

## 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

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: Nasotrachea 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

Flashcard's

Flashcards: Chapter 8

Flashcards: Chapter 9

Flashcards: Chapter 11

Flashcards: Chapter 13

Flashcards: Chapter 18

Learning Objectives

Learning Objectives: Chapter 1

Learning Objectives: Chapter 2

Learning Objectives: Chapter 3

Learning Objectives: Chapter 4

Learning Objectives: Chapter 5

Learning Objectives: Chapter 6

Learning Objectives: Chapter 7

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Audio Book: Chapter 49  
Audio Book: Chapter 50  
Audio Book: Chapter 51  
Audio Book: Chapter 52

*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](#)

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## Instructor Contact Information

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

Tyler March — [tmarch@stech.edu](mailto:tmarch@stech.edu)

Matthew Goodman — [mgoodman@stech.edu](mailto: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.*

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## Canvas Information

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

- Canvas URL: [stech.instructure.com](https://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](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.

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