



Emergency Medical Technician Instructional Program Review 2009-2010

Spring 2010

Prepared by

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Dr. Cliff Hadsell	Faculty
Dr. David Kary	Curriculum Representative
Mr. John Vaughan	Academic Senate Representative
Mrs. Barbara Rugeley	Library Representative
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Ms. Michelle Plug	Articulation Officer
Mr. James Woolum	Program Review Coordinator



PROGRAM REVIEW – Emergency Medical Technician

The final summary of the program review process for Emergency Medical Technician is attached to this page.

I affirm that this program has been reviewed according to the accepted District procedures for program review and that the final summary accurately reflects the consensus of the members of the review committee.

James McClain, Dean of Mathematics and Health Sciences

date

Michelle Plug, Articulation Officer

date

David Kary, Chair of Curriculum Committee

date

Irene Malmgren, Vice President of Academic Affairs

date

Jack Call, Academic Senate President

date

Geraldine M. Perri, Superintendent/President

date

It will be the department's responsibility to communicate review recommendations with additional offices and services.

Table of Contents

	page #
1. Executive Summary	5
2. Faculty (<i>full and part-time</i>)	5
3. List of Program Courses	6
4. List of Degrees	6
5. List of Certificates and Awards	6
6. List of Industry-Based Standard Certificates & Licenses	6
7. Advisory Committee List	7
8. Program Student Learning Outcomes	7
9. Program Description / Mission	9
10. Program Goals and Objectives	10
11. Curriculum Review and Learning Outcomes Assessment	10
12. Degree/Certificate Review	10
13. Evaluation Criteria - Mission	11
Commendations	
Previous Recommendations Completed	
Recommendations	
14. Evaluation Criteria - Need	12
Commendations	
Previous Recommendations Completed	
Recommendations	

15.	Evaluation Criteria - Quality	13
	Commendations	
	Previous Recommendations Completed	
	Recommendations	
16.	Evaluation Criteria - Feasibility	14
	Commendations	
	Previous Recommendations Completed	
	Recommendations	
17.	Evaluation Criteria - Compliance	15
	Commendations	
	Previous Recommendations Completed	
	Recommendations	
18.	Evaluation Criteria - Other	
19.	Attachment A – Curriculum Course Outlines of Record	
20.	Attachment B – Catalog Pages & Sample Syllabi	
21.	Attachment C – Library Resources Report	
22.	Attachment D – Articulation Status	
23.	Attachment E – Academic Senate Checklist	
24.	Attachment F – Curriculum Checklist	

1. Executive Summary

The Emergency Medical Technician (EMT) Program Review found the program is meeting and exceeding its mission in providing high quality education to students pursuing a career in emergency medical services (EMS). The program has realized a dramatic increase in FTES since hiring a full-time faculty member (29 to 86), generating over \$330,000 in revenue, with many students turned away due to lack of available seats.

The program is well respected throughout the EMS and public safety industry. Our advisory committee comprises the "who's who" of Los Angeles public safety, including many local area fire chiefs, law enforcement officials and private provider leaders.

Graduates of the program are highly sought after. Ninety-five percent of students report finding gainful employment within 90 days of graduation. The other five percent of students are either already employed, have a DUI, or are using the course to meet requirements for a prerequisite to higher field (i.e. physicians assistant, paramedic, etc.). Additionally, Citrus was notified in early 2009 that our EMT program would be one of three primary hiring sites for the largest provider of 911 ambulance transport agencies in Los Angeles County. Currently there are more vacancies than qualified applicants for EMT positions within Los Angeles County.

The program is proud of being selected as the EMT training center for the Los Angeles Federal Bureau of Investigation (FBI) and many federal, state and local law enforcement agencies. Since 2006 Citrus has trained over 100 law enforcement officials in emergency medicine and hundreds of private 911 and inter-facility transfer (IFT) field providers. In total the number exceeds 800 who have successfully completed a Citrus College program in EMS, while well over 1000 have enrolled or attended a program.

The program review revealed a need to continue to expand the program and offer higher level certificates/diplomas in the area of EMS. Our industry advisory members recommended establishment of a paramedic program, and the FBI suggested Citrus College become California Peace Officer Standard and Training (POST), accredited to provide module A and B of tactical medic training. A VTEA grant was written to fund and complete a feasibility study for a paramedic program. The grant was funded, and a consultant has been hired to address this recommendation.

The faculty in this program are proud to maintain the success and high standards of this long standing, established program of over 35 years.

2. Faculty

Full-Time Faculty

Cliff Hadsell PhD, Paramedic

Adjunct Faculty

Todd Baldrige B.S., Paramedic

Mark Furgeson, R.N., M.I.C.N

Stuart McWilliams, B.S. EMT

Tracy Rickman M.P.A., EMT

3. List of Program Courses

Subject & Course No.	Title	Units
HEAL 161	Emergency Medical Technician	7
HEAL 100	Emergency Medical Services Preparatory	3

Classes not offered in the last two years:

Subject & Course No.	Title	Units
	NONE	

4. List of Degrees

None

5. List of Certificates and Awards

Course Completion Skill Awards

-Emergency Medical Technician – HEAL161 (390 skill awards)

6. List of Industry-Based Standard Certificates and Licenses

- Los Angeles County Department of Health Services EMT License/Certification
- American Heart Association CPR Health Care Provider Course (808 certification cards awarded)
- California State Hazardous Materials Certificates (754 certification cards awarded).
- Emergency Medical Services Preparation – HEAL 100 (418 awards)

7. Advisory Committee or Council

Chuck Flack	Los Angeles County FD
Joesph Talley	Schaeffer Ambulance, former student
Chief Scott Haberle	Monrovia FD
Chief Kurt Norwood	Arcadia FD
Chief Jim Anderson	San Marino FD
Chief Ray Mozack	Alhambra FD
Chief Alex Rodriguez	Santa Fe Springs FD
Chief Richard Beckman	San Gabriel Fire Department
Chief Mike Clark	South Pasadena Fire Department
Ms. Lucy Adams	Chief Pre-Hospital Care programs, LA County EMS Agency
Mr. Greg Anderson	Paramedic Coordinator, American Ambulance Response (AMR) Southern California Division
Mr. Mike Mumford, MPA, EMT	Chief of Ambulance Operations, Los Angeles County.
Dr. Jennifer Fernandez	Rio-Hondo College, public safety counseling
Chief Sam Disiavano	(ret) Monrovia Fire Department
Matthew Perez	Field Manager, Medic I Ambulance
Greg Guthrie	Field Manager, Schaeffer Ambulance
Tracy Rickman	Fire Technology Director Rio-Hondo College, Citrus College
Karin Reynoso	Health Care Consultant, LA County Office of Education
Robert Baldrige	Federal Bureau of Investigation (FBI), Citrus College
Ginger Fallen	Consultant, LA County office of Education
Mr. Josh Magedeno	Skills Instructor, UCLA paramedic student
Fire Chief Chris Donovan	Monrovia Fire Department
Paramedic Dwayne Carlton	San Marino Fire Dpartment
Mrs. Erika Riech	LA County EMS Agency, EMT Program Appoval
Mr. Chad Druten, EMT	Governmental Affairs Officer, Emergency Ambulance
Dr. John Pi, M.D.	Federal Bureau of Investigation
Chief James Bernell	Monterey Park Fire Department
Josh Magdelano	Paramedic Student, UCLA, Skills Instructor, Citrus College

8. Program Student Learning Outcomes

The Emergency Medical Technician Program has adopted the Institutional General Education Competencies of Citrus College (as approved by Steering December 8, 2008). General education competencies serve as a common set of core curricular components identified and defined by faculty. Student learning outcomes are behaviors based on these competencies.

Students completing courses in the Emergency Medical Technician Program will have acquired the following comptencies:

1) Communication (personal expression and information acquisition)

- a) Use correct medical terminology and nomenclature in the correct context in order to effectively communicate health/medical information and concepts to others.
- b) Demonstrate an understanding of the ethical responsibilities of EMS and other healthcare providers.

2) Computation

- a) Calculate various I.V. drip rates for patients undergoing I.V. therapy.

3) Creative, Critical, and Analytical Thinking, and Information Competency

- a) Develop problem solving and self assessment skills and make appropriate decisions regarding a variety of procedural situations
- b) Identify the signs and symptoms of common medical emergencies related to various body systems.

4) Community/Global Consciousness and Responsibility

- a) Demonstrate the ability to interact with patients and work effectively as a member of the emergency medical services team.
- b) Discuss various EMS systems both local/state and international.

5) Technology

- a) Develop the ability to use and adapt to current technology used in emergency medical services practices.
- b) Demonstrate understanding of administering patient prescribed drugs to patients.

6) Discipline / (Subject Area Specific Content Material)

- a) Demonstrate proficiency in the current duties of an EMT, practicing within scope of practice.

Matrix of Mapping Course-level SLOs with Program-level SLOs

	Communication	Computation	Critical Analytical Thinking	Global Consciousness	Technology	Subject Area Content	
						EMT #6A Scope of Practice	EMT #6B EMS Environment
EMS Program-level SLOs	EMT #1 Principles of EMS and legal aspects	EMT #2 N/A	EMT#3 Surface Anatomy Systems	EMT#4 EMS systems	EMT #5 Administer prescribed drugs		
HEAL 100: SLO #1A	X						X
SLO #2A		X					
SLO #2B							
SLO #3A			X				
SLO #3B							
SLO #4		X			X		
HEAL 161: SLO #1A	X					X	
SLO #1B		X					
SLO #2							
SLO #3				X			

Core Competency #1 - Communication (personal expression and information acquisition)

1. Express an understanding of the principles of emergency medical service legal and regulations for the purpose of preparing the student to deliver safe care to the sick and injured and avoid legal and ethical breaches.
2. Analyze and identify airway problems in infants, children and adults.
3. Describe the locations and gross functions of all body systems

Core Competency #3 –Creative, Critical and Analytical Thinking

1. Analyze and identify surface anatomy for the purpose of locating specific landmarks on the human body.
2. Identify the signs and symptoms of common medical emergencies related to various body systems.

Core Competency #4 – Community/Global Consciousness and Responsibility

1. Discuss various EMS systems both local, state, and international.

Core Competency #5 – Technology

1. Demonstrate understanding of administering patient prescribed drugs to patients.

9. Program Description / Mission

The Emergency Medical Technician program is designed to provide the educational setting and opportunities that will develop the social and technical skills required of a successful EMT in the clinical and field provider setting. There are two courses totaling 10 units in the program, leading to a skill award. Students must maintain an 80% class overall average, pass the final exam with an 80% on the first attempt, successfully complete 60 hours of clinical rotation and ambulance ride-along preceptorships, and successfully demonstrate competency in 40 skills areas. Students successful in meeting these requirements are authorized and admitted to take the National Registry EMT (NREMT) examination and be certified by the Los Angeles County Department of Health Services. An introductory course is offered (Heal 100) for students wishing to explore the career.

Courses are offered in a sixteen week semester format, providing flexibility to the student in their education. The program offers both day and evening courses. The course work totals approximately 220 hours and leads directly to a career in emergency medicine upon successful completion.

The program is accredited by both the Los Angeles County Department of Health Services and the National Registry of EMTs. All students take their EMT State Board examination (NREMT) upon program completion, with an average pass rate of 84% (state wide average is 68%) and psychomotor examination with a pass rate of 100%.

The program is also proud of being selected as the EMT/Law enforcement medicine training center for the Los Angeles Federal Bureau of Investigation (FBI) as well as many other federal, state, and local law enforcement agencies. Since 2006 Citrus has trained over 100 law enforcement officials in law enforcement emergency medicine.

The faculty in this program are proud to maintain the success and standards of this long standing, established program of over 35 years.

10. Program Goals and Objectives

The goals and objectives of the Emergency Medical Technician Program are:

- a) Provide adequate support/education to enhance the student's ability to successfully complete the program.
- b) Prepare students to successfully complete the National Registry of EMT (NREMT) board exam and meet and exceed all Los Angeles County requirements for certification.
- c) Comprehensively prepare the students to be a competent and compassionate member of the emergency medical services team.
- d) Maintain competent faculty and staff with relevant experience and expertise
- e) Maintain an active and involved advisory committee.
- f) Maintain high quality clinical and 911 ambulance ride-along opportunities for students.

11. Curriculum Review and Student Learning Outcomes Assessment

Course Number	Course Name	Last Reviewed by Curriculum Committee	*Date for next revision (six year cycle)	Date Last Offered	SLO's Written	**Most Recent SLO's Assessed
Heal 100	Emergency Medical Services Preparation	10/2009	10/2016	Fall 2009	09/2009	10/2009
Heal 161	Emergency Medical Technician	10/2008	10/2016	Fall 2009	09/2008	10/2009

*Courses to be reviewed on a six year cycle per Title 5.

**Results of assessment maintained by faculty with impact or needs recorded on annual program review report.

12. Degree/Certificate Review

The EMT program allows for flexibility in scheduling. Students may choose to take a Monday /Wednesday evening class or an all day Friday course. The courses are designed to attract working adults, full-time and part-time students and returning adult learners. EMT students are able to complete the course requirements in one semester and begin working as soon as they successfully pass their board examinations. Currently an

articulation agreement is being completed with surrounding regional occupational programs (ROP). The agreements are scheduled to be signed sometime in mid 2010.

The skill award and certificate of completion in EMT currently meets the needs of industry. The EMT program regularly meets with industry employers, holds annual advisory meetings and participates as an active member on local and state boards related to EMS issues. The EMT program follows set curriculum from the Los Angeles County Department of Health Services and NREMT who set local and national standards.

A concurrent requisite is required and can be completed concurrently with EMT or as a stand alone course. Both courses have recently undergone review by the Citrus College Curriculum Review Committee EMT 2008 and EMS Prep 2009.

Degree or Certificate Title	Date last reviewed by Curriculum	Average number of awards each year	Date SLOs written	Date SLOs Assessed	Date last reviewed by Advisory Council
Emergency Medical Technician Skill Award	2008	150	2008	2009	2008

13. Evaluation Criteria – Mission

- a. Students have the opportunity to complete the program in one semester.
- b. Graduates are hired with local ambulance and hospital providers at a rate of 95%.
- c. Students provide outreach to the community via Los Angeles County Public Health (providing assistance with flu shots and blood pressure screenings)
- d. Program collaborates with local elementary and high schools through on campus tours and community demonstrations.
- e. The program is very diverse. Program indicators of students, show 28.2% Hispanic and 37.8 % Caucasian, with approximately 75% of students being male, 25% female.

Commendations

- a) Student commendations from local provider agencies are received throughout the year.
- b) McCormick’s Ambulance, one of the four largest providers of "911" EMS in Los Angeles County, adopted Citrus as one of three sole employment vendors, (Citrus College, UCLA and El Camino College) for future employees.
- c) The Los Angeles FBI office sends approximately 30 agents to be trained and certified in EMT/Law enforcement medicine each spring semester.

Previous Recommendations Completed

- a) EMT advisory meeting completed for 2009.
- b) Attended various career faire's Citrus, San Dimas and Glendora.
- c) Provide EMT during times that are convenient to students.

Recommendations

Recommendation								
Pursue expanding EMT program to include accredited paramedic program in conjunction with Rio Hondo College								
Action/Activities	Target Date	Person Responsible	Impact					
			FNIC	Facilities	Software	Equipment	Personnel	Other
Hire Consultant	January 2010	Cliff Hadsell	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Pursue POST accreditation in Law Enforcement curriculum	January 2011	Cliff Hadsell	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Application fee

Recommendation								
Launch new Emergency Management Program								
Action/Activities	Target Date	Person Responsible	Impact					
			FNIC	Facilities	Software	Equipment	Personnel	Other
Meet with staff to find out what date to launch	Fall 2010	Cliff Hadsell	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

14. Evaluation Criteria – Need

Citrus College has been providing EMT training to the community for over 35 years. Demand continues to out supply current pool of qualified candidates. All successful graduates who have a clean driving record, criminal background, and are free from disability find employment. Course enrollment trends show a dramatic increase in perspective students (28 FTES, 2003, to 86 FTES, 2009). Currently there are 21 accredited EMT programs in Los Angeles County, some active, some not. All programs report turning prospective EMT students away because of lack of available seats.

The EDD, California Fire Chiefs and California Ambulance Owners all report an anticipated 22% increase in hiring through 2016.

Commendations

- a) Ninety-five percent of the students are hired upon graduation; many local area providers agencies hire exclusively from our program.
- b) Regular meetings with local area providers provide valuable input and feedback regarding the needs of the EMS community related to the training Citrus EMT program provides, allowing for adjustments to the curriculum and equipment as needed.
- c) Advisory committee continues to provide positive feedback and support for the program.

Previous Recommendations Completed

- a) Provide online software for practice EMT homework and tests.

Recommendations

Recommendation Provide storage for new ambulance									
				Impact					
Action/Activities	Target Date	Person Responsible	FNIC	Facilities	Software	Equipment	Personnel	Other	
Meet with staff to determine location	Fall 2010	Cliff Hadsell	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

15. Evaluation Criteria – Quality

The Citrus College EMT program is governed by the Los Angeles County Department of Health Services and NREMT. All lecture /lab hours are dictated and mandated for all accredited programs by regulatory agencies. All prerequisites and co-requisites are consistent with surrounding community colleges and are all transferable within EMT programs. All course outlines are reviewed on a regular basis. All faculty are well qualified and approved to teach didactic and/or skills by the Los Angeles County Department of Health Services. Faculty maintain at minimum 48 hours for paramedic and 24 hours for EMT continuing education units every two years. Approximately 65% of the students who enroll successfully complete the program. Many drop because of time, emotional, financial, family commitments, and/or find they are not suited to the profession.

Commendations

- a) prospective

Previous Recommendations Completed

- a) Complete EMT and EMS Prep Student Learning Outcomes.

Recommendations

Recommendation Provide professional development opportunities for Instructor, adjunct and skills instructors.									
				Impact					

Action/Activities	Target Date	Person Responsible		FNIC	Facilities	Software	Equipment	Personnel	Other
Secure funds for conferences	June 2010	Cliff Hadsell		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Secure funds to maintain pre-hospital mandatory certifications such as BCLS, ACLS, PHTLS and ATT for all instructors.	June 2012	Cliff Hadsell		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Recommendation									
Continue to update equipment needed for skills assessment									
				Impact					
Action/Activities	Target Date	Person Responsible		FNIC	Facilities	Software	Equipment	Personnel	Other
Ongoing purchase of current EMS equipment	2010-2012	Cliff Hadsell		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

16. Evaluation Criteria – Feasibility

The Citrus College EMT program has state-of-the-art equipment for all courses. The program is completely self supported and successful students can graduate and go to work at the conclusion of one semester. Currently we have sufficient faculty representation for students. However, in the future, if a paramedic school is approved, we will need additional adjunct instructors and an additional two full-time faculty members.

Commendations

- a) Courses are offered frequently enough to allow prepared students to complete the program in one semester. Courses are offered day and evening to meet the needs of working adults and retraining adult learners.

Previous Recommendations Completed

- a) Sell course pack (handouts) materials through the OWL bookstore

Recommendations

Recommendation									
Meet with Counseling members to orient them to the program requirements.									
				Impact					
Action/Activities	Target Date	Person Responsible		FNIC	Facilities	Software	Equipment	Personnel	Other
Hold a meeting with interested Counselors regarding EMT	2010	Cliff Hadsell		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Recommendation								
Hire two more faculty members if a paramedic school is approved.								
			Impact					
Action/Activities	Target Date	Person Responsible	FNIC	Facilities	Software	Equipment	Personnel	Other
	2012	Cliff Hadsell	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

17. Evaluation Criteria – Compliance

Citrus College EMT is regulated under the Los Angeles Department of Health Services and NREMT. All course work meets and exceeds governing body requirements. Citrus College facilities meet ADA and industry standards. The EMT program meets regularly with CTE staff throughout the year.

Commendations

- a) Cliff Hadsell serves as the Department of Health Services member/chair for the EMS Investigative Review Panel (IRP).
- b) Cliff Hadsell, serves as member of Los Angeles County EMS Education Task Force.
- c) Cliff Hadsell serves as board member for the Southern California EMS Educators Association.

Previous Recommendations Completed

- a) Hold yearly industry advisory meetings.

Recommendations

--none--

18. Evaluation Criteria – Other

19. Attachment A: Curriculum Course Outlines of Record

20. Attachment B: Catalog Pages & Sample Syllabi

21. Attachment C: Library Resources Report

22. Attachment D: Articulation Status

23. Attachment E: Academic Senate Checklist

24. Attachment F: Curriculum Checklist