

02_Anatomy & Physiology & Pt Assessment

Content Area: **Science**
Course(s):
Time Period: **Full Year**
Length: **5-6 weeks**
Status: **Published**

General Overview, Course Description or Course Philosophy

This course covers introductory information as it relates to the evaluation of individuals who have either critical medical conditions or sustained acute injuries, and their subsequent pre-hospital treatment. Students are minimally expected to have the knowledge and skills to perform basic life support and elementary treatment to stabilize a patient for transport to a hospital but not be proficient in utilizing complex life sustaining equipment. Students are expected to know first aid, understand when more experienced or sophisticated help is needed, and to prioritize the need for care. They also must do no harm. The first aid provider is not expected to offer the same level of care as a licensed EMT. This course offers 3 Rutgers University credit with the passing of the final exam.

OBJECTIVES, ESSENTIAL QUESTIONS, ENDURING UNDERSTANDINGS

Anatomy and Physiology is the study of the structure and function of the human body. Anatomy is a sequential development of the major body systems in an organized and structured curriculum. Students will receive a selective overview of human anatomical structure and an analysis of human physiological principles.

CONTENT AREA STANDARDS

SCI.HS-LS1-2

Develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific functions within multicellular organisms.

VHEL.9-12.9.4.12.H.1

Demonstrate language arts knowledge and skills required to pursue the full range of

	postsecondary education and career opportunities.
VHEL.9-12.9.4.12.H.3	Demonstrate science knowledge and skills required to pursue the full range of postsecondary education and career opportunities.
VHEL.9-12.9.4.12.H.5	Select and employ appropriate reading and communication strategies to learn and use technical concepts and vocabulary in practice.
VHEL.9-12.9.4.12.H.44	Demonstrate an understanding of the roles and responsibilities of all members of the healthcare team, including their ability to promote the delivery of quality healthcare.
VHEL.9-12.9.4.12.H.62	Demonstrate knowledge of technical skills required for career pathways in this cluster, including occupational safety techniques, OSHA Standard Precautions, and safety procedures designed to protect clients, co-workers, and self.

RELATED STANDARDS (Technology, 21st Century Life & Careers, ELA Companion Standards are Required)

LA.RH.11-12.3	Evaluate various perspectives for actions or events; determine which explanation best accords with textual evidence, acknowledging where the text leaves matters uncertain.
LA.RH.11-12.4	Determine the meaning of words and phrases as they are used in a text, including analyzing how an author uses and refines the meaning of a key term over the course of a text (e.g., how Madison defines faction in Federalist No. 10).
LA.RH.11-12.8	Evaluate an author's claims, reasoning, and evidence by corroborating or challenging them with other sources.
LA.WHST.11-12.1.B	Develop claim(s) and counterclaims using sound reasoning and thoroughly, supplying the most relevant data and evidence for each while pointing out the strengths and limitations of both claim(s) and counterclaims in a discipline appropriate form that anticipates the audience's knowledge level, concerns, values, and possible biases.
LA.WHST.11-12.1.E	Provide a concluding paragraph or section that supports the argument presented.
TECH.9.4.2.CI	Creativity and Innovation
TECH.9.4.2.CT	Critical Thinking and Problem-solving

STUDENT LEARNING TARGETS

Declarative Knowledge

Students will understand that:

- Recognize the planes of the body.
- Describe the location of the organs of the body based on regions.
- Identify the terminology associated with body positions.
- Identify various healthcare facilities, different healthcare professionals and various healthcare trends.

- Distinguish between body cavities.
- Identify the terminology associated with structure and function.
- Distinguish between dorsal and ventral body cavities and their subdivisions.
- Describe the steps in locating a term in a medical dictionary.
- Define the commonly used prefixes, word roots, combining forms, and suffixes
- Identify the roles of the four types of word parts in forming medical terms.
- Recognize the importance of always spelling medical terms correctly.
- Pronounce medical terms correctly using the “sounds-like” system.
- State why caution is important when using abbreviations.
- Analyze unfamiliar medical terms using your knowledge of word parts.
- Identify various careers available in the health/medical profession
- List the sequence of victim assessment for responsive and unresponsive victims.
- Describe the importance of and the steps in a scene size-up.
- List the steps involved in a primary check.
- Describe the AVPU scale and its purpose.
- Describe the steps in the primary check for an unresponsive victim.
- Describe the steps in the primary check for a responsive victim.
- Describe the steps in a secondary check for victims with a significant cause of injury.
- List the parts of the mnemonic DOTS.
- Describe the parts of a SAMPLE history.
- Describe what to do until medical help is available.
- Define triage.

Procedural Knowledge

Students will be able to:

- Label the body cavities
- Label the regions
- Locate organs within each system
- Describe anatomical position
- Recall medical terms associated with the systems
- Recall medical facilities and professionals
- Locate organs within each body system
- Recall common ailments within each system
- Assess a patient in an emergency situation
- Check for scene safety
- Don-DoFF PPE
- Identify the emergency/problem
- Properly perform a patient history
- Properly triage a situation

EVIDENCE OF LEARNING

Formative Assessments

- Diagrams
- Labs
- Projects
- Chapter assessments

Summative Assessments

- - Benchmarks – departmental benchmark given at the end of MP1, MP2, and MP3 based on lab practices
 - Alternative Assessments
 - Lab inquiries and investigations
 - Lab Practicals
 - Exploratory activities based on phenomenon
 - Gallery walks of student work
 - Creative Extension Projects
 - Build a model of a proposed solution
 - Let students design their own flashcards to test each other
 - Keynote presentations made by students on a topic
 - Portfolio

RESOURCES (Instructional, Supplemental, Intervention Materials)

Textbook required by Rutgers University:

Advanced First Aid, CPR, and AED, Seventh Edition

Jones and Bartlett

ISBN-13: 978-1284105315

ISBN-10: 1284105318

Edpuzzle.com

Nearpod.com

Rutgers University requirement:

Patient Assessment: <https://www.youtube.com/watch?v=cwyJHy8zaE4>

<https://www.youtube.com/watch?v=WKfxOIbR0vQ>

INTERDISCIPLINARY CONNECTIONS

Video case/study

Historical Research

Debate

Information Writing

ACCOMMODATIONS & MODIFICATIONS FOR SUBGROUPS

See link to Accommodations & Modifications document in course folder.