



H EDU 5970-001 (H EDU 57-001) Advanced EMT Training
Fall Semester Monday and Wednesday from 18:00 to 22:00
Spring Semester Tuesday and Thursday from 18:00 to 22:00
6 credit hours

Instructor: Chris Stratford, MS, BSN, RN, NRP

Contact information: chris.stratford@health.utah.edu or 801.581.2305 (office)

Office Hours/Location: One hour before class and by appointment in the annex

Medical Director: Ian Buchanan, MD

Prerequisites:

Students must have current certification in the State of Utah as an Emergency Medical Technician prior to the first day of class. You must have current AHA Healthcare Provider BLS Cardiopulmonary Resuscitation or equivalent certification. You must provide a copy of your EMT certification card, your BLS card and your government issued ID (both sides of each) on **within the first three weeks of class** or you will forfeit State Certification. If your card(s) expires prior to the last day of this class, it is your responsibility to provide a copy of your updated card(s) prior to the last day of class or you will not be recommended for State Certification.

Required Materials:

Advanced Emergency Care and Transportation of the Sick and Injured, Second Edition 2012, Jones and Bartlett Publishers; Sudbury, MA; ISBN 13:9781449600815

Course Description

This course is intense and demands considerable involvement on your part. It builds on the training and experience established as an Emergency Medical Technician and prepares participants for certification as an Advanced EMT. The course is based on the 2010 NHTSA Advanced EMT Instructional Guidelines which build on the Emergency Medical Responder and EMT instructional guidelines. Students are encouraged to download these guidelines for use during the course. They can be found at www.ems.gov.

Student Learning Outcomes:

By the end of this course, you will be able to:

- Apply fundamental knowledge of the EMS system, safety and wellbeing of the AEMT; human growth and development and aging; pharmacology; and transportation relating to their provision of prehospital care through lectures, classroom discussions and online activities.
- Incorporate foundational knowledge of anatomical terms, medical terms and abbreviations in written and oral communications with colleagues during simulated patient assessment scenarios.
- Discuss comprehensive anatomy, physiology and pathophysiology in classroom discussions and online activities and apply their knowledge to the assessment and

treatment of acutely or chronically ill patients within their scope of practice. Written examinations and quizzes will be used to assess this knowledge.

- Apply fundamental knowledge of treatments, medications and interventions used to care for acute or chronically ill patients to the application of psychomotor skills necessary to function as an advanced level EMS provider. Their knowledge and ability will be assessed during psychomotor skills examinations.

Teaching and Learning Methods:

The Advanced EMT Course builds on the previous knowledge and experienced you have obtained as an EMT. There will not be time in class to review the core foundation of EMT knowledge and skills. Lectures will focus on advancing your current knowledge to that expected of an advanced prehospital provider. Should you find yourself lacking in this foundational knowledge, additional time outside of class will be expected of you to come prepared for the activities of the day. Examinations, both written and practical, will be based on information presented in lecture and/or lab sessions and obtained from the reading and other assignments both in and out of class. You are expected to participate in discussion sessions, group activities, online lessons and activities and class projects to be considered for National/State licensure.

The practical sessions of this class will combine the material given in lecture with practical demonstrations and instruction in the performance of required skills on mannequins and other students. These together with your previous experience obtained as an EMT will set the core of your skills as an advanced prehospital provider. Proficiency in EMT skills is required. Participation in practical lab sessions is voluntary, unless you are seeking NREMT Certification or State Licensure, in which case participation is mandatory. Participation in practical lab sessions have some inherent risks. This course involves strenuous physical activity, the possible exposure to body fluids (including blood), subcutaneous and intramuscular injections, and intravenous cannulation on you and/or your fellow students; performance of these activities, may be outside or under less than ideal circumstances.

There are no field or clinical requirements for this course.

Course Policies:

The University of Utah prohibits requiring attendance as a factor in your grade. The best way to obtain competency is through attending class. Review guides, exam structure, and changes to the course will be announced in class and on Canvas however they will be discussed only in class. *It is the policy of the Department of Health Promotion and Education that students who miss the first two class periods of the semester or the first class period of a once-a-week class without prior notification to the instructor may be dropped from the course by the instructor. Completion of the withdrawal process is the responsibility of the student.*

Students are expected to behave professionally in all aspects of this class according to the [Code of Student Rights and Responsibilities](#). Students are expected to arrive on time and turn phones to off or vibrate so as not to disturb the presenter or other students. Dress appropriately for class, there are many times when we will be rolling around on the floor, working outside or under less than ideal conditions similar to what EMS providers may work in. This course frequently refers to the previous knowledge and experienced you have obtained as

an EMT. Examinations will be based on information presented in lecture, from reading assignments and/or assignments found in Canvas. You are expected to participate in discussion sessions, group activities, and class projects as well as applying yourself to studying for the exams to perform well in the class. Students who engage in academic misconduct including cheating on tests, plagiarism (failure to put the exact words of another author in quotation marks, even if you do cite the author by name), fraud, theft, and harassment, will not be tolerated in any form; occurrences will be reported to the Dean of Student's Office for appropriate disciplinary action according to University Policy 6-400 www.admin.utah.edu/ppmanual/8/8-10.html .

Students who successfully complete all course, State and NREMT requirements will be recommended for Utah licensure and NREMT certification by the course coordinator and the medical director. Requirements for recommendation include but are not limited to completing application as an AEMT with the state of Utah Bureau of EMS, registering with the NREMT, and payment of applicable fees to Utah BEMS and NREMT. **State application (not NREMT) and fees are due within three weeks of the beginning of class to allow the BEMS time to process your application.** Licensure in Utah requires successful completion of NREMT written and psychomotor testing. Please keep in mind that because you are recommended by the medical control physician and the course coordinator for licensure, it does not guarantee you are eligible for licensure or that you are guaranteed State licensure or NREMT certification.

At the end of each course the University of Utah will host and coordinate a NREMT Advanced Psychomotor Skills Exam. This exam is not included in the course fees. Students are not required to attend this exam as they may attend any NREMT Advanced Psychomotor Exam in the US. All NREMT Advanced Psychomotor exams are similar around the country. The cost of this exam and the cost of the NREMT Cognitive exam are the responsibility of the student. See the NREMT website (www.nremt.org) for additional details.

The [Utah Bureau of Emergency Medical Services](http://www.health.utah.gov/ems/) (BEMS) regulates the provision of EMS services, training and licensure of EMT's in Utah at all levels of care. If you have questions or concerns after licensing, you should contact your agency training officer or the BEMS directly. The Bureau is part of the Utah Department of Health, Division of Health Systems Improvement. They are located at 3760 S Highland Dr., Floors 4 & 5, Salt Lake City UT. Correspondence should be directed to Utah State Bureau of Emergency Medical Services, P.O. Box 142004, Salt Lake City, Utah 84114-2004. They can be reached at 801-273-6666. Their web site is <http://health.utah.gov/ems/>.

Grading Criteria:

All students regardless of certification status, credit/no-credit status, or seeking initial certification or recertifying are expected to take all scheduled written and practical quizzes/examinations and complete in class and online assignments and discussions. Written and practical quizzes/examinations will be based on information from NHTSA Instructional Guidelines, State Protocols, the current required course text, and material (both didactic and practical) presented in class or through the course online learning system. All exams will be given in class. No early, late or makeup exams.

A final course grade for the class will be determined using the following criteria. Five written quizzes with 50 questions worth 100 points, will be averaged together to determine

25% of the grade. Six quizzes will be given, each covering specific sections/modules of the course with the quiz with the lowest score dropped. The final comprehensive exam, 100 questions worth 100 points will be given during finals week and include all material presented in the course. This will be 25% of the grade. A final practical skills exam, also 25% of the grade, will be given in class to determine psychomotor competency. 25% of the grade is determined through class participation in the form of 10 discussions and/or assignments given in class or through Canvas, each worth 10 points making a total of 100 points. These criteria will be used to determine eligibility for certification and a grade for the class using the following table:

	A	93 – 100	A-	91 – 92	
B+	88 – 90	B	85 – 87	B-	82 – 84
C+	79 – 81	C	74 – 78	C-	71 – 73
D+	69 – 70	D	67 – 68	D-	64 – 66
	E	0 – 63			

Course Schedule:

Day 01	Course Introduction and Overviews, EMS Systems, Research, Workforce Safety and Wellness Online Lectures – 2 hours	Chapters 1, 2
Day 02	Documentation, EMS System Communication, and Therapeutic Communication, Medicolegal Issues Online Lectures – 2 hours	Chapters 3, 4
Day 03	Anatomy and Physiology, Medical Terminology, Pathophysiology, and Life Span Development	Chapters 5, 6
Day 04	Exam 01 Public Health, Principles of Pharmacology Online Lectures – 4 hours	Chapters 1-6 Chapters 7, 8
Day 05	Medication Administration Emergency Medications Online Lectures – 2 hours	Chapters 7, 8
Day 06	Intravenous Access Practical Skills Lab Medication Administration Practical Skills Lab	
Day 07	Patient Assessment Lecture Monitoring Devices Online Lectures – 1 hour	Chapter 9
Day 08	Patient Assessment Lecture Continued Monitoring Devices Continued	Chapter 9
Day 09	Exam 02 Airway Management, Respiration and Artificial and Ventilation Lecture Online Lectures – 3 hours	Chapter 10
Day 10	Airway Management, Respiration and Artificial and Ventilation Lecture Continued	Chapter 10
Day 11	Patient Assessment Practical Skills Lab Airway Management Practical Skills Lab	
Day 12	Shock and Resuscitation Lecture	Chapters 11, 12

Day 13	Medical Overview Lecture Cardiovascular and Respiratory Emergencies Online Lectures – 2 hours	Chapters 13, 14, 15
Exam 03		
Day 14	Neurology, Abdominal/GI, Genitourinary/Renal Emergencies Online Lectures – 1 hour	
Day 15	Endocrine Emergencies, Hematology Online Lectures – 1 hour	
Day 16	Immunology and Infectious Dz Toxicology, and Psychiatric Emergencies Online Lectures – 1 hour	Chapters 10-15 Chapters 16,17, 18
Day 17	Gynecological, Non Traumatic Musculoskeletal Disorders, Diseases of the Eyes, Ears, Nose, and Throat Online Lectures – 1 hour	Chapters, 19 - 22
Day 18	IV Skills Practice Medical Assessment and Management Skills Lab	
Exam 04		
Day 19	Trauma Overview Bleeding, Soft Tissue Trauma Lecture Online Lectures – 1 hour	Chapters 15-22 Chapters 23-25
Day 20	Face and Neck, Head Spine Trauma Lecture Online Lectures – 2 hours	Chapters 26-27; 31
Day 21	Spring Break	
Day 22	Spring Break	
Day 23	Chest, Abdominal/Genitourinary Trauma Lecture Online Lectures – 3 hours	Chapters 28-30
Day 24	Orthopedic Trauma Environmental Emergencies Lecture Online Lectures – 1 hour	Chapters 28-30
Exam 05		
Day 25	Obstetrics and Neonatal Care Lecture Online Lectures – 1 hour	Chapters 23-31 Chapter 32
Day 26	Pediatric Emergencies Lecture Online Lectures – 2 hour	Chapter 33
Day 27	Trauma Emergencies Practical Skills Lab Pediatric Emergencies Practical Skills Lab	
Day 28	Final Practical Testing	
Day 29	Geriatrics, Patients with Special Challenges Lecture	Chapters 36-38
Day 30	Principles of Safely Operating an Ambulance, Vehicle Extrication, Air Medical Operations	Chapters 39-40
Exam 06		
Day 31	Incident Management, Multiple Casualty Incidents, Hazardous Materials Awareness Online Lectures – 1 hour	Chapters 32-40
Day 32	Practical Skills Remediation	
Day 33	Final Exam	
Day 34	NREMT Psychomotor Skills Exam – To be confirmed	

University Policies:

- 1. *The Americans with Disabilities Act.*** The University of Utah seeks to provide equal access to its programs, services, and activities for people with disabilities. If you will need accommodations in this class, reasonable prior notice needs to be given to the Center for Disability Services (CDS; <http://disability.utah.edu/>; 162 Olpin Union Building; (801)-581-5020). CDS will work with you and the instructor to make arrangements for accommodations. All written information in this course can be made available in an alternative format with prior notification to the CDS.
- 2. *Addressing Sexual Misconduct.*** Title IX makes it clear that violence and harassment based on sex and gender (which includes sexual orientation and gender identity/expression) is a Civil Rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, color, religion, age, status as a person with a disability, veteran's status or genetic information. If you or someone you know has been harassed or assaulted, you are encouraged to report it to the Title IX Coordinator in the Office of Equal Opportunity and Affirmative Action, 135 Park Building, 801-581-8365, or the Office of the Dean of Students, 270 Union Building, 801-581-7066. For support and confidential consultation, contact the Center for Student Wellness, 426 SSB, 801-581-7776. To report to the police, contact the Department of Public Safety, 801-585-2677(COPS).
- 3. *The Code of Student Rights and Responsibilities.*** The code, which specifies student rights as well as conduct involving cheating, plagiarism, collusion, fraud, theft, etc., is provided at <http://regulations.utah.edu/academics/6-400.php>.
- 4. *Wellness Statement.*** Personal concerns such as stress, anxiety, relationship difficulties, depression, cross-cultural differences, etc., can interfere with a student's ability to succeed and thrive at the University of Utah. For helpful resources contact the Center for Student Wellness, <http://wellness.utah.edu/>; 801-581-7776.