturation of oxygen. A technique that creates a situation or environment to allow persons to experience a representation of a real event for the purpose of practice, learning, evaluation, testing, or to gain understanding of systems or human actions.</p> <p><i>An educational technique that replaces or amplifies real experiences with guided experiences that evoke or replicate substantial aspects of the real world in a fully interactive manner (Gaba, 2004).</i> See COAMESP (Committee on Accreditation for EMS Programs) and NREMT (National Registry of Emergency Medical Technicians, basic and paramedic)</p> <p>IT can replace live encounters in the hospital clinicals and capstone field internship. The approving body is CAAHEP (Commission on Accreditation of Allied Health Education Programs) a subset of CoAEMSP.</p>	
Resources:	
<p>Priority Level: High</p> <p>Resource Type: Equipment (CAE has provided AHC with quote for all items below)</p> <p>Quantity: 1</p> <p>Per Item Price: \$48,080.00 Price with taxes/shipping, etc: \$52,943.00</p> <p>Description: <u>Aria Advanced Pediatric High-Fidelity</u> Wireless and tetherless, CAE Aria simulates a 7-year-old child with interchangeable gender. Sixty vocal expressions and sounds, plus an advanced airway, neurological features and an optional bleeding system promote life-like training scenarios. https://www.caehealthcare.com/patient-simulation/cae-aria/</p>	
Resources:	
<p>Priority Level: High</p> <p>Resource Type: Equipment</p> <p>Quantity: 1</p> <p>Per Item Price: \$6850 Price with taxes/shipping, etc: \$6850.00</p> <p>Description: <u>On-Site, Two-Day Education Program for Aria</u> On-site, half day for Installation and orientation of Aria simulator and 1.5 days of education to include basic and advanced Maestro software, scenario development and clinical integration of the pediatric simulator into the clinical simulation environment. Provided by clinical educator. (Max 10 attendees) https://www.caehealthcare.com/services/industry-training-solutions/</p>	

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 1

Per Item Price: \$2,287.00

Price with taxes/shipping, etc: \$2,487.12

Description: All-in-one computer for patient monitor

All-in-one computer (21.5") for simulated patient monitor.

<https://www.caehealthcare.com/shop-menu/>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 1

Per Item Price: \$4,995.00

Price with taxes/shipping, etc: \$5,432.07

Description: Physiology Option for Maestro Aria

Physiology option for Aria – more advanced additions for Aria

<https://www.caehealthcare.com/shop-menu/>

Resources:

Priority Level: High

Resource Type: Equipment (CAE has provided AHC with quote for all items below)

Quantity: 1

Per Item Price: \$78,810.00

Price with taxes/shipping, etc.: \$86,567.18

Description: Lucina Patient Simulated High-Fidelity

CAE Lucina is the only wireless childbirth simulator with validated, integrated maternal-fetal physiology and interchangeable static cervixes to train on all the stages of delivery and the rare emergency scenario. Lucina brings an impressive blend of features to the market including a more realistic and controllable birthing process, better articulation for labor and delivery maneuvers, and predicted APGAR scores based on the integrated maternal-fetal physiology. With 10 pre-configured Simulated Clinical Experiences (SCEs), Lucina allows instructors to increase throughput and manage multiple demands effortlessly.

<https://www.caehealthcare.com/patient-simulation/lucina>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 1

Per Item Price: \$2,730.00

Price with taxes/shipping, etc: \$2,730.00

Description: Lucina Patient On-Site Installation

Installation & Orientation to manikin and Basic Maestro performed by CS Technician

<https://www.caehealthcare.com/patient-simulation/lucina>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 1

Per Item Price: \$6,850.00

Price with taxes/shipping, etc.: \$6,850.00

Description: Core On-Site Education Course for One Simulator

Core On-Site Education Course for One Simulator Orientation to manikin. Two-day training. (10 pp.max)

<https://www.caehealthcare.com/services/industry-training-solutions/>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 1

Per Item Price: \$212.00 **Price with taxes/shipping, etc.:** \$230.55

Description: Vaginal Model: Hemorrhoid and Episiotomy, Model, Medium

Vaginal Model with hemorrhoid for practicing episiotomy.

<https://www.caehealthcare.com/patient-simulation/lucina>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 1

Per Item Price: \$207.20 **Price with taxes/shipping, etc.:** \$225.75

Description: Peripheral Intravenous Catheterization Hand, Medium

Realistic hand with fluid supply for practicing peripheral IV catheterization on dorsal, basillic and cephalic veins. Includes 2 fluid refill bags and red blood powdered, medium skin tone.

<https://www.caehealthcare.com/patient-simulation/lucina>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 1

Per Item Price: \$175.99 **Price with taxes/shipping, etc.:** \$191.39

Description: Infant heel for blood sampling tests, medium

Infant heel for practicing blood sampling tests, medium skin tone

<https://www.caehealthcare.com/patient-simulation/lucina>

Resources:

Priority Level: High

Resource Type: Equipment

Quantity: 1

Per Item Price: \$526.40 **Price with taxes/shipping, etc.:** \$576.45

Description: Pitting Edema Sticky Pads, Medium

2 Sticky pads of simulated pitting edema for practice identifying grade 1+ and grade 2+ pitting edema, medium skin tone.

<https://www.caehealthcare.com/patient-simulation/lucina>

Resources:

Priority Level: Medium

Resource Type: Equipment

Quantity: 1

Per Item Price: \$129.00 **Price with taxes/shipping, etc.:** \$140.11

Description: Caesarean Incision, Medium

5-inch Caesarean incision for practicing wound care post C-section, medium skin tone

<https://www.caehealthcare.com/patient-simulation/lucina>

Program Review Signature Page:

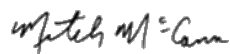

Suz Roehl (Jun 15, 2022 11:54 PDT)



Program Review Lead

06/14/2023

Date



Program Dean

Date



Vice President, Academic Affairs

Date

2022-2023 EMS Program Review Yearly Planning Update - Curriculum Teaching Design Topic S2023

Final Audit Report

2023-07-20

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