

Department of

Paramedicine

**John Lewis, Director**

*Cody Anderson, Kathy Bergstrom, Alan Brower, Kimber Dameron, Joseph Haerberle, Steve Holley, Troyce Miskin, Kasandra Parker, Jason Thayne Jean Hardy, Secretary (208) 496-1333
<http://www.byui.edu/paramedicine/>*

Paramedicine is designed for those who desire to become Paramedics who intend to take the examinations necessary to certify through the National Registry of Emergency Medical Technicians. Course work is approved for those wanting Idaho certification and who can satisfy the necessary requirements.

Prerequisites and general education for this program can be accomplished in two semesters previous to entering the program. Starting Summer of 2004 the Paramedic Program will be offered on two tracks. Students can choose between Winter/Summer or Summer/Fall. Fall/Winter students will have to switch to another track. Applications to the program must be handed in no later than Nov. 15th for Winter/Summer and Mar. 15th for Summer/Fall track. Applications can be down loaded from the Paramedicine web-site. Pre-requirements must be completed or in the process when the candidate makes application. If the prerequisite year is completed at BYU-Idaho, the following course work is suggested

Paramedicine

Brigham Young University-Idaho 2007-2008

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AAS in Paramedicine

Basic Education Requirements

I. Communication:	II. Computation:	III. Human Relations:	IV. Related Skills:	Religion Requirement:
<i>Take 1 Course</i>	<i>Take 1 Course</i>	<i>Take 1 course</i>	<i>Take 1 Course</i>	<i>Take 4 Credits</i>
ENG 111 3	MATH 108 3	PSYCH 111 3	CIT 140 3	REL 121 2
ENG 111C 3	MATH 110 3	PSYCH 201 3	COMM 102 3	REL 122 2
	MATH 112 4	SOC 111 3	COMM 150 3	REL 221 4
	MATH 221 3	SOC 112 3	ENG 311 3	AND
		SOC 357 3	ENG 311C 3	<i>Take 3 Credits</i>
			ENG 312 3	REL 100 2
			ENG 312C 3	REL 130 2
			ENG 316 3	REL 211 3
			ENG 316C 3	REL 234 2
			ENGRT 125 3	REL 261 2
			SIGN 101 3	REL 264 2
				REL 301 3
				REL 301H 3
				REL 302 3
				REL 302H 3
				REL 324 3
				REL 333 2
				REL 341 2
				REL 342 3
				REL 351 2
				REL 352 2
				REL 370 2
				REL 431 2
				REL 471 3
				REL 475 2

Total Basic Skills Credits=18

Major Requirements

No Double Counting of Major Courses

<i>Take these courses:</i>		<i>Program Notes:</i>	
BIO 264 4	PARA 270 3	<i>Students must maintain a B- grade or above in each paramedic (PARA) class to be assured continued enrollment in the program.</i>	
BIO 265 4	PARA 274 1		
CHEM 101 4	PARA 278 4		
PARA 181 6	PARA 280 3		
PARA 241 1	PARA 285 1		
PARA 242 1	PARA 287 1		
PARA 250 1	PARA 288 3		
PARA 251 1	PARA 291 1		
PARA 256 1	PARA 292 1		
PARA 257 1	PARA 298R 1-6		
PARA 260 4	49		
PARA 262 1			
PARA 264 1			

Total Major Credits=49

This major is available on the following tracks:

Fall-Winter---- NO	Winter-Summer---- YES	Summer-Fall---- YES
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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, Winter)

PARA 181 EMT-Basic (6:6:4)
 Fee: \$280.00
 Emergency Medical Technician training design to qualify student 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 184 EMT - Review (2:0:0)
 Fee: \$70.00
 National refresher and review of basic skills and didactic work. National EMT Ambulance exams given upon completion.
 (Fall, Winter, Summer)

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, Summer)

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, Summer)

PARA 250 Assessment Based Management I (1:0:4)
 Prerequisite: Concurrent registration in PARA 260. 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.
 (Summer, Winter)

PARA 251 Assessment Based Management II (1:0:4)
 Prerequisite: Concurrent registration in PARA 278.
 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, Summer)

PARA 252 Advanced EMT & Paramedic Review (2:0:0)
 Fee: \$100.00
 Prerequisite: Current certification as a Basic EMT and course completion for EMT-I or EMT-P. Permission only. 48 hours - time arranged.
 Refresher and preparation for National Registry Paramedic or Intermediate Exams.
 (Fall, Winter, Summer)

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, Summer)

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, Summer)

PARA 260 Preparatory (4:4:8)
 Fee: \$135.00
 Prerequisite: BIO 264, BIO 265, Chem 101, Math 108.
 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 Trocarotomy, Patient Assessment and Management - Trauma and Cardiac, Advanced Cardiac Life Support practice.
 (Winter, Summer)

PARA 262 Pharmacology (1:1:0)
 Prerequisite: Para 260
 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, Summer)

PARA 264 Airway I (1:1:0)
 Prerequisite: Concurrent registration in PARA 260. 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, Summer)

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PARA 270 Special Considerations (3:3:2)

Prerequisite: PARA 260.

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, Summer)

PARA 274 Trauma I (1:1:0)

Prerequisite: Concurrent registration in PARA 260.

Presentation, discussion and testing of all aspects of traumatic injuries involving pediatric, adult, and geriatric patients.
(Winter, Summer)

PARA 278 Medical Emergency (4:4:8)

Fee: \$459.00

Prerequisite: Para 260.

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.

PARA 280 Cardiology I (3:3:0)

Cardiovascular Anatomy, Pathophysiology, assessment and management of patients with cardiac related problems, ECG monitoring 1-3 lead, Advanced Cardiac Life Support, provider preparation.
(Winter, Summer)

PARA 285 EMS Operations I (1:1:2)

Prerequisite:

Mass Casualty Incident Command, HAZMAT Awareness, Search and Rescue Awareness.
(Summer only)

PARA 287 Cardiology II (1:1:0)

Prerequisite: Para 280.

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, Summer)

PARA 288 Differential Diagnosis/Clinical Decision/Lab (3:6:8)

Prerequisite: Para 260, 278

Critical Evaluation and Clinical Decision Making, Assessment and Management of Traumatic and Medical Emergencies, Differential Diagnosis.
(Fall, Winter)

PARA 291 Paramedic Hospital Clinical I (1:0:7)

Prerequisite: Concurrent registration in PARA 260

Hospital experience: Emergency Department, Operating Room, Intubations, IV Therapy, Labor and Delivery, Pediatrics, ICU/CCU, 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, Summer)

PARA 292 Paramedic Hospital Clinical II (1:0:7)

Prerequisite: Concurrent registration in PARA 278

Hospital experience: Emergency Department, Operating Room, Intubations, IV Therapy, Labor and Delivery, Pediatrics, ICU/CCU, 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)

PARA 298R Paramedic Ambulance Internship (1-6:0:0)

Fee: \$100

Prerequisite: PARA 241, 242, 250, 251, 260, 264, 270, 274, 278, 280, 285, 287, 288, 291, 292. 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, Summer)