

TEPA 1110 – Paramedic Fundamentals (5 Credits)

Description

The Paramedic Fundamentals course integrates topics such as EMS communications, the safety/well-being of the paramedic, medical/legal responsibilities, ethical issues, and research in EMS. Students learn pharmacology, pathophysiology, history taking, ventilatory management, suctioning, IV therapy, sterile techniques, medications/administration, medical terminology, cardiac emergency treatment, and patient assessment. The course reinforces concepts and clinical skills students previously learned at the EMT level. It introduces advanced concepts in EMS Systems, illness and injury prevention, medical-legal issues, anatomy, physiology, pathophysiology, and childbirth.

Course Objectives

- Discriminate between normal and abnormal anatomy and physiology and distinguish these characteristics as they relate to pathophysiology.
- Interpret complex medical, legal, and ethical issues in EMS.
- Outline factors that impact the health and wellness of the paramedic and correlate these with behaviors that promote a culture of safety.
- Explain variations in the assessment and management of the Adult and Pediatric airway.
- Explain fundamental principles of public health, health promotion, and illness and injury prevention.
- Identify cardiac patient electrophysiology, basic monitoring techniques and ECG rhythms recognition.
- Assess and treat patients who may be experiencing a cardiovascular disorder.

Course Outline

- Advanced Anatomy, Physiology, and Pathophysiology
- EMS Systems
- Medicolegal and Ethical
- Communication and Documentation
- Advanced Airway and Respiratory Assessment and Management
- Pharmacology

Textbook & Reading Materials

Nancy Caroline's Emergency Care in the Streets, 9th edition FICTN Book Bundle (ISBN: 9781284256857)

Assignments & Assessments

- Scenario Role Cards
Student-Facilitated Scenario Handout
Student-Facilitated Scenario Prep
Instructor Resources
Lesson Plan: Lesson 1
Sort It Cards: Lesson 1
Lecture Outline: Chapter 7
Required Resources
Lesson Guide: Lesson 1
Chapter 7 Medical Terminology
Watch the following video:
Introduction to Anatomy & Physiology: A&P #1
To Be Completed:
Interactive Lecture: Chapter 7
Lesson 1 Build It
Lesson 1 Self Assessment
Recommended Resources
Slides: Chapter 7
Case Studies: Chapter 7
Assessment in Action: Chapter 7
Flashcards: Chapter 7
Lesson 1 In-Class Quiz
Instructor Resources
Lesson Plan: Lesson 23
Lecture Outline: Chapter 11
Required Resources
Lesson Guide: Lesson 23
Read the following:
Patient Assessment: Why the Basics Matter
Early Patient Assessment: The Cornerstone of Care
How to Conduct the Patient Interview
Read: Chapter 11 Patient Assessment, p. 581-587
Recommended Resources
To Be Completed:
Lesson 23 Discussion
Lesson 23 Self Assessment
Lesson 23 In-Class Quiz
Matt's Lesson 23 Patient Assessment.pptx
Instructor Resources
Lesson Plan: Lesson 24
Lecture Outline: Chapter 11
Required Resources
Lesson Guide: Lesson 24
Lesson 24 Discussion 1
Read: Chapter 11 Patient Assessment, p. 588-593
Student-Facilitated Scenario Handout: Lesson 24
Scenario Role Cards: Lesson 24
- Lesson 24 Self Assessment
Lesson 24 Discussion 2
Recommended Resources
Slides: Chapter 11, #7-20
Virtual Ride-Along Video: Situational Awareness
Safety Considerations for EMS Workers - CDC: Emergency Medical Services Workers
Lesson 24 In-Class Quiz
Instructor Resources
Lesson Plan: Lesson 25
Sort It Cards: Lesson 25
Lecture Outline: Chapter 11
Required Resources
Lesson Guide: Lesson 25
A Doctor's Touch Discussion
Read: Chapter 11 Patient Assessment, p. 630-695
The Paramedic General Physical Exam
Interactive Lecture: Chapter 11
Skill Evaluation Sheets: Chapter 11
Skill Drills: Chapter 11
Student-Facilitated Scenario Handout: Lesson 25
Scenario Role Cards: Lesson 25
Lesson 25 Self Assessment
Recommended Resources
Slides: Chapter 11, #21-42, 98-225
Lesson 25 In-Class Quiz
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
Read the following:
Read: Chapter 11 Patient Assessment, p. 604-629
Read: Chapter 12 Critical Thinking and Clinical Decision Making
EMS Providers Use Differential Diagnoses in Patient Care
Yes! EMTs Diagnose Patients
Interactive Lecture: Chapter 12
Lesson 26 Self Assessment
Student-Facilitated Scenario Handout: Lesson 26
Scenario Role Cards: Lesson 26
Recommended Resources
Slides: Chapter 11, #43-97

- Slides: Chapter 12
Case Studies: Chapter 12
Assessment in Action: Chapter 12
Flashcards: Chapter 12
Lesson 26 In-Class Quiz
Instructor Resources
Lesson Plan: Lesson 2
Test Your Knowledge Handout: Lesson 2
Graphic Organizer: Lesson 2
Casino Cards: Lesson 2
Lecture Outline: Chapter 8
Required Resources
Read: Chapter 8 Anatomy and Physiology, p. 271-282
- Watch the following videos:
Chemical Reaction Introduction: Chemistry of Life - Biology (Kahn Academy)
Proteins and Enzymes
Lipids: Structure of Life - Structure of Fats (Triglycerides, Phospholipids, Prostaglandins)
Introduction to pH: Biology Foundations - High School Biology (Kahn Academy)
- Visit and Explore:
American Association of Chemistry Teachers: Chemistry Solutions
- To Be Completed:
Lesson 2 Self Assessment
Recommended Resources
Slides: Chapter 8, #5-23
Lesson 2 In-Class Quiz
Instructor Resources
Lesson Plan: Lesson 3
Move It Role Cards: Lesson 3
Casino Cards: Lesson 3
Lecture Outline: Chapter 8
Required Resources
Lesson Guide: Lesson 3
Read: Chapter 8 Anatomy and Physiology, p. 282-306
- Watch the following videos:
Introduction to the Cells: The Grand Cell Tour
Scale of Cells: Structure of a Cell - Biology
Inside the Cell Membrane
India Club: Membranes and Transport - Crash Course Biology
Homeostasis and Negative/Positive Feedback
Mitosis: The Amazing Cell Process That Uses Division to Multiply! (Updated)
Read: More Than Half Your Body Is Not Human by BBC News
- Complete the following:
Interactive Lecture: Chapter 8 (Part 1) A&P Intro, Chemical/Cellular/Tissue Organization
Lesson 3 Build It Assignment
Lesson 3 Self Assessment
Recommended Resources
Slides: Chapter 8, #24-68
Lesson 3 In-Class Quiz
Instructor Resources
Lesson Plan: Lesson 4
Draw It, Act It, Tell It Cards: Lesson 4
Nervous System Trivia PowerPoint: Lesson 4
Lecture Outline: Chapter 8
Required Resources
Lesson Guide: Lesson 4
Read: Chapter 8 Anatomy and Physiology, p. 340-368
- Watch the following videos:
Saltatory Conduction: Conduction Through Myelinated Nerve
Fibre-Physiology
Medical Animations
Nervous System and Reflex Arc
Anatomy- Cranial Nerves Overview
Cranial Nerves Music Video
- Complete the following:
Build It
Lesson 4 Self-Assessment
Recommended Resources
Slides: Chapter 8,
Lesson 4 In-Class Quiz
Instructor Resources
Lesson Plan: Lesson 5
Sensory Changes During Aging Handout: Lesson 5
Senses Worksheet: Lesson 5
Lecture Outline: Chapter 8
Required Resources
Lesson Guide: Lesson 5
Read: Chapter 8 Anatomy and Physiology, p. 368-376
- Watch the following videos:
Vision: Crash Course A&P #18
Hearing and Balance: Crash Course A&P #17
Visual Illusions That Show How We (Mis)think
Lesson 5 Self-Assessment
Recommended Resources
Slides: Chapter 8
Lesson 5 In-Class Quiz
Instructor Resources
Lesson Plan: Lesson 6
Lecture Outline: Chapter 8

Required Resources

Lesson Guide: Lesson 6

Read: Chapter 8 Anatomy and Physiology, p. 445-451

Read: Chapter 9 Pathophysiology, p. 495-498

Watch the following videos:

Kidney Function and Anatomy

The Kidney and Nephron

Parts of a Nephron

Glomerular Filtration in the Nephron

Renin-Angiotensin-Aldosterone System

Renin Angiotensin Aldosterone System (RAAS): Short and Sweet !

Complete the following:

Review: Khan Academy's Tubular Reabsorption Article

Urinary System Diagram

Imbalance Illustration

Lesson 6 Self-Assessment

Recommended Resources

Slides: Chapter 8, # 309-321

Khan Academy Test Your Knowledge

Lesson 6 In-Class Quiz

Instructor Resources

Lesson Plan: Lesson 7

Lecture Outline: Chapter 8

Graphic Organizer: Lesson 7

Required Resources

Lesson Guide: Lesson 7

Read: Chapter 8 Anatomy and Physiology, p. 376-387

Watch the following videos:

Intro to the Endocrine System: 7Health and Medicine

Hormone Concentration Metabolism and Negative

Feedback

Complete the following:

Interactive Lecture: Chapter 8 (Part .3) Nervous and

Endocrine

Glandular High School Yearbook

Glandular High School Yearbook Sample Page: Lesson 7

Lesson 7 Self Assessment

Recommended Resources

Endocrine System by Amoeba Sisters

Slides: Chapter 8

Lesson 7 In-Class Quiz

Instructor Resources

Lesson Plan: Lesson 8

Lecture Outline: Chapter 8

Sort It Cards: Lesson 8

Required Resources

Lesson Guide: Lesson 8

Read: Chapter 8 Anatomy and Physiology, p. 401-411

Watch the following videos:

Arteries, Arterioles, Venules, and Veins: Health and Medicine

Layers of a Blood Vessel: Circulatory System Physiology

The Life and Times of RBCs and Platelets

Blood Types: Human and Anatomy and Physiology

Coagulation Cascade: Human Anatomy and Physiology

Complete the following:

Get Body Smart

Lesson 8 Self Assessment

Recommended Resources

Slides: Chapter 8

Lesson 8 In-Class Quiz

Instructor Resources

Lesson Plan: Lesson 9

Anatomy Labeling Challenge Handout: Lesson 9

Lecture Outline: Chapter 8

Required Resources

Lesson Guide: Lesson 9

Read: Chapter 8 Anatomy and Physiology, p. 393-401

Watch the following videos:

Meet the Heart! Circulatory System Physiology

Lub Dub: Circulatory System Physiology

Layers of the Heart: Circulatory System Physiology

Complete the following:

Interactive Lecture: Chapter 8 (Part 4) Circulatory & Lymphatic

CDC Heart Disease and Stroke Map

Cardiac Action Potential Video Questions

BioDigital Website Activity

LVAD Assignment

Lesson 9 Self Assessment

Recommended Resources

Slides: Chapter 8

Lesson 9 In-Class Quiz

Instructor Resources

Lesson Plan: Lesson 10

Lecture Outline: Chapter 8

Required Resources

Lesson Guide: Lesson 10

Read: Chapter 8 Anatomy and Physiology, p. 434-445

Watch the following videos:

Metabolism and Nutrition, Part 1: Crash Course A&P #36 13

Metabolism and Nutrition, Part 2: Crash Course A&P #37 13

The Digestive System, Part 1: Crash Course A&P #33 B,

The Digestive System: Part 2: Crash Course A&P #34 B,

The Digestive System, Part 3: Crash Course A&P #35 B,

Complete the following:	Slides: Chapter 8 #70-138
Interactive Lecture: Chapter 8 (Part ,6) Digestive, Urinary, Reproductive	Lesson 12 In-Class Quiz
Lesson 10 Self Assessment	Instructor Resources
Recommended Resources	Lesson Plan: Lesson 13
Slides: Chapter 8	Sort It Cards: Lesson 13
Bozeman Science Video: The Digestive System B,	Lecture Outline: Chapter 8
Lesson 10 In-Class Quiz	Required Resources
Instructor Resources	Lesson Guide: Lesson 13
Lesson Plan: Lesson 11	Read: Chapter 8 Anatomy and Physiology, p. 413-434
Lecture Outline: Chapter 8	Watch the following videos:
Lecture Outline: Chapter 9	Respiratory System Physiology - Ventilation and Perfusion (V:Q Ratio) Physiology 13
Required Resources	Lung function - Lung Volumes and Capacities 13
Lesson Guide: Lesson 11	Oxygen: Haemoglobin Dissociation Curve - Physiology 13
Read: Chapter 8 Anatomy and Physiology, p. 411-413	Ventilator vs, ECMO 13
Read: Chapter 9 Pathophysiology, p. 510-523	How Does Asthma Work? Christopher E Gaw 13
Watch the following videos:	Complete the following:
The Sci Guys: Science at Home - The Naked Egg and Osmosis 13	Interactive Lecture: Chapter 8 (Part 5) Respiratory System Build It - Lesson 13
Immune System Physiology videos from the Khan Academy 13	Lesson 13 Self Assessment
Complete the following:	Recommended Resources
Lesson 11 Self Assessment	Slides: Chapter 8, #251-282
Recommended Resources	Lesson 13 In-Class Quiz
Slides: Chapter 8	Chapter 8 Matt's Version Part 1.pptx
Slides: Chapter 9 #54-88	Chapter 8 Matt's Version Part 2.pptx
Lesson 11 In-Class Quiz	Instructor Resources
Instructor Resources	Lesson Plan: Lesson 14
Lesson Plan: Lesson 12	Age Group Matching Game Cards: Lesson 14
Graphic Organizer: Lesson 12	Terminology Guessing Game Cards: Lesson 14
Casino Cards: Lesson 12	Lecture Outline: Chapter 10
Lecture Outline: Chapter 8	Required Resources
Required Resources	Lesson Guide: Lesson 14
Lesson Guide: Lesson 12	Read: Chapter 10 Life Span Development, p. 555-578
Read: Chapter 8 Anatomy and Physiology, p. 308-340	Watch the following video:
Watch the following videos:	The Growth of Knowledge: Crash Course Psychology #18 13
Skeletal System and Bone Anatomy Physiology B,	Complete the following:
The Skeletal System: Crash Course A&P #19 B,	Interactive Lecture: Chapter 10
Joints: Crash Course A&P #20 B>	Lesson 14 Self Assessment
Long Bones, Short Bones, Flat Bones, Irregular Bones, Sesamoid Bones B,	Recommended Resources
Muscles, Part 1: Muscle Cells - Crash Course A&P #21 B,	The Living Body - Our Extraordinary Life B,
Complete the following:	Slides: Chapter 10
Interactive Lecture: Chapter 8 (Part .2) Organ Systems, Integumentary, Musculoskeletal	Case Studies: Chapter 10
Build It - Lesson 12 (Optional)	Assessment in Action: Chapter 10
Lesson 12 Self Assessment	Flashcards: Chapter 10
Recommended Resources	Lesson 14 In-Class Quiz
	Instructor Resources
	Lesson Plan: Lesson 15

- Paramedic Responsibilities Concept Mapping Handout:
Lesson 15
Lecture Outline: Chapter 1
Required Resources
Lesson Guide: Lesson 15
Read: Chapter 1 EMS Systems, p. 4-30
Watch the following videos:
History of EMS B,
EMS and Resuscitation History Es,
Websit e: SO Years of Modern EMS B
JEMS article: American EMS: 2027
Complete the following:
Interactive Lecture: Chapter 1
Lesson 15 Self Assessment
Recommended Resources
EMS Systems Presentation
Slides: Chapter 1
Case Studies: Chapter 1
Assessment in Action: Chapter 1
Flashcards: Chapter 1
Lesson 15 In-Class Quiz
Instructor Resources
Lesson Plan: Lesson 16
Challenge Scenario: Lesson 16
Scenario Role Cards: Lesson 16
Student-Facilitated Scenario Handout: Lesson 16
Required Resources
Lesson Guide: Lesson 16
Before t he Reading
John Nance Near-Miss Story B,
The Importance and Value of the Checklist 13
Towards a Just Culture in Healthcare 13
Following the reading
Strategy for a National EMS Culture of Safety, EMS.gov
(with
special focus on pages 8-13) 13 ~~
NAEMT Position Statement: Just Culture in EMS 13
Complete the following:
First-Out Bag Checklist
Lesson 16 Articles Discussion
Lesson 16 Quiz
Instructor Resources
Lesson Plan: Lesson 17
Student-Facilitated Scenario Handout: Lesson 17
Scenario Role Cards: Lesson 17
Lecture Outline: Chapter 2
Required Resources
Lesson Guide: Lesson 17
Before the Reading
- Lesson 17 Make Peace Discussion
Lesson 17 Stress Management Discussion
Lesson 17 Never Let Your Guard Down Discussion
Read: Chapter 2 Workforce Safety and Wellness
Patient Lifting Techniques PowerPoint: Lesson 17
Skill Evaluation Sheets: Chapter 2
Skill Drills: Chapter 2
Complete the following:
Interactive Lecture: Chapter 2
Lesson 17 Brochure Prep Assignment
Lesson 17 Quiz
Recommended Resources
Khan Academy Infection Diseases Video B
NAEMT: EMS Safety B,
Master Your Mindset podcasts B,
Safe Call Now website 13
Slides: Chapter 2
Case Studies: Chapter 2
Assessment in Action: Chapter 2
Flashcards: Chapter 2
Instructor Resources
Lesson Plan: Lesson 18
Injury Prevention Handout: Lesson 18
Public Health Surveillance Handout: Lesson 18
Student -Facilitated Scenario Handout: Lesson 18
Scenario Role Cards: Lesson 18
Lecture Outline: Chapter 3
Required Resources
Lesson Guide: Lesson 18
Before the Reading
What Is Public Health? 13
Read: Chapter 3 Public Health
Complete the following:
Upstreamist s Discussion
Interactive Lecture: Chapter 3
Lesson 18 Self Assessment
Recommended Resources
Slides: Chapter 3
Case Studies: Chapter 3
Assessment in Action: Chapter 3
Flashcards: Chapter 3
Lesson 18 In-Class Quiz
Instructor Resources
Lesson Plan: Lesson 19
Sort It Cards: Lesson 19
Medical, Legal, and Et hical Issues Tri. via PowerPoint:
Lesson 19
Student -Facilitated Scenario Handout: Lesson 19
Scenario Role Cards: Lesson 19

- Lecture Outline: Chapter 4
Required Resources
Lesson Guide: Lesson 19
Read: Chapter 4 Medical, Legal, and Ethical Issues
Complete the following:
Interactive Lecture: Chapter 4
Lesson 19 Scope of Practice Discussion
Lesson 19 Videos Discussion
Lesson 19 Self-Assessment
Recommended Resources
Slides: Chapter 4
Case Studies:: Chapter 4
Assessment in Action: Chapter 4
Flashcards: Chapter 4
Lesson 19 In-Class Quiz
Instructor Resources
Lesson Plan: Lesson 20
Lecture Outline: Chapter 1
Journal Club Handout: Lesson 20
Required Resources
Lesson Guide: Lesson 20
Complete 1st: Fisdap Research 101 Assignment
Read: Chapter 1 EMS Systems, p. 30-37
Student-Facilitated Scenario Handout: Lesson 20
Scenario Role Cards: Lesson 20
Recommended Resources
Slides: Chapter 1
Montgomery County Hospital District (MCHD) Paramedic Podcast, Episode 44: Medical
Literatrure 101 With Dr. Tony Seupaul 13
EMS World: A Guide to Statistical Significance in EMS Research 13 ~~
EMS World: How to Search the Scientific Literature 13 ~ I
EMS World: Not all Evidence is Created Equal 13 ~ I
Lesson 20 In-Class Quiz
Instructor Resources
Lesson Plan: Lesson 21
Listen and Draw Cards: Lesson 21
Lecture Outline: Chapter 5
Required Resources
Lesson Guide: Lesson 21
Read: Chapter 5 Communications
Student -Facilitated Scenario Handout: Lesson 21
Scenario Role Cards: Lesson 21
Watch the following videos:
Cultures, Subcultures, and Countercultures: Crash Course Sociology #11 13
Health Literacy and Cultural Competency 13
Complete the following:
- Interactive Lecture: Chapter 5
Radio Ramblings Discussion
Lesson 21 Self-Assessment
Recommended Resources
Slides: Chapter 5
Case Studies:: Chapter 5
Assessment in Action: Chapter 5
Flashcards: Chapter 5
Instructor Resources
Lesson Plan: Lesson 22
Sort It Cards: Lesson 22
Lecture Outline: Chapter 6
Required Resources
Lesson Guide: Lesson 22
Watch before reading: NTHSA's Office of EMS: EMS Data Use
Video 13
Complete the handout: Data Search Handout: Lesson 22
Read: Chapter 6 Documentation
Complete the following:
Complete & bring to class April 7th: Narrative Exercise Handout: Lesson 22
Interactive Lecture: Chapter 6
Lesson 22 NEMSIS Best Practices Assignment
Lesson 22 Self Assessment
Recommended Resources
Slides: Chapter 6
Case Studies:: Chapter 6
Assessment in Action: Chapter 6
Flashcards: Chapter 6
Instructor Resources
Lesson Plan: Lesson 27
Challenge Scenario 1: Lesson 27
Challenge Scenario 2: Lesson 27
Airway Emergencies Trivia PowerPoint: Lesson 27
Lecture Outline: Chapter 16
Required Resources
Lesson Guide: Lesson 27
Chapter 16 Airway Management
Watch the following videos:
Basics of Airway Management (3.
Pre-intubation Airway Management 13
AEMT 199 Paramedic - Advanced Skills: Ventilatory Management Adult 13
AEMT 199 Paramedic - Advanced Skills: Suprglottic Airway Device 13
Nasal Intubation 13
Review t he following:
Skill Dr ills: Chapter 16

- Skill Evaluation Sheets: Chapter 16
Complete the following:
Interactive Lecture: Chapter 16
Lesson 27 Self Assessment
Student-Facilitated Scenario Handout: Lesson 27
Scenario Role Cards: Lesson 27
Recommended Resources
Slides: Chapter 16
Case Studies:: Chapter 16
Assessment in Action: Chapter 16
Flashcards: Chapter 16
Basic Nasal Fiber-Optic Intubation 13
Matt's Airway Quiz #1
Instructor Resources
Lesson Plan: Lesson 28
Sort It Cards: Lesson 28
Challenge Scenario 1: Lesson 28
Challenge Scenario 2: Lesson 28
Required Resources
Lesson Guide: Lesson 28
Read: Chapter 17 Respiratory Emergencies
Watch the following videos:
Introduction to the Respiratory System 13
Gas Exchange and Transport 13
Respiritory System - Overview 13
Oxyge111-Haemoglobin Dissociation Curve-Physiology 13
Complete the following:
Easy Auscultation - Lung Sounds and Guided Note-Taking Assignment
Guided Note-Taking Handout: Lesson 28
Lesson 28 Lung Sounds Organizer Assignment
Lun:g Sounds Graphic Organizer: Lesson 28
Lesson 28: Teach Back Assignment
Student-Facilitated Scenario Handout: Lesson 28
Scenario Role Cards: Lesson 28
Recommended Resources
Slides: Chapter 17
Lecture Outline: Chapter 17
Case Studies:: Chapter 17
Flashcards: Chapter 17
Matt's Quiz Round 2
Instructor Resources
Lesson Plan: Lesson 29
Disease Cards: Lesson 29
Challenge Scenario: Lesson 29
Lecture Outline: Chapter 17
Required Resources
Lesson Guide: Lesson 29
Review: Chapter 17 Respiratory Emergencies
- Watch the following videos:
Virtual Ride-Along Video: COPD
Virtual Ride-Along Video: Respiratory Distress
Virtual Ride-Along Video: Difficulty Breathing
Lesson 29 - Activity 1: Flashcards
Lesson 29 - Activity 2: Drug Cards
Respiratory Drug Cards: Lesson 29
Lesson 29 - Activity 3: Scenarios
Capnography Scenarios Handout: Lesson 29
Interactive Lecture: Chapter 17
Lesson 28 and 29 Self Assessment
Scenario Role Cards: Lesson 29
Recommended Resources
Look up and view the Youtube videos from Ninja Nerd Science regarding the respiratory system
Slides: Chapter 17
Case Studies:: Chapter 17
Assessment in Action: Chapter 17
Lesson 28 and 29 In-Class Quiz
Instructor Resources
Lesson Plan: Lesson 43
Respiratory Drug Cards: Lesson 43
Think, Find, Ask Handout: Lesson 43
Challenge Scenario: Lesson 43
Required Resources
Lesson Guide: Lesson 43
Read pages 767-768 of Chapter 13
Chapter 13 Principles of Pharmacology
View the following videos:
Respiratory Drugs: Memorization Tips for Nursing Students
Metered-Dose Inhaler (MDI) Demonstration Without Spacer
Nursing
Metered-Dose Inhaler (MDI) Demonstration With Spacer
Nursing
EMT Nebulized Albuterol
Nebulized Drug Administration
Respiratory Drug Sheets: Lesson 43
Graphic Organizer: Lesson 43
Filing Cabinet Instructions: Lesson 43
Respiratory Drugs Filing Cabinet !Handout: Lesson 43
Respiratory Drugs Answer Key: Lesson 43
Respiratory Drugs Flashcards: Lesson 43
Scenario Role Cards: Lesson 43
Recommended Resources
Slides: Chapter 13
Lecture Outline: Chapter 13

Student -Facilitated Scenario Handout: Lesson 43

Instructor Resources

Lesson Plan: Lesson 41

Bingo Cards: Lesson 41

Draw It, Act It, Tell It Cards: Lesson 41

Think, Find, Ask Handout: Lesson 41

Required Resources

Lesson Guide: Lesson 41

Introduction to the Pharmacology Unit PowerPoint

Lesson

41

Read: Chapter 13 Principles of Pharmacology, p. 725-761

View the following videos:

Pharmacology: Pharmacokinetics (Made Easy)

Pharmacology: Pharmacodynamics (Made Easy)

Recommended Resources

Slides: Chapter 13

Lecture Outline: Chapter 13

Lesson 41 Self Assessment

Lesson 41 In-Class Quiz

Test Prep

1st Term Summative Exam

End Of Course Survey

Virtual Ride-Alongs

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: 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: Seizure

Virtual Ride-Along Video: Weakness

Virtual Ride-Along Video: Situational Awareness

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

Interactive Lecture: Chapter 8 (Part 1) A&P Intro,

Chemical/Cellular/Tissue Organization

Interactive Lecture: Chapter 8 (Part .2) Organ Systems,

Integumentary, Musculoskeletal

Interactive Lecture: Chapter 8 (Part .3) Nervous and

Endocrine

Interactive Lecture: Chapter 8 (Part 4) Circulatory & Lymphatic

Interactive Lecture: Chapter 8 (Part 5) Respiratory System

Interactive Lecture: Chapter 8 (Part 6) Digestive, Urinary, Reproductive

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
Learning Objectives: Chapter 8
Learning Objectives: Chapter 9
Learning Objectives: Chapter 10
Learning Objectives: Chapter 11
Learning Objectives: Chapter 12
Learning Objectives: Chapter 13
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Learning Objectives: Chapter 48
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Learning Objectives: Chapter 50
Learning Objectives: Chapter 51
Learning Objectives: Chapter 52
Learning Objectives: Chapter 53
Audio Book
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Audio Book: Chapter 10
Audio Book: Chapter 11
Audio Book: Chapter 12
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Audio Book: Chapter 26
Audio Book: Chapter 27
Audio Book: Chapter 28
Audio Book: Chapter 29
Audio Book: Chapter 30
Audio Book: Chapter 31
Audio Book: Chapter 32
Audio Book: Chapter 33
Audio Book: Chapter 34
Audio Book: Chapter 35
Audio Book: Chapter 36
Audio Book: Chapter 37
Audio Book: Chapter 38
Audio Book: Chapter 39
Audio Book: Chapter 40
Audio Book: Chapter 41

[Audio Book: Chapter 42](#)

[Audio Book: Chapter 43](#)

[Audio Book: Chapter 44](#)

[Audio Book: Chapter 45](#)

[Audio Book: Chapter 46](#)

[Audio Book: Chapter 47](#)

[Audio Book: Chapter 48](#)

[Audio Book: Chapter 49](#)

[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: 01-09-2026

End: 05-18-2026

Mo, Tu, Th

9:00 AM - 1:00 PM

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)
-

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.

Southwest Technical College
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Cedar City, UT 84720
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