



## **ACADEMIC PROGRAM PROPOSAL FORM**

*(Revised May 2014)*

**DIRECTIONS:** Use this form when proposing a new major or primary field of study, new emphasis, or new degree program.

**DATE SUBMITTED:** 1/26/15

*Date of AAC Approval:*

March 4, 2014

**INSTITUTION:** Truckee Meadows Community College

**REQUEST TYPE:**  New Degree  
 New Major or Primary Field of Study  
 New Emphasis

*Date of Board Approval:*

**DEGREE** (i.e. Bachelor of Science): Associate of Applied Science

**MAJOR** (i.e. Animal Science): Prehospital Emergency Medicine

**EMPHASIS** (i.e. Equine Studies): Paramedic Studies

**CREDITS TO DEGREE:** 68

**PROPOSED SEMESTER OF IMPLEMENTATION:** Fall 2015

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### **Action requested:**

Approval of the AAS in Prehospital Emergency Medicine for inclusion in the degree programs offered at TMCC.

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### **A. Brief description and purpose of proposed program**

TMCC has conducted Paramedic training and education since the early 1990's but has never offered a degree in this discipline. The new degree proposed will enhance the learning opportunities, professional status of our graduates and further the discipline of prehospital emergency medicine within our state and the industry.

### **B. Statement of degree or program objectives**

This degree will provide greater education and career opportunities for our students and graduates in this discipline of Advanced Emergency Medical pre-hospital care of the sick and injured. Paramedic education and training have historically been at the vocational level and this degree will be a big step in the right direction toward accomplishing a long term goal of education meeting licensure. It will further prepare students for continuing their education to the Bachelors level.

The program anticipates that a minimum of 50% of our current and former Paramedic graduates will pursue the AAS degree in Pre-Hospital Emergency Medicine which will add a substantial number of competently licensed and educated EMS professionals to our region and beyond.

**C. Plan for assessment of degree or program objectives**

The TMCC Paramedic program is a nationally accredited program by the Commission on Accreditation of Allied Health Education Programs. Within our accreditation are numerous requirements for program assessment and evaluation to ensure we are complying with the national accreditation standards. These same standards and parameters will be applied within the new degree program. Employer surveys will also be utilized.

**D. Plan for assessment of student learning outcomes and the use of this data for program improvement**

The program is currently collecting this data through web-based programs that allow us to utilize professionally validated written exams and tracking of psychomotor skills competency of each student. The program also tracks our national certification exam results for graduates through the National Registry of EMT's, the state accepted mechanism for EMS testing and certifications. We utilize all of the data tracked through the various mechanisms mentioned to evaluate program success and areas for improvement.

**E. Contribution and relationship of program objectives to**

**i. NSHE Master Plan**

The AAS in Prehospital Emergency Medicine supports The State & the System: NSHE Plan for Nevada's Colleges and Universities by promoting more entry-level graduates towards the state becoming "competitive and more economically prosperous" and by more closely adhering to NSHE's credit standards of 60 credits for an associates level degree. In addition, it supports NSHE's Strategic Plan (2015) of expanding public medical education in Nevada.

**ii. Institutional mission**

The AAS in Prehospital Emergency Medicine is aligned with the College's mission of "promoting student success, academic excellence and access to lifelong learning by supporting high-quality education and services within our diverse community." By providing an educational opportunity that leads to needed entry-level positions in our community. It further extends the opportunities for students who have earned Emergency Medical Technician skills certificates or the Paramedic Certificates of Achievement in to further their education in emergency medicine to the degree level.

**iii. Campus strategic plan and/or academic master plan**

The AAS in Prehospital Emergency Medicine is aligned with the College's Strategic Master Plan, Core Theme II, Academic Excellence, Objective 3: Meet workforce educational needs in the service area as well as Core Theme III, Objective 3: Create, expand, and/or strengthen partnerships with civic, community, educational, and business/industry organizations to provide lifelong learning opportunities.

**iv. Department and college plan**

The AAS in Prehospital Emergency Medicine reflects the Division of Technical Science's principles of providing high quality training that is responsive to the needs of students and employers, as well as Emergency Medical Services mission to "improve the quality of health in

our community by professionally preparing students for entry-level employment and career advancement in out-of-hospital care by providing high quality, innovative training based on national standards."

**v. Other programs in the institution**

The AAS Prehospital Emergency Medicine provides an avenue of advancement for students in the Emergency Medical Technician Skills Certificate, Emergency Medical Technician Advanced Skills Certificate, and Paramedic Certificate of Achievement currently offered at TMCC.

**vi. Other related programs in the System**

College of Southern Nevada currently offers an Associate of Applied Science degree in Paramedic Medicine. Northern Nevada to date has never offered such a degree in spite of the number of years we have had a Paramedic program or the number of students TMCC has trained.

**F. Evaluation of need for the program**

**i. Intrinsic academic value of program within the discipline**

As the discipline of EMS continues to mature and its scope of practice expands in depth and breadth, the need for accredited degree opportunities becomes all the greater toward the success and career enhancement of these professionals.

**ii. Evidence of existing or projected local, state, regional, national and/or international need for program**

The evidence of community regional need may be found in the EDawn projections for an additional 60,000+ jobs in Northern Nevada between 2015 and 2019. This influx in jobs and population will create a greater demand and need for EMT's and Paramedics in our region and state as population and demand for critical services grow.

**iii. If this or a similar program already exists within the System, what is the justification for this addition**

College of Southern Nevada currently offers an Associate of Applied Science degree in Paramedic Medicine. Northern Nevada to date has never offered such a degree in spite of the number of years we have had a Paramedic program or the number of students TMCC has trained.

**iv. Evidence of employment opportunities for graduates (state and national)**

The Bureau of Labor Statistics indicates that in 2012 there were 239,100 jobs in this career field. The job outlook for growth reported by the BLS is 23% from 2012 through 2022, much faster than the average or a projected growth of 55,300 nationally. There is further evidence within our own region of Northern Nevada when the EDawn projections of 60,000+ jobs are anticipated between 2015 and 2019. The impact this growth and population influx will create for additional emergency medical technicians and Paramedics cannot be overstated.

**v. Student clientele to be served (Explain how the student clientele is identified)**

Currently the EMS programs at TMCC within the EMT and Advanced EMT levels are enrolling at capacity, approximately 108 students per semester plus another 24-28 EMT students in the summer session for a total of 136 students annually. Many of these students continue on to the Paramedic level. There is no anticipated shortage in student clientele, plus the draw of graduates from the Paramedic program that have expressed a desire to return to complete their degree.

**G. Detailed curriculum proposal**

**i. Representative course of study by year (options, courses to be used with/without modification; new courses to be developed)**

Recommended degree path.

1<sup>st</sup> Fall Semester - Students will take:

- \*EMS-108 Emergency Medical Technician (Pre-Requisite to Paramedic)
- \*ENG-101 Composition I (Gen Ed)
- \*SOC-205 Ethnic Groups in Contemporary Society (Gen Ed)
- \*MATH-120 Fundamentals of College Math (Gen Ed)

1<sup>st</sup> Spring Semester - Students will take:

- \*EMS-112 Advanced Emergency Medical Technician (Pre-Requisite to Paramedic)
- \*ENG-102 Composition II (Gen Ed)
- \*ENV-100 Humans and the Environment (Gen Ed)
- \*US/NV Constitution; PSC-101 or HIST-111 or CH-203 (Gen Ed)

2<sup>nd</sup> Fall Semester - Students will take:

- \*EMS-201 Intro to Fundamentals of Paramedic Medicine
- \*EMS-200 Fundamentals of Paramedic Medicine
- \*EMS-203 Assessment Based Management I
- \*EMS-205 Principles of Pathophysiology
- \*EMS-206 Principles of Pharmacology
- \*EMS-207 Paramedic Airway Management
- \*EMS-209 Paramedic Patient Assessment
- \*EMS-210 Principles of Cardiology.

2<sup>nd</sup> Spring Semester - Students will take:

- \*EMS-202 Advanced ECG Interpretation
- \*EMS-211 Paramedic Medical Emergencies
- \*EMS-212 Paramedic Trauma Emergencies
- \*EMS-214 Paramedic Pediatric Emergencies
- \*EMS-215 Assessment Based Management II
- \*EMS-216 Paramedic Clinical Internship

Summer Session - Students will be in:

- \*EMS-217 Paramedic Field Internships

**ii. Program entrance requirements**

Students must be a certified National Registry and/or State of Nevada EMT or AEMT with a current valid Healthcare Provider CPR card.

**iii. Program completion requirements (credit hours, grade point average; subject matter distribution, preprogram requirements)**

The AAS in Prehospital Emergency Medicine will constitute 50 of the 68 credits required for graduation. The program has set a minimum academic standard of 80% to achieve a grade of C. The subject distribution of the Paramedic program covers two academic semesters and a summer session while the students are accomplishing their hospital and field internship rotations. The General Education requirements of 18 credits may be taken pre or post program at the students choosing. There are an additional 3 credits of Human Relations in the AAS that are embedded within the program for a total of 21 GE credits. Students must meet the requirements in Gii above for entry in to the program.

**iv. Accreditation consideration (organization (if any) which accredits program, requirements for accreditation, plan for attaining accreditation - include costs and time frame)**

The TMCC Paramedic program is already nationally accredited through the Commission on Accreditation of Allied Health Programs (CAAHEP) [www.caahep.org](http://www.caahep.org)

**v. Evidence of approval by appropriate committees of the institution**

Approved by TMCC's Curriculum, Assessment & Programs committee on (date). See attached documentation.

Approved by TMCC's Faculty Senate on (date). See attached documentation.

**H. Readiness to begin program**

**i. Faculty strengths (specializations, teaching, research, and creative accomplishments)**

The Paramedic program already exists at TMCC without the degree option and is staffed with two full-time teaching faculty and the program Director. The faculty has a combined experience base of 61 years in the EMS field and each are quite accomplished within the practice and education realm of teaching the discipline. The program has undergone numerous changes over the last 18-20 months when the current Director and Faculty took over the program. The program received national accreditation on July 31, 2014.

**ii. Contribution of new program to department's existing programs (both graduate and undergraduate) and contribution to existing programs throughout the college or university**

As previously stated, the program already exists within the Public and Occupational Safety Department at TMCC. This proposal is to enhance the program with the inclusion of a formal degree path.

**iii. Completed prior planning for the development of the program (recent hires, plans for future hires, securing of space, curricular changes, and reallocation of faculty lines)**

Since the certificate-level program already exists, these issues are already addressed and in place at TMCC.

**iv. Recommendations from prior program review and/or accreditation review teams**

The addition of the degree program is highly recommended by the accrediting body CAAHEP and the Commission on Accreditation of EMS Professions (CoAEMSP).

**v. Organizational arrangements that must be made within the institution to accommodate the program**

There are no additional arrangements within the institution needed for the existing program or addition of the degree path.

**I. Resource Analysis**

**i. Proposed source of funds (enrollment-generated state funds, reallocation of existing funds, grants, other state funds)**

Funds for the proposed degree path already exist with the existing program through enrollments, state funds, and grants.

**ii. Each new program approved must be reviewed for adequate full-time equivalent (FTE) to support the program in the fifth year. Indicate if enrollments represent 1) students**

formally admitted to the program, 2) declared majors in the program, or 3) course enrollments in the program.

- a. (1) Full-time equivalent (FTE) enrollment in the Fall semester of the first, third, and fifth year.

1st Fall semester 4

3rd Fall semester 5

5th Fall semester 6

- (2) Explain the methodology/assumptions used in determining projected FTE figures.

The Paramedic program at TMCC has been in existence since the early 1990's. The average fall enrollments over the previous 10 years was used for unduplicated headcount, and 12 credits were considered full time in the FTE formula: (unduplicated headcount\*3)/12 credits full-time.

- b. (1) Unduplicated headcount in the Fall semester of the first, third, and fifth year.

1st Fall semester 15

3rd Fall semester 18

5th Fall semester 22

- (2) Explain the methodology/assumptions used in determining projected headcount figures.

Averaged the number of Fall enrollments in the paramedic program over the last 10 years was used as unduplicated headcount.

- iii. Budget Projections – Complete and attach the Five-Year Budget Projection Table.

Please see attached.

#### J. Facilities and equipment required

- i. Existing facilities: type of space required, number of assignable square feet, space utilization assumptions, special requirements, modifications, effect on present programs  
At the certificate level, the program currently exists and is taught at the Regional Public Safety Training Center in Reno. The program would merely be extended to the associate degree level.

- ii. Additional facilities required: number of assignable square feet, description of space required, special requirements, time sequence assumed for securing required space  
Existing

- iii. Existing and additional equipment required  
Existing

#### K. Student services required – Plans to provide student services, including advisement, to accommodate the program, including its implications for services to the rest of the student body

There will be no additional impact.

**L. Consultant Reports – If a consultant was hired to assist in the development of the program, please complete subsections A through C. A copy of the consultant’s final report must be on record at the requesting institution.**

**i. Names, qualifications and affiliations of consultant(s) used**

N/A

**ii. Consultant’s summary comments and recommendations**

N/A

**iii. Summary of proposer’s response to consultants**

N/A

**M. Articulation Agreements**

**i. Articulation agreements were successfully completed with the following NSHE institutions. (Attach copies of agreements)**

N/A

**ii. Articulation agreements have not yet been established with the following NSHE institutions. (Indicate status)**

N/A

**iii. Articulation agreements are not applicable for the following institutions. (Indicate reasons)**

N/A

**N. Summary Statement**

The Associate of Applied Science in Pre-Hospital Emergency Medicine will afford students the opportunity to extend their education and job prospects in the EMS field by creating a more highly educated graduate for the industry. This new degree will also provide greater continuing formal education opportunities and upward mobility prospects for graduates while meeting the stated needs of the community.

**DIRECTIONS:** Complete the following cost estimates for the first, third, and fifth year budget projections for the proposed new program in Section A. If the total budget for the program is not reflected in the "Existing" or "New" categories, please provide further explanation in the space provided below (EXPLANATION). Any "new" costs must be noted by source in Section B.

**STUDENT FTE**

Year 1: 4      Year 3: 5      Year 5: 6

Section A.	Year 1/Start-up				Year 3				Year 5			
	Existing <sup>1</sup>	New <sup>2</sup>	Total	FTE	Existing <sup>1</sup>	New <sup>2</sup>	Total	FTE	Existing <sup>1</sup>	New <sup>2</sup>	Total	FTE
<b>PERSONNEL</b>												
Faculty ( <i>salaries/benefits</i> ) <sup>3</sup>	206,492	0	206,492	2.5	211,654	0	211,654	2.5	216,946	0	216,946	2.5
Graduate Assistants	0	0	0	0.0	0	0	0	0.0	0	0	0	0.0
Support Staff	32,120	0	32,120	0.5	32,923	0	32,923	0.5	33,746	0	33,746	0.5
Fellowships/Scholarships	0	0	0	0.0	0	0	0	0.0	0	0	0	0.0
<b>Personnel Total</b>	\$238,612	\$0	\$238,612	3.0	\$244,577	\$0	\$244,577	3.0	\$250,692	\$0	\$250,692	3.0
<b>OTHER RESOURCES</b>												
Library Materials ( <i>printed</i> )	0	0	0		0	0	0		0	0	0	
Library Materials ( <i>electronic</i> )	0	0	0		0	0	0		0	0	0	
Supplies/Operating Expenses	4,372	0	4,372		5,028	0	5,028		5,728	0	5,728	
Equipment	0	0	0		0	0	0		0	0	0	
Other Expenses	0	0	0		0	0	0		0	0	0	
<b>Other Resources Total</b>	\$4,372	\$0	\$4,372		\$5,028	\$0	\$5,028		\$5,728	\$0	\$5,728	
<b>PHYSICAL FACILITIES</b>												
Construction	0	0	0		0	0	0		0	0	0	
Major Renovation	0	0	0		0	0	0		0	0	0	
Other Facility-Related Expenses	0	0	0		0	0	0		0	0	0	
<b>Physical Facilities Total</b>	\$0	\$0	\$0		\$0	\$0	\$0		\$0	\$0	\$0	
<b>TOTAL</b>	\$242,984	\$0	\$242,984		\$249,605	\$0	\$249,605		\$256,420	\$0	\$256,420	
<b>Section B.</b>	↓				↓				↓			
	Amount		%		Amount		%		Amount		%	
<b>EXPLANATION OF "NEW" SOURCES<sup>2</sup></b>												
Tuition/Registration Fees		0				0				0		
State Support		0				0				0		
Federal Grants/Contracts		0				0				0		
State Grants/Contracts		0				0				0		
Private Grants/Contracts		0				0				0		
Private Gifts		0				0				0		
Other ( <i>please specify</i> )		0				0				0		
<b>TOTAL</b>		\$0		0.0%		\$0		0.0%		\$0		0.0%

<sup>1</sup>Resources re-allocated from existing programs in Year 1 should be noted in the "Existing" column. In addition, "New" costs from Year 1 that will continue in the third and fifth year should also be noted in the third and fifth year as "Existing."

<sup>2</sup>Any "New" resource utilized to fund a new program must include the source to be provided in the "Explanation of New Sources" section. Total "New" sources for each year must equal the total for each year under "Explanation of New Sources."

<sup>3</sup>Budget estimates for faculty salaries and benefits must include estimated merit and COLA increases in Year 3 and Year 5.

**EXPLANATION** (Please provide any additional information pertinent to the budget projection, including for example, explain for any new funding sources that are not guaranteed receipt by the institutions how the program will make-up for the potential loss in expected new funding.):