

COURSE SYLLABUS

VNSG 1420

**Anatomy & Physiology for Allied Health**

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PHYSICAL THERAPIST ASSISTANT PROGRAM

HEALTH OCCUPATIONS DIVISION

LEVELLAND CAMPUS

SOUTH PLAINS COLLEGE

## COURSE SYLLABUS

COURSE TITLE: ANATOMY & PHYSIOLOGY FOR ALLIED HEALTH  
COURSE CREDIT: 4  
CONTACT HOURS: 4

INSTRUCTOR: Jackie Underwood PTA, MS  
Room AH 103B  
806.716.2470  
hbeaugh@southplainscollege.edu

**OFFICE HOURS:** *By Appointment*

SOUTH PLAINS COLLEGE IMPROVES EACH STUDENT'S LIFE

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### GENERAL COURSE INFORMATION

#### COMMON STUDENT LEARNING OUTCOMES

**Upon successful completion of South Plains College PTA degree, the student will be able to:**

**KNOW (K)** - Students will actively and independently acquire, apply and adapt skills and knowledge to develop expertise and a broader understanding of the world as lifelong learners.

**COMPREHEND (C)** - Students will think analytically and creatively to explore ideas, make connections, draw conclusions, and solve problems.

**APPLY (A)** - Students will exchange ideas and information with clarity and originality in multiple contexts, act purposefully, reflectively, and respectfully in diverse and complex environment.

**EVALUATE (E)** - Students will demonstrate integrated learning from different areas and solve problems with creative thinking.

#### COURSE DESCRIPTION:

The student will learn basic anatomy & physiology of the human body. An emphasis will be placed on anatomy & physiology of the musculoskeletal system as it relates to the profession of physical therapy. **This is a lecture and lab course. No dissection.**

## GENERAL LEARNING OBJECTIVES

### Upon successful completion of the course the student will be able to:

1. Understand terminology related to anatomy & physiology
2. Identify planes and axis of the body
3. Understand the basic function and structures of the cardiovascular and respiratory systems.
4. Understand the basic function and structures of the integumentary system.
5. Understand the basic function and structures of the Neuro-muscular system.
6. Understand the basic function and structures of the Musculoskeletal system.
7. Identify the major bones of the regions of the body including head / neck, back, lower extremity, & upper extremity.
8. Identify the major muscles and their actions of the regions of the body including head / neck, back, lower extremity, & upper extremity.
9. Identify the innervations of the muscles of the regions of the body including head / neck, back, lower extremity, and upper extremity.

## SPECIFIC LEARNING OBJECTIVES

### Upon successful completion of the course, the student will be able to:

1. Construct, define, and utilize medical terms related to anatomy & physiology using word roots, suffixes, prefixes.
2. Explain anatomical planes, positions and movements related to anatomy & physiology
3. Describe the basic function of the cardiovascular and respiratory systems.
  - a. Identify the anatomy of the human heart
  - b. Describe the path the blood takes through the vascular system
  - c. Differentiate between arterial and venous component of the vascular system
  - d. Explain the blood flow through the heart
  - e. Identify the basic components of the respiratory system
  - f. Describe the various skeletal structures related to the respiratory system
  - g. Explain the process of breathing
4. Describe the basic function of the integumentary system.
  - a. Explain the importance of the our skin
  - b. Identify the components of the skin and the major structures within it
5. Describe the basic function and anatomy of the neuro-muscular system
  - a. Identify the major structures of the nervous system
  - b. Differentiate between sensory, motor and autonomic nerves and their role in physiology
  - c. Differentiate between the central and peripheral nervous systems
6. Identify the major bones and muscles and their actions related to movement of the regions of the body.
  - a. Identify the bones by name and location of the head / neck, back, upper extremity and lower extremity.
  - b. Recognize important surface anatomy and landmarks associated with all the regions of the body.
  - c. Demonstrate action of the muscles of the head / neck, back, upper extremity, and lower extremity.
  - d. Identify the origin & insertion of each of the muscles
  - e. Identify the innervation of each of these muscles.
7. Identify the innervations of the muscles of the regions of the body including head / neck, back, lower extremity, and upper extremity.
  - a. Identify nerves making up the Brachial Plexus
  - b. Identify innervations for the upper extremities and lower extremities
  - c. Demonstrate knowledge of cranial nerves

**ASSESSMENT TECHNIQUES USED BUT NOT LIMITED TO:**

1. Outside Class Assignments
2. Lecture Exams.
3. Daily/Weekly Quizzes
4. Comprehensive Final Exam

**COURSE GRADING**

A= 90-100%

B = 80-89%

C = 70-79%

**BELOW 75% at midterm of the semester will result in the development of a learning contract and the student being responsible for meeting established goals.**

Class preparation / attendance	=5 %
Written Assignments	=15%
Weekly quizzes	=10 %
Exams	=50%
<u>Comprehensive Final exam</u>	<u>=20%</u>
	= 100 %

**ACCOMMODATION STATEMENT**

Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Disability Services Office early in the semester so that the appropriate arrangements may be made. In accordance with federal law, a student requesting accommodations must provide acceptable documentation of his/her disability. For more information, call or visit the Disability Services Office in the Student Health & Wellness Office, 806-716-2577.

**ACADEMIC INTEGRITY:**

It is the aim of the faculty of South Plains College to foster a spirit of complete honesty and a high standard of integrity. The attempt of any student to present as his or her own work which he or she has not honestly performed is regarded by the faculty and administration as a most serious offense and renders the offender liable to serious consequences, possibly suspension.

**DIVERSITY STATEMENT:**

In this class, the teacher will establish and support an environment that values and nurtures individual and group differences and encourages engagement and interaction. Understanding and respecting multiple experiences and perspectives will serve to challenge and stimulate all of us to learn about others, about the larger world and about ourselves. By promoting diversity and intellectual exchange, we will not only mirror society as it is, but also model society as it should and can be.

SPECIFIC COURSE/INSTRUCTOR REQUIREMENTS

1. Handbook:

Students are required to read the SPC Student Guide and will be held responsible for following the guidelines it contains.

2. Dress Code:

Students are expected to follow the dress code as stated in the SPC Student Guide : Reasonable standards of decency apply to the college community. The student should dress in a manner which does not distract from the academic atmosphere. Revealing attire or clothing carrying obscene or offensive slogans is not permitted. In all academic buildings, classrooms, offices, the Student Center, and dining facilities, students are required to wear shirts and shoes. Also, you will need appropriate attire for lab.

3. Due Date:

A Course Assignment Calendar with due dates and description of assignments can be found on your Blackboard. For each day an assignment is late 10 points will be deducted; the 3<sup>rd</sup> day late the assignment will receive a failing grade.

4. Behavior:

Students are expected to demonstrate professional behaviors such as respect, preparation for class, and dedication to learning.

Cell Phone use in class/clinic will not be tolerated. If the phone goes off during class or student is found to be texting the student will be asked to leave class and receive 1 absence for the first incident. (see absence policy). Mobile devices maybe utilized for learning purposes only. No personal use.

5. Required Materials:

Students must have internet access and an internet browser and MS Office. If you do not have a computer with a modem at home, you can access South Plains College's Computer Lab. Jessica Tucker 716. 2180 [jetucker@southplainscollege.edu](mailto:jetucker@southplainscollege.edu) will be your tech support contact for Blackboard.

**Required Text Books:** *Essential Clinical Anatomy 5<sup>th</sup> Edition* Keith Moore  
ISBN:9781451187496

**Recommend Text Book:** Trail Guide to the Body Andrew Biel  
ISBN 978-0-9829786-5-8

Muscle atlas, student work books, anatomy apps and other type of supplemental learning tools are highly recommended. See instructor for ideas.

## **I. ATTENDANCE**

### **A. ABSENCES**

Attendance is mandatory and there are no excused absences as found in the student handbook. Anything over 5 days, the student cannot meet the objectives and is withdrawn from the course. Any missed assignments, exams, or other activities must be completed and arrangements must be made with course instructor to turn in work. You are responsible for all information missed during lecture.

**Students MUST e-mail Course Instructor when absent.**

### **B. TARDIES**

Three tardies count as one absence.

Refer to the student handbook for additional explanation of attendance policies.

## **II. PROFESSIONAL CONDUCT**

Students are expected to follow the ethics and rules of professional conduct as outlined in the student handbook. Unprofessional conduct on the part of a student as outlined in the student handbook can result in dismissal from the class.