

Department of

Paramedicine

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<http://www.byui.edu/paramedicine/>

Program

Department of Paramedicine offers two degree choices.
 Bachelor of Emergency Services Administration (475)
 Applied Associates Degree in Paramedicine (356)

Bachelor of Emergency Services Administration (475)

The Bachelor of Emergency Services Administration degree is engineered to provide firefighter/ paramedics the enviable skill set to lead as chief administrators in either career civil service or private industry ambulance services. Be it fire service, emergency medical service or a combination department, the curriculum prepares the paramedic to engage in the operational aspects of administration with a proficiency in accounting, administrative law, and human resource relations and management.

The graduate is prepared at the Firefighter I and II and HAZMAT Awareness and Operations level; while simultaneously competent at the National Scope of Practice's Critical Care Paramedic level. Though every graduate has dual competencies in both the fire and paramedic disciplines, the paramedic portion of the degree is sequentially the last of the curriculum. The Bachelors degree includes 40 credits of foundation courses, 20 credits in Minor of Emergencies Services Management, 54 credits in Paramedicine and 6 Critical Care credits. If you chose this degree you must still complete the prerequisites for the Paramedic Program, apply, and be accepted into the Paramedic Program.

Applied Associates Degree in Paramedicine (356)

The Paramedicine degree's intent is to prepare graduates for National Registry of Emergency Medical Technicians Paramedic certification and licensure in most States. Course work follows the U.S. Department of Transportation model.

BIO 264, BIO 265, MATH 108 or higher, CHEM 101, and PARA 181 are prerequisites to admission to the Paramedic program. The prerequisites and all foundations course requirements can normally be completed in two semesters. Concurrent enrollment in the required courses at time of application for admission to the Program is allowed. Application deadlines are November 15th for winter track and March 15th for Spring track. There is no fall track. Admission assumes students attend the next three semesters consecutively. Applications can be down loaded from <http://www.byui.edu/paramedicine/>.

Paramedicine

Brigham Young University-Idaho 2008-2009

BS in Emergency Services Administration (475)

Take required Foundations courses

Major Requirements

No Double Counting of Major Courses

<i>Take these courses</i>		<i>Cont. from previous column</i>	<i>Take 1 course:</i>	<i>Take these courses:</i>	<i>Program Notes:</i>			
BIO 264	4	PARA 292	1	ACCTG 180		3	PARA 494	2
BIO 265	4	PARA 360	6	ACCTG 201		<u>3</u>	PARA 495	2
CHEM 101	4	PARA 370	3			3	PARA 496	1
PARA 181	7	PARA 378	6	<i>Take 1 course:</i>			PARA 497	<u>1</u>
PARA 241	1	PARA 387	1	GS 107		1		6
PARA 242	1	PARA 488	3	RM 223 A-F, J, K		2		
PARA 250	1	PARA 498	<u>1-6</u>	RM 223 G		<u>4</u>		
PARA 251	1		54			1		
PARA 256	1			<i>Take these courses:</i>				
PARA 257	1			B 370		3		
PARA 262	1			MA 106		2		
PARA 264	1			PARA 171		5		
PARA 274	1			PARA 199		3		
PARA 280	3			SOC 357		<u>3</u>		
PARA 285	1					16		
PARA 291	1							
<i>Cont. next column</i>								

Total Major Credits=80

This major is available on the following tracks:

Fall-Winter---- YES

Winter-Spring---- YES

Spring-Fall---- YES

AAS in Paramedicine (356)

Take required Foundations courses

Major Requirements

No Double Counting of Major Courses

<i>Take these courses</i>		<i>Cont. from previous column</i>	<i>Program Notes:</i>
BIO 264	4	PARA 274	1
BIO 265	4	PARA 280	3
CHEM 101	4	PARA 285	1
PARA 181	7	PARA 291	1
PARA 241	1	PARA 292	1
PARA 242	1	PARA 360	6
PARA 250	1	PARA 370	3
PARA 251	1	PARA 378	6
PARA 256	1	PARA 387	1
PARA 257	1	PARA 488	3
PARA 262	1	PARA 498	<u>1-6</u>
PARA 264	1		54
<i>Cont. next column</i>			

Total Major Credits=54

This major is available on the following tracks:

Fall-Winter---- NO

Winter-Spring---- YES

Spring-Fall---- YES

Minor in Emergency Services Management (201)

Minor Requirements

No Grade Less Than C- for Minor Courses

<i>Take these courses</i>		<i>Take 1 course:</i>		<i>Program Notes:</i>
B 370	3	ACCTG 180	3	
MA 106	2	ACCTG 201	<u>3</u>	
PARA 171	5		3	
PARA 199	3			
SOC 357	<u>3</u>	<i>Take 1 course:</i>		
	16	GS 107	1	
		RM 223 A-F, J, K	2	
		RM 223 G	<u>4</u>	
			1	

Total Minor Credits=20

This minor is available on the following tracks:

Fall-Winter---- YES

Winter-Spring---- YES

Spring-Fall---- YES

Course Descriptions

Credits*

- PARA 171 Fire Fighting I (5:4:3)**
 Fee: \$150.00
 Students will be provided with the information needed to become certified as a Firefighter Level I. Classes and hands-on experience in the areas of scene safety, fire behavior, building construction, fire ground search & rescue, fire extinguishment, and fire prevention.
 (Fall, Spring)
- PARA 181 EMT Basic (7:6:4)**
 Fee: \$280.00
 Emergency Medical Technician training designed to qualify students to become ambulance attendants at the Basic Level upon passing the National Registry of Emergency Technicians-Basic written and practical exams. Class includes "hands on" training with practical evaluations of knowledge and skills.
 (Fall, Winter)
- PARA 199 Firefighter II/Hazmat Operations (3:3:0)**
 Prerequisite: Para 171
 Overview of the responsibilities of the Fire Fighter II. Emphasis is placed on understanding and utilizing fire department leadership to accomplish fire suppression. Hazmat operations is also taught during the course.
 (Fall, Spring)
- PARA 241 Professional Seminar I (1:0:0)**
 Designed to offer credit in a specialty area where teaching, administrative or organizational experiences are provided for individual students in the area of Paramedicine. Includes local ambulance experience, doctors' seminars and participation in Basic EMT Lab.
 (Fall, Winter, Spring)
- PARA 242 Professional Seminar II (1:0:0)**
 Prerequisite: Para 241
 Designed to offer credit in a specialty area where teaching, administrative or organizational experiences are provided for individual students in the area of Paramedicine. Includes local ambulance experience, doctors' seminars and participation in Basic EMT Lab.
 (Fall, Winter, Spring)
- PARA 250 Assessment Based Management I (1:0:4)**
 Prerequisite: Concurrent registration in PARA 360. Four lab hours per week.
 Ambulance scenarios with assessment based management for trauma and medical patients. Situations move from field to ambulance to Emergency Department. Emphasis is on working with a partner and aggressive treatment and transport.
 (Winter, Spring)
- PARA 251 Assessment Based Management II (1:0:4)**
 Prerequisite: Concurrent registration in PARA 378.
 Ambulance scenarios with assessment based management for trauma and medical patients - adults, pediatric, & geriatric. Situations move from field to ambulance to Emergency Department. Emphasis is on team leader experience, scene control, use of personnel, aggressive treatment and transport.
 (Fall, Spring)
- PARA 256 Patient Assessment I (1:1:0)**
 Prerequisite: Para 181
 Students will be introduced to patient assessment principles including history taking, physical exam techniques, patient assessment in the field, clinical decision making, medical communications, and documentation with emphasis being placed on the trauma and medical patient.
 (Winter, Spring)
- PARA 257 Patient Assessment II (1:1:0)**
 Prerequisite: Para 256
 Students will continue to learn advanced patient assessment principles including history taking, physical exam techniques, patient assessment in the field, clinical decision making, medical communications, and documentation with emphasis being placed on the trauma and medical patient.
 (Fall, Spring)

- PARA 262 Pharmacology (1:1:0)**
 Prerequisite: Para 360
 At the completion of this unit, the paramedic student will be able to integrate pathophysiological principles of pharmacologic management plan. The paramedic student will be able to safely and precisely access the venous circulation and use mathematical principles to administer medications. Modern emergency medical service (EMS) is based on sound principles, practice, and research. The paramedic of today must be knowledgeable in all aspects of prehospital emergency care. This course will be a cornerstone of EMS education to reflect current trends in prehospital care. Based on sound scientific principles, we have been careful to ensure that the course reflects the trends toward evidenced-based practice. However, practices and formularies are different among different regions of the country and among countries. We have attempted to make the course as comprehensive as possible. The knowledge and skills outlined in this course are best learned in the classroom, skills laboratory, clinical, and then the field internship settings.
 (Fall, Spring)
- PARA 264 Airway I (1:1:0)**
 Prerequisite: Concurrent registration in PARA 360. Permission only.
 Airway anatomy, physiology and management to include endotracheal intubation, combitube, LMA, PTL, EOA, EGTA tracheal suctioning, extubation, respiratory diseases and disorders with pharmacological management.
 (Winter, Spring)
- PARA 274 Trauma I (1:1:0)**
 Presentation, discussion and testing of all aspects of traumatic injuries involving pediatric, adult, and geriatric patients.
 (Spring)
- PARA 280 Cardiology I (3:3:0)**
 Prerequisite: Concurrent enrollment in Para 360, Paramedic majors only.
 Cardiovascular Anatomy, Pathophysiology, assessment and management of patients with cardiac related problems, ECG monitoring 1-3 lead, Advanced Cardiac Life Support, provider preparation.
 (Winter, Spring)
- PARA 285 EMS Operations I (1:1:2)**
 Mass Casualty Incident Command, HAZMAT Awareness, Search and Rescue Awareness.
 (Spring only)
- PARA 291 Paramedic Hospital Clinical I (1:0:7)**
 Prerequisite: Concurrent registration in PARA 360
 Hospital experience: Emergency Department, Operating Room, Intubations, IV Therapy, Labor and Delivery, Pediatrics, ICU/CUU, Cardiac Catheterization Lab, ECG, Post Anesthesia Recovery, Respiratory Therapy, Medical Floor, Geriatrics, Central Supply/Pharmacy, Rehabilitation and Behavioral Health. Must be taken for a minimum of 420 hospital hours. (May be taken more than one semester)
 (Winter, Spring)
- PARA 292 Paramedic Hospital Clinical II (1:0:7)**
 Prerequisite: Concurrent registration in PARA 378
 Hospital experience: Emergency Department, Operating Room, Intubations, IV Therapy, Labor and Delivery, Pediatrics, ICU/CUU, Cardiac Catheterization Lab, ECG, Post Anesthesia Recovery, Respiratory Therapy, Medical Floor, Geriatrics, Central Supply/Pharmacy, Rehabilitation and Behavioral Health. Must be taken for a minimum of 420 hospital hours. (May be taken more than one semester)
 (Fall, Spring)
- PARA 360 Preparatory (6:4:8)**
 Prerequisite: BIO 264, BIO 265, Chem 101, FDMAT 108, Para 181.
 Preparatory fundamentals to include; EMS Systems, Roles & Responsibilities, Well Being, Injury & Illness Prevention, Medical & Legal Issues, Ethics, Pathophysiology, Pharmacology, Venous Access, Medication Administration, Therapeutic Communications, Documentation, Life Span Development, Patient Assessment. Paramedic training in field and hospital pharmacology, medication administration, Intravenous and Fluid Therapy, Endotracheal, Digital, Transilluminated Intubation, Needle and Surgical Cirocathyrotomy, Patient Assessment and Management - Trauma and Cardiac, Advanced Cardiac Life Support practice.
 (Winter, Spring)

- PARA 370 Special Considerations (3:3:0)**
Prerequisite: PARA 360.
Assessment and management of neonate, pediatric, geriatric, special patients, challenged patients, and abused and assaulted patients. Includes: Pediatric Advanced Life Support Provider Certification Preparation and Critical Care and Acute Interventions in the home care patient.
(Fall, Spring)
- PARA 378 Medical Emergency (6:4:8)**
Prerequisite: Majors Only
Pathophysiology, assessment and management of patients with medical disorders and emergencies. Areas include: Neurology, Endocrinology, Allergies and Anaphylaxis, Gastroenterology, Renal/Urology, Toxicology, Hematology, Environmental Conditions, Infectious and Communicable Diseases, Behavioral/
Psychiatric Disorders, Gynecology and Obstetrics. Lab practice in MEGA-CODES and patient care in trauma, Cardiac and Medical Emergencies, Pediatric, and Geriatric.
(Fall, Spring)
- PARA 387 Cardiology II (1:1:0)**
Prerequisite: Majors Only
Pathophysiology assessment including 12 lead ECG evaluation and management of cardiac and respiratory emergencies. Includes etiology, signs and symptoms of compromise, clinical implications, treatment protocols, pharmacological & electrical interventions and termination of resuscitation, MEGA-CODE practice and patient assessment and management.
(Fall, Spring)
- PARA 488 Pathophysiology in Differential Diagnosis (3:6:4)**
Prerequisite: Majors Only
Critical Evaluation and Clinical Decision Making, Assessment and Management of Traumatic and Medical Emergencies, Differential Diagnosis.
(Fall, Winter)
- PARA 494 Critical Care Paramedic I (2:2:0)**
Prerequisite: Para 378, Majors Only
The first component of a four course series designed to teach the Idaho and National Critical Care Curriculum. Upon successful completion of all three components and the Critical Care Clinicals, students will receive a BYU-Idaho Critical Care Endorsement and Idaho Critical Care Paramedic Certification.
(Fall, Winter)
- PARA 495 Critical Care Paramedic II (2:2:0)**
Prerequisite: Para 378
Introduction and in-depth overviews of the skill sets required in Critical Care transports and monitoring.
(Fall, Winter)
- PARA 496 Critical Care III (1:1:0)**
Prerequisite: Para 378
Continued learning in the areas of daily operations and inter-agency relations.
(Fall, Winter)
- PARA 497 Critical Care Hospital Clinical (1:1:0)**
Prerequisite: Para 291, Para 292
Skills discussed in Critical Care Modules 1-3 will be practices in the hospital setting: OR, ER, ICU, and Cardiac Care Unit.
(Fall, Winter)
- PARA 498 Paramedic Ambulance Internship (1-6:0:0)**
Prerequisite: Paramedic majors only.
Preceptor internship with 911 ambulance services. Must be approved by the Paramedic Program Committee (480 hours minimum with 100 ALS calls).
(Fall, Winter, Spring)