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Title: Anatomy and Physiology II w/lab  
Credit Hours: 4  
Lecture: Online  
Office Hours: location-online

Catalog Number: BIOL138-D2  
Instructor: Lisa Legere  
Instructor Contact: [llegere@smccme.edu](mailto:llegere@smccme.edu)  
or use the email button in the course

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**Course Description:**

This four-credit lecture/lab course is a continuation of BIOL 132, building on many of the fundamentals. Emphasis will be on the structure and function of the following organ systems in the human body: nervous, endocrine, cardiovascular, lymphatic, digestive, respiratory, urinary, and reproductive. The laboratory portion complements and reinforces the lecture, focusing on closer examination of these system structures via live and virtual dissection, and demonstration of their functions via simple testing. Anatomical models, prepared microscope slides and online resources may also be incorporated. Prerequisites: BIOL 132 Anatomy and Physiology I with Lab.

**Required materials, tools, or supplies:**

1. Hole's Human Anatomy and Physiology, 16th edition, by Welsh and Prentice-Craver. McGraw-Hill.
2. Laboratory Manual to Accompany Hole's Human Anatomy and Physiology, 16th edition, by Snider and Martin. McGraw-Hill.
3. Connect-Access to Anatomy and Physiology Revealed version 3 and virtual labs (purchase at the bookstore or through the bookstore online)
4. Some lab supplies will be required for the online course. A list of items is in the Getting Started folder under the Content tab.

**Course Format:**

This is a fully online course through Brightspace. We also utilize McGraw Hill's Connect-APR Revealed. Our section is 100% online and does not have any scheduled live or zoom sessions. We do however have work due each week with firm due dates. You must have constant, reliable access to a properly configured, up-to-date computer with a dependable Internet connection, either an SMCC computer or your own desktop computer or laptop. This is a requirement for the course. **Electronic devices do not support Brightspace testing and other features.**

Active participation is expected and enhances your ability to integrate the material and achieve success in the course. Online courses require a high degree of planning, time management, and effort on your part. There will be a variety of course instructional materials included in the course. Many of these materials are embedded in the assignment instructions. You are expected to read the chapter(s) and review these materials before you participate in discussion boards, and complete other work in the course. These materials will assist you with learning the material in our course. Since we are fully online with no live meetings, these instructional materials are the lecture (instructional) part of the class/lab.

### **Course Objectives**

After successfully completing the course, the student will be able to:

1. **apply** the scientific method of inquiry.
2. **define** anatomical and medical vocabulary as it relates to pathophysiology.
3. **distinguish** and **characterize** the pathophysiology of major organ systems: integumentary, musculoskeletal, nervous, endocrine, cardiovascular, lymphatic, digestive, respiratory, urinary, and reproductive.
4. **identify** and **describe** various mechanisms of disease, in adults and children.

### **Learning outcomes:**

SMCC students recognize the methodology and content of science and its relevance. SMCC students:

- apply scientific methodology to the study of the natural world.
- participate in hands-on and interactive lab activities.
- demonstrate the ability to make scientifically informed decisions.

Course outline:

1. Integration and coordination (Ch 11-13, Labs 26-36)
2. Transport of fluid and material (Ch 14-16, Labs 37-42)
3. Absorption and excretion (Ch 17, 19-21, Labs 43-49)
4. Human reproduction (Ch 22 and part of Ch 23, Labs 50-52)

### **Contacting the Instructor:**

The best way to reach me is through email. There is a Brightspace email button right in the course under communications. Use your SMCC student e-mail for all other correspondences. I try and respond to all emails within 24-48 hours (most of the time within 24 hours). If for some reason I don't respond don't hesitate to email me again. I do take Saturday as a family day, so I am not online on Saturdays.

**Schedule:** Please see the end of syllabus for course schedule. (assignment due dates, exams, etc). It can be helpful to print the course schedule and check off the items as you complete them (especially since there are a lot of components in this course). This way you can be sure you've completed all the work for the week. *The due dates are really "due by" dates. Work is due by 11:59pm on the last day of each availability period and can be submitted anytime during its availability period. Don't wait until the last minute to submit work. You never know if something will come up.*

### **Attendance Policy:**

There is no specific amount of time that you must spend in our course, however I strongly recommend that you log in 3-4 times per week (non-consecutive days). *There is work to do every week*, so full attendance and participation are expected. ***To be considered "present" for class, you must be submitting work regularly, as required throughout the semester.***

Failure to log in for a **two-week period** (14 days in a row with no logins at all) OR missing all the assigned work during a **two-week period** (even if logging in) without having contacted me ahead of time to explain the reason in either case, will result in administrative failure (grade of AF). [The attendance policies in your other online courses may be different from this one.](#)

### Late and Makeup Work:

The way to do well in this course is to be aware of what's coming up and complete ALL work to a high standard. Due dates for all work show up on the schedule. I also understand that life happens. Communication is key, especially in a fully online course. If something comes up, please reach out to me ASAP so a plan can be put into place. You MUST reach out before the due date to see if an extension is possible without deduction. Late deduction for work turned in after the due date without an extension:

Assignments turned in after the due date will lose 5 points per day it's late. Late work will not be accepted after it's 7 days late and/or an exam has been given over the material. For some assignments, such as the homework quizzes and virtual labs, I manually deduct the points after completion. For APR assignments you lose 5% per day late.

Exams (chapter and lab practicals) need to be submitted on time and cannot be done late unless there's an extreme circumstance and approval by the instructor prior to the exam due date.

Discussions lose 5 points per day late and will not be accepted after it's 7 days late.

Extra credit work isn't available in this course, and I don't drop any grades. Incomplete (I) grades are available only in extreme, narrow circumstances.

### Files in Brightspace-

Some assignments specify the type of file to submit. For others you can choose the file type, however not all file types are accepted in Brightspace (i.e. pages, keynote, HEIC, and a few others. Please see the item in the Welcome folder for accepted file types.

### What am I graded on in the course?

***What's involved with grading-*** Earning a good grade in any course isn't difficult if you're aware of and follow the course policies, have realistic expectations of yourself and your circumstances, complete all work to a high standard, and understand that you are responsible for your performance.

### Graded work required:

Discussions	10%
Lab Assignments	30%
APR Assignments	20%
Exams-Chapter	20%
Exams-Lab Practical	<u>20%</u>
<b>Total</b>	<b>100%</b>

### Calculating your own grade:

All graded items are listed on the schedule. You should always know where you stand, grade-wise, in any course. On this page and the next page, there is more information about the graded items above. More information is also posted in Brightspace. You will see a "grade estimate" column in "grades". This column is an ongoing calculation of grades; however, it only takes into account the items you have a grade for. For instance, if an assignment hasn't been graded your grade may not be 100% accurate as this assignment wouldn't be in the calculation.

<b>Grade scale:</b>	100-93 = A	86-83 = B	76-73 = C	66-63 = D
	92-90 = A-	82-80 = B-	72-70 = C-	62-60 = F
	89-87 = B+	79-77 = C+	69-67 = D+	

**Discussions (10%):**

Each week that there is a discussion (except week 1-introduction post only), you will be creating 2 posts with questions **and** responding to 2 classmates with thorough answers. For the assigned lab exercises or for the assigned chapters, write a few questions that occurred to you while studying the material. Do the best you can to answer another student's question. Answering a question is likely to require you to read your textbook and/or look for additional references online. The discussions are intended to be a study group where you will interact with other students, and I will participate infrequently. If you have a question that you want me to answer, send an e-mail directly to me. Use subject lines that help others to find your discussion thread topic. A subject line such as "question" is not useful. A subject line such as "the hippocampus resembles a seahorse?" is more helpful.

Remember that the other students in your Anatomy and Physiology class are likely to be following a career path that is much like your path. These people may be friends and colleagues years from now, or they may be interviewing you for a future job. Before you post a message, look it over and ask yourself if the message has a tone that is both professional and friendly. It is appropriate to admit that you don't know everything. It is never appropriate to insult other students and use offensive language. Avoid slang or other phrasing that is not professional.

A post that says "Me too" or one that was copied from another student will not count as participation. Don't write that you have no questions because you understood everything; write a particularly insightful question to demonstrate your understanding and actively help your classmates to learn and think about the material.

Do not cut and paste your posts from other sources without changing the phrasing and the sentence structure substantially. If you copy a few sentences or a paragraph from an internet source such as the Mayo Clinic or from a textbook, you must site it appropriately (quotes, etc). You also must write a few sentences to tell us what you learned from that quote and why you thought it was worth copying. All response posts need to include a full citation.

**Assignments:**

**Lab Assignments (30%):**

We will have a variety of lab assignments in this course. In the weekly folder there is a what-to-do page for the lab exercises that tell you which parts of the lab exercise in your lab manual to carry out, and it may ask you to do an experiment at home, or to watch online videos of dissections, or carry out a virtual lab in Connect. The homework that gets submitted will be in the form of a homework quiz where you enter your answers, other weeks you have a virtual lab to complete in Connect, and some labs also have a lab write up of experimental results. After completing the lab report in your lab manual, you will enter the answers in an online quiz and/or submit a lab write up. You will be able to see your scored quiz so that you can correct the answers you wrote in your lab manual.

**APR Assignments (20%):**

Each APR assignment is in McGraw Hill Connect. These assignments use both information from the textbook, as well as from APR content. You'll see a name such as "Assignment APR 11-1", etc. Each weekly folder will contain a link to the assignment. Once you're in Connect you'll see under Resources "Anatomy and Physiology Revealed". This is where you will review the material before completing the assignments.

You will be using the "my" button to choose the content we are using in this course. I have created codes to pick out the key information for this course. The module codes are on your schedule (i.e J6Zk2, etc). You'll learn more about setting this up about this during your first Assignment APR 11-1.

**Learnsmart-OPTIONAL**-Before the exams there will be LearnSMART activities in Connect that you can take advantage of as a study tool. If you choose to complete the LearnSMART activities, you can earn points on your exam. Each Chapter LearnSMART that you complete with a 75% or higher you will earn 2 points on your exam. I manually add the points to your exam score.

**NOTE:** *You only get 1 attempt to upload your assignment file, so you need to be sure that what you want graded is what you've submitted, as well as all files/images need to be uploaded in the single attempt. Make sure you are submitting a Brightspace accepted file (in the Welcome folder). Brightspace does NOT read all files such as .pages, .keynote, HEIC, and some others. I will not accept assignments via email. They must be submitted in Brightspace.*

**IMPORTANT TIP:** When you submit a file, make sure the file you're attaching isn't open on your computer. If it is, it may attach it as a blank document. I recommend adding the word *final* to your file title. This way when you attach the file you know it's your completed file you want graded. You can see your file name before hitting submit. I also recommend not waiting until the last minute. I've found in the past some students waiting until the final minutes to submit and then running into an issue. If you submit earlier, I may be able to assist you. If you've made an error and need a re-submission, there will be a 5-point deduction. You must get approval for re-submission.

### **Assessments (exams):**

Assessments in Brightspace come in the form of exams (chapter and lab practical). All exams are graded, and they count toward your course grade. They are also timed, which means you must finish each one within its allotted time period. Work completed after the allotted time does not get saved. The **exams need to be completed in one sitting, so you cannot logout and then go back into them.** I do not provide a study guide for exam. Creating your own study is a great tool for reviewing, studying, and retaining information. You can also take advantage of LearnSmart activities to study and earn extra points on the chapter exams.

#### **Exams-Chapter (20%):**

Exams are intended to measure your understanding of the material. There will be 4 exams. For each exam, one attempt is available from Monday until Sunday of the week they are in. The attempt must be completed in one sitting. Questions come from the weekly readings, including instructional material, APR, and exam test banks. Books and notes ONLY are allowed while taking the exam. The internet and other people are not allowed. Keep in mind you need this information for future courses, so it's key that you learn the material now. The exam is also timed, so if you're looking up everything you may not finish in the allotted time frame.

#### **Exams-Lab Practical (20%):**

There will be 4 lab exams. Lab exams may involve a combination of identifying structures, typing in names of structures, matching, short answer, and/or multiple-choice. Questions for the lab practical come from the lab manual, lab assignments, and APR modules. For each lab practical, one attempt is available from Monday to Sunday at 11:59pm of the week they are in.

**IMPORTANT NOTE:** Before taking an exam, be sure that you are logged into Brightspace or Connect (for exams-Chapter) **only**. Also, Firefox and Chrome seem to be the most stable browsers for Brightspace, so use it rather than Internet Explorer or Safari. **NOTE: No retakes or makeups are available for any exam unless in an extreme situation and approval must be given by the instructor prior to the due date.**

## **SMCC Policies**

### **End-of-Course Evaluation:**

Students complete evaluations for each course attended at SMCC. Evaluations are submitted online and can be accessed through the student portal. Students can access the course evaluations beginning one week before the end of classes. The deadline for submission of evaluations occurs Monday at 5 p.m. following the last day of the class. You will receive an e-mail to your student e-mail account when course evaluations are available.

### **For Classes with any Face- to -Face Component: (NOTE: our course does not have a face to face component)**

While the syllabus represents current plans, there may be changes during the semester in response to the on-going Covid-19 pandemic. Depending on the progression of the virus, it is possible that the College may have to suspend face-to-face instruction for part of the semester. If we must stop face to face instruction anytime during the semester, your instructor will contact you via your SMCC email or the Brightspace course homepage to discuss next steps for the course.

### **ADA Syllabus Statement:**

Southern Maine Community College is an equal opportunity/affirmative action institution and employer. For more information, please call (207) 741-5798. If you have a disabling condition and wish to request accommodations in order to have reasonable access to the programs and services offered by SMCC, you must register with the Disability Services Coordinator, Sandra Lynham, who can be reached at 741-5923. Further information about services for students with disabilities and the accommodation process is available upon request at this number. Course policies about online testing are modified to suit each individual's accommodations.

### **The Learning Commons:**

The library, tutoring and writing centers, and reference/research assistance (typically located on the second floor of South Portland's Campus Center and in the Midcoast's LL Bean Learning Commons and Health Science Center) will be fully available online during the Fall 2021 semester.

Here you can find free academic support through individually scheduled and drop in, online tutoring. You can also find information literacy/research librarians, and professional academic strategy/planning mentoring online. While the physical space of the Learning Commons will not be available at this time, we can also work with you to set up zoom classrooms for small group study. Services are offered by appointment or as drop-in assistance.

To access services:

- Visit My Learning in My Maine Guide or
- Select the "tutoring needed" button if it appears inside your Brightspace course.

Whether On Site or Online, students have consistently reported that the Learning Commons is a friendly, risk-free, and helpful place to seek academic support. It has also been shown that those who make use of the Learning Commons do better in a course than those who do not. We strongly encourage you to take advantage of this valuable and enjoyable resource.

### **SMCC Pay-for-Print Policy:**

Each semester students receive a \$20 printing credit. The balance resets at the end of the semester and any remaining credits are removed. The College's pay-for-print system monitors printing on all printers (including those in general access labs, library printers, Tutoring Services, Campus Center Lounge and technology labs). Be sure to log OUT of the system when you've finished your printing, to prevent unauthorized access to your account. Students can check the number of pages they have printed by using the Printing Balance tool available on SMCC computers (located in the lower right corner of the screen, near the clock). Departments with work study students who need to print documents for the department should contact the Help Desk at 741-5696 to have a special account set up. To find ways to reduce your printing charges, please go to the IT Help tab on My SMCC. If you have questions about the pay-for-printing policy or your printing charges, please contact the Help Desk at 741-5696 or send an e-mail to [helpdesk@smccme.edu](mailto:helpdesk@smccme.edu).

### **Refunds:**

Print jobs are eligible for a refund in the event of mechanical or electronic error on the part of the printer, print server, or software used to submit the job. Jobs are not eligible for a refund in cases where the job was not set up correctly, was submitted multiple times, or the student is not satisfied with the result. To request a refund, please bring the offending print to the IT Department in the basement of the Ross Technology Center. Refunds will be granted in the form of a credit to the student's account.

**Add-Drop Policy:**

Students who drop a course during the one-week “add/drop” period in the fall and spring semesters and the first three days of summer sessions receive a 100% refund of the tuition and associated fees for that course. Please note any course that meets for less than the traditional semester length, i.e., 15 weeks, has a pro-rated add/drop period. There is no refund for non-attendance.

**Withdrawal Policy:**

A student may withdraw from a course only during the semester in which s/he is registered for that course. The withdrawal period is the second through 12<sup>th</sup> week of the fall and spring semesters and the second through ninth week of 12-week summer courses. This period is pro-rated for shorter length courses, usually 75 percent of course meeting times; please check with the Registration Office. To withdraw from a course, a student must complete and submit the appropriate course withdrawal form, available at the Registration Office. This process must be completed either in person or by using SMCC e-mail accounts.

**NOTE:** *Withdrawals do not affect your GPA, but they **DO** affect your course completion rate.*

**Plagiarism Statement:**

If an instructor suspects that a student has knowingly committed a violation defined in the Maine Community College System Policy on Student Grade Appeals and Academic Misconduct, the instructor has the authority to review the alleged misconduct and determine the grade that the student should receive for the assignment and the course. The instructor may assign a failing grade for the assignment or course and may require the student to complete additional work for the course. The instructor may consult with the department chair and/or the College’s chief academic officer prior to making such decisions. If a student seeks to challenge an instructor’s determination, the student should submit a grade appeal. Grade appeal forms are available in the Advising Office on the South Portland Campus or in the administrative offices in the Learning Commons on the Midcoast Campus. An instructor may also refer the matter to the College’s disciplinary officer for review under the procedures of the MCCS Student Code of Conduct.

**Schedule**\_(Subject to change. Changes will be posted in the announcements)

*Important Dates; 1/25-last day to drop; 4/19- last day to withdraw; 5/14 (Saturday) semester ends*

Week	Chapter/Topic/Notes	Date Due	Posts/Assignments Due
Week 1 (1/18-1/23)	Welcome -Ch.11: Nervous System II-Divisions of the Nervous System (pp. 395-415) -Lab 26: Brain and Cranial Nerves -Lab 27: Dissection of the Sheep Brain	1/23	Discussion-Introduction Assignment APR 11-1 Lab 26 homework quiz Lab 27 homework quiz No response post due this week
Week 2 (1/24-1/30)	-Ch.11: Nervous System II continued (pp. 415-449) -Lab 28: Spinal Cord and Meninges -Lab 29: Reflex Arc and Reflexes -APR module 7: J6Zk2	1/27	2 Question Posts
		1/30	Assignment APR 11-2 Lab 28 homework quiz Lab 29 Virtual lab-demonstrating Monosynaptic reflexes Lab 29 Write up-Experimental observation Lab 29 homework quiz 2 Response Posts
Week 3 (1/31-2/6)	-Ch.12: Nervous System III-Senses (pp. 450-495) -Lab 30: Receptors and General Senses -Lab 31: Smell and Taste -Lab 32: Ear and Hearing -Lab 33: Ear and Equilibrium <i>-Note: eye labs will be in next week's work</i> -APR module 7: 2uE9E	2/3	2 Question Posts
		2/6	Assignment APR 12-1 Lab 30 Write up-Experimental observation Lab 30 homework quiz Lab 31 Write up-Experimental observation Lab 31 homework quiz Lab 32 homework quiz Lab 33 Write up-Experimental observation Lab 33 homework quiz 2 Response Posts
Week 4 (2/7-2/13)	-Ch.13: Endocrine System (pp. 496-514) -Lab 34: Eye Structure -Lab 35: Visual Tests and Demonstration -APR module 8: tjJH6  No Discussions this week	2/13	Lab 34 Virtual Lab-Eye Dissection Lab 34 homework quiz Lab 35 Virtual Lab-Visual Acuity Lab 35 Virtual Lab-Astigmatism Test Lab 35 Virtual Lab-Accommodation Lab 35 Virtual Lab-Color Vision Test Lab 35 Virtual Lab-Blind Spot Test Lab 35 Virtual Lab-Pupillary Reflex Lab 35 Virtual Lab-Convergence Reflex Test Lab 35 Write up-Experimental observation Lab 35 homework quiz
Week 5 (2/14-2/20)	-Ch.13: Endocrine System continued (pp. 514-537) -Lab 36: Endocrine Histology and Diabetic Pathology -APR module 8: tjJH6	2/17	2 Question Posts
		2/20	Assignment APR 13-1 Lab 36 Virtual Lab-Effects of blood glucose level Lab 36 Virtual Lab-Influence of thyroid hormone on temp r Lab 36 homework quiz 2 Response Posts Optional Learnsmart activities
Week 6 (2/21-2/27) *Exam and Practical this week!	-Ch.14: Blood (pp. 538-568) -Lab 37: Blood Cells and Blood Typing -Lab 37-Differential White Blood Cell Count -APR module 9: GWaLA  No discussions this week	2/27	Assignment APR 14-1 Lab 37 Virtual Lab-Blood Typing Lab 37 Virtual Lab-Differential White Blood Cell Count Lab 37 homework quiz-Blood Cells and Blood Typing Lab 37 homework quiz-Differential White Blood Cell Count <b>Exam 1 (Chapters #11-13)</b> <b>Lab Practical 1 (labs 26-36, APR Modules 7-8)</b>

Schedule Continued on the next page.....

Schedule Continued

Week	Chapter/Topic/Notes	Date Due	Posts/Assignments Due
Week 7 (2/28-3/6)	-Ch.15: Cardiovascular System (pp.569-590) -Lab 38: Heart Structure -Lab 39: Cardiac Cycle -APR module 9: JjMzN	3/3	2 Question Posts
		3/6	Assignment APR 15-1 Lab 38 homework quiz Lab 39-Virtual Lab-Electrocardiography Lab 39 Write up-Experimental observation Lab 39 homework quiz 2 Response Posts
Week 8 (3/7-3/13)	-Ch.15: Cardiovascular System continued (pp. 590-632) -Lab 40: Blood Vessel Structure, Arteries, and Veins -Lab 41: Pulse Rate and Blood Pressure - APR module 9: JjMzN  No discussions this week	3/13	Assignment APR 15-2 Lab 40 Write up-Experimental observation Lab 40 homework quiz Lab 41-Virtual Lab-Pulse Rate Lab 41-Virtual Lab-Blood Pressure Lab 41 Write up-Experimental observation Lab 41 homework quiz Optional Learnsmart Activities
Week 9 (3/14-3/20)	<b>Spring Break</b> -no new assigned work; take advantage of this week to study for your next chapter exam and lab practical. You can also start reading next week's chapter.		
Week 10 (3/21-3/27) *Exam and Practical this week	-Ch.16: Lymphatic System and Immunity (pp. 633-665) -Lab 42: Lymphatic System -APR module 10: xBYMX	3/24	2 Question Posts
		3/27	Assignment APR 16-1 Lab 42 homework quiz 2 Response Posts <b>Exam 2 (Chapters #14-15)</b> <b>Lab Practical 2 (labs 37-41, APR module 9)</b>
Week 11 (3/28-4/3)	-Ch.17: Digestive System (pp. 665-713) -Lab 43: Digestive Organs -Lab 44: Action of a Digestive Enzyme -APR module 12: p94se	3/31	2 Question Posts
		4/3	Assignment APR 17-1 Lab 43 Write up-Experimental observation Lab 43 homework quiz Lab 44-Virtual Lab-Enzymes and Digestion 2 Response Posts
Week 12 (4/4-4/10)	-Ch.19: Respiratory System (pp. 749-769) -Lab 45: Respiratory Organs -Lab 46: Breathing and Respiratory Volumes -APR module 11: u7MVz  No discussions this week	4/10	Lab 45-Virtual Lab-Respiratory Mechanism Lab 45 homework quiz Lab 46-Virtual Lab-Mechanism of Breathing Lab 46-Virtual Lab-Pulmonary Function Test Lab 46 Write up-Experimental observation Lab 46 homework quiz
Week 13 (4/11-4/17)	-Ch.19: Respiratory System (pp. 769-786) -Lab 47: Control of Breathing -APR module 11: u7MVz  No discussions this week	4/17	Assignment APR 19-1 Lab 47 Write up-Experimental observation Lab 47 homework quiz

Schedule continued on the next page...

Schedule Continued

Week	Chapter/Topic/Notes	Date Due	Posts/Assignments Due
Week 14 (4/18-4/24)	-Ch.20: Urinary System (pp.787-823)	4/21	2 Question Posts
	-Lab 48: Urinary Organs -Lab 49: Urinalysis -APR module 13: H62HG	4/24	Assignment APR 20-1 Lab 48 homework quiz Lab 49 Write up-Experimental observation 2 Response Posts Optional Learnsmart Activities
Week 15 (4/25-5/1) Exam and Practical this week!	-Ch.21: Water, Electrolyte, and Acid-Base Balance (pp. 824-844)	4/28	2 Question Posts
	No lab this week Exam does NOT include Chapter 20	5/1	Assignment APR 21-1 2 Response Posts <b>Exam 3 (Chapters #16, 17, 19)</b> <b>Lab Practical 3 (labs 42-47, APR modules 10-12)</b>
Week 16 (5/2-5/8)	-Ch.22: Reproductive Systems (pp. 845-889)	5/5	2 Question Posts
	-Ch.23: Pregnancy, Growth, and Development- part of this chapter (pp. 890-893-, Fig 23.3 pp.893; Maternal changes-911-914) -Lab 50: Male Reproductive System -Lab 51: Female Reproductive System -Lab 52: Fertilization and Early Development -APR Module 14: ZjwRx	5/8	Assignment APR 22-1 Assignment APR 22-2 Lab 50 homework quiz Lab 51 homework quiz Lab 52 homework quiz 2 Response Posts Optional Learnsmart Activities
Week 17 (5/9-5/14) *EXAM 4 and PRACTICAL 4 THIS WEEK	<i>Wrapping Up</i>  <i>*Don't forget to fill out the course evaluation*Semester Ends SATURDAY 5/14!!</i>	5/14	<b>Exam 4 (Chapters #20-23)</b> <b>Lab Practical 4 (labs 48-52, APR modules 11, 13, 14)</b>

**Questions and discussions are encouraged all the time, anytime. If you need help developing a schedule, time management, study strategies, etc please reach out to me. I'm happy to help.**