

ONLINE

Course Syllabus

COURSE: SCIT 1407 Applied Human Anatomy and Physiology (4:3:3)
SEMESTER: Spring 2020
INSTRUCTOR: Chris Pierson, PT, DPT
OFFICE: Allied Health Building 103 D
OFFICE HOURS: by appointment
OFFICE PHONE: 806-716-2470
E-MAIL: cperson@southplainscollege.edu

"South Plains College improves each student's life."

GENERAL COURSE INFORMATION

It is the responsibility of each student to be familiar with the content and requirements listed in the course syllabus.

COURSE DESCRIPTION

An applied systematic study of the structure and function of the human body. Includes anatomical terminology, cells, tissues, and the following systems: integumentary, skeletal, muscular, nervous, and endocrine. Emphasis on homeostasis.

STUDENT LEARNING OUTCOMES

At the completion of the semester students will: Identify the structure and explain the function of cells and tissue; identify the components and explain the physiological mechanisms of the following body systems: integumentary, skeletal, muscular, nervous, and endocrine; and apply anatomical terminology to describe the processes these systems use to maintain homeostasis of the human body.
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 of the endocrine system. a. Explain the importance of the our hormone b. Identify the major producers and effects of hormones
6. Describe the basic function of the digestive system. a. Explain the importance of digestion b. Identify the structures of the digestive system
7. Describe the basic function of the urinary system. a. Explain the importance of the urinary system b. Identify the structures of the urinary system
8. Describe the basic function of the reproductive system. a. Explain the importance of the reproductive system b. Identify the structures of the reproductive system

<p>9. Describe the basic function and anatomy of the neuro-muscular system</p> <ol style="list-style-type: none"> Identify the major structures of the nervous system Differentiate between sensory, motor and autonomic nerves and their role in physiology Differentiate between the central and peripheral nervous systems
<p>10. Identify the major bones and muscles and their actions related to movement of the regions of the body.</p> <ol style="list-style-type: none"> Identify the bones by name and location of the head / neck, back, upper extremity and lower extremity. Recognize important surface anatomy and landmarks associated with all the regions of the body. Demonstrate action of the muscles of the head / neck, back, upper extremity, and lower extremity. Identify the origin & insertion of each of the muscles Identify the innervation of each of these muscles.
<p>11. Identify the innervations of the muscles of the regions of the body including head / neck, back, lower extremity, and upper extremity.</p> <ol style="list-style-type: none"> Identify nerves making up the Brachial Plexus Identify innervations for the upper extremities and lower extremities Demonstrate knowledge of cranial nerves

COURSE OBJECTIVES

<p>At the completion of this course the student will have:</p> <p>The cognitive, psychomotor, and affective competencies to</p> <ul style="list-style-type: none"> ➤ Understand terminology related to anatomy & physiology ➤ Identify planes and axis of the body ➤ Understand the basic function and structures of the cardiovascular and respiratory systems. ➤ Understand the basic function and structures of the integumentary system. ➤ Describe the basic function of the Endocrine system. ➤ Understand the basic function and structures of the neuromuscular system. ➤ Understand the basic function and structures of the musculoskeletal system. ➤ Identify the major bones of the regions of the body including head / neck, back, lower extremity, & upper extremity. ➤ Identify the major muscles and their actions of the regions of the body including head / neck, back, lower extremity, & upper extremity. ➤ Identify the innervations of the muscles of the regions of the body including head / neck, back, lower extremity, and upper extremity.
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EVALUATION METHODS

Computer-based exams, written assignments, quizzes, and other projects as assigned.

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 any 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.

Cheating - Dishonesty of any kind on examinations or on written assignments, illegal possession of examinations, the use of unauthorized notes during an examination, obtaining information during an examination from the textbook or from the examination paper of another student, assisting others to cheat, alteration of grade records, illegal entry or unauthorized presence in the office are examples of cheating. Complete honesty is required of the student in the presentation of any and all phases of coursework. This applies to quizzes of whatever length, as well as all examinations, to daily reports and to term papers.

Plagiarism - Offering the work of another as one's own, without proper acknowledgment, is plagiarism; therefore, any student who fails to give credit for quotations or essentially identical expression of material taken from books, encyclopedias, magazines and other reference works, or from themes, reports or other writings of a fellow student, is guilty of plagiarism.

BLACKBOARD

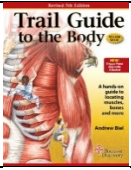
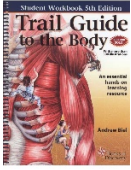
Blackboard is an e-Education platform designed to enable educational innovations everywhere by connecting people and technology. This educational tool will be used in this course throughout the semester.

SCANS and FOUNDATION SKILLS

Refer also to Course Objectives. Scans and Foundation Skills attached

SPECIFIC COURSE INFORMATION

TEXT AND MATERIALS

Trail Guide to the Body Student Workbook, 6 th Edition		Biel	Books Of Discovery	978-0-9914666-7-2
Trail Guide to the Body, 6 th Edition		Biel	Books Of Discovery	978-0-9987850-6-6
"Visible Body Courseware" – this is an online tool to which you will purchase access and set up an account. Information explaining the details will be provided.				

ADDITIONAL CLASSROOM ITEMS

Students should have reliable hardware (laptop, tablet, etc.), software (Windows, Microsoft, etc.), and network connection. Students be prepared to take notes on the readings and other resources available, complete discussions, and complete quizzes/examinations online.

ATTENDANCE POLICY

Class Attendance

Students are expected to avail themselves of the resources made available online, and participate in all online activities, in order to be successful in this course. The student may be administratively withdrawn from the course when the student's preparation/participation falls below the standard defined in this course syllabus.

When an unavoidable reason for non-participation arises (such as illness, an official trip authorized by the college, or an official activity), the instructor may permit the student to make up work missed. It is the student's responsibility to complete work missed within a reasonable period of time as determined by the instructor. Students are officially enrolled in all courses for which they pay tuition and fees at the time of registration. Should a student, for any reason, delay in logging onto Blackboard or participating in online activities after official enrollment, absences will be attributed to the student from the first class day.

Students who enroll in a course but do not log onto Blackboard or participate in any online activities by the official census date will be reported as "Never Attended" by the instructor, and will be administratively dropped by the Office of Admissions and Records. A student who does not meet the attendance requirements of a class as stated in the course syllabus and does not officially withdraw from that course by the official census date of the semester, may be administratively withdrawn from that course and receive a grade of "X" or "F" as determined by the instructor. Instructors are responsible for clearly stating their administrative drop policy in the course syllabus, and it is the student's responsibility to be aware of that policy.

It is the student's responsibility to verify administrative drops for excessive absences through MySPC using his or her student online account. If it is determined that a student is awarded financial aid for a class or classes in which the

student never attended or participated, the financial aid award will be adjusted in accordance with the classes in which the student did attend/participate and the student will owe any balance resulting from the adjustment.

(http://catalog.southplainscollege.edu/content.php?catoid=47&navoid=1229#Class_Attendance)

Due to the importance of the Anatomy and Physiology information being taught, the instructor of this course defines excessive absences as missing a third online activity or having three weeks of fewer than two different days of Blackboard log-in. A student who meets one or both of these criteria will be administratively dropped from the course by the instructor.

- Tardies: (Definition): arriving any time after the online activity has started or not returning after a network interruption after the online activity has started.
- Two tardies will be considered an absence, and counted as such.
- Work schedule is not an excuse for missing online activities.
- Any exceptions to this policy must be discussed on an individual basis with the course instructor. (i.e. – student hospitalization, immediate family member death, etc.)

ASSIGNMENT POLICY

All assignments must be completed by the assigned due date. **Late and/or incomplete work will not be accepted and a grade of zero will be recorded.** Assignments, quizzes, exams, and online activities that are missed due to an unexcused absence may not be made up. See the instructor for more specific information.

COMPUTER USAGE

As computer technology in the field of health occupations continues to become more popular, computers will be used in this course for all assignments, activities, and exams. All students have access to computers and printers on the South Plains College campus. Students will be expected to utilize computers to access assignments, resources, online activities, and exams. All registered students are supplied with a working email account from South Plains College. In order to take exams, students must have their username and password. **ALL STUDENTS ARE EXPECTED TO KNOW THEIR SPC STUDENT USERNAME AND PASSWORD.**

COMPUTER LAB USAGE

The computer lab(s) on any campus may be used by students during scheduled open hours or as assigned by an instructor. Printing is available for students to print materials for a fee. Lack of computer access or printer access is not an excuse for not completing assignments, online activities, quizzes, or exams.

EXAMS

All exams will be administered via computer. Students should use proper spelling and grammar when answering exam questions.

- **There are no retests for any exam.**
- Students are required to make a 70% on the final exam and maintain a 70% or higher as the “course weighted total grade” to be considered passing
- All exams will be scheduled to occur within a specified and limited window of time. Students are expected to begin each exam on time and complete each exam within the timeframe allowed.

GRADING POLICY

A minimum of 70% on all exams and assignments is required to receive a passing grade for that exam or assignment. Students must earn an overall grade of 70% or better to pass the course.

Final semester grades will be based on the following:

Online Participation	5%
Quizzes	10%
Exams	65%
<u>Comprehensive Final Exam</u>	<u>20%</u>
	100 %

Grading Scale: 90-100 : A 80-89 : B 79-70 : C 69-60 : D 59 or Below : F

COMMUNICATION POLICY

Electronic communication between instructor and students in this course will utilize the South Plains College “My SPC” and email systems. The instructor will not initiate communication using private email accounts. Students are encouraged to check SPC email on a regular basis each week of class. Students will also have access to assignments, web-links, handouts, and other vital material through Blackboard. Any student having difficulty accessing Blackboard or their email should immediately contact the SPC Help Desk. Email communication is expected to follow professional standards.

CAMPUS CARRY

Campus Concealed Carry - Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in South Plains College buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and South Plains College policy, license holders may not carry a concealed handgun in restricted locations. For a list of locations, please refer to the SPC policy at: (http://www.southplainscollege.edu/human_resources/policy_procedure/hhc.php) Pursuant to PC 46.035, the open carrying of handguns is prohibited on all South Plains College campuses. Report violations to the College Police Department at 806-716-2396 or 9-1-1.

PREGNANCY ACCOMMODATIONS STATEMENT

If you are pregnant, or have given birth within six months, Under Title IX you have a right to reasonable accommodations to help continue your education. To activate accommodations you must submit a Title IX pregnancy accommodations request, along with specific medical documentation, to the Director of Health and Wellness. Once approved, notification will be sent to the student and instructors. It is the student’s responsibility to work with the instructor to arrange accommodations. Contact Crystal Gilster, Director of Health and Wellness at 806-716-2362 or email cgilster@southplainscollege.edu for assistance.

STUDENT CONDUCT

Rules and regulations relating to the students at South Plains College are made with the view of protecting the best interests of the individual, the general welfare of the entire student body and the educational objectives of the college. As in any segment of society, a college community must be guided by standards that are stringent enough to prevent disorder, yet moderate enough to provide an atmosphere conducive to intellectual and personal development. A high standard of conduct is expected of all students. When a student enrolls at South Plains College, it is assumed that the student accepts the obligations of performance and behavior imposed by the college relevant to its lawful missions, processes and functions. Obedience to the law, respect for properly constituted authority, personal honor, integrity and common sense guide the actions of each member of the college community both in and out of the classroom. Students are subject to federal, state and local laws, as well as South Plains College rules and regulations. A student is not entitled to greater immunities or privileges before the law than those enjoyed by other citizens. Students are subject to such reasonable disciplinary action as the administration of the college may consider appropriate, including suspension and expulsion in appropriate cases for breach of federal, state or local laws, or college rules and regulations. This principle extends to online conduct as well as off-campus which is likely to have adverse effects on the college or on the educational process which identifies the offender as an unfit associate for fellow students. Any student who fails to perform according to expected standards may be asked to withdraw. Rules and regulations regarding student conduct appear in the current Student Guide.

SPECIAL REQUIREMENTS

- Students must complete an acknowledgment that the student has read and understands the contents of syllabus, handbook, grievance policy, and appeals process.
- **This acknowledgement can be found in the Start Here content area on Blackboard and will be due the Sunday following the first class day by 11:59 PM.**

- **Online Dress Code** – Students are expected to wear clothing that will not provide distraction during online activities. You are looking to apply to a professional program and you will be expected to apply professional standards to dress, behavior, and language at all times.

WHAT NOT TO WEAR: low cut blouses, “booty” shorts, T-shirts with offensive slogans or inappropriate images.

COURSE DISCLAIMER

Working with the public in healthcare situations is stressful and requires a mentally tough individual to provide medical care in the clinical environment. This course is designed to prepare students to enter the PTA Program and be successful in the rigorous technical program.

Additionally, enrollment in this course does not guarantee a passing grade, or admission to the PTA Program.

ACCOMMODATIONS

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.

DISABILITIES 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 to the Disability Services Office. For more information, call or visit the Disability Services Office at Levelland Student Health & Wellness Center 806-716-2577, Reese Center (also covers ATC) Building 8: 806-716-4675, Plainview Center Main Office: 806-716-4302 or 806-296-9611, or the Health and Wellness main number at 806-716-2529.

FOUNDATION SKILLS

BASIC SKILLS—Reads, Writes, Performs Arithmetic and Mathematical Operations, Listens and Speaks

F-1 Reading—locates, understands, and interprets written information in prose and in documents such as manuals, graphs, and schedules.

F-2 Writing—communicates thoughts, ideas, information and messages in writing and creates documents such as letters, directions, manuals, reports, graphs, and flow charts.

F-3 Arithmetic—performs basic computations; uses basic numerical concepts such as whole numbers, etc.

F-4 Mathematics—approaches practical problems by choosing appropriately from a variety of mathematical techniques.

F-5 Listening—receives, attends to, interprets, and responds to verbal messages and other cues.

F-6 Speaking—organizes ideas and communicates orally.

THINKING SKILLS—Thinks Creatively, Makes Decisions, Solves Problems, Visualizes and Knows How to Learn and Reason

F-7 Creative Thinking—generates new ideas.

F-8 Decision-Making—specifies goals and constraints, generates alternatives, considers risks, evaluates and chooses best alternative.

F-9 Problem Solving—recognizes problems, devises and implements plan of action.

F-10 Seeing Things in the Mind’s Eye—organizes and processes symbols, pictures, graphs, objects, and other information.

F-11 Knowing How to Learn—uses efficient learning techniques to acquire and apply new knowledge and skills.

F-12 Reasoning—discovers a rule or principle underlying the relationship between two or more objects and applies it when solving a problem.

PERSONAL QUALITIES—Displays Responsibility, Self-Esteem, Sociability, Self-Management, Integrity and Honesty

F-13 Responsibility—exerts a high level of effort and perseveres towards goal attainment.

F-14 Self-Esteem—believes in own self-worth and maintains a positive view of self.

F-15 Sociability—demonstrates understanding, friendliness, adaptability, empathy and politeness in group settings.

F-16 Self-Management—assesses self accurately, sets personal goals, monitors progress and exhibits self-control.

F-17 Integrity/Honesty—chooses ethical courses of action.

SCANS COMPETENCIES

C-1 **TIME** - Selects goal - relevant activities, ranks them, allocates time, prepares and follows schedules.

C-2 **MONEY** - Uses or prepares budgets, makes forecasts, keeps records and makes adjustments to meet objectives.

C-3 **MATERIALS AND FACILITIES** - Acquires, stores, allocates, and uses materials or space efficiently.

C-4 **HUMAN RESOURCES** - Assesses skills and distributes work accordingly, evaluates performances and provides feedback.

INFORMATION - Acquires and Uses Information

C-5 Acquires and evaluates information.

C-6 Organizes and maintains information.

C-7 Interprets and communicates information.

C-8 Uses computers to process information.

INTERPERSONAL—Works With Others

C-9 Participates as a member of a team and contributes to group effort.

C-10 Teaches others new skills.

C-11 Serves Clients/Customers—works to satisfy customer's expectations.

C-12 Exercises Leadership—communicates ideas to justify position, persuades and convinces others, responsibly challenges existing procedures and policies.

C-13 Negotiates—works toward agreements involving exchanges of resources; resolves divergent interests.

C-14 Works With Diversity—works well with men and women from diverse backgrounds.

SYSTEMS—Understands Complex Interrelationships

C-15 Understands Systems—knows how social, organizational, and technological systems work and operates effectively with them.

C-16 Monitors and Corrects Performance—distinguishes trends, predicts impacts on system operations, diagnoses systems performance and corrects malfunctions.

C-17 Improves or Designs Systems—suggests modifications to existing systems and develops new or alternative systems to improve performance.

TECHNOLOGY—Works with a Variety of Technologies

C-18 Selects Technology—chooses procedures, tools, or equipment, including computers and related technologies.

C-19 Applies Technology to Task—understands overall intent and proper procedures for setup and operation of equipment.

C-20 Maintains and Troubleshoots Equipment—prevents, identifies, or solves problems with equipment, including computers and other technologies.

Course Schedule

**SCIT 1407 Applied Anatomy and Physiology 1
ONLINE**

WEEK	TOPIC	READING	QUIZZES/ASSIGNMENTS
WEEK 1 Jan. 13 th to Jan. 19 th	Introduction to SCIT 1407	Welcome Letter SCIT 1407 Course Syllabus TGB Introduction (p. 1-18)	Acknowledgement Quiz (under “Start Here” button on Blackboard) Prior Knowledge Exam VB Quiz : Getting Started VB Quizzes : Cells and Tissues DUE Sun., Jan. 19th 11:59P
	Intro to Anatomy Terminology	VB eBooks & Notes TGB Chapter 1 (p.19-31)	
	Cells and Tissues	VB Chapters 1-4 TGB p. 38-39	
WEEK 2 Jan. 20 th to Jan. 26 th	Integumentary System	VB Chapters 5-6	VB Quizzes : Integumentary System DUE Sun., Jan. 26th 11:59P
WEEK 3 Jan. 27 th to Feb. 2 nd	Endocrine System	VB Chapters 24-26	VB Quizzes : Endocrine System VB Quizzes : Circulatory System DUE Sun., Feb. 2nd 11:59P
	Circulatory System	VB Chapters 27-30 TGB p. 40-41	
WEEK 4 Feb. 3 rd to Feb. 9 th	Lymphatic System	VB Chapters 31-33 TGB p. 43	VB Quizzes : Lymphatic System DUE Wed., Feb. 5th 11:59P
EXAM 1 (THURSDAY, FEBRUARY 6th 12:00AM – SATURDAY, FEBRUARY 8th 11:59PM)			
WEEK 5 Feb. 10 th to Feb. 16 th	Respiratory System	VB Chapters 34-37	VB Quizzes : Respiratory System DUE Sun., Feb. 16th 11:59P
WEEK 6 Feb. 17 th to Feb. 23 rd	Digestive System	VB Chapters 38-42	VB Quizzes : Digestive System DUE Sun., Feb. 23rd 11:59P
WEEK 7 Feb. 24 th to Mar. 1 st	Urinary System	VB Chapters 43-46	VB Quizzes : Urinary and Reproductive Systems DUE Sun., Mar. 1st 11:59P
	Reproductive System	VB Chapter 47.1	
WEEK 8 Mar. 2 nd to Mar. 8 th	Skeletal System	VB Chapters 7-9 TGB p. 32-34, 48-51, 110-112, 170-173, 228-229, 278-283, 346-348, 354-355	VB Quizzes : Skeletal System DUE Sun., Mar. 8th 11:59P
EXAM 2 (THURSDAY, MARCH 5th 12:00AM – SATURDAY, MARCH 7th 11:59PM) (DOES NOT INCLUDE SKELETAL SYSTEM INFO)			
WEEK 9 Mar. 9 th to Mar. 15 th	Nervous System	VB Chapters 17-22 TGB p. 42	VB Quizzes : Nervous System and Special Senses DUE Sun., Mar. 15th 11:59P
	Special Senses	VB Chapters 23	
MARCH 16th – MARCH 20th : SPRING BREAK (NO CLASS ACTIVITIES)			
WEEK 10 Mar. 23 rd to Mar. 29 th	Muscular System	VB Chapters 13-16.5 TGB p. 35-37, 61-62, 127-129, 149-150, 188-193, 240-241, 296-299, 366-368, 384-386	VB Quizzes : Muscular System DUE Sun., Mar. 29th 11:59P
WEEK 11 Mar. 30 th to Apr. 5 th	Head, Neck, and Trunk	VB Chapters as indicated TGB Chapter 4 & 5	VB Quiz : Head, Neck, and Trunk DUE Wed., Apr. 1st 11:59P
EXAM 3 (THURSDAY, APRIL 2nd 12:00AM – SATURDAY, APRIL 4th 11:59PM) (INCLUDES SKELETAL SYSTEM INFO)			

WEEK	TOPIC	READING	QUIZZES/ASSIGNMENTS
WEEK 12 Apr. 6 th to Apr. 12 th	Upper Extremity (Shoulder & Elbow)	VB Chapters as indicated TGB Chapter 2 & 3	VB Quiz : Shoulder & Elbow DUE Sun., Apr. 12th 11:59P
WEEK 13 Apr. 13 th to Apr. 19 th	Upper Extremity (Elbow & Wrist/Hand)	VB Chapters as indicated TGB Chapter 3	VB Quiz : Wrist/Hand DUE Sun., Apr. 19th 11:59P
WEEK 14 Apr. 20 th to Apr. 26 th	Lower Extremity (Pelvis & Hip)	VB Chapters as indicated TGB Chapter 6	VB Quiz : Pelvis and Hip DUE Sun., Apr. 26th 11:59P
WEEK 15 Apr. 27 th to May 3 rd	Lower Extremity (Knee & Ankle/Foot)	VB Chapters as indicated TGB Chapter 7	VB Quiz : Knee & Ankle/Foot DUE Sun., May 3rd 11:59P
FINAL EXAM (MONDAY, MAY 4th 12:00AM – WEDNESDAY, MAY 6th 11:59PM)			