

## EMSP 1112 - Paramedic Fundamentals Lab (4 Credits)

### Course Description

Paramedic Fundamentals Lab equips the student with the essential psychomotor skills of a paramedic. During this course, competency of EMT skills will be evaluated, and the student will be taught advanced assessment techniques, IV insertion and maintenance, medication administration techniques, airway management, advanced airway placement, cardiac evaluation, and additional skills for paramedic competency according to the National EMS Standards.

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### Course Objectives

- Identify and demonstrate effective scene safety and control
  - Properly perform measurement and recording of vital signs
  - Effectively initiate IV or IO access and maintain it
  - Demonstrate thorough patient assessments
  - Manage basic airway techniques without guidance
  - Perform advanced airway placement with limited oversight
  - Complete advanced airway management for complex airway situations
  - Demonstrate professionalism without scope of practice of psychomotor skills
  - Perform basic cardiac monitoring
  - Practice proper skill performance documentation
  - Work well integrating as part of an EMS team
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### Course Outline

- EMT Skills Review
- Patient Assessment
- Basic Airway Management
- Basic Cardiac Monitoring
- Intravenous (IV) Skills
- Advanced Airway Placement
- Beginning Medication Administration
- Medical Documentation
- Professionalism and Skills Pass-Offs

## Assignments and Assessments

### Instructor Resources

Lesson Plan: Lesson 42

Medication Math Skills Practice Handout: Lesson 42

Think Fast Cards: Lesson 42

Lecture Outline: Chapter 14

Lecture Outline: Chapter 15

### Required Resources

Lesson Guide: Lesson 42

Chapter 14 Medication Administration

Chapter 15 Emergency Medications

Watch the following videos:

Paramedic Medical Math Part 1

Paramedic Medical Math Part 2

Paramedic Medical Math Part 3

Review each of the following:

Skill Drills: Chapter 14

Skill Evaluation Sheets: Chapter 14

Complete the following:

Think Fast Handout: Lesson 42

Interactive Lecture: Chapter 14

Interactive Lecture: Chapter 15

Lesson 42: Medication Math Challenge

Medication Math Challenge Handout: Lesson 42

Lesson 42 Self Assessment

Scenario Role Cards: Lesson 42

Recommended Resources

Slides: Chapter 14

Slides: Chapter 15

Case Studies: Chapter 14

Case Studies: Chapter 15

Assessment in Action: Chapter 14

Flashcards: Chapter 14

### Recommended Videos

Drug Calculations by ACLS Certification Institute

Basic Pharmacology Math by the Practical Paramedic

EMS Skills: Intravenous Access

Arrow EZ-IO Infant Child Needle Selection and Insertion

Technique Animation Video

EZ-IO by Vidacare

EMS Skills: ALS Medication Preparation and Administration

Student-Facilitated Scenario Handout: Lesson 42

Evidence-Based Practice Toolkit for Nursing

Duke University - EBP Tutorial

PICOT\_ Questions\_ Template.pdf

PICO(T) Question Assignment

Johns Hopkins Nursing Evidence-Based Practice Evidence

Level and Quality Guide

Literature Review Outline Template.docx

Literature Review 1st Draft

Paramedic Olympic Games Participation

Can You Cannulate?

Med Administration and Circulation

Bag It ! Respiratory Lab

### Resiliency Residency

1st Term Sim Lab

Mock Courtroom Participation

Advanced Airways

Term Psychomotor Exam

Nervous, Urinary, Endocrine, Cardiology Assessment

### Assignment

### Instructor Resources

Lesson Plan: Lesson 24

Lecture Outline: Chapter 11

Required Resources

Lesson Guide: Lesson 24

Student-Facilitated Scenario Handout: Lesson 24

Scenario Role Cards: Lesson 24

Chapter 11 Patient Assessment

Recommended Resources

Slides: Chapter 11

Virtual Ride-Along Video: Situational Awareness

In-Class Scene Size-Up Reflection

### Instructor Resources

Lesson Plan: Lesson 23

Lecture Outline: Chapter 11

Required Resources

Lesson Guide: Lesson 23

Student-Facilitated Scenario Handout: Lesson 23

Scenario Role Cards: Lesson 23

Chapter 11 Patient Assessment

Recommended Resources

Slides: Chapter 11

### Instructor Resources

Lesson Plan: Lesson 25

Sort It Cards: Lesson 25

Lecture Outline: Chapter 11

Required Resources

Lesson Guide: Lesson 25

Skill Evaluation Sheets: Chapter 11

Skill Drills: Chapter 11

Student-Facilitated Scenario Handout: Lesson 25

Scenario Role Cards: Lesson 25

Chapter 11 Patient Assessment

Recommended Resources

Slides: Chapter 11

### Instructor Resources

Lesson Plan: Lesson 26

Sort It Cards: Lesson 26

Are You Listening? Handout: Lesson 26

Challenge Scenario: Lesson 26

Lecture Outline: Chapter 11

Lecture Outline: Chapter 12

Required Resources

Lesson Guide: Lesson 26

Student-Facilitated Scenario Handout: Lesson 26

Scenario Role Cards: Lesson 26

Chapter 11 Patient Assessment  
Chapter 12 Critical Thinking and Clinical Decision Making  
Recommended Resources  
Slides: Chapter 11  
Slides: Chapter 12  
Case Studies: Chapter 12  
Assessment in Action: Chapter 12  
Flashcards: Chapter 12  
End Of Course Survey  
Test Prep  
Virtual Ride-Alongs  
Virtual Ride-Along Video: COPD  
Virtual Ride-Along Video: Allergic Reaction  
Virtual Ride-Along Video: Altered Mental Status  
Virtual Ride-Along Video: Assault  
Virtual Ride-Along Video: Attempted Suicide  
Virtual Ride-Along Video: Cardiac Arrest  
Virtual Ride-Along Video: Difficulty Breathing  
Virtual Ride-Along Video: Fall in Apartment  
Virtual Ride-Along Video: Geriatric Altered Mental Status  
Virtual Ride-Along Video: GI Bleed  
Virtual Ride-Along Video: Mass-Casualty Incident Drill  
Virtual Ride-Along Video: Motorcycle Crash  
Virtual Ride-Along Video: Pediatric Trauma  
Virtual Ride-Along Video: Psychiatric Emergency  
Virtual Ride-Along Video: Respiratory Distress  
Virtual Ride-Along Video: Seizure  
Virtual Ride-Along Video: Weakness  
Skill Videos  
Skill Video: Apply Cervical Collar  
Skill Video: Bag-Mask Ventilation  
Skill Video: Bandaging Techniques  
Skill Video: Bronchodilator: Metered-Dose Inhaler  
Skill Video: Bronchodilator: Small Volume Nebulizer  
Skill Video: Epinephrine Auto-Injector  
Skill Video: Head Tilt-Chin Maneuver  
Skill Video: Intraosseous Access  
Skill Video: Intravenous Access  
Skill Video: Jaw-Thrust Maneuver  
Skill Video: Long Bone Injury  
Skill Video: Mouth-to-Mask Ventilation  
Skill Video: Nasopharyngeal Airway  
Skill Video: Nasotracheal Intubation  
Skill Video: Oral Medication Administration  
Skill Video: Oral Suctioning  
Skill Video: Oropharyngeal Airway  
Skill Video: Orotracheal Intubation by Direct Laryngoscopy  
Skill Video: Oxygen Administration by Nonrebreathing Mask  
Skill Video: Patient Lifting  
Skill Video: Recognition of an Airway Obstruction  
Skill Video: Seated Spinal Motion Restriction  
Skill Video: Spine Assessment  
Skill Video: Supine Spinal Motion Restriction  
Skill Video: Tongue-Jaw Lift Maneuver

Skill Video: Vital Signs Assessment  
Soft-Skill Simulations  
First Responder Support & Resilience, First Edition  
Interactive Lectures  
Case Studies  
Case Study Slides: Chapter 8  
Case Study Slides: Chapter 9  
Case Study Slides: Chapter 11  
Case Study Slides: Chapter 13  
Case Study Slides: Chapter 18  
Assessment in Action  
Assessment in Action: Chapter 8  
Assessment in Action: Chapter 9  
Assessment in Action: Chapter 11  
Assessment in Action: Chapter 13  
Assessment in Action: Chapter 18  
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Audio Book

Audio Book: Chapter 1  
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Audio Book: Chapter 3  
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Audio Book: Chapter 52  
Audio Book: Chapter 53

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*Subject to change. Please consult your Canvas course for the most current instructions and updates.*

## Classroom Hours

Start: 1-21-2025

End: 5-13-2025

Mo, Tu

2:00 PM - 6:00 PM

For a full list of course hours visit: [Course Schedule](#)

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## Instructor Contact Information

Nancy Small — [nsmall@stech.edu](mailto:nsmall@stech.edu)

Office Hours: By appointment

Email is the preferred method of communication; you will receive a response within 24 hours during regular business hours.

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## Canvas Information

Canvas is the where course content, grades, and communication will reside for this course.

- [stech.instructure.com](http://stech.instructure.com)
  - For Canvas passwords or any other computer-related technical support contact Student Services.
  - For regular Hours and Weekdays call (435) 586 - 2899.
  - For after Hours & Weekends call (435) 865 - 3929 (Leave a message if no response).
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## Course Policies

Course Grading: Students must demonstrate a minimum competence in all areas of the course with an 80% to be able to progress in the program. Any grade below a B- is considered failing the course.

Grade Scale: The following grading scale will be used to determine a letter grade.

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|-----------------|-----------------|-----------------|-----------------|
| • A : 94 - 100% | • B : 83 - 86%  | • C : 73 - 76%  | • D : 63 - 66%  |
| • A- : 90 - 93% | • B- : 80 - 82% | • C- : 70 - 72% | • D- : 60 - 62% |
| • B+ : 87 - 89% | • C+ : 77 - 79% | • D+ : 67 - 69% | • F : 0 - 59%   |

Course Policies: The preparatory nature of this course requires the student be actively involved and dedicated to learning the material and completing the coursework. Course content is foundational to the education of a paramedic. If there is difficulty with any of the information or concepts, please seek help early so that you can be assisted in attaining and assimilating the essential content. If a student has completed foundational courses in Anatomy, Physiology, English, and Math and demonstrates adequate retention and integration of content, OR passes the Fisdap Paramedic Entrance Exam with >80%, credit will be awarded and attendance of this course will be waived. This course does not contain any tests, but various assignments to assess understanding. Each writing assignment is awarded points according to how well the submission follows the requirements of the assignment and are graded according to the college writing guidelines. Math, Anatomy and Physiology assignments are graded on accuracy and correctness. The concepts in this course are essential to progress within the program, and the course is very brief. Therefore, 100% attendance is required. If there are extreme circumstances, contact the Program Director to discuss the situation. Be courteous to your other classmates and keep cell phone use to a minimum and take only necessary phone calls out in the hall.

## Additional Information

InformaCast Statement: Southwest Tech uses InformaCast to ensure the safety and well-being of our students. In times of emergency, such as weather closures and delays, this app allows us to promptly deliver notifications directly to your mobile devices. To stay informed and receive real-time updates, we encourage all students to sign up for notifications. Your safety is our priority, and staying connected ensures a swift response to any unforeseen circumstances. More information and directions for signing up are available at: <https://stech.edu/emergency-notifications/>

Internet Acceptable Use Policy: The student is expected to review and follow the Southwest Technical College Internet Safety Policy at: <https://stech.edu/students/policies/>

Student Code of Conduct Policy: The student is expected to review and follow the Southwest Technical College Student Code of Conduct Policy at: <https://stech.edu/students/policies/>

Accommodations: Students with medical, psychological, learning, or other disabilities desiring accommodations or services under ADA, must contact the Student Services Office. Student Services determines eligibility for and authorizes the provision of these accommodations and services. Students must voluntarily disclose that they have a disability, request an accommodation, and provide documentation of their disability. Students with disabilities may apply for accommodations, based on an eligible disability, through the Student Services office located at 757 W. 800 S., Cedar City, UT 84720, and by phone at (435) 586-2899. No diagnostic services are currently available through Southwest Technical College.

Safety and Building Maintenance: The College has developed and follows a variety of plans to ensure the safe and effective operation of its facilities and programs. The following plans are available online:

1) Facilities Operations and Maintenance Plan; 2) Technical Infrastructure Plan; and 3) Health and Safety Plan.

Withdrawals and Refunds: Please refer to the Southwest Technical College Refund Policy at: <https://stech.edu/students/policies/>

Any high school or adult student, who declares a technical training objective is eligible for admission at Southwest Technical College (Southwest Tech). Program-specific admissions requirements may exist and will be listed on the Southwest Tech website. A high school diploma or equivalent is not required for admission but is mandatory for students seeking Title IV Federal Financial Aid.

Non-Discriminatory Policy: Southwest Technical College affirms its commitment to promote the goals of fairness and equity in all aspects of the educational enterprise, and bases its policies on the idea of global human dignity.

Southwest Tech is committed to a policy of nondiscrimination. No otherwise qualified person may be excluded from participation in or be subjected to discrimination in any course, program or activity because of race, age, color, religion, sex, pregnancy, national origin or disability. Southwest Technical College does not discriminate on the basis of sex in the education programs or activities that it operates, as required by Title IX and 34 CFR part 106. The requirement not to discriminate in education programs or activities extends to admission and employment. Inquiries about Title IX and its regulations to STECH may be referred to the Title IX Coordinator, to the Department of Education, and/or to the Office for Civil rights.

If you believe you have experienced discrimination or harassment on our campus, please contact the Title IX Coordinator, Cory Estes: [cestes@stech.edu](mailto:cestes@stech.edu), (435) 865-3938.

For special accommodations, please contact the ADA Coordinator, Cyndie Tracy: [ctracy@stech.edu](mailto:ctracy@stech.edu), (435) 865-3944.

Southwest Technical College

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