

# EMRGNCY MED SVCS-PARAMEDIC-AAS

## Program Overview

### Associate of Applied Science - Emergency Medical Services - Paramedic

#### Mission

To provide an accessible, student-centered, post-secondary paramedic education that prepares graduates for paramedic practice and ensures that patients within our communities receive a higher level of EMS care by paramedics trained with the highest standards.

#### Goal

Paramedic: "To prepare Paramedics who are competent in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains to enter the profession."

Advanced Emergency Medical Technician: "To prepare Advanced Emergency Medical Technicians who are competent in the cognitive (knowledge), psychomotor (skills) and affective (behavior) learning domains to enter the profession."

#### Student Learning Outcomes

Upon completion of the AAS or Certificate of Achievement Paramedic program, the graduate will have accomplished the following six program student learning outcomes:

- Demonstrate integration of cognitive knowledge, skills proficiency, and critical thinking skills as an entry level nationally registered paramedic.
- Apply therapeutic and professional communication skills when working with patients, patients' significant others, colleagues, other health care providers, and members of the community.
- Incorporate the professional attributes of integrity, empathy, self-motivation, self-confidence, communication, teamwork and diplomacy, respect, patient advocacy, and safe delivery of care into practice.
- Recognize the importance of research and scientific inquiry to promote continuous quality improvement in prehospital health care delivery.
- Recognize and acknowledge that the emerging roles and responsibilities of the paramedic include public education, health promotion, and participation in injury and illness prevention programs.
- Assume the role of leadership as an advanced life support provider and role model for other EMS providers.

Student achievement of the program learning outcomes is demonstrated through competencies that are comprised of the cognitive, affective, and psychomotor domains of learning. Students must be successful in each domain to complete the course. Competency statements at both the program and course level are used to evaluate students' achievement of course and program student learning outcomes.

#### Accreditation

This degree and certificate are approved by the State of Nevada. GBC is accredited by the Northwest Commission on Colleges and Universities.

The Great Basin College paramedic program is accredited by the Commission on Accreditation of Allied Health Education Programs ([www.caahep.org](http://www.caahep.org)) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP).

Commission on Accreditation of Allied Health Education Programs

25400 US Highway 19 N.

Suite 158 Clearwater, FL 33763 727.210.2350 [www.caahep.org](http://www.caahep.org)

To contact CoAEMSP:

8301 Lakeview Parkway Suite 111-312

Rowlett, TX 75088

214.703.8445

FAX 214.703.8992

<https://coaemsp.org/>

Great Basin College offers a eighteen-month program leading to an Associate of Applied Science in Emergency Medical Services—Paramedic, or a one-year program leading to a Certificate of Achievement in Emergency Medical Services—Paramedic. GBC is accredited by the Northwest Commission on Colleges and Universities (NWCCU).

## Emergency Med Svcs-Paramedic-AAS

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The paramedic student receives anatomy and physiology, pharmacology and medication administration instruction, as well as training in advanced medical skills. Extensive related course work and clinical and field experience are required. Paramedic education prepares the graduate to take the National Registry of Emergency Medical Technician (NREMT) examination and become certified as a nationally registered paramedic (NRP).

Enrollment in the program is limited, and students are only admitted in the fall semester. Selection is made using a point system. Points are awarded for general education courses. Additional points will be awarded for veteran applicants and students in the CTE pathway program. General education courses are not required for admittance into the program, but students with completed courses will have a higher point range for admittance. Students must have a passing grade of C or higher, in all courses, to receive additional points. Specific paramedic courses that are part of the program may not be taken prior to admission.

Students who do not have an ACT or SAT score and who have not started English and mathematics requirements, must complete the English and mathematics placement tests. There is no charge for these tests, and they must be taken prior to enrolling in prerequisite courses.

The placement tests are available at the Academic Success Center in Elko and at any GBC center. For more information and testing times, call 775.327.2247.

### **Year of admission to any Emergency Medical Services—Paramedic program determines catalog year and course requirements.**

Prerequisites to be completed prior to or during the semester in which application is made to the Associate of Applied Science or Certificate of Achievement in Emergency Medical Services—Paramedic program include:

- Nevada EMT or AEMT Certification.
- Complete a current Healthcare Providers CPR.

Questions about the AAS in Emergency Medical Services— Paramedic program or the application process can be directed to the School of Health Sciences and Behavioral Health at 775.327.2317.

### **Admission into any Emergency Medical Services— Paramedic Program**

Special application and admission requirements exist for EMS. Prospective students should:

- Apply for admission by completing the application for admission packet available online. Applications are available in January and must be submitted by May 1 at 5 p.m. for the fall semester.

#### **Return completed forms to:**

School of Health Science and Behavioral Health

Great Basin College

1500 College Parkway

Elko, NV 89801

College courses taken at another institution will be evaluated by the admissions and records office for transfer and acceptance. All courses must have been completed at a regionally accredited institution of higher education. All previous coursework must be submitted from the institution where it was completed as an official transcript. Transcript copies are not accepted. Upon successful completion of the program, graduates will have earned an Associate of Applied Science in Emergency Medical

Services—Paramedic or Certificate of Achievement— Emergency Medical Services—Paramedic Emphasis are eligible to take the National Registry of Emergency Medical Technician (NREMT) examination and become certified as a paramedic.

Graduation from this program is only one of the requirements and does not mean automatic licensure

as a paramedic. The NREMT may deny an applicant eligibility to sit for a certification examination, deny certification, suspend or revoke an individual's certification, or take other appropriate action with respect to the applicant's certification or recertification based on that applicant's criminal conviction. This policy applies to, and requires an applicant's disclosure of, all felony convictions and all other criminal convictions (whether felony or misdemeanor) relating to crimes involving physical assault, use of a dangerous weapon, sexual abuse or assault, abuse of children, the elderly or infirm, and crimes against property, including robbery, burglary, and felony theft. The policy does not apply to convictions for misdemeanor (other than the above-listed types of crimes), traffic violations (except DUI or reckless homicide/ manslaughter), theft or unlawful possession of a controlled substance.

### **Paramedic Program Requirements**

Students must provide evidence of a satisfactory physical examination within the preceding six months, validating the following psychomotor requirements:

- Assess clients through auscultation, percussion, palpation, and other diagnostic maneuvers.
- Manipulate equipment necessary to assist the individual, family, and/or group to desired outcomes.
- Lift and move individuals and/or groups of individuals to provide safe care and emergency treatment.
- Perform cardiopulmonary resuscitation.



**MATH 126      Precalculus I      3 Credits**

A third course in algebra that stresses polynomial, quadratic, rational, exponential, and logarithmic functions, including their graphs and applications; complex numbers; systems of equations; and basic operations with matrices and determinants, including Cramer's rule. It is recommended that students have completed prerequisites within two years of enrolling in this course.

**MATH 126E      Precalculus I Expanded      3 Credits**

Precalculus I Expanded with Co-requisite support: Includes equations, relations, functions, graphing; polynomial, rational, exponential, logarithmic, and circular functions with applications; coordinate geometry of lines and conics; analytic trigonometry; matrices and determinants; and binomial theorem. It is recommended that students have completed prerequisites within two years of enrolling in this course.

**STAT 152      Intro to Statistics      3 Credits**

Includes descriptive statistics, probability models, random variables, statistical estimation and hypothesis testing, linear regression analysis, and other topics. Designed to show the dependence of statistics on probability. It is recommended that students have completed prerequisites within two years of enrolling in this course.

**Science (one course required)**

**ANTH 102      Physical Anthropology      3 Credits**

Introduction to the study of how humans, Homo sapiens, have emerged as a species and come to dominate the planet by examining processes of human biological and cultural evolution. Topics include inheritance, the emergence of primates, fossil hominids, the development of technology, and biological variability among modern humans. Satisfies general education science.

**AST 101      General Astronomy      3 Credits**

An introductory examination of the solar system, stellar systems, and stellar and galactic evolution according to currently accepted concepts. Introduces astronomical instruments and light theory.

**BIOL 100      General Biology/Non Major      3 Credits**

Basic biological concepts, interpretation and application of scientific methods, and effects of biological advances on society. Core curriculum science course; cannot be used for credit toward field of concentration in biology.

**BIOL 190      Intro Cell/Molecular Biology      4 Credits**

Structure and function of cells. Major molecules of life; composition and physiology of cellular organelles; cell metabolism, reproduction, motility, and gene function of both plant and animal cells. Required for biology majors. Concurrent enrollment in a corresponding lab section is required for this course.

**CHEM 100      Molecules/Life Modrn Wrld      3 Credits**

Introduction to chemistry in its many forms and applications, physical and organic, with consideration of environmental and social issues. Includes laboratory activities.

**CHEM 121      General Chemistry I      4 Credits**

Fundamentals of chemistry including reaction stoichiometry, atomic structure, chemical bonding, molecular structure, states of matter, and thermochemistry.

**ENV 100      Humans and the Environment      3 Credits**

Introduction to the relationship of man and his environment. Current thinking and research concerning the impact of industrialization and urbanization on environmental quality, including the population explosion; the potential decline of the affluent society by the depletion of natural resources; the pollution of air, land surface, and water; and the public agencies and policies designed to solve environmental problems.

**GEOG 103      Physical Geog Earth Environmnt      3 Credits**

Physical elements of the earth's natural features and their significance to man. Topics include earth form and motion, landforms, weather, climate, vegetation, and soils. Four laboratory experiences required.

**GEOL 101      Exploring Planet Earth      3-4 Credits**

Fundamental principles of geology including tectonic and surficial processes, oceans, atmosphere, environmental applications, and resources. Includes a laboratory component.

**NUTR 121      Human Nutrition      3 Credits**

An introductory nutrition course for the beginning student. Course will center on the major nutrients and their roles in maintaining good health. Students will learn to recognize well-balanced diets and acquire shopping tips and preparation techniques for optimum utilization of food dollars. Class includes four required labs.

**PHYS 100      Introductory Physics      3 Credits**

A concise treatment of the basic principles of physics. Includes mechanics, matter, electricity, magnetism, heat, sound, light, relativity, and nuclear physics.

**PHYS 107      Technical Physics I      3 Credits**

Investigates traditional topics of physics. Topics include mechanics, electricity, basic solid state components, optics, gases, hydraulics, fluids, and thermodynamics. This course provides a basic understanding of how physical systems are related and their technical applications. Hands-on labs, demonstrations, and calculations are an integral part of the course.

**PHYS 151      Gen Physics I      4 Credits**

Primarily for students in arts and science. Topics include kinematics, energy and momentum conservation, rotational dynamics, thermodynamics, fluids, harmonic motion, and sound. Laboratory experiments illustrate many of these fundamental principles.

**U.S. and Nevada Constitutions:** HIST 101 and HIST 102 or PSC 101

**HIST 101 U.S. History to 1877 3 Credits**

Survey of U.S. political, social, economic, diplomatic, and cultural development from colonial times through Reconstruction. When taken with HIST 102 satisfies the GBC General Education American Constitutions and Institutions Requirement. HIST 101 and 102 need not be taken sequentially. Either class may be taken alone.

**HIST 102 U.S. History Since 1877 3 Credits**

Survey of U.S. political, social, economic, diplomatic, and cultural development from 1877 to the present. Course satisfies the Nevada Constitution Requirement. When taken with HIST 101 satisfies the GBC General Education American Constitutions and Institutions Requirement. Can be used to satisfy the Nevada Constitution Requirement for out-of-state transfer students who have previously satisfied the United States Constitution Requirement. HIST 101 and 102 need not be taken sequentially. Either class may be taken alone.

**PSC 101 Intro American Politics 3 Credits**

A survey of United States, national, state, and local governments with emphasis on the cultural aspects of the governing process. Satisfies the legislative requirement for the United States and Nevada Constitutions.

**Human Relations (one course required)**

**HMS 200 Ethics in Human Services 3 Credits**

Real life applications for personal and professional boundaries, beliefs, ethics, values, morals, and codes of conduct in human relationships using ethical decision-making, problem-solving, and critical-thinking activities are emphasized. This course may be repeated up to three times for continuing education credit. (Check with individual licensing boards prior to registering).

**PSY 208 Psy of Human Relations 3 Credits**

Explores the relationships between human beings and assists in the development of interpersonal communication skills which can be used personally and professionally.

**Humanities or Fine Arts (one course required)**

**ART 100 Visual Foundations 3 Credits**

A beginning art class that includes a survey of art and the basic components of design. The class explores visual concepts as they relate to the history of art through class presentations, discussions, and a variety of media. Students should plan for three hours of studio work outside the class.

**ART 101 Drawing I 3 Credits**

A disciplined foundation in drawing concepts based on visual observation skills.

**ART 107 Design Fundmntls I (2-D) 3 Credits**

Explores the fundamentals of design using various media focusing on 2-D design.

**ART 160 Art Appreciation 3 Credits**

Introduction to the visual arts, illustrating the place of art in its social and cultural setting.

**ENG 203 Intro to Literary Study 3 Credits**

Introduction to the elements of fiction, poetry, and drama used in the analysis of literature.

**ENG 205 Intro to Creative Writing 3 Credits**

A creative writing course designed to introduce students to the production of fiction and poetry.

**ENG 223 Themes of Literature 3 Credits**

Themes and ideas significant in literature.

**FIS 100 Introduction to Film 3 Credits**

Introduction to the historical development of film as art. Considers the development of cinematic techniques (i.e., cinematography, editing, sound, etc.), cinematic genres (i.e., the western, romantic comedy, etc.) and narrative elements (i.e., plot, character, conflict, etc.) as exemplified by the work of major American and international directors.

**FREN 111 First Year French I 3-4 Credits**

Development of language skills through practice in listening, speaking, reading, writing, and structural analysis. Language practice required.

**FREN 112 First Year French II 3-4 Credits**

A continuation of FREN 111. Language practice required.

**HIST 208 World History I 3 Credits**

Survey of world civilizations to 1600. Examines societies, cultures, and issues relative to Africa, the Americas, Asia, Europe, the Middle East and Oceania.

**HIST 209 World History II 3 Credits**

Survey of world civilizations since 1600. Examines historical societies, cultures, and issues relative to Africa, the Americas, Asia, Europe, the Middle East, and Oceania.

**HUM 101 Intro to Humanities I 3 Credits**

An introduction to humanities through a study of seven major arts including film, drama, music, literature, painting, sculpture, and architecture. Each of these arts is considered from the perspective of historical development, the elements used in creating works of art, meaning and form, and criticism and critical evaluation.

**HUM 210 Communicating Diversity 3 Credits**

Communicating Diversity is a lower division course designed to familiarize students with the fundamentals of diversity and how those are expressed through communication. Students will develop a deep understanding of the way in which we communicate race, gender, class, sexual orientation, nationality, religion, and physical/mental ability and how it impacts our daily lives. This course will take an intersectional approach to understanding diversity and seek communication strategies for inclusivity. Emphasis will be placed on defining and developing the critical thinking skills necessary to push past oppression, marginalization, and other issues centralized around diverse populations. Students will be encouraged to investigate and discover diversity issues, solutions, and concepts at the local and global level using case studies, current events, and other significant moments in history.

**MUS 101 Music Fundamentals 3 Credits**

Notation, terminology, intervals, and scales. Designed to furnish a foundation for musicianship. Recommended for teachers in public schools and all others desiring a basic music background.

**MUS 121 Music Appreciation 3 Credits**

The historical and cultural background of music and origins to the twentieth century.

**PHIL 101 Intro to Philosophy 3 Credits**

Basic problems in different areas of philosophy such as ethics, political theory, metaphysics, and epistemology.

**PHIL 102 Critical Thinking 3 Credits**

Covers non-symbolic introduction to logical thinking in everyday life, law, politics, science, advertising; common fallacies; and the uses of language, including techniques of persuasion.

**PHIL 135 Introduction to Ethics 3 Credits**

Introduction to Ethics: critical introduction to classical and modern ethical theories such as utilitarianism, deontology, and virtue ethics. Emphasis throughout on applying the theories in various contexts such as social, political, or interpersonal. The ultimate goal will be to allow students to clarify their own thinking and positions on important ethical issues confronting society today.

**SPAN 111 First Year Spanish I 3 Credits**

Development of language skills through practice in listening, speaking, reading, writing, and structural analysis. Language practice required.

**SPAN 112 First Yr Spanish II 3 Credits**

A continuation of SPAN 111. Language practice required.

**SPAN 211 Second Year Spanish I 3 Credits**

Considers structural review, conversation and writing, and readings in modern literature.

**THTR 100 Introduction to Theatre 3 Credits**

A survey of the basic principles, facts, and theories providing an understanding of the art of theatre. Course also includes a special focus on the practical technical aspects of the theatre and on live theatre experiences.

**THTR 105 Introduction to Acting I 3 Credits**

Examines acting fundamentals and focuses on development of vocal, physical, and creative tools to be used on stage.

**THTR 121 Stage Makeup 3 Credits**

This course focuses on the history of makeup and basic approaches to applying make-up for the stage and screen. Make-up supplies will be studied, as well as techniques for corrective, old-age, character, stylized, and special effects makeup.

**THTR 204 Theatre Technology I 3 Credits**

Lecture and discussion encompassing the philosophy and techniques of technical theatre.

**WELD 200 Metal Art 3 Credits**

This course is designed to give the student the basic understanding of two dimensional 2D and three-dimensional 3D metal art. Also covered in this course we will discuss different Cutting, Welding and metal finishing techniques that are used in this discipline as it relates to metal art.

**Technology** (Embedded into EMS curriculum)

**Program Requirements**  
**EMS 200 Fund Paramedic Medicine 3 Credits**

Information will be provided that defines the roles and responsibilities of the paramedic and the importance of scene safety and wellness when practicing in the field. The course also provides information on injury prevention and the use of protective equipment needed to protect the paramedic in the field. It will provide the student with an understanding of the medical-legal and ethical issues which will impact them in their career. At the completion of this course, the EMT-Basic skills will be assessed and reviewed.

**EMS 204      Princ Anatomy/Pathophysiology      4 Credits**

This course prepares the student to understand basic medical terminology, microscopic and gross anatomy and physiology. The course is designed to go beyond what is covered in the anatomy and physiology review of each section in the national standard curriculum. This course will be offered for 4 credits (3 credits of Lecture and 1 credit of Skills Lab).

**EMS 206      Prin Pharm/Medication/Venous      3-4 Credits**

This course prepares the student to understand and to be able to integrate the principles of pathophysiological pharmacology and the assessment findings to formulate a field impression and implement a pharmacologic management plan for patients in the prehospital environment. This course will be offered for 4 credits (3 credits of Lecture and 1 credit Lab).

**EMS 207      Airway Mgt/Vent Paramedic      2 Credits**

Students successfully completing this course will demonstrate a behavioral, cognitive, and psychomotor understanding of, and proficiency with, basic and advanced airway management. This course will be offered for 2.0 credits (1 credit theory/1 credit lab).

**EMS 209      Patient Assess Paramedics      2-3 Credits**

This course introduces the Paramedic student to a comprehensive physical examination and assessment, which includes history taking, clinical decision-making, communications, and documentation. This course will be offered for 2.0 credits (1 credit theory / 1 credit lab).

**EMS 210      Princple Cardlgy Paramdic      3 Credits**

This course prepares the Paramedic student to identify single and multi-lead cardiac rhythms and treat those rhythms considered to be life-threatening with electrical therapy. The skills taught include defibrillation, cardioversion, and cardiac rhythm interpretation. It will also prepare the student to assess, manage, and treat various cardiovascular emergencies that include ventricular fibrillation, bradycardia, tachycardia, myocardial infarction, cardiogenic shock, pulmonary edema, angina pectoris, congestive heart failure, hypertension, PEA (pulseless electrical activity), and asystole. This course will be offered for 3 credits (2 theory / 1 lab).

**EMS 211      Parmdc Care Md Emerg      3-4 Credits**

This course will prepare the Paramedic student to identify, assess, manage, and treat various medical emergencies and communicable diseases. Advanced Cardiac Life Support is required for healthcare providers who either direct or participate in the resuscitation of a patient in the prehospital or hospital setting.

**EMS 212      Para Trauma Emg/Intl Life      3 Credits**

This course prepares the student to identify, assess, manage, and treat various types of trauma emergencies. Topics include Trauma Systems; Mechanism of Injury; Soft-Tissue Trauma; Burns, Head and Face Trauma; Spinal Trauma; Thoracic Trauma; Abdominal Trauma; and Musculoskeletal Trauma. Skills include trauma assessment, splinting, bandaging, spinal immobilization, IV therapy, chest decompression, and associated pharmacological interventions.

**EMS 214      Pediatrics/Spcl Consider      3 Credits**

This course prepares Paramedic to identify, assess, manage, and treat age related emergencies and other special challenges. The student will also be introduced to the concept of assessment based management. Topics include Neonatology, Pediatrics, Geriatrics, Abuse and Assault, and Patients with Special Challenges.

**EMS 215      Assess Bsd Mgt/Op Paramed      3 Credits**

This course will contain the principles of Assessment Based Management that will teach the paramedic student how to implement a plan for patients with common complaints. The course will also prepare the Paramedic to the concepts of medical incident command, ambulance and rescue operations, hazardous materials, incident, and crime scene awareness.

**EMS 216      Hosp/Clinic Exp Paramedic      4-6 Credits**

This course allows the paramedic student to apply learned classroom skills and knowledge in the hospital and other clinical care environments. The student will function under the direction of a paramedic, nurse, or physician preceptor. This course will be offered for 6 credits (90 hours per credit = 270 clinical hours).

**EMS 219      Paramedic Field Intrnship      8 Credits**

This course is designed to introduce the paramedic student to Advanced Life Support (ALS) prehospital operations. The student will also become familiar with procedures and care provided by paramedics in the field. Each student will be a third person on a paramedic rescue unit and will work directly with a paramedic preceptor.

**Suggested Course Sequence**

**1st Semester - Fall**

Course	Credits
EMS 204	4
EMS 200	3
EMS 206	3
EMS 207	2
EMS 209	2
English/Communications*	3-5
Mathematics*	3-6

Course	Credits
TOTAL	23-28

\*Choose with advisor

## 2nd Semester - Winter

Course	Credits`
EMS 212	3
TOTAL	3

## 3rd Semester - Spring

Course	Credits
English/Communications*	3
EMS 211	3
EMS 214	3
EMS 215	3
EMS 216	6
TOTAL	18

## 4th Semester - Summer

Course	Credits
EMS 219	8
TOTAL	8

## 5th Semester - Fall

Course	Credits
Human Relations*	3
Science*	3
PSC 101	3
Fine Arts/Humanities*	3
TOTAL	12

### National Registered Paramedic Pathway

The Associate of Applied Science EMS—Paramedic pathway for nationally registered paramedics provides an alternative route for students who are already paramedics to obtain their AAS in EMS—Paramedic degree. Once admitted to the program and after the completion of the paramedic refresher course (EMS 220), those who are currently valid nationally registered paramedics may be awarded 26 credits through credit by examination. This reflects the cognitive

