

**DEGREE/PROGRAM CHANGE  
FORM C  
Form Number: C1177**

**Fields marked with \* are required**

<b>Name of Initiator:</b>	Robert McDaniels	<b>Email:*</b>	<a href="mailto:rmcdanil@unm.edu">rmcdanil@unm.edu</a>	<b>Date:*</b>	10-31-12
<b>Phone Number:*</b>	505 272-5757	Initiator's Title*	Lecturer III: Emerg Med EMS Academy		
Associated Forms exist?*	Yes ▼				
Faculty Contact*	robert McDaniels	Administrative Contact*	robert McDaniels		
Department*	emer Med	Admin Email*	rmcdaniels@salud.unm.edu		
	<b>Branch</b>	Admin Phone*	2-5757		

Proposed effective term:

Semester	Fall ▼	Year	2013 ▼
----------	--------	------	--------

**Course Information**

Select Appropriate Program	Undergraduate Degree Program ▼
Name of New or Existing Program	* Bachelor of Science in Emergency Medical Services
Select Category	Degree ▼ Degree Type
Select Action	Revision ▼

**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)

[Fall 2012 New Catalog Entry & Changesv4.docx](#)

☐ **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)  
The National standardized EMS curriculum has changed requiring adjustments to EMS Program.

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

[2012-10-30 memo Rob-McLaughlin.pdf](#)

# Undergraduate Program

## Bachelor of Science in Emergency Medical Services

The B.S. degree in EMS is intended to prepare graduates to meet the professional requirements for prehospital **emergency** care providers. Completion of **all of** the paramedic core courses with a minimum grade of C is required for eligibility to apply for National Registry of EMTs examination and New Mexico Licensure. ~~Only paramedic core courses are required for National Registry eligibility.~~

The program accepts academic credit from accredited institutions of higher education for course work deemed equivalent to program requirements. ~~Students with previous EMS licensure must discuss options for receiving credit with the program academic advisor.~~ Of the 132 hours required for the degree, a minimum of 30 credit hours in the EMS major must be taken at the University of New Mexico to satisfy University residency requirements.

## Application and Admission Requirements

~~Applicants for admission to the B.S. in EMS program must complete the UNM undergraduate admissions application and declare EMS as their major in the University College Advisement Center. Upon completion, or pending completion, of the prerequisites, the student must apply for admissions to the paramedic program. This program admission process is competitive. If the student is accepted into the paramedic program, the student will be moved, by the program, from UNM University College to the UNM School of Medicine. Acceptance into the paramedic program will be in writing. If a student is accepted to the program pending the completion of all required prerequisites, satisfactory completion of all required prerequisites with a C or higher is required no later than the Spring semester of the application year. Any prerequisites or course work not taken at UNM must be officially transferred to UNM no later than July 1 of the application year.~~

~~Prior to admission to the paramedic core courses student must have~~

~~completed 30 undergraduate hours to include the equivalent of MATH 121 College Algebra; the equivalent of ENGL 102 Composition II Analysis and Argument; the equivalent of GHEM 121 General Chemistry I; the equivalent of BIOL 237 and 247L Anatomy and Physiology I for the Health Sciences and BIOL 238 and 248L Anatomy & Physiology II for the Health Sciences, all with no grade less than C, and an overall GPA of 2.5.~~

~~Admission application materials are available on the program website at <http://hsc.unm.edu/som/emsacad/>. The admission deadline for the UNM School of Medicine Paramedic program is February 1.~~

~~Although EMS licensure is not required for admission to the program, it is required before paramedic training. All students must have current New Mexico licensure at the EMT-Basic or EMT-Intermediate level prior to taking paramedic program courses. Those students with out-of-state licensure should contact the New Mexico EMS Bureau regarding reciprocity prior to taking paramedic core courses.~~

### **Program Requirements**

~~Students must maintain an overall GPA of greater than or equal to 2.5 throughout the program. While in the paramedic core courses students must maintain a current CPR for healthcare providers course completion card, health insurance, and a current New Mexico EMT license.~~

~~All students seeking acceptance to the School of Medicine, Paramedic program must meet requirements for admission to the University. See the section in this catalog on the Undergraduate Program for information on University admission requirements.~~

~~Applications are only accepted through an online application process. Check the EMS Academy website at <http://hsc.unm.edu/som/emsacad/> for application information. This application is in addition to the application for admission to the University as an undergraduate.~~

~~Screening for admission to the College is conducted at periodic intervals. All applications, fees and official transcripts must be received by the deadline. Students should submit applications early to allow for adequate advisement and processing of applications.~~

### **Requirements for Admission:**

1. Submitted application and required academic records by the deadline dates; successfully completed all Pre-Paramedic classes, with a 2.5 GPA or better, by the date specified in the current application packet for each option.
2. Additional information may be utilized to rank applicants; examples may include grade point average, interview, entrance exam, and geographical differences.

**NOTE:** Preference is given to New Mexico residents.

The School of Medicine, EMS Academy reserves the right to request the student to supply any additional information as necessary. Students are expected to be fluent in the English language.

### **Application Deadlines**

Please check the EMS Academy website <http://hsc.unm.edu/som/emsacad/> for current application deadlines.

**Note:** Applicants should consult the EMS Academy website immediately prior to an application deadline to check for any deadline extensions.

### **Departmental Honors Program**

Students with a minimum overall GPA of 3.5 and a minimum 3.6 GPA in EMS course work are eligible for honors under the following circumstances:

1. Completion of a minimum of 6 additional credit hours of approved research or independent study courses beyond the hours required to achieve the B.S. degree.
2. Submission of an approved project, submission-ready research article, or presentation at a state or national conference.
3. Endorsement of program faculty.
4. Maintenance of academic honesty and integrity, and professional conduct expected of healthcare professionals

### **Requirements for Graduation**

The Bachelor of Science in EMS is granted to students upon fulfillment of the following:

1. Completion of 132 semester hours of course work of the prescribed curriculum.
2. Completion of The University of New Mexico Core Curriculum.
3. Completion of at least 63 semester hours of upper-division course work. Such courses are numbered 300 or above.
4. Compliance with the minimum residence requirements, as stated in the General Academic Regulations section of this catalog.
5. Maintenance of an overall grade point average of 2.0 minimum.
6. Unanimous recommendation for the degree by the faculty of the School of Medicine.

### **Bachelor of Science Degree Completion Requirements**

- ~~1. Satisfactory completion of a total of 136 credit hours. A minimum 30 hours of these hours must be UNM-EMS courses. Fifteen of these hours must be completed after 92 hours have been earned.~~
- ~~2. Completion of general education requirements in the first and second years. Completion of the paramedic program the third year and completion of listed electives during the fourth year.~~
- ~~3. Minimum overall GPA greater than or equal to 2.5, EMS course GPA 2.5.~~
- ~~4. Submission of an application for graduation.~~
- ~~5. Approval of the full-time program faculty~~

### **General Education Requirements**

MATH 121	College Algebra	3
-or-		
MATH 150	Pre-Calculus Mathematics	3
-or-		
MATH 180	Calculus I	3
ENGL 101	Composition I - Exposition	3
ENGL 102	Composition II - Argumentation	3
ENGL 220	Expository Writing	3
-or-		
ENGL 290	Introduction to Professional Writing	3
PSY 105	General Psychology	3
BIOL 123	Biology for Health-Related	3

	Sciences and Non-majors	
<del>BIOL 124L</del>	<del>Biology for Health-Related Sciences and Non-majors Lab</del>	<del>4</del>
<del>-or-</del>		
<del>BIOL 201</del>	<del>Molecular and Cell Biology</del>	<del>4</del>
<del>CHEM 121</del>	<del>General Chemistry I</del>	<del>3</del>
<del>-and-</del>		
<del>CHEM 123L</del>	<del>General Chemistry I Lab</del>	<del>1</del>
<del>-or-</del>		
<del>CHEM 122</del>	<del>General Chemistry II</del>	<del>3</del>
<del>-and-</del>		
<del>CHEM 124L</del>	<del>General Chemistry II Lab</del>	<del>1</del>
<del>BIOL 237</del>	<del>Human Anatomy and Physiology I for Health Sciences</del>	<del>3</del>
<del>BIOL 247L</del>	<del>Human Anatomy and Physiology I for Health Sciences Lab</del>	<del>1</del>
<del>BIOL 238</del>	<del>Human Anatomy and Physiology II for Health Sciences</del>	<del>3</del>
<del>BIOL 248L</del>	<del>Human Anatomy and Physiology II for Health Sciences Lab</del>	<del>1</del>
<del>STAT 145</del>	<del>Introduction to Statistics (or equivalent)</del>	<del>3</del>
<del>PHIL 101</del>	<del>Introduction to Philosophical Problems</del>	<del>3</del>
<del>PHIL 245</del>	<del>Professional Ethics</del>	<del>3</del>
<del>CJ 130</del>	<del>Public Speaking</del>	<del>3</del>
<del>ANTH 101</del>	<del>Introduction to Anthropology</del>	<del>- 3</del>
<del>-or-</del>	<del>-</del>	<del>-</del>
<del>SOC 101</del>	<del>Introductory Sociology</del>	<del>3</del>
<del>Fine Arts</del>	<del>-</del>	<del>3</del>

Elective		
Foreign Language	-	3
-	Total	5
		2

### **Pre-Paramedic Required EMS Courses**

EMS 113	EMT- Basic
EMS 120	Introduction to EMS systems
EMS 142	EMT- Basic Lab
-	Total

\*Students may substitute the two-semester equivalent of EMS 113 and 142 consisting of EMS 114, 115, 140 and 141. Students entering the program as licensed EMT-Basics may substitute 8 hours of approved electives, which may include EMS 143, 151 and 180, if not licensed as an EMT-Intermediate.

### **Paramedic Program Courses**

Paramedic program courses can be completed at any time in the program, so long as prerequisites are achieved, however, the courses must be completed in the sequence below in consecutive semesters, including one summer session.

—	<b>Semester I</b>	-
EMS 209	Introduction to Prehospital Advanced Life Support	2
EMS 210	Prehospital Pharmacology	3
EMS 211	Medical Assessment & Management I	3
EMS 212	Cardiovascular and Pulmonology Emergencies	4
EMS 241	Paramedic Lab I	2
EMS	Paramedic Clinical Rotation I	3

251		
-	Total	47
—	<b>Semester II</b>	-
EMS 220	Medical Emergencies	4
EMS 221	EMS Special Considerations & Operations	3
EMS 230	Medical Assessment & Management II	3
EMS 231	Trauma Emergencies	2
EMS 242	Paramedic Lab II	2
EMS 252	Paramedic Clinical Rotation II	4
-	Total	48
—	<b>Semester III</b>	-
EMS 243	Paramedic Capstone	2
EMS 254	Paramedic Field Internship	4
-	Total	6
—	Paramedic Program Total	44
—	<b>Additional Required EMS Courses</b>	-
EMS 470	EMS Research and Analysis	3
-	Total	3

### Curriculum for Pre-Paramedic

All students wanting a BS in EMS will take the following courses:

First Year		
ENGL 101	Composition I: Exposition	3
ENGL 102	Composition II: Analysis and Argument	3



Soc/Behav Sci	(Core Area 4)	6
Humanities	(Core Area 5)	6
CHEM 121/123L	General Chemistry I/Lab	4
BIOL 123/124L	Biology for Health Related Sciences and Non-Majors/Lab	4
MATH 121	College Algebra	3
STAT 145	Introduction to Statistics	3
Fine Arts	(Core Area 7)	3
		35
<b>Second Year</b>		
BIOL 237/L	Human Anatomy and Physiology I for the Health Sciences/Lab	4
BIOL 238/L	Human Anatomy and Physiology II for the Health Sciences/Lab	4
Foreign Language	(Core Area 6)	3
Writing/Speaking	(Core Area 1)	3
		14
<b>Prerequisite Classes</b>		
EMS 113	EMT-Basic	8
EMS 142	EMT-Basic Lab	2
EMS 200	Medical Mathematics	1
		11
<b>Pre-Paramedic Total</b>		<b>60</b>

### Required Paramedic Courses (Courses will be arranged)

<b>Paramedic Didactic</b>		
EMS 309	Prehospital Medicine and Operations	3
EMS 310	Prehospital Pharmacology	3
EMS 311	Medical Assessment & Management	3
EMS 312	Cardiovascular and Pulmonology Emergencies	3
EMS 320	Medical Emergencies	3
EMS 321	Special Patient Populations	2
EMS 331	Trauma Emergencies	2
EMS 455	Disaster and Emergency Management	3
		19
<b>Paramedic Practical (Lab)</b>		
EMS 341	Paramedic Lab I	2
EMS 342	Paramedic Lab II	2
		4
<b>Paramedic Clinical</b>		
EMS 454	Paramedic Field Internship	4


EMS 351	Paramedic Clinical Rotation I	3
EMS 352	Paramedic Clinical Rotation II	4
		11
<b>Advanced Paramedic</b>		
EMS 400	Advanced Assessment	4
EMS 461	Advanced Pathophysiology	3
EMS 465	Advanced Paramedic Clerkship	4
		11
<b>Paramedic Research</b>		
EMS 469	Epidemiology and Statistics	3
EMS 470	EMS Research and Analysis (Capstone)	3
		6
<b>Paramedic Core Total</b>		<b>51</b>

### EMS Degree Electives

<b>Approved courses</b>	<b>Must complete 18 credit hours of approved electives</b>	<b>18</b>
<b>Concentration</b>	<b>International Mountain Medicine</b>	
EMS 403	Mountain Medicine	3
EMS 406	Mountain Medicine Lab I	3
EMS 405	Austere Medicine	3
EMS 404	Technical Rescue Course	3
EMS 407	Mountain Medicine Lab II	3
EMS 456	Social Dimensions of Disaster	3
		18
<b>Option</b>	<b>Students may choose coursework from the following</b>	
	Pre-Health Professional	
	Pre-Medical	
	Pre-Physicians Assistant	
	Fire Science	
<b>Degree total</b>		<b>132</b>

## MEMO

To: Steve McLaughlin, MD,  
Chair, Department of Emergency Medicine

From: Robert McDaniels, MS, NREMT-P   
Director, Emergency Medical Services Academy

Date: 10/01/2012

Subject: BS in EMS Catalog Changes to Major

---

### Changes made to General Education Requirements

- All general education and program requirements have been formatted to assist the student. This will help the students take the courses in the correct order and assist them to stay on a four year degree graduation plan.

### Modifications to Paramedic Cohort

- Changes of titles and credits to the core required paramedic program meet the new National Emergency Medical Services curriculum.
- Course number changes allow the paramedic program to be offered via Extended University distance education.

### Changes made to Fourth Year Requirement

- Changes to electives to support the unique format and growth of the International Accredited Mountain Medicine Program.
- New elective courses to support new paramedic certifications important for New Mexico communities.

### Budgetary and Faculty Load implications

- The changes proposed are a realignment of existing resources and does not require additional budgetary resources or additional faculty.