

**DEGREE/PROGRAM CHANGE
FORM C
Form Number: C1139**

Fields marked with * are required

Name of Initiator: Beverly Kay Willerton **Email:*** kwiller@unm.edu **Date:*** 10-23-12

Phone Number:* 505 661-4697

Initiator's Title* Lecturer: Los Alamos
Branch

Associated Forms exist?*

No ▼

Faculty Contact* Kay Willerton

Administrative Contact* Kay Willerton

Department* Emergency Medical Services

Admin Email* kwiller@unm.edu

Branch Los Alamos

Admin Phone* 505-661-4697

Proposed effective term:

Semester

Fall ▼

Year

2013 ▼

Course Information

Select Appropriate Program

Undergraduate Degree Program ▼

Name of New or Existing Program

* NEW AS Emergency Medical Services (LA)

Select Category

Degree ▼

Degree Type

AS

Select Action

New ▼

Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and proposed requirements.

See current catalog for format within the respective college (upload a doc/pdf file)

[FormC ASin EMS Degree Proposal Oct12.pdf](#)

Does this change affect other departmental program/branch campuses? If yes, indicate below.

Reason(s) for Request * (enter text below or upload a doc/pdf file)

UNM-Los Alamos is working with the UNM EMS Academy to create an AS in EMS that would transfer seamlessly into the bachelor program. We are also helping them create a method to deliver their bachelor program on our campus after students complete the AS program. The research into the need for such a program, including letters of support from the academy and the Los Alamos Fire Department EMS department, are included in the pre-proposal that was approved by Greg Heileman. This pre-proposal is attached below.

[UNMLA AS in EMS Pre-proposal.pdf](#)

Upload a document that includes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications. *

[Budget and Faculty Load.pdf](#)

Associate of Science in Emergency Medical Services

UNM—Los Alamos

About the Program

The Associate of Science in Emergency Medical Service is a specialized degree program designed to build a workforce that is customized to the expected needs of towns, cities and counties in Northern New Mexico and beyond. Students in the program will receive basic academic and specialized hands on training needed to meet the professional educational needs of pre-hospital care providers. The program is designed to meet the 1998 EMT National Standard Curriculum requirements and incorporates New Mexico requirements and EMT scope of practice. Upon successful completion of degree requirements with a minimum GPA of 2.33, graduates will be qualified for New Mexico and National Registry testing and will be eligible for admission to the UNM Bachelor of Science in Emergency Medical Services program.

Program Learning Goals

The emergency medical services program provides students with quality instruction to facilitate mastery of the knowledge, skills and behaviors necessary to continue their studies with an end to completing a bachelor's degree in emergency medical services paramedic program. Upon successful completion of the required courses for the emergency medical services program, our students will demonstrate that they have developed the ability to:

- Recognize medical and traumatic emergencies and have the ability to intervene and stabilize patients while in transport to an advanced care facility.
- Have the ability to successfully use pre-hospital field techniques, including airway management and patient assessment and administration of intravenous fluids.
- Show awareness of social and professional responsibilities and act accordingly.
- Have a working knowledge of pharmacology, the history of emergency medical services, the development of EMS systems and current trends and issues in EMS.
- Communicate effectively.

Specific Requirements

A minimum of 73 credit hours with a minimum grade of 2.33 are required. At least 15 of these 73 credit hours must be UNM catalog credit courses taken in residence. A grade of C or better is required in all courses used to fulfill the requirements of the core curriculum. A minimum of C is also required in each Technical Core course.

General Education core courses (52 credit hours)

Writing and Speaking (12 credit hours)

- ENGL 101 Composition I: Exposition (3 credit hours)
- ENGL 102 Composition II: Analysis and Argument (3 credit hours)
- ENGL 220 Expository Writing (3 credit hours)

Or

- ENGL 290 Introduction to Professional Writing (3 credit hours)
- CJ 130 Public Speaking (3 credit hours)

Mathematics and Statistics (6 credit hours)

- MATH 121 College Algebra (3 credit hours)
- STAT 145 Introduction to Statistics (3 credit hours)

Physical and Natural Sciences (16 credit hours)

- BIOL 123 Biology for Health Related Sciences and Non Majors (3 credit hours)
AND
- BIOL 124L Biology for Health Related Sciences and Non Majors Lab (1 credit hour)
- BIOL 237 Human Anatomy and Physiology I for the Health Sciences (3 credit hours)
AND
- BIOL 227L Human Anatomy and Physiology Lab I (1 credit hour) OR BIOL 247L Human Anatomy and Physiology I for the Health Sciences Lab (1 credit hour)
- BIOL 238 Human Anatomy and Physiology II for the Health Sciences (3 credit hours)
AND
- BIOL 228L Human Anatomy and Physiology Lab II (1 credit hour) OR BIOL 248L Human Anatomy and Physiology II for the Health Sciences Lab (1 credit hour)
- CHEM 121 General Chemistry (3 credit hours)
AND
- CHEM 123L General Chemistry Lab (1 credit hour)

Social and Behavioral Sciences (6 credit hours)

Select two courses from the UNM Core Curriculum in Social and Behavioral Sciences

Humanities (6 credit hours)

Select two courses from the UNM Core Curriculum in Humanities

Fine Arts (3 credit hours)

Select one course from the UNM Core Curriculum in Fine Arts

Foreign Language (3 credit hours)

Select one course from the UNM Core Curriculum in Foreign Language

Emergency Medicine Core Requirements (21 Credit Hours)

- EMS 113 EMT-Basic (8 credit hours)
- EMS 142 EMT-Basic Lab (2 credit hours)
- EMS 120 Introduction to EMS System (3 credit hours)
- EMS 143 EMT-Intermediate Lab (1 credit hour)
- EMS 151 EMT-I Clinical and Field Experience (2 credit hours)
- EMS 180 EMT-Intermediate (5 credit hours)

Total Program Required 73 credit hours

Justification for AS in Emergency Medical Services

UNM—Los Alamos

The Associate of Science in Emergency Medical Service is a specialized degree program designed to build a workforce that is customized to the expected needs of towns, cities and counties in Northern New Mexico and beyond. The program will provide basic academic and specialized hands on training that will produce students with background and knowledge of pre-hospital care providers. It is designed to meet the 1998 EMT National Standard Curriculum requirements and incorporates New Mexico requirements and EMT scope of practice.

The program is being developed in cooperation with the UNM EMS Academy. Upon successful completion of degree requirements and a minimum GPA of 2.33, graduates will be qualified for New Mexico and National Registry testing and are eligible for admission to the UNM School of Medicine Emergency Medical Service Academy Bachelor of Science in Emergency Medical Service program.

The program will provide students with quality instruction to facilitate mastery of the knowledge, skills and behaviors necessary to continue their studies with an end to completing a bachelor's degree in emergency medical services paramedic program. Upon successful completion of the required courses for the emergency medical services program, our students will demonstrate that they:

- Recognize medical and traumatic emergencies and have the ability to intervene and stabilize patients while in transport to an advanced care facility.
 - Have the ability to successfully use pre-hospital field techniques, including airway management and patient assessment and administration of intravenous fluids.
 - Show awareness of social and professional responsibilities and act accordingly.
 - Have a working knowledge of pharmacology, the history of emergency medical services, the development of EMS systems and current trends and issues in EMS.
 - Communicate effectively.
1. The Associate of Science in Emergency Medical Service can be considered a vocational, terminal program, since students who obtain this degree will have the ability to be licensed as an EMT; however, it is designed primarily to be a transfer program directly into the UNM School of Medicine Emergency Medical Services Academy Bachelor of Science in Emergency Medical Service degree program. We are working not only with the UNM-EMS Academy, but also with the Los Alamos Fire Department and the local public schools to create the program. Since it will be based on the 1998 EMT National Standard Curriculum requirements, it will be portable and transferable both within the state and nationally. The local public schools have expressed an interest in having EMT Basic available for high school juniors and seniors so that students could be prepared to sit for the licensing exam and begin work as soon as they have their 18th birthday. These partnerships will give our students the skills that the regional potential employers are seeking in their new employees.
 2. Our recent assessment of the labor market in Northern New Mexico reflects a continual and growing need for emergency service personnel with post-secondary education. Our program will create a pool of qualified and productive individuals from which local emergency service providers, usually fire departments, could draw for entry level employees.
 3. This degree program, developed in conjunction with the UNM EMS Academy as well as our local fire department, will provide this opportunity to current employees who wish to enter a paramedic program as well as new students. Currently over 100 students are turned away from the program at UNM because of lack of space each year. This program at UNM-LA will help those students begin their degree. We are working with UNM to bring many of the 3rd year courses from UNM EMS academy to the our campus so that students can make progress rather than needing to wait for another year or two until space opens up in Albuquerque. The local fire department estimates that of its approximate 150 employees it has about a 20% per year turnover and

thus needs for new employees. Similarly, fire departments in Espanola, Santa Fe and Taos report similar needs. Many of the current firefighters plan to pursue training in emergency medical services. The lack of local availability often prevents currently employed individuals from beginning a program.

4. In the next five to ten years the job-creation ratio in New Mexico is expected to increase. These employment demands are demonstrated by current statistical figures published by state and federal agencies, such as NM Department of Labor and the U.S Bureau of Labor Statistics. These statistics indicate and expected growth of 33% by 2020 nationally. This is much faster than average growth rate.¹ In New Mexico there is an expected growth as well with the rate being about 2.2% per year.²
5. Most other regional institutions in Northern New Mexico do not have a degree in Emergency Medical Services. Our program would join 2 other emergency services degree programs in the Northern half of New Mexico. The geographically closest institution offering a fire-related degree program is Santa Fe Community College which offers an AAS in Paramedicine. The SFCC program is designed to be a terminal degree, while our proposed program is a transfer program designed to funnel directly into the UNM Baccalaureate program. While the SFCC program contains a few similar courses to those available at UNM EMS Academy, it does not have the depth of education that a bachelor degree would provide. The other institution in Northern New Mexico which offers a degree in Emergency Medical Service is San Juan College which is in the far northwest corner of New Mexico, over 200 miles away. The SJC degree program is also designed to be a terminal Associate's degree rather than a transfer program.

¹ Bureau of Labor Statistics, U.S. Department of Labor, *Occupational Outlook Handbook, 2012-13 Edition*, EMTs and Paramedics, on the Internet at <http://www.bls.gov/ooh/healthcare/emts-and-paramedics.htm> (visited October 04, 2012).

² New Mexico Department of Workforce Solutions, <http://www.dws.state.nm.us/careersolutions/occs/292041.html>

Budgetary and Faculty Load Considerations

We anticipate that a minimum number of part-time faculty members will need to be employed and only for the technical core and the specialized technical classes offered in the program. The technical core courses are already being taught each semester, so the increase will begin only as a cohort of students begin to move through the program in larger numbers. The cost associated with the acquisition of additional faculty members will be approximately \$700-\$750 per credit hour and will depend on the number of courses offered each semester (or each year.) The cost should be mostly recovered through tuition and state funding as they will not be full-time or tenured faculty at this time. The long-term goal is to hire full-time or tenured faculty, but that will be several years in the future.

Currently, lab equipment will be borrowed from the UNM EMS Academy. We are currently working with the UNM EMS Academy to develop a list of equipment that we will need to purchase. We estimate the cost of the equipment to be about \$10,000, but we will finalize the list with the EMS academy.

The Los Alamos branch campus of UNM mirrors all of the same student support services that are available to main campus students. UNM-LA Tutoring Center maintains a qualified group of tutors who offer assistance in math, English, chemistry, and other subject areas depending upon the expertise of the tutors. The library facility offers a comfortable learning environment, which includes a variety of study spaces and ten public computer workstations. Our computer facilities, available for students to use outside of the classrooms, support Mac, Windows, and Linux platforms. All computer workstations on campus are connected to the campus local area network, providing internet access through a connection to UNM-Albuquerque. Academic advisors are available to assist students achieve their educational goals. The team of advisors can provide information on a variety of academic, administrative, and placement topics. We already have a Program Coordinator, who is a Captain/Paramedic with the local fire department, on staff for this program. The cost of the coordinator will be shared with the Fire Science Program. We do not see the need to improve any of the student services we provide at this time. As a result, we do not anticipate any additional costs related to improving these services.

There will be course fees associated with various technical courses in the Associate of Science in Emergency Medical Service. For EMT Basic and Intermediate will both require needle stick insurance and purchase of curriculum from the UNM EMS Academy. Currently that fee is \$100, but it will increase as the cost of these items increase. If we determine at a later date that expendable materials are needed for a particular class, the course fee form will be completed and submitted.

In order to successfully implement this program, UNM-Los Alamos received support from LAFD in terms of curriculum development and equipment use. Other associated costs would include salaries for the program coordinator(s) and stipends for faculty members teaching in the program. A stipend for the program coordinator during start-up will be provided for by a current Title V Grant.

The following table provides a three-year projection of the program's estimated budget.

	Year 1	Year 2	Year 3
Program Coordinator	\$2000	\$2000	\$2000
Faculty (already in current budget for technical courses)	\$12,000	\$12,000	\$12,000
Student Outreach	\$500	\$500	\$500
Equipment Expenses	\$3,000	\$3,000	\$3,000
Miscellaneous	\$750	\$750	\$750
Total Expenses	\$18,250	\$18,250	\$18,250



THE UNIVERSITY *of*
NEW MEXICO

Office of the Vice Provost for Academic Affairs
MSC05 3400
1 University of New Mexico
Albuquerque, NM 87131-0001
505.277.2611

Date: 10/11/2012

To: Beverly Kay Willerton, Associate Dean of Instruction, UNM-Los Alamos

From: Gregory L. Heileman, Associate Provost for Curriculum 

Re: Pre-proposal for Associate of Science in EMS for UNMLA

Cc: Chaouki Abdallah, Provost and EVP for Academic Affairs
Kathleen Keating, Chair, Faculty Senate Curriculum Committee
Elizabeth Barton, Associate Registrar

Thank you for submitting the preliminary review outline for the Associate of Science in Emergency Medical Service. In our judgment, the proposed Associate of Science degree has been sufficiently well developed to warrant submission to the Faculty Senate Curricula Committee, please feel free to proceed.

We commend you for endeavoring to create this program in a manner that is consistent with the program at UNM – Valencia, and for also ensuring that it feeds into the UNM EMS Academy.



Emergency Medical Services Academy

UNM Faculty Senate Curriculum Committee

September 27, 2012

Re: UNM-Los Alamos AS in Emergency Medical Services

To Whom It May Concern:

I am pleased to write this letter in support of the pre-proposal submitted by UNM–Los Alamos and partners in Northern New Mexico to implement an Associate of Science Degree in Emergency Medical Services. This degree will help to address the critical need in Northern New Mexico to advance students in public safety careers recruit new students into a degree program in such a vital discipline.

As the Director of the EMS Academy, I strongly support this proposal and the combined efforts of the partners to create this new degree opportunity. We have been working with the faculty and staff of UNM–LA in planning and implementing this program including the required credits and equipment. To support this program, we hope to design a Fire Science Concentration as part of our Bachelors of Science, EMS degree. In return, we foresee that this program could also benefit us by providing a Fire Science option for our BS degree students.

Thank you for your consideration of this degree program. We look forward to working with UNM-Los Alamos on a mutually beneficial program.

Sincerely,

A handwritten signature in black ink, appearing to read "Robert McDaniels".

Robert McDaniels, MS, NREMT-P

Director

EMS Academy

Troy Hughes
Fire Chief
Justin Grider
Deputy Chief
Glenn Trehern
Deputy Chief

Los Alamos County Fire Department

195 East Road, Suite 101, Los Alamos, NM 87544

Phone: (505) 662-8301; Fax: (505) 662-8302



"1 Department, 1 Direction, True North"



October 3, 2012

The University of New Mexico
Los Alamos Branch
4000 University Dr.
Los Alamos, NM 87544

To Whom It May Concern:

The Los Alamos Fire Department would like to express our excitement and enthusiasm for a potential Paramedic Education Program to be held at the University of New Mexico Los Alamos Branch. The Los Alamos Fire Department is a highly regarded institution of higher education in our community of Los Alamos. With the convenience of having such a highly regarded institution of higher education in our community that would be able to provide this type of education to the members of our department, it is my intention to provide this type of education to the members of our department. It is my intention to take full advantage of supporting our staff as they chose to further their Emergency Medical Education.

The Los Alamos Fire Department would be more than willing to explore options of sending our personnel to the University of New Mexico Los Alamos Branch, should the Paramedic Education Program come available. Should you have any questions or require any further information, please feel free to contact me.

Thank you.

A handwritten signature in black ink, appearing to read "Adam E. Muller".

Adam E. Muller
Division Chief
Emergency Medical Services Division
Los Alamos Fire Department



Memorandum

To: Dr. Kate Massengale, Dean of Instruction
From: Dennis Davies-Wilson, ^{DDW}Library Director
Date: October 18, 2012
Re: Library support for AS in Emergency Medical Services Form C

The library currently collects limited resources in support of the EMT program. Additional funding (a minimum of \$2,000.00 annually) will be necessary to update the print and electronic resources collection and maintain support of an Associate of Science in Emergency Medical Services degree.

UNM-Los Alamos
New Degree Program Proposal

Associate of Science in Emergency Medical Services

The UNM-Los Alamos Curriculum Committee has approved the proposed new program above.

Dennis Davies-Wilson 10-17-12
Dennis Davies-Wilson, Chair Date

Budgetary and Faculty Load Considerations

We anticipate that a minimum number of part-time faculty members will need to be employed and only for the technical core and the specialized technical classes offered in the program. The technical core courses are already being taught each semester, so the increase will begin only as a cohort of students begin to move through the program in larger numbers. The cost associated with the acquisition of additional faculty members will be approximately \$700-\$750 per credit hour and will depend on the number of courses offered each semester (or each year.) The cost should be mostly recovered through tuition and state funding as they will not be full-time or tenured faculty at this time. The long-term goal is to hire full-time or tenured faculty, but that will be several years in the future.

Currently, lab equipment will be borrowed from the UNM EMS Academy. We are currently working with the UNM EMS Academy to develop a list of equipment that we will need to purchase. We estimate the cost of the equipment to be about \$10,000, but we will finalize the list with the EMS academy.

The Los Alamos branch campus of UNM mirrors all of the same student support services that are available to main campus students. UNM-LA Tutoring Center maintains a qualified group of tutors who offer assistance in math, English, chemistry, and other subject areas depending upon the expertise of the tutors. The library facility offers a comfortable learning environment, which includes a variety of study spaces and ten public computer workstations. Our computer facilities, available for students to use outside of the classrooms, support Mac, Windows, and Linux platforms. All computer workstations on campus are connected to the campus local area network, providing internet access through a connection to UNM-Albuquerque. Academic advisors are available to assist students achieve their educational goals. The team of advisors can provide information on a variety of academic, administrative, and placement topics. We already have a Program Coordinator, who is a Captain/Paramedic with the local fire department, on staff for this program. The cost of the coordinator will be shared with the Fire Science Program. We do not see the need to improve any of the student services we provide at this time. As a result, we do not anticipate any additional costs related to improving these services.

There will be course fees associated with various technical courses in the Associate of Science in Emergency Medical Service. For EMT Basic and Intermediate will both require needle stick insurance and purchase of curriculum from the UNM EMS Academy. Currently that fee is \$100, but it will increase as the cost of these items increase. If we determine at a later date that expendable materials are needed for a particular class, the course fee form will be completed and submitted.

In order to successfully implement this program, UNM-Los Alamos received support from LAFD in terms of curriculum development and equipment use. Other associated costs would include salaries for the program coordinator(s) and stipends for faculty members teaching in the program. A stipend for the program coordinator during start-up will be provided for by a current Title V Grant.

The following table provides a three-year projection of the program's estimated budget.

	Year 1	Year 2	Year 3
Program Coordinator	\$2000	\$2000	\$2000
Faculty (already in current budget for technical courses)	\$12,000	\$12,000	\$12,000
Student Outreach	\$500	\$500	\$500
Equipment Expenses	\$3,000	\$3,000	\$3,000
Miscellaneous	\$750	\$750	\$750
Total Expenses	\$18,250	\$18,250	\$18,250