



TEPA 1111 – Paramedic Fundamentals Lab (4 Credits)

Description

The Paramedic Fundamentals Lab course provides practical learning of skills and National Registry competencies including comprehensive patient assessment of adult and pediatric patients, history taking, medical assessment, advanced cardiac life support, advanced airway management, CPAP, ventilator use, IV insertion, medication administration, and IO insertion. Students demonstrate competency in the National Standard Curriculum. The course reinforces concepts and clinical skills students previously learned at the EMT level. It introduces advanced concepts in cardiology, airway management, respiratory distress, and resuscitation. Students learn to identify patient assessment and management within the paramedic's scope of care.

Course Objectives

- Demonstrate competency in performing head-to-toe patient assessment.
- Perform advanced airway management.
- Manage advanced cardiac care and recognize acute life-threatening situations.
- Identify and apply cognitive, psychomotor, and affective skills in a simulated out-of-hospital environment.
- Demonstrate and record performance in the NREMT lab portfolio.
- Integrate the pathophysiology, assessment, and management of the medical patient.
- Analyze advanced patient assessment findings and formulate management of these emergencies within the paramedic scope of practice.

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 & 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 byVidacare

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	Skill Video: Intraosseous Access
Instructor Resources	Skill Video: Intravenous Access
Lesson Plan: Lesson 26	Skill Video: Jaw-Thrust Maneuver
Sort It Cards: Lesson 26	Skill Video: Long Bone Injury
Are You Listening? Handout: Lesson 26	Skill Video: Mouth-to-Mask Ventilation
Challenge Scenario: Lesson 26	Skill Video: Nasopharyngeal Airway
Lecture Outline: Chapter 11	Skill Video: Nasotracheal Intubation
Lecture Outline: Chapter 12	Skill Video: Oral Medication Administration
Required Resources	Skill Video: Oral Suctioning
Lesson Guide: Lesson 26	Skill Video: Oropharyngeal Airway
Student-Facilitated Scenario Handout: Lesson 26	Skill Video: Orotracheal Intubation by Direct Laryngoscopy
Scenario Role Cards: Lesson 26	Skill Video: Oxygen Administration by Nonrebreathing Mask
Chapter 11 Patient Assessment	Skill Video: Patient Lifting
Chapter 12 Critical Thinking and Clinical Decision Making	Skill Video: Recognition of an Airway Obstruction
Recommended Resources	Skill Video: Seated Spinal Motion Restriction
Slides: Chapter 11	Skill Video: Spine Assessment
Slides: Chapter 12	Skill Video: Supine Spinal Motion Restriction
Case Studies: Chapter 12	Skill Video: Tongue-Jaw Lift Maneuver
Assessment in Action: Chapter 12	Skill Video: Vital Signs Assessment
Flashcards: Chapter 12	Soft-Skill Simulations
End Of Course Survey	First Responder Support & Resilience, First Edition
Test Prep	Interactive Lectures
Virtual Ride-Alongs	Case Studies
Virtual Ride-Along Video: COPD	Case Study Slides: Chapter 8
Virtual Ride-Along Video: Allergic Reaction	Case Study Slides: Chapter 9
Virtual Ride-Along Video: Altered Mental Status	Case Study Slides: Chapter 11
Virtual Ride-Along Video: Assault	Case Study Slides: Chapter 13
Virtual Ride-Along Video: Attempted Suicide	Case Study Slides: Chapter 18
Virtual Ride-Along Video: Cardiac Arrest	Assessment in Action
Virtual Ride-Along Video: Difficulty Breathing	Assessment in Action: Chapter 8
Virtual Ride-Along Video: Fall in Apartment	Assessment in Action: Chapter 9
Virtual Ride-Along Video: Geriatric Altered Mental Status	Assessment in Action: Chapter 11
Virtual Ride-Along Video: GI Bleed	Assessment in Action: Chapter 13
Virtual Ride-Along Video: Mass-Casualty Incident Drill	Assessment in Action: Chapter 18
Virtual Ride-Along Video: Motorcycle Crash	Flashcard's
Virtual Ride-Along Video: Pediatric Trauma	Flashcards: Chapter 8
Virtual Ride-Along Video: Psychiatric Emergency	Flashcards: Chapter 9
Virtual Ride-Along Video: Respiratory Distress	Flashcards: Chapter 11
Virtual Ride-Along Video: Seizure	Flashcards: Chapter 13
Virtual Ride-Along Video: Weakness	Flashcards: Chapter 18
Skill Videos	Learning Objectives
Skill Video: Apply Cervical Collar	Learning Objectives: Chapter 1
Skill Video: Bag-Mask Ventilation	Learning Objectives: Chapter 2
Skill Video: Bandaging Techniques	Learning Objectives: Chapter 3
Skill Video: Bronchodilator: Metered-Dose Inhaler	Learning Objectives: Chapter 4
Skill Video: Bronchodilator: Small Volume Nebulizer	Learning Objectives: Chapter 5
Skill Video: Epinephrine Auto-Injector	Learning Objectives: Chapter 6
Skill Video: Head Tilt-Chin Maneuver	Learning Objectives: Chapter 7

Learning Objectives: Chapter 8
Learning Objectives: Chapter 9
Learning Objectives: Chapter 10
Learning Objectives: Chapter 11
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Learning Objectives: Chapter 52
Learning Objectives: Chapter 53
Audio Book
Audio Book: Chapter 1
Audio Book: Chapter 2

Audio Book: Chapter 3
Audio Book: Chapter 4
Audio Book: Chapter 5
Audio Book: Chapter 6
Audio Book: Chapter 7
Audio Book: Chapter 8
Audio Book: Chapter 9
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Audio Book: Chapter 46
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Audio Book: Chapter 48
Audio Book: Chapter 49
Audio Book: Chapter 50
Audio Book: Chapter 51
Audio Book: Chapter 52

Audio Book: Chapter 53

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

Classroom Hours

Start: 01-16-2026

End: 05-18-2026

Mo, Fr

2:00 PM - 6:00 PM

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

Instructor Contact Information

Nancy Small – nsmall@stech.edu

Tyler March – tmarch@stech.edu

Matthew Goodman – mgoodman@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.

Canvas Information

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

- Canvas URL: 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 and Weekends call (435) 865 - 3929 (Leave a message if no response)
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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.

A : 94 - 100%	A-: 90 - 93%	B+: 87 - 89%	B : 83 - 86%
B-: 80 - 82%	C+: 77 - 79%	C : 73 - 76%	C-: 70 - 72%
D+: 67 - 69%	D : 63 - 66%	D-: 60 - 62%	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, (435) 865-3938.

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

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