



Course Syllabus

COURSE: VNSG1420.151 (4:4:0) Anatomy and Physiology for Allied Health (4 Credit Hours)
SEMESTER: FALL (16 week course)
CLASS DAYS: ONLINE
CLASS TIMES: ONLINE

INSTRUCTOR: KRISTIE A. COLE, M.ED., BAS, AAS, CST, FAST
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“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, SPC Student Handbook, and Program Handbook. *

COURSE DESCRIPTION

This course is an introduction to the normal structure and function of the body, including an understanding of the relationship of body systems in maintaining homeostasis.

COURSE OBJECTIVES AND LEARNING OUTCOMES

Cognitive Domain Objectives

- Name and describe body planes
- Classify organs under appropriate body systems
- List the major closed cavities of the body and their contents
- Describe the basic structure of cells and related cellular components
- Identify types of tissue that make up body organs and the characteristics of each
- Describe the organs and identify them
- Recognize different phases of cell division
- Outline the functions and composition of the skin
- Describe the layers of skin and the components of each
- List the categories of bones in the body
- Identify the different parts of long bones
- Name the prominent features of the bones, joints, and cartilage
- Discuss the characteristics of the types of muscle
- List, locate, and describe the major anatomic and functional parts of the nervous system
- Define the special senses and the anatomical features of the eye and ear
- Describe blood components and their functions

- Define the anatomic structures and the physiologic functions of the heart
- List the various types of blood vessels, their anatomic differences, and the major arteries and veins
- Describe the components and functions of the lymphatic system and its relationship to the circulatory system
- List and describe the structure, function and regulatory mechanisms of the respiratory system
- Describe the structure and function of the digestive system
- List the structure, function, and regulatory mechanisms of the urinary system
- List and describe the structure and functions of the male and female reproductive systems
- Identify and locate the major endocrine glands and list the major hormones and their functions

Psychomotor Domain Objectives

- Locate all major bones
- Locate all major muscles
- Describe the actions of different muscles
- Explain the actions and functions of the different joint types
- Sketch the process of cell division
- Describe the mechanism of muscle contraction
- Explain the difference between the Central and Peripheral Nervous systems
- Locate all major organs
- Explain the primary function of major organs
- Describe the flow of blood through the chambers of the heart
- Differentiate between blood types and Rh factors
- Describe the digestive and elimination processes
- Describe functions of the male and female reproductive systems
- Locate all major arteries, veins, and nerves

Affective Domain Objectives

- Discuss the pros and cons of blood transfusions
- Discuss the pros and cons of organ donation
- Discuss how the body maintains homeostasis
- Evaluate the importance of cell movement and responsiveness
- Discuss the techniques of tissue typing and the importance of DNA testing
- Compare and contrast negative and positive feedback
- Discuss organ replacement problems and methods of solving them
- Order and explain the types and stages of wound healing
- Discuss the functions of bones and joints
- Evaluate the factors that are important to the Surgical Technologist's understanding of muscle anatomy and physiology
- Compare and Contrast the functions of the lobes of the brain
- Discuss the anatomy and physiology associated with the senses
- Evaluate clinical signs of myocardial infarction
- Discuss the mechanisms of HIV
- Compare and contrast specific and non-specific immune defenses

OUTCOME ASSESSMENT METHODS

Assessment methods for this course are both formative and summative.

Formative assessments include:

- Discussions
- Quizzes
- Unit exams
- Classroom
- Lab Activities
- Case Study/Presentation

Summative assessments include:

- A comprehensive final exam.

Evaluation methods

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

Instructional methods

Methods of Instruction may include:

- Lecture
- Discussion
- Audio-Visual
- Reading assignments
- Written assignments
- Exams
- Class Presentation

GRADING FORMULA

A minimum of 75% on all exams and assignments is required to receive a passing grade for that exam or assignment. Students must earn an overall grade of 75% or better for each course section to pass that section.

Grades in this course will be determined using the following criteria:

The course grade will be determined by a combination of major exams, chapter homework, quizzes, and a comprehensive final exam. Exam dates will be announced. The following guidelines will be followed regarding coursework:

1. The student is expected to complete the exam at the scheduled time. Make-up exams will **NOT** be given.
2. Late assignments will not be accepted.
3. The final exam is comprehensive.

Assessment Tools	%
MindTap – Chapter Assignments (19)	15%
Chapter Exams (6)	35%
Chapter Quiz (6)	20%
Comprehensive Final Exam	30%
Percentage Score	Grade
90-100	A
80-89	B
75-79	C
0-74	F

A final grade average of C (75) must be maintained in all Surgical Technology classes. You must pass this course to proceed to the next semester. Failure to maintain grades will be a dismissal of the SRTG program.

Grading Policies

To successfully complete this course, students are required to achieve a grade of 75% or higher. Those who do not meet this passing requirement will not be permitted to proceed within the SPC program.

ASSIGNMENT SUBMISSION 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 skills that are missed due to an unexcused absence may not be made up. See the instructor for more specific information.

Exam Policy

-Please update your computer before starting exams. You might want to log out of blackboard and log back in before starting your exam. You only get 1 attempt per exam!

-Please make sure your computer is plugged into a power source or fully charged while taking your exams. If your computer battery dies during an exam your exam will be submitted at that point!

Each Chapter (19 chapters) will have a chapter exam (19 exams) given via Blackboard. The chapter exams ARE timed and will be a portion of your course grade. You will be given 2 minutes per question. There will also be an exam for the syllabus that will be calculated into your chapter exam grade.

There is a mandatory attendance for all course sections. Missing any quiz will result in a zero grade, as there are no makeup opportunities for quizzes.

COMPREHENSIVE FINAL EXAM

-Please update your computer before starting exams. You might want to log out of blackboard and log back in before starting your exam. You only get 1 attempt per exam!

-Please make sure your computer is plugged into a power source or fully charged while taking your final exam. If your computer battery dies during an exam your exam will be submitted at that point!

The comprehensive final exam WILL BE timed, given via Blackboard, and will be a portion of your course grade. You will be given 2 minutes per question. The final exam must be completed within the time frame specified by the instructor.

SPC Campus Policies

For information regarding official South Plains College statements about intellectual exchange, disabilities, non-discrimination, Title V Pregnancy Accommodations, CARE Team, COVID, and Campus Concealed Carry, please visit: <https://www.southplainscollege.edu/syllabusstatements/>



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 conduct 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.

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 final 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.

Attendance:

Students are expected to attend all classes in order to be successful in a course. The student may be administratively withdrawn from the course when absences become excessive, as defined in the course syllabus.

When an unavoidable reason for class absence 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 reporting to a class after official enrollment, absences will be attributed to the student from the first class meeting.

Students who enroll in a course but have "Never Attended" by the official census date, as reported by the faculty member, 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 an "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 emergency medical information being taught, the instructor of this course defines excessive absences as missing the 4th class day (or having equivalent tardies) in a course section. A student who meets these criteria will be administratively dropped from the course by the instructor.

- Tardies: (Definition): arriving any time after the class has started or not returning from an approved break after class has started.
- Two tardies will be considered missing one class day and counted as such.
- Work schedule is not an excuse for missing class.

- Any exceptions to this policy must be discussed on an individual basis with the course instructor and the SRTG Program Director. (i.e. – student hospitalization, immediate family member death, etc.)

Drop and Schedule Change:

Students should submit a [Student Initiated Drop Form](#) online.

Students will not be required to obtain an instructor signature to drop, however, we do encourage students to communicate with instructors or advisors prior to dropping a course when they are able. **There will be no charge for drops for the fall or spring semesters.**

Withdrawing from all classes

If a student wishes to withdraw from all courses, they should initiate that process with the Advising Office. They can schedule an appointment with an advisor by visiting <http://www.southplainscollege.edu/admission-aid/advising/spcadvisors.php> or by calling 806-716-2366.

Syllabus Statements

For information regarding official South Plains College statements about intellectual exchange, disabilities, non-discrimination, Title V Pregnancy Accommodations, CARE Team, and Campus Concealed Carry, please visit: <https://www.southplainscollege.edu/syllabusstatements/>



COMMUNICATION

Email

Electronic communication between instructor and students in this course will utilize the South Plains College “My SPC” and email systems. I will utilize Remind messaging and you may communicate with me this way also. The instructor will not initiate communication using private email accounts. Students are required 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 which will be delivered via the classroom website. Any student having difficulty accessing the classroom website or their email should immediately contact their instructor for directions. The instructor will work with any student to ensure the student has access to a computer on campus and can obtain the needed class content that is located on the course website.

- Instructor will not communicate using private email accounts.**
- I will return e-mails within 24 hours. If you need immediate assistance, please call me 806-716-4643. If leaving a message please give your name, student ID #, and a good phone # to return your call.**

Cell Phone/Smart watch policy

Cell Phones – Cell phones are to be turned OFF or silenced during scheduled class periods. **Text messaging is not allowed during scheduled class/lab times.** Cell phones are to be used outside the classroom or lab only on designated breaks. Students are not allowed to have cell phones on their person during exams.

Social Media

FACEBOOK/INSTAGRAM

The Surgical Technology Program has a Facebook page at <https://www.facebook.com/SPCSurgicalTechnology>. In addition to the South Plains College website, this Facebook page will be used to keep students up-to-date on program activities, weather delays, South Plains College announcements and will help with program recruitment. “Liking” the Surgical Technology Facebook page is not mandatory, nor are personal Facebook accounts, to access this page.

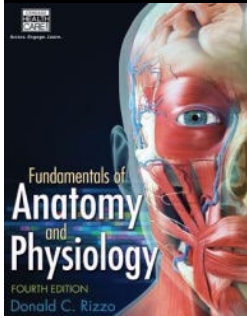
Students are NOT allowed to contact faculty (full-time or part-time) through ANY Social Media platforms. This form of contact is not acceptable and extremely unprofessional and could result in dismissal from the Surgical Technology Program.

RESOURCES

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.

Text and Course materials:



Textbook(s):

Fundamentals of Anatomy and Physiology / Edition 4
by Donald C Rizzo
ISBN-10: 1-285-17415-1
ISBN-13: 978-1-285-17415-0

Computer: Needed for all exams, homework, and assigned projects. While a personal computer is not mandatory, multiple computer labs are available for student use during school hours, and laptops can be borrowed for in-class exams.

SPC EMAIL – Students are required to have their SPC email in working order at all times.

- Instructor will not communicate using private email accounts.
- I will return e-mails within 24 hours. If you need immediate assistance, please call me 806-716-4643. If leaving a message please give your name, student ID #, and a good phone # to return your call.

Remind – Students are required to sign up for Remind for the duration of the Surgical Technology Program, this is used for program communication. Students may use Remind system to alert the instructor after 7:00 am and before 8:00 pm. This system is NOT for use on testing, assignment or project questions please email the course instructor.

Additional Classroom Requirements:

METHODS OF TEACHING

- Lecture
- PowerPoint Presentation
- Question and Discussion
- Review
- Quizzes
- Examinations

Students should come to class prepared with pens, pencils, and a spiral notebook for taking notes or completed quizzes or assignments in class. Students should be prepared to take notes over lecture material if they choose.

Computer Usage:

As computer technology in the field of health occupations continues to become more popular, computers will be used in this course for several assignments. All students have access to computers and printers on the South Plains College campus. Students will be expected to utilize computers to access assignments and classroom resources. 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 hours or as assigned by an instructor. Printer paper will not be provided for students to print materials but students may seek assistance from faculty or staff to

request lab paper from the college if needed. Lack of computer lab paper is not an excuse for not having homework assignments, skills lab sheets, or any other required documents. Students should come prepared for class.

COURSE SCHEDULE

Refer to Blackboard for course schedule and due dates on assignments

Course Outline is subject to change by the instructor.

Lecture Topics – Lecture/PowerPoint/ Exam

- Anatomical Organization
- Cells and Tissues
- The Integumentary System
- The Muscular System
- The Skeletal System
- Blood
- The Lymphatic System
- The Cardiovascular System
- The Respiratory System
- The Digestive System
- The Nervous System
- The Senses
- The Urinary System
- The Endocrine System
- The Reproductive System

WEEK 1 Monday: 8/25 Coursework Opens Sunday: 8/31 Coursework DUE by 11:59 pm	Introduction and signing of syllabus forms Chapter 1: The Human Body - Introduction - Terms of direction - Planes - Cavities - Structural units - Homeostasis - Chapter 2: The Chemistry of Life DUE SUNDAY @ 11:59 pm: EXAM DUE SUNDAY @ 11:59 pm: HOMEWORK
WEEK 2 Monday: 9/1 Coursework Opens Sunday: 9/7 Coursework DUE by 11:59 pm	Chapter 3 Cell Structure - Introduction - History of the cell theory - Discuss the principles of the modern cell theory. - Anatomy of a typical cell Chapter 4 Cellular Metabolism and Reproduction: Mitosis and Meiosis - Introduction to cellular metabolism - Cellular metabolism or biochemical respiration - Anaerobic respiration - Production of ATP from general food compounds - Introduction to cellular reproduction

	- The structure of the DNA molecule - The cell cycle - Meiosis—a reduction division - Gametogenesis - A comparison of mitosis and meiosis - DUE SUNDAY @ 11:59 pm: EXAM DUE SUNDAY @ 11:59 pm: MINDTAP
WEEK 3 Monday: 9/8 Coursework Opens Sunday: 9/14 Coursework DUE by 11:59 pm	Chapter 5 Tissues - Introduction - Epithelial tissue - Connective tissue - Muscle tissue - Nervous tissue DUE SUNDAY @ 11:59 pm: EXAM DUE SUNDAY @ 11:59 pm: MINDTAP
WEEK 4 Monday: 9/15 Coursework Opens Sunday: 9/21 Coursework DUE by 11:59 pm	Chapter 6 Integumentary System - Introduction: - The layers of the skin - The accessory structures of the skin - The functions of the integumentary system DUE SUNDAY @ 11:59 pm: EXAM DUE SUNDAY @ 11:59 pm: MINDTAP
WEEK 5 Monday: 9/22 Coursework Opens Sunday: 9/28 Coursework DUE by 11:59 pm	Chapter 7 Skeletal System - Introduction - The functions of the skeletal system - The growth and formation of bone - The histology of bone - The classification of bones based on shape - Bone markings - Divisions of the skeleton - How to study the bones of the skull - The appendicular skeleton - The arches of the foot: Chapter 8 Articular System - Introduction - The classification of joints—structure and function - Movements at synovial joints - The six types of diarthroses or synovial joints - Bursae DUE SUNDAY @ 11:59 pm: EXAM DUE SUNDAY @ 11:59 pm: MINDTAP

WEEK 6 Monday: 9/29 Coursework Opens Sunday: 10/5 Coursework DUE by 11:59 pm	Chapter 9 The Muscular System - Introduction - The types of muscles - The anatomy of skeletal or striated muscle - The physiology of muscle contraction - The muscle twitch - Muscle tone - The anatomy of smooth muscle - The anatomy of cardiac muscle - The naming and actions of skeletal muscles - The function and location of selected skeletal muscles DUE SUNDAY @ 11:59 pm: EXAM DUE SUNDAY @ 11:59 pm: MINDTAP
WEEK 7 Monday: 10/6 Coursework Opens Sunday: 10/12 Coursework DUE by 11:59 pm	Chapter 10 The Nervous System: Introduction, Spinal Cord, and Spinal Nerves - Introduction - Organization - Classification of nerve cells - The physiology of the nerve impulse. - Grouping of neural tissue - The spinal cord - The spinal nerves Chapter 11 The Nervous System: The Brain, Cranial Nerves, Autonomic Nervous System, and the Special Senses - The principal parts of the brain - The anatomy and function of the brainstem - The anatomy and function of the diencephalon - The cerebrum—structure, and function - The cerebellum—structure, and function. - The autonomic nervous system - The 12 cranial nerves and their functions - The special senses: Introduce the five special senses. DUE SUNDAY @ 11:59 pm: EXAM DUE SUNDAY @ 11:59 pm: MINDTAP
WEEK 8 Monday: 10/13 Coursework Opens Sunday: 10/19 Coursework DUE by 11:59 pm	Chapter 12 Endocrine System - Introduction - The functions of hormones - The hypothalamus of the brain

	- The anterior pituitary gland, its hormones, and some disorders: - The posterior pituitary gland and its hormones. - The thyroid gland, its hormones, and some disorders - The parathyroid glands, their hormone, and some disorders - The adrenal glands, their hormones, and some disorders - The pancreas, its hormones, and some disorders - The testes and the ovaries - The thymus gland and its hormone - The pineal gland and its hormone DUE SUNDAY @ 11:59 pm: EXAM DUE SUNDAY @ 11:59 pm: MINDTAP
WEEK 9 Monday: 10/20 Coursework Opens Sunday: 10/26 Coursework DUE by 11:59 pm	Chapter 13 The Blood - Introduction - Functions of the blood - Blood cell anatomy and functions - The clotting mechanism - The blood groups - DUE SUNDAY @ 11:59 pm: EXAM DUE SUNDAY @ 11:59 pm: MINDTAP
WEEK 10 Monday: 10/27 Coursework Opens Sunday: 11/2 Coursework DUE by 11:59 pm	Chapter 14 The Cardiovascular System - Introduction. - The anatomy of the heart - Blood flow through the heart - The conduction system of the heart - A cardiac cycle - Anatomy of blood vessels DUE SUNDAY @ 11:59 pm: EXAM DUE SUNDAY @ 11:59 pm: MINDTAP
WEEK 11 Monday: 11/3 Coursework Opens Sunday: 11/9 Coursework DUE by 11:59 pm	Chapter 15 The Lymphatic System - Introduction - The functions of the system and the structure and functions of the lymphatic vessels - The organs of the lymphatic system - Immunity - Antigens and - The cells of the immune response and other defenses

	DUE SUNDAY @ 11:59 pm: EXAM DUE SUNDAY @ 11:59 pm: MINDTAP
WEEK 12 Monday: 11/10 Coursework Opens Sunday: 11/18 Coursework DUE by 11:59 pm	Chapter 16 Digestive System - Introduction - General organization - Histology - The mouth or oral cavity - The pharynx - The esophagus. - The stomach - The pancreas. - The liver - The small intestine - The large intestine DUE SUNDAY @ 11:59 pm: EXAM DUE SUNDAY @ 11:59 pm: MINDTAP
WEEK 13 Monday: 11/17 Coursework Opens Sunday: 11/23 Coursework DUE by 11:59 pm	Chapter 17 Respiratory System - Introduction - The anatomy and functions of the nose - The structure and functions of the pharynx - The larynx or voice box - The trachea or windpipe. - The bronchi and bronchial tree. - The anatomy and function of the lungs - The respiration process DUE SUNDAY @ 11:59 pm: EXAM DUE SUNDAY @ 11:59 pm: MINDTAP
WEEK 14 Monday: 11/24 Coursework Opens Sunday: 11/30 Coursework DUE by 11:59 pm	Chapter 18 The Urinary System - Introduction: - The functions of the urinary system - DUE SUNDAY @ 11:59 pm: EXAM DUE SUNDAY @ 11:59 pm: MINDTAP
Week 15 Monday: 12/1 Coursework Opens Sunday: 12/7 Coursework DUE by 11:59 pm	Chapter 19 The Reproductive System - Introduction- - The male reproductive system - The female reproductive system - The mammary glands - Pregnancy and embryonic development - DUE SUNDAY @ 11:59 pm: EXAM DUE SUNDAY @ 11:59 pm: MINDTAP

WEEK 16 12/7 -12/9	Comprehensive FINAL DUE Tuesday @ 11:59 pm: EXAM
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SYLLABI ACKNOWLEDGEMENT STATEMENT

Required completion by the end of Week 1, Sunday, by 11:59pm.

After reading and understanding the contents of this syllabus:

- Go to SPC's Blackboard, <https://southplainscollege.blackboard.com>
- Choose the _____ course
- Click on the Course content area
- Click on Syllabus Acknowledgment
- Click on Create Thread
- In the Subject field type: Syllabus
- In the Message field type:

I, (fill in your first and last name), student ID (xxxxxxx), have received, read, and understand the contents of the syllabus for the (Course title and number), Spring 2024. Date (today's date).