Emergency Services
Emergency Care (ESEC)

ESEC 1140
Emergency Medical Technician Basic
9:7:6 On Sufficient Demand
For first semester Fire Science students. Prepares students for certification as an Emergency Medical Technician-Basic through the Utah Bureau of EMS. Includes CPR, automatic defibrillation, patient assessment and treatment, legal issues, airway support, medical and trauma emergencies, emergency childbirth, pediatric emergencies and patient movement/transport. Course fee of $72 for materials/supplies applies.

ESEC 114A
Emergency Medical Technician-Part I
3:0:9 Fall, Spring, Summer
* Corequisite(s): ESEC 114B and ESEC 114C
Applies fundamental knowledge of the EMS system, safety and well-being of the EMT, medical and legal and ethical issues to the provision of emergency care. Prepares students for certification as an Emergency Medical Technician-Basic through the Utah Bureau of EMS. First of three courses required for EMT-Basic certification. May be delivered online.

ESEC 114B
Emergency Medical Technician-Part II
4:4:0 Fall, Spring, Summer
* Corequisite(s): ESEC 114A and ESEC 114C
Provides background information and knowledge about EMT kinesthetic skills, including medical assessments, trauma assessment, pharmacology, special patient populations, and EMS operations.

ESEC 114C
Emergency Medical Technician-Part III
2:0:6 Fall, Spring, Summer
* Corequisite(s): ESEC 114A and ESEC 114B
Demonstrates mastery of kinesthetic skills, including medical assessments, trauma assessment, pharmacology, special patient populations, and EMS operations. Course lab fee of $71 for supplies applies. Course fee of $176 for FISDAP study tools applies.

ESEC 1150
EMT Refresher Level I
2:1:2 On Sufficient Demand
* Prerequisite(s): ESEC 1140 OR (ESEC 114A and ESEC 114B and ESEC 114C)
Provides in-service refresher information to maintain EMT Level I certification based on the D.O.T. requirements for emergency medical technicians. Focuses on required EMT skill mastery. Course fee of $50 for materials, equipment, state services & testing applies.

ESEC 3060
Emergency Medical Technician-Advanced
9:7:6 Fall, Spring
* Prerequisite(s): EMT Level Certification and University Advanced Standing
Prepares students for certification as an Emergency Medical Technician-Advanced through the Utah Bureau of EMS. Includes life span development, advanced airway management, intravenous access, medication administration, cardiac rhythm interpretation and other advanced medical skills. Course lab fee of $107 for supplies applies. Course fee of $160 for certification materials applies.

ESEC 3110
Paramedic I
5:5:0 Fall, Spring
* Prerequisite(s): EMT-Basic Certification for one-year and University Advanced Standing; Departmental approval or completion of the following courses with a grade of C- or higher: ZOOL 1090 or higher, ENGH 1000 or higher, MAT 0990 or higher or ESFO 1350
* Corequisite(s): ESEC 3120, ESEC 3130, and ESEC 3140
Introduces the Emergency Medical Services system and the role of the paramedic. Covers pre-hospital instruction for the care of the sick and injured including lectures in EMS communication, medical and legal considerations and documentation. Includes anatomy and physiology of the human body as it applies to emergency care. Discusses proper sterile technique, scene evaluations, and patient assessments. Covers acid/base, fluid and electrolytes and fluid resuscitation, patient assessment and emergency treatment of the respiratory and abdominal systems. Requires individual written research projects with a review of literature pertaining to current coursework. Course fee of $449 for FISDAP study tools applies.

ESEC 3120
Paramedic I Lab
3:0:9 Fall, Spring
* Prerequisite(s): University Advanced Standing
* Corequisite(s): ESEC 3110, ESEC 3130, and ESEC 3140
Designed to allow hands-on practice and evaluation of the following skills: IV therapy, IO infusions, IM injections, SQ injections, oral and nasal intubation, thoracotomy, cricothyrotomy, defibrillation, transectaneous pacing, cardioversion, medication delivery, and patient assessment. Completers should be qualified to progress to the second semester program. Course fee of $143 for materials applies.

ESEC 3130
Paramedic II
7:6:3 Fall, Spring
* Prerequisite(s): University Advanced Standing
* Corequisite(s): ESEC 3110, ESEC 3120, and ESEC 3140
Discusses the Emergency Medical Services system and the role of the paramedic. Covers pre-hospital instruction for the care of the sick and injured including lectures in pharmacology, cardiac rhythm and monitoring, ACLS, patient assessment and emergency treatment for the cardiac system, central nervous system and musculo-skeletal system. Includes mechanism of injury, burns, and the assessment and treatment of trauma patients. Requires individual written research projects with a review of literature pertaining to current coursework. Course lab fee of $181 for materials/supplies applies.

ESEC 3140
Paramedic III
4:4:0 Fall, Spring
* Prerequisite(s): University Advanced Standing
* Corequisite(s): ESEC 3110, ESEC 3120, and ESEC 3130
Discusses the Emergency Medical Services system and the role of the paramedic. Covers pre-hospital instruction for the care of the sick and injured including lectures in diabetes, alcoholism, overdose and ingestion, and communicable diseases. Includes pediatrics (PALS), obstetrics, childbirth, care of the neonate, geriatrics, incident command system (ICS), interpersonal skills, and critical incident stress. Requirements also include individual written research projects with a review of literature pertaining to current coursework. Course Lab fee of $135 for materials/supplies applies.
ESEC 4110  
Paramedic IV  
6:5:3  
Spring, Summer  
* Prerequisite(s): ESEC 3110, ESEC 3120, ESEC 3130, ESEC 3140, and University Advanced Standing  
* Corequisite(s): ESEC 4120  
Discusses the Emergency Medical Services (EMS) system and the role of the paramedic within this system. Teaches the terms, definitions, concepts, pre-hospital care life, trauma life support, and skills of a Paramedic through lecture and hands-on experience. Includes landing zones and safety, high angle rescue, Life-Pack 10, street smarts, death, dying and grieving, handling rape and domestic violence, substance abuse, EVO training, auto extrication, and forensic medicine. Requires individual written reports reflecting current trends in EMS and demonstration of proficiency in professional patient care reports. Successful completers should be able to meet the requirements listed in the National Standard D.O.T. Paramedic curriculum and the qualifications defined in the Utah Paramedic Training Program Accreditation Standards. Additionally, students completing the required coursework will be recommended for testing with the National Registry of Emergency Medical Technicians Paramedic (NREMTP) for certification. Course fee of $120 for disposable/durable supplies applies.

ESEC 4120  
Paramedic Clinical Concepts  
6:0:18  
Spring, Summer  
* Prerequisite(s): University Advanced Standing  
* Corequisite(s): ESEC 4110  
Includes field-based experiences with Paramedic rescue, hospital emergency department, pediatric emergency department, intensive care units, aeromedical service, labor and delivery, and operating room to provide field experience. Requires individual written reports reflecting current trends in EMS and demonstration of proficiency in professional patient care reports. Successful completers should be able to meet the requirements listed in the National Standard D.O.T. Paramedic curriculum and the qualifications defined in the Utah Paramedic Training Program Accreditation Standards. Additionally, students completing the required coursework will be recommended for testing with the National Registry of Emergency Medical Technicians Paramedic (NREMTP) for certification. Course fee of $75 for materials and practical experience applies.

ESEC 4150  
Critical Care Emergency Medical Transport Program  
6:4:6  
On Sufficient Demand  
* Prerequisite(s): Department Approval and University Advanced Standing  
Brings paramedics and nurses together in an effort to bridge the gap between pre-hospital and hospital care. Prepares specialized care providers to have an understanding of both aspects of patient care, and to use that understanding to provide a higher level of care to critical patients during transport. Designed to prepare paramedics and nurses to function as members of a critical care transport team. Offers an understanding of the special needs of critical patients during transport, become familiar with the purpose and mechanisms of hospital procedures and equipment, and develop the skills to maintain the stability of hospital equipment and procedures during transport.