

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
 Inda 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:

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

Lesson 10 Self Assessment

Recommended Resources

Slides: Chapter 8

Bozeman Science Video: The Digestive System B,

Lesson 10 In-Class Quiz

Instructor Resources

Lesson Plan: Lesson 11

Lecture Outline: Chapter 8

Lecture Outline: Chapter 9

Required Resources

Lesson Guide: Lesson 11

Read: Chapter 8 Anatomy and Physiology, p. 411-413

Read: Chapter 9 Pathophysiology, p. 510-523

Watch the following videos:

The Sci Guys: Science at Home - The Naked Egg and Osmosis 13

Immune System Physiology videos from the Khan Academy
13

Complete the following:

Lesson 11 Self Assessment

Recommended Resources

Slides: Chapter 8

Slides: Chapter 9 #54-88

Lesson 11 In-Class Quiz

Instructor Resources

Lesson Plan: Lesson 12

Graphic Organizer: Lesson 12

Casino Cards: Lesson 12

Lecture Outline: Chapter 8

Required Resources

Lesson Guide: Lesson 12

Read: Chapter 8 Anatomy and Physiology, p. 308-340

Watch the following videos:

Skeletal System and Bone Anatomy Physiology B,

The Skeletal System: Crash Course A&P #19 B,

Joints: Crash Course A&P #20 B>

Long Bones, Short Bones, Flat Bones, Irregular Bones, Sesamoid Bones B,

Muscles, Part 1: Muscle Cells - Crash Course A&P #21 B,

Complete the following:

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

Integumentary, Musculoskeletal

Build It - Lesson 12 (Optional)

Lesson 12 Self Assessment

Recommended Resources

Slides: Chaoter 8 #70-138

Lesson 12 In-Class Quiz

Instructor Resources

Lesson Plan: Lesson 13

Sort It Cards: Lesson 13

Lecture Outline: Chapter 8

Required Resources

Lesson Guide: Lesson 13

Read: Chapter 8 Anatomy and Physiology, p. 413-434

Watch the following videos:

Respiratory System Physiology - Ventilation and Perfusion (V:Q Ratio) Physiology 13

Lung function - Lung Volumes and Capacities 13

Oxyge111: Haemoglobin Dissociation Curve - Physiology 13

Ventilator vs, ECMO 13

How Does Asthma Work? Christopher E Gaw 13

Complete the following:

Interactive Lecture: Chapter 8 (Part 5) Respiratory System

Build lit - Lesson 13

Lesson 13 Self Assessment

Recommended Resources

Slides: Chapter 8, #251-282

Lesson 13 In-Class Quiz

Chapter 8 Matt's Version Part 1.pptx

Chapter 8 Matt's Version Part 2.pptx

Instructor Resources

Lesson Plan: Lesson 14

Age Gro1.1p Matching Game Cards: Lesson 14

Terminology Guessing Game Cards: Lesson 14

Lecture Outline: Chapter 10

Required Resources

Lesson Guide: Lesson 14

Read: Chapter 10 Life Span Development, p. 555-578

Watch the following video:

The Growth of Knowledge: Crash Course Psychology #18 13

Complete the following:

Interactive Lecture: Chapter 10

Lesson 14 Self Assessment

Recommended Resources

The Living Body - Our Extraordinary Life B,

Slides: Chapter 10

Case Studies: Chapter 10

Assessment in Action: Chapter 10

Flashcards: Chapter 10

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,

Website: 50 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 the 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:

Upstreamists 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 Ethical 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
 Literature 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: Supraglottic Airway
 Device 13
 Nasal Intubation 13
 Review the following:
 Skill Drills: 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
 Respiratory System - Overview 13
 Oxygen-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
 Lung 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

Learning Objectives: Chapter 14

Learning Objectives: Chapter 15

Learning Objectives: Chapter 16

Learning Objectives: Chapter 17

Learning Objectives: Chapter 18

Learning Objectives: Chapter 19

Learning Objectives: Chapter 20

Learning Objectives: Chapter 21

Learning Objectives: Chapter 22

Learning Objectives: Chapter 23

Learning Objectives: Chapter 24

Learning Objectives: Chapter 25

Learning Objectives: Chapter 26

Learning Objectives: Chapter 27

Learning Objectives: Chapter 28

Learning Objectives: Chapter 29

Learning Objectives: Chapter 30

Learning Objectives: Chapter 31

Learning Objectives: Chapter 32

Learning Objectives: Chapter 33

Learning Objectives: Chapter 34

Learning Objectives: Chapter 35

Learning Objectives: Chapter 36

Learning Objectives: Chapter 37

Learning Objectives: Chapter 38

Learning Objectives: Chapter 39

Learning Objectives: Chapter 40

Learning Objectives: Chapter 41

Learning Objectives: Chapter 42

Learning Objectives: Chapter 43

Learning Objectives: Chapter 44

Learning Objectives: Chapter 45

Learning Objectives: Chapter 46

Learning Objectives: Chapter 47

Learning Objectives: Chapter 48

Learning Objectives: Chapter 49

Learning Objectives: Chapter 50

Learning Objectives: Chapter 51

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

Audio Book: Chapter 10

Audio Book: Chapter 11

Audio Book: Chapter 12

Audio Book: Chapter 13

Audio Book: Chapter 14

Audio Book: Chapter 15

Audio Book: Chapter 16

Audio Book: Chapter 17

Audio Book: Chapter 18

Audio Book: Chapter 19

Audio Book: Chapter 20

Audio Book: Chapter 21

Audio Book: Chapter 22

Audio Book: Chapter 23

Audio Book: Chapter 24

Audio Book: Chapter 25

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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