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BIOLOGY 2401 (4:3:3)

SECTIONS 005, 013

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Sandra Carter DVM



SPRING 2019  
SOUTH PLAINS COLLEGE

**COURSE INFORMATION**  
**Biology 2401**  
**Human Anatomy and Physiology I**  
**Spring 2019**

**Instructor:**

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**Spring 2019 A&P Classes:**

Biol 2401	LVL	Sec 005 MW 2:30 pm- 5 pm	S143/ S151
	PLV	Sec 013 TTh 11-1:30 pm	PC128/118

**Office Hours:**

Levelland	Monday 2-2:30 pm; 5-5:30 pm Wednesday 2-2:30 pm; 5-5:30 pm Friday 10:30 am- 12:30 pm
Plainview	Tuesday 1:30-4:00 pm Thursday 1:30-4:00 pm

**General Course Syllabus:**

Available on Blackboard

**Purpose:**

To provide a general understanding of human anatomy and physiology for those students in the allied health fields  
To meet requirements for an Associate in Arts degree or Associate in Science degree  
To meet the requirements of transfer students working toward a Bachelor of Arts or Bachelor of Science degree

Human Anatomy and Physiology 2401 is a sophomore-level class. One semester of college chemistry and a general biology or zoology class are highly recommended as pre-requisite courses.

NOTE: Chemistry 1406 is **required** as a prerequisite for admission to the Covenant School of Nursing and is required for a BSN, so pre-nursing students are recommended to take Chem 1406 prior to enrollment in Biol 2401. A strong background in chemistry is essential for understanding anatomy and physiology and will increase your chance of succeeding in the course.

Medicine is very detail-oriented! Therefore, the memorization of very detailed information, as well as comprehension of that information is required to establish a basic knowledge of anatomy and physiology. **Due to the volume of information covered and the rapid pace of this course, you must be prepared to spend lots of time outside of class studying the text, lecture notes and the lab materials!!! You should be prepared to study in the lab outside of your regular class period (especially when we are learning bones and bone markings and skeletal muscles), and be aware that many resources (the Reese campus and Levelland campus SPC Libraries, A&P Labs in this building, etc.) have limited hours of operation during the semester.**

Because of the volume of information you need to learn and limited lecture and lab time, you **must read and study the information presented in the textbook**. I expect you to learn this material even though we may not cover it in class. I have prepared outlines of the Power Point presentations- they are **not** complete! They will assist you in following along in lecture and studying the textbook.

#### **Required Materials for Biol 2401:**

1. **Textbook-** you will need a good anatomy and physiology textbook for the course. There are numerous options for acquiring a text. Options include:
  - a. Marieb, Elaine N. and Hoehn, Katja, Human Anatomy and Physiology, 11<sup>th</sup> Edition (NEW)- comes in a package bundled with A Brief Atlas of the Human Body, 2<sup>nd</sup> Edition, Student access kit with access code for Mastering A&P website including PAL, Interactive Physiology, Get Ready for A&P by Lori K. Garrett
    - the new text (hard cover or loose leaf) package should be available at the SPC bookstores- LVL and possibly Reese
    - used editions may also be available at bookstore or online at Amazon, eBay or Barnes & Noble
    - you may also be able to rent a copy at Chegg or Amazon
  - b. Marieb, Elaine N. and Hoehn, Katja, Human Anatomy and Physiology, 11<sup>th</sup> Edition e-text
    - you can purchase an online subscription to the e-text at [www.masteringaandp.com](http://www.masteringaandp.com)
  - c. Marieb, Elaine N. and Hoehn, Katja, Human Anatomy and Physiology, 11<sup>th</sup> Edition loose-leaf text
    - you can purchase an online at [www.masteringaandp.com](http://www.masteringaandp.com)
  - d. Marieb, Elaine N. and Hoehn, Katja., Human Anatomy and Physiology, 10<sup>th</sup> Edition (USED). ISBN-13: 978-0321927040 or ISBN-10: 0321927044
    - you can purchase a used textbook online, so check eBay, Amazon, B&N
    - you may also be able to “rent” a copy at Chegg, Amazon, etc.
  - e. Marieb, Elaine N. and Hoehn, Katja., Human Anatomy and Physiology, 9<sup>th</sup> Edition (USED). ISBN-13: 978-0321743268 or ISBN-10: 0321743261
    - you should be able to find the 9<sup>th</sup> edition Marieb text on Amazon or eBay
  - f. Alternate Anatomy and Physiology text- such as Martini, Tortora, Saladin text

-as long as the textbook has been printed within the past 5-6 years, it should be acceptable for this course. If you have questions, ask me about your text.

**2. Access to Mastering A&P website**

Options include:

- a. the NEW text in the package comes bundled with access code to website
- b. if using used text or different text, you will need to purchase access at [www.masteringaandp.com](http://www.masteringaandp.com) . Course ID: BIOL2401SP19

**3. Photographic Lab Atlas**

Options include:

- a. An atlas is bundled with NEW Marieb 11<sup>th</sup> ed. text package
- b. A Brief Atlas of the Human Body, 2<sup>nd</sup> ed. Marieb, Hutchinson, Mallat. ISBN: 978-0321662613  
-you can purchase a used copy at the SPC LVL bookstore, or located a new or used copy on Amazon or eBay
- c. Van de Graaff's Photographic Atlas for the Anatomy and Physiology Laboratory, 8e<sup>8th</sup> Edition. Morton, David A. and Crawley, John L. 2016. ISBN-13: 978-1617312779 or ISBN-10: 1617312770
- d. Van de Graaff's Photographic Atlas for the Anatomy and Physiology Laboratory, 7e<sup>7th</sup> Edition. Morton, David A. and Crawley, John L. 2011. ISBN-13: 978-0895828750 or ISBN-10: 0895828758

**4. Outline of Power Point presentations i.e. "lecture notes" and lab handouts available on Blackboard**

**5. 4 unmarked blue 100 question scantrons**

**Attendance Policy:**

**SPC General Attendance Policy:**

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 that 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 “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.

#### **Biol 2401 Attendance Policy:**

Attendance at all lectures and labs is **mandatory**. In order for you to master the material presented, it is essential that you attend every lecture and lab. I routinely take attendance at the start of each class meeting. **If you are not in attendance when roll is taken but come in later, it is imperative that you notify me that you are in attendance, as my records will indicate that you are absent.** A student may be administratively dropped after missing a total of 4 absences during the semester. I will closely monitor your attendance and if you accrue 4 absences during the semester, I may drop you from the course for non-attendance. It is your responsibility to discuss with me any situations that preclude you from attending class and cause you to accrue numerous absences, to avoid being dropped from the course for non-attendance. If a student is administratively (i.e. instructor initiated) withdrawn from the class for non-attendance, the grade on transcript will be an “X” or “F”.

**If absence from the class is unavoidable due to illness, funeral, official school function, etc. it is your responsibility to obtain the notes and information we covered in class from a classmate.**

**The last day to drop a class with a “W” is Thursday, April 25, 2019. If you decide to stop attending class, it is your responsibility to take the proper action to have this course officially dropped from your schedule immediately, to avoid being administratively dropped (by me for non-attendance) with an “X” or “F”.**

**NOTE: If you are receiving financial aid, it is your responsibility to visit with your financial aid advisor to determine how dropping this course will affect your present and future financial aid eligibility.**

Arrive to class on time. If you have a situation that causes you to be habitually late to this class, you need to discuss the situation with the instructor, as we may be able to make other arrangements. If you are habitually late, you may be administratively dropped from the course after 8 tardies. Come to class prepared by reading lecture and lab assignments and studying previous notes.

**For additional information regarding: the semester calendar, registration schedule, and drop/withdrawal policy and procedures, class attendance, drops and withdrawals, academic probation and suspension, academic integrity, student conduct, student records, etc. please refer to the SPC General Catalog 2019-20, which is available online at [www.southplainscollege.edu](http://www.southplainscollege.edu).**

#### **Major Exams:**

There will be six major exams this semester, four exams that cover primarily lecture material but may also include material covered in lab and two lab exams, the bone practical and muscle practical. Your final grade will be determined by your cumulative point total from 6 equally weighted exams, each worth 100 points (maximum total points 600).

Final grade	Course Average	Total number of points (accounts for rounding)
A	>90%	537-600 pts
B	80-89.5	477-536
C	70-79.5	417-476
D	60-69.5	357-416
F	<59.5	<357

You will be expected to bring a #2 pencil and a good eraser to all exams. It is your responsibility to keep track of grades earned in the course.

**Missed Exam Policy:**

All exams should be taken on the scheduled day and class time. Make-up exams will be given only in certain circumstances. If you miss an exam due to extenuating circumstances such as serious illness, death of an immediate family member, or official school business you may be required to provide **written** proof and the appropriate documentation regarding the absence. The student is responsible for notifying the instructor **within 24 hours** of the scheduled exam about such emergencies. **The make-up exam must be taken within 7 days of the scheduled exam. It will be your responsibility to make arrangements to be present for the make-up exam. All decisions regarding make-up exams are at the discretion of the instructor.** A grade of zero for the missed exam will be recorded if these conditions are not met. Any other missed exams will receive a grade of zero.

Make-up exams are often different from the regularly scheduled exams and tend to be more difficult.

**Lab Safety:**

Information and instructions regarding safe laboratory procedures and potentially hazardous chemicals will be presented in lab. **No food or drinks are allowed in the laboratories at any time. You may not remove items from the lab to take home to study (i.e. bones, models, etc).**

**SPC Disability 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 Office) 806-716-2577, Reese Center (Building 8) & Lubbock Center 806-716-4675, or Plainview Center (Main Office) 806-716-4302 or 806-296-9611.

**Non-Discrimination Statement:**

South Plains College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies: Vice President for Student Affairs, South Plains College -1401 College Avenue, Box 5, Levelland, TX 79336, 806-894-9611

**Cell Phones:**

Please make sure that your cell phone is off and **does not ring in class. Texting is not allowed during class or lab. All cell phones must be put away and cannot be used during exams.**

**Academic Dishonesty:**

Students are expected to abide by the code of "Student Conduct" that can be found in the SPC General Catalog 2019-20 at [www.southplainscollege.edu](http://www.southplainscollege.edu). Cheating in any form is inexcusable and will result in serious consequences. Any student found copying another student's work or answers will be dropped from the class with an "F". Any student willfully allowing another student to copy his/her work will also be dropped from the class with an "F".

Academic dishonesty will be subject to the maximum penalties allowed by College policy.

**Study Materials:**

In order to assist you in studying Anatomy and Physiology 1 and 2, the Levelland and Reese SPC campus libraries have models, bones and other lab materials on reserve at the circulation desk. You can check-out these items for study in the library during the hours of operation of the library.

The TTU main library has bones and models on reserve for SPC students to use. You will need to go to the reserve desk and use your SPC ID card to check out models for a 2 hour time period for study IN the library only.

TTU Main Library Hours: [www.library.ttu.edu/about/facility/hours.php](http://www.library.ttu.edu/about/facility/hours.php)

**Technology Center:**

The Open Lab in the Technology Center is for use by all SPC students and faculty. The computers in the lab can be used to access web sites, power point outlines and view CD's (copies of Interactive Physiology CD on reserve)

## Biology 2401 Tentative Schedule Spring 2019

Week	M/W (005)	T/TH (013)	Lecture	Text	Lab	Text
1	Jan 14	Jan 15	Intro to A&P	Ch. 1		
	Jan 16	Jan 17	Intro to A&P	Ch. 1		
2	Jan 21		Martin Luther King Holiday			
		Jan 22	Intro to A&P	Ch. 1	Lab- Body Cavities	Ch. 1
	Jan 23		Intro to A&P	Ch. 1	Lab- Body Cavities	Ch. 1
		Jan 24	Cell- Plasma Membrane I	Ch. 3		
3	Jan 28		Cell- Plasma Membrane I	Ch. 3		
		Jan 29	Cell- Plasma Membrane II	Ch. 3		
	Jan 30		Cell- Plasma Membrane II	Ch. 3		
		Jan 31	Histology-Introduction	Ch. 4	Lab- The Cell	Ch. 3
4	Feb 4		Histology-Introduction	Ch. 4	Lab- The Cell	Ch. 3
		Feb 5	Histology- Epithelium	Ch. 4	Lab- Histology I	Ch. 4
	Feb 6		Histology- Epithelium	Ch. 4	Lab- Histology I	Ch. 4
		Feb 7	Histology- Conn. Tissues I	Ch. 4	Lab- Histology II	Ch. 4
5	Feb 11		Histology- Conn. Tissues I	Ch. 4	Lab- Histology II	Ch. 4
		Feb 12	Skeletal Tissues I	Ch. 6	Lab- Skull Cranial Bones	Ch. 7
	Feb 13		Skeletal Tissues I	Ch. 6	Lab- Skull Cranial Bones	Ch. 7
		Feb 14	<b>Exam 1</b>	Ch. 1, 3, 4	Lab- Skull Study	Ch. 7
6	Feb 18		<b>Exam 1</b>	Ch. 1, 3, 4	Lab- Skull Study	Ch. 7
		Feb 19	Skeletal Tissues II	Ch. 6	Lab- Skull Facial Bones	Ch. 7
	Feb 20		Skeletal Tissues II	Ch. 6	Lab- Skull Facial Bones	Ch. 7
		Feb 21	Skeletal Tissues III	Ch. 6	Lab- Spine and Bony Thorax	Ch. 7
7	Feb 25		Skeletal Tissues III	Ch. 6	Lab- Spine and Bony Thorax	Ch. 7
		Feb 26	Skeletal Tissues IV	Ch. 6	Lab- The App. Skel. Upper Limb	Ch. 7



	Feb 27		Skeletal Tissues IV	Ch. 6	Lab- The App. Skel. Upper Limb Bone Study	Ch. 7
		Feb 28				
8	Mar 4	Mar 5	The Joints I	Ch. 8	Lab- The App. Skel. Lower Limb	Ch. 7
	Mar 6	Mar 7	The Joints II	Ch. 8	Lab- Bones/Joints study	Ch. 7, 8
9			<b>March 11-15 SPRING BREAK</b>			
10	Mar 18	Mar 19	Nervous System I	Ch. 11	Lab- Bones/Joints study	Ch. 7, 8
	Mar 20	Mar 21	<b>Bone Practical- Exam 2</b>	Ch, 7		
			Nervous System II	Ch. 11		
11	Mar 25	Mar 26	<b>Exam 3/</b> Nervous System III	Chs. 6, 7, 8		
	Mar 27	Mar 28	Nervous System IV	Ch. 11	Lab- Neuron Anatomy	Ch. 11
12	April 1	April 2	Muscle Tissue I	Ch. 9	Lab- Muscle Fiber Anatomy	Ch. 9
	April 3	April 4	Muscle Tissue II	Ch. 9		
13	April 8	April 9	Muscle Tissue III/ CNS I	Chs. 9, 12		
	April 10	April 11	<b>Exam 4</b>	Ch. 12	Lab- The CNS I	Ch. 12
14	April 15	April 16	Central Nervous System II	Ch. 12	Lab- The CNS II	Ch. 12
	April 17	April 18	Peripheral Nervous System	Ch. 13		
15	April 22		<b>Easter Holiday</b>			
		April 23	Autonomic Nervous System	Ch. 14	Lab- The PNS/ANS	Chs. 13, 14
	April 24		Autonomic Nervous System	Ch. 14	Lab- The PNS/ANS	Chs. 13, 14
		April 25	Autonomic Nervous System			
16	April 29	April 30	<b>Exam 5</b>	Chs. 12-14	Lab- Muscular System	Ch. 10
	May 1	May 2			Lab- Muscular System	Ch. 10
17			<b>Final Exam- Exam 6- Muscle Practical</b>	Ch. 10		

Sec 005- Monday May 6 1-3 pm

Sec 013- Tuesday May 7 10:15 am-12:15 pm

**NOTE: This schedule may be changed as deemed necessary by the instructor.**