

## Unit Strategic Plan

2021 - 2023

**Name of Program/Department: Emergency Medical Services**

### **Mission Statement:**

The Jefferson State Community College Emergency Medical Services Program is committed to providing our students with the highest quality medical education possible including both academic instruction and meaningful clinical experience. We strive to produce professional Emergency Medical Technicians, Advanced Emergency Medical Technicians, and Paramedics dedicated to providing capable, compassionate care. We will always strive to protect the integrity of our institution, the honor of our profession, and the trust of the public.

**Summary of Access, Productivity and Effectiveness (Including, but not limited to, program load, success rate, retention rate, completion rate, employer surveys, student surveys):**

<b>Enrollment</b>				
	<b>Summer</b>	<b>Fall</b>	<b>Spring</b>	<b>Total</b>
<b>2018 – 2019</b>	17	28	22	67
<b>2019-2020</b>	55	69	83	207
<b>2020 - 2021</b>	60	69	83	212

<b>Award Sought Headcount</b>						
<b>Academic Year</b>	<b>Total Headcount</b>	<b>Female</b>	<b>Male</b>	<b>AAS</b>	<b>CER</b>	<b>NDS</b>
<b>2018-2019</b>	464	230	233	246	0	218
<b>2019-2020</b>	223	42	181	118	1	116
<b>2020-2021</b>	194	55	139	101	0	93

CIP Program	Fall 2018 – Summer 2019	Fall 2019 – Summer 2020	Fall 2020 – Summer 2021
	Certificate/Degree Total	Certificate/Degree Total	Certificate/Degree Total
51.0904 Emergency Medical Technician	31	24	22

### Annual Credit Trend / Credit Hour Production

Fall 2018, Spring 2019, & Summer 2019 **3331**

Fall 2019, Spring 2020, & Summer 2020 **2201**

Fall 2020, Spring 2021, & Summer 2021 **1912**

### Emergency Medical Technician (Basic EMT) National Registry Exam Results

YEAR	Report	Attempted Exam	First attempt pass	Cumulative pass within 3 attempts	Cumulative pass within 6 attempts	Failed all 6 attempts	Eligible for retest	Did not complete within 2 years
2018	JSCC	79	58%	75%	76%	0%	24%	0%
2019	National	76567	70%	79%	79%	0%	21%	0%
2019	JSCC	54%	61%	72%	72%	0%	28%	0%
2020	National	66333	66%	78%	79%	0%	21%	0%
2020	JSCC	52%	63%	75%	75%	0%	25%	0%
2021	National	65416	69%	77%	78%	0%	22%	0%

### Advanced EMT National Registry Exam Results

YEAR	Report	Attempted Exam	First attempt pass	Cumulative pass within 3 attempts	Cumulative pass within 6 attempts	Failed all 6 attempts	Eligible for retest	Did not complete within 2 years
2018	JSCC	21	52%	57%	57%	0%	43%	0%
2019	National	5092	64%	74%	74%	0%	26%	0%
2019	JSCC	46	57%	67%	67%	0%	33%	0%
2020	National	4637	58%	74%	76%	0%	24%	0%
2020	JSCC	18	78%	78%	78%	0%	22%	0%
2021	National	65416	69%	77%	78%	0%	22%	0%

## Paramedic National Registry Exam Results

YEAR	Report	Attempted Exam	First attempt pass	Cumulative pass within 3 attempts	Cumulative pass within 6 attempts	Failed all 6 attempts	Eligible for retest	Did not complete within 2 years
2018	JSCC	27	48%	89%	89%	0%	11%	0%
2019	National	11322	73%	84%	85%	0%	15%	0%
2019	JSCC	19	42%	68%	68%	0%	32%	0%
2020	National	9869	70%	85%	88%	1%	11%	0%
2020	JSCC	17	71%	76%	76%	0%	24%	0%
2021	National	9453	71%	82%	83%	0%	17%	0%

### Internal Conditions:

#### 1. Technology

All classes in the EMT program utilize a learning management system (Blackboard) for delivery of some portion of the course content and for assessment of student's learning. All classes utilize the Jones and Bartlett Navigate Learning System as well as the FISDAP learning system. There are computers in each classroom and a power point projector in each of the classrooms. The EMS program shares a high-fidelity birthing patient simulation laboratory with the nursing program on both the Jefferson and Shelby campuses and has high fidelity patient manikins in the EMS labs on the Jefferson and Shelby campuses. A high-fidelity trauma simulation manikin was added to both of the EMS labs. Simulation training of this type is highly recommended by CoAEMSP. 10 iPads are located in each of the EMS labs to provide students with the ability to document completed skills and scenarios into the FISDAP skills tracking program. The Jefferson Classroom (GLB 238) was upgraded in Spring 2019, by adding two dry erase boards, pull-down window shades, and video projector with screen. The Jefferson Lab (GLB 241) was given pull-down window shades and one dry erase board. Spring 2021 two Lucas Devices were obtained, one (1) for each campus's laboratory. Four high-fidelity manikins were obtained, two for each campus laboratory.

#### 2. Budget

Forethought should be given to the cost of continued development and maintenance of the high-fidelity simulation laboratories. Training aids for the low fidelity skills laboratories are currently showing some age and wear, consideration for maintenance, upgrade and replacement should continue as needed on a rotational basis. Preventive maintenance costs also need to be added for fuel, maintenance, and repairs of the Mobile Ambulance Simulator, monitor defibrillators, Stryker

stretchers (cots), and hydrostatic testing of compressed air and oxygen bottles. Additional training and simulation equipment is necessary to train our students and to stay competitive. One of the three full time faculty members in the EMS program resigned in June of 2019. This Faculty member has been replaced. The EMS Program Director resigned in June 2021. This faculty member was replaced in Summer 2021.

### **3. Staffing**

The EMS program employs a full-time Director, Clinical Coordinator, and two (2) additional full-time Instructors. The program currently has all full-time positions filled. Both the Director and Clinical Coordinator are required as full-time positions to maintain CoAEMSP accreditation. Full-time instructors are also required to assist with maintaining accreditation. Part time Instructors are relied upon heavily allowing us to adjust staffing to meet the need based on enrollment and offerings at multiple campuses and dual enrollment programs. The program has access to one full-time office manager based at the Shelby Campus. The office manager at the Jefferson campus relocated to another position, an office manager was hired to replace the vacancy. She worked approximately 6 weeks and resigned. The Jefferson campus is in search for another office manager. The office managers are available to assist the program as needed. These office managers support this program as well as other programs housed in the Center for Professional, Career and Technical Education.

### **4. Resources**

Adequate Medical Direction for the EMS program is required by CoAEMSP. At present, the program contracts for Medical Direction through the UAB Department of Emergency Medicine, where many of our students' clinical rotations are performed. The program should continue to contract our medical direction in this manner. UAB fellows and interns are active with in the ems classrooms and laboratories offering additional learning opportunities for our students. The EMS advisory Committee, Medical Direction, Clinical sites, and the JSCC administration was noted as program strengths by the CoAEMSP site evaluation team during their accreditation visit. The program needs to focus some resources on assessment development to include item writing, validation, and a supplemental outside testing source. Job demand for EMT's and Paramedics is currently high and job growth is expected to expand rapidly. The EMT program should continue to focus on recruitment and maintain a good working relationship with our clinical and field rotation sites, as they are an essential part of the EMS training program.

## 5. Enrollment

Enrollment in the various levels of the EMS program has been consistent, even though the program has faced challenges, especially during the Covid shut down. In the immediate area, a for profit institution draws students, of all levels, away from our program. Within a 60-mile, less than a one-hour drive, there are four other state institutions conducting EMS programs. Dual enrollment courses conducted at local High Schools, remain a component of our total enrollment. For the 2021-2022 academic year, it is expected that we will have programs in four (4) high schools with an estimated 70 students. Additional dual enrollment students have been integrated into EMT classes at both campuses. Additional dual enrollment high school sites are being evaluated for the 2021-2022 academic year.

## 6. Facilities

Some renovations to the existing lab at the Shelby campus is needed to make them more user friendly and conducive to learning. The removal of the chemical fume hood and some of the lab tables at the Shelby EMS lab (GSB 302) would help with storage space and floor space.

## 7. Equipment

Equipment should be replaced on a rotational basis. Additional simulation equipment is needed to compete with simulation labs currently being developed at local high schools. Two Classroom Ambulance Simulators one on each campus would give the EMS students a real-world learning experience.

## **External Conditions (such as state funding, accrediting agencies, advisory committees, postsecondary policy changes):**

The EMT program is currently accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) through the Committee on Accreditation of Emergency Medical Services Programs (CoAEMSP). CAAHEP standards state:

### III. B. 2 Medical Director

a. Responsibilities: The medical director must be responsible for all medical aspects of the program, including but not limited to:

1. Review and approval of the educational content of the program curriculum to certify its ongoing appropriateness and medical accuracy.
2. Review and approval of the quality of medical instruction, supervision, and evaluation of the students in all areas of the program.

3. Review and approval of the progress of each student throughout the program and assist in the development of appropriate corrective measures when a student does not show adequate progress.
4. Assurance of the competence of each graduate of the program in the cognitive, psychomotor, and affective domains.
5. Responsibility for cooperative involvement with the program director.
6. Adequate controls to assure the quality of the delegated responsibilities.

*For most programs, the medical director should commit a significant amount of time to the program; for which appropriate compensation is often necessary.*

The EMS program currently contracts with the University of Alabama Health Services Foundation on Behalf of Emergency Medicine (Dr. William Ferguson). In Fall 2021 the UAB Contract has been updated to meet UAB's request. The updated contract reflects monthly services rendered at a rate of \$4000.00 per month for a minimum 16 hours per month of direct physician support averaged out annually. Dr. Ferguson regularly exceeds his contractual obligations to the EMS program. Dr. Ferguson will add the use of his fellows and internists to assist the EMS students learning in the classroom and laboratory.

According to the United States Department of Labor Bureau of Labor Statistics, Employment of emergency medical technicians (EMTs) and paramedics is expected to grow 6 percent from 2019 to 2029, much faster than the average for all occupations.

### **2018-2019 Accomplishments:**

- Continued Dual Enrollment Program at Trussville High School (established Fall 2015) with 20 Students
- Established a high school dual enrollment program at the Hoover high school with 16 students.
- Established a Multi-high school dual enrollment program (Fultondale HS and Shades Valley HS) at the Carson Campus, George Layton Building with 10 Students.
- Establish a dual enrollment program at Fairfield High School with 8 students.
- Establish a dual enrollment program at Gardendale High School with 9 students
- Establish a multi-high school dual enrollment program at the Jefferson State Campus in Pell City with 12 students
- Establish a multi-high school dual enrollment program at the Jefferson State Campus in Clanton with 8 students
- Established dual enrollment program at Mcadory HS with 16 Students in January 2019

- Took Delivery of two (2) Trauma simulators, one each for Jefferson and Shelby Campuses in November 2018.
- Upgrade Jefferson Campus classroom and Lab on 2<sup>nd</sup> floor of George Layton Building with LCD projector, screen, white marker board and window blinds for GSB 238.
- Submitted to site visit by CoAEMSP team in April 2019.
- Purchased six (6) Motorola UHF portable radios for training and campus support.

**2019-2020 Accomplishments:**

- Continued Dual Enrollment Program at Trussville High School.
- Dual Enrollment Program at RC-3 established
- Four high-fidelity manikins were obtained, two for each campus laboratory.
- Two Lucas Devices was obtained. One for the Shelby campus and one for the Jefferson campus.

**2020-2021 Accomplishments:**

- Maintained Accreditation status with CoAEMSP and CAAHEP
- Continued Dual Enrollment Program at Trussville High School.
- Continued Dual Enrollment Program at RC3.
- Working with Eden Highschool to develop their Dual Enrollment program.
- Effective student recruiting efforts.

**2020-2021 Budget Priorities**

1. Laerdal simulation manikins and support systems
2. Sonography manikin and support systems
3. LUCAS Trainer
4. Auto vent 3000

**Unit Goals 2021 - 2022:**

Unit Goals	Objectives	Method of Assessment	Additional Funding Request
<b>Goal 1:</b> Attract, recruit, and retain quality full-time and part-time faculty to meet the needs of the program.	<ol style="list-style-type: none"> <li>1. Hire credentialed, and experienced qualified part-time faculty as needed.</li> <li>2. Retain current Medical Director</li> </ol>	<ol style="list-style-type: none"> <li>1. 100% of part-time and full-time instructors will meet the minimum qualifications as stated in the CAAHEP standards.</li> </ol>	<ol style="list-style-type: none"> <li>1. Contract Medical Director at a rate of \$4000.00 per month for a minimum of 16 hours per month. Agreement shall not exceed \$48,000.00 prior to contract renewal</li> <li>2. CAAHEP/CoAEMSP Fees</li> <li>3. Professional Development for Faculty</li> </ol>

<p><b>Program Outcome</b> Employers and graduates will report 80% satisfaction with educational preparation.</p>	<p>3. Replace Full time faculty as needed.</p>	<p>2. Execute a renewed contract with current Medical Director.</p>	<p>4. NAESMP Membership for Faculty 5. Laerdal Mega Code Kid Advanced 6. Hire part-time/L19 as needed at college current rate of pay 7. Funding for 2 Classroom Ambulance Simulators 8. SonoSim/Ultrasound Training System 9. Autovent 3000 Automatic ventilator</p>												
<p><b>Goal 2:</b> Maintain Program accreditations</p> <p><b>Program Outcome</b> Employers and graduates will report 80% satisfaction with educational preparation.</p>	<p>1. Continue paying CoAEMSP and CAAHEP annual fees 2. Provide appropriate personnel 3. Provide the EMS full-time EMS faculty the opportunity to obtain professional development to remain current on clinical and educational trends.</p>	<p>1. Assure fees are paid 2. Recruit and retain qualified instructors. 3. Provide funding and leave to attend professional development training.</p>	<p>1. CoAEMSP and CAAHEP fees totaling \$1,650.00 2. Part-Time/L-19 At College current rate of pay (as needed) 3. Fund each instructor at least one training session annually. Such as the National Association of EMS Educators, NREMT Update seminars, etc. Approximate total of \$8000.00. \$500.00 in IAP funds available.</p>												
<p><b>Goal 3:</b> Faculty and students have access to technology and resources sufficient to achieve course and program outcomes.</p>	<p>1. Replace/upgrade and repair worn lab equipment 2. Replace necessary Supplies 3. Contract warranty with manikin manufacturer</p>	<p>1. Replace / repair equipment used in psychomotor skills instruction 2. Replace expendable lab supplies used for</p>	<p>1. Replace worn lab equipment at \$15,000 2. Purchase supplies at \$15,000 3. Warranty for:</p> <table border="1" data-bbox="919 1671 1419 1883"> <thead> <tr> <th>Qty</th> <th>Item</th> <th>Unit Cost</th> <th>Total Cost</th> </tr> </thead> <tbody> <tr> <td>8</td> <td>Laredal Manikins</td> <td>\$930</td> <td>\$7,444</td> </tr> <tr> <td></td> <td>Total Est. cost</td> <td></td> <td>\$11,184</td> </tr> </tbody> </table>	Qty	Item	Unit Cost	Total Cost	8	Laredal Manikins	\$930	\$7,444		Total Est. cost		\$11,184
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<p><b>Program Outcomes:</b> Students admitted into each level of the Emergency Medical Services program will complete their training level at a rate of 75%</p> <p><b>Program Student Learning Outcome #2:</b> Display technical proficiency in all of the skills necessary to fulfill the role of an entry- level Emergency Medical Technician, Advanced Emergency Medical Technician, or Paramedic.</p>	<p>4. Purchase additional high-fidelity manikins for medical cardiac applications scenarios (Mega-Code Kelly).</p> <p>5. Replace and update hardware and software of EMS staff to provide quality instruction and administrative duties as needed.</p> <p>6. Provide printed materials to students and for program operation.</p> <p>7. Provide repair, preventive maintenance, and support for program equipment Such as ambulance simulator, stretchers, and other equipment.</p> <p>8. Continue contract for supplemental testing services with EMStesting.com (FISDAP)</p>	<p>psychomotor skills instruction</p> <p>3.Contract warranty with manikin manufacturer</p> <p>4. Purchase high fidelity mannequin and upgraded support equipment for enhanced simulation training required by NREMT and accreditation.</p> <p>5. Program Printing cost.</p> <p>6. Contract for preventative maintenance and repair of program equipment as necessary.</p> <p>7. Institution contract for supplemental testing with EMStesting.com (FISDAP)</p>	<p>4. Purchase additional equipment listed below</p> <table border="1" data-bbox="919 621 1408 1312"> <thead> <tr> <th>Qty</th> <th>Item</th> <th>Unit cost</th> <th>Total cost</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>MegaCode Kelly, SimPad Capable Manikin</td> <td>\$20,000</td> <td>\$40,000</td> </tr> <tr> <td>2</td> <td>SimPad PLUS Systems</td> <td>\$1,300</td> <td>\$2,600</td> </tr> <tr> <td>2</td> <td>LLEAP Software</td> <td>\$2,120</td> <td>\$4,240</td> </tr> <tr> <td>2</td> <td>SimPad System Protection Plan (2 Yr)</td> <td>\$770</td> <td>\$1540</td> </tr> <tr> <td>2</td> <td>Preventative Maintenance Warranty (1Yr)</td> <td>\$840</td> <td>\$1,680</td> </tr> <tr> <td>1</td> <td>SonoSim System</td> <td>\$17,950</td> <td>\$17,950</td> </tr> <tr> <td>2</td> <td>In class Ambulance Simulator</td> <td>\$35,500</td> <td>\$64,850</td> </tr> <tr> <td>2</td> <td>Autovent 3000 Automatic ventilator</td> <td>\$4000</td> <td>\$8000</td> </tr> <tr> <td></td> <td>Total Est. Cost</td> <td></td> <td>\$140,860</td> </tr> </tbody> </table> <p>5. Program printing budget \$2000</p> <p>6. Preventive maintenance and repair cost of other program equipment \$3000</p> <p>7. EMS testing.com supplemental testing institution contract \$500</p>	Qty	Item	Unit cost	Total cost	2	MegaCode Kelly, SimPad Capable Manikin	\$20,000	\$40,000	2	SimPad PLUS Systems	\$1,300	\$2,600	2	LLEAP Software	\$2,120	\$4,240	2	SimPad System Protection Plan (2 Yr)	\$770	\$1540	2	Preventative Maintenance Warranty (1Yr)	\$840	\$1,680	1	SonoSim System	\$17,950	\$17,950	2	In class Ambulance Simulator	\$35,500	\$64,850	2	Autovent 3000 Automatic ventilator	\$4000	\$8000		Total Est. Cost		\$140,860
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<b>2020-2022 Budget Priorities</b>
<b>1. CAAHEP/CoAEMSP Fees</b>
<b>2. Medical Director Contract</b>
<b>3. Professional Development for Faculty</b>

<b>4. NAEMSE Membership for Faculty</b>
<b>5. Sonography manikin and support systems</b>
<b>6. Classroom Ambulance Simulators</b>
<b>7. Auto Vent 3000</b>
<b>8. Laerdal Mega Code Kid Advanced</b>
<b>9. Laerdal Adult simulation manikins and support systems</b>

**Unit Goals 2022 - 2023:**

<b>Unit Goals</b>	<b>Objectives</b>	<b>Method of Assessment</b>	<b>Additional Funding Request</b>
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			Total Est. Cost			\$140,860
			8. Program printing budget \$2000			
			9. Preventive maintenance and repair cost of other program equipment \$3000			
			10. EMS testing.com supplemental testing institution contract \$500			

<b>2020-2023 Budget Priorities</b>
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