Biology 315 Advanced Physiology  
Spring 2019  
MW 3:00-4:15 pm  
Texas A&M University-Central Texas  

INSTRUCTOR AND CONTACT INFORMATION  
Instructor: Angela Parsons  
Office: Adjunct Instructor Office, room 419  
Phone: 512-695-1612  
Email: aparsons@tamuct.edu  

Office Hours:  
I am here a couple of hours before class, so just text or email me that you want to meet up.  

Mode of instruction and course access:  
This course uses the A&M-Central Texas Canvas Learning Management System [https://tamuct.instructure.com].  
The course meets face to face two times a week, and each student is expected to be prepared for class by reading the chapter thoroughly and completing the assigned homework, so if asked to explain or discuss a topic, he or she will be able to do so confidently.  

Student-instructor interaction:  
I will check my email twice a day, but if you have an urgent question or would like to schedule a time for help, call or text me.  

911 Cellular:  
911Cellular is an emergency notification service that gives Texas A&M University-Central Texas the ability to communicate health and safety emergency information quickly via email, text message, and social media. All students are automatically enrolled in 911Cellular through their myCT email account.  

In an effort to enhance personal safety on the Texas A&M University – Central Texas (TAMUCT) campus, the TAMUCT Police Department has introduced Warrior Shield by 911 Cellular. Warrior Shield [https://www.tamuct.edu/police/911cellular.html] can be downloaded and installed on your mobile device from Google Play or Apple Store.  

Connect at 911Cellular [https://portal.publicsafetycloud.net/Texas-AM-Central/alert-management] to change where you receive your alerts or to opt out. By staying enrolled in 911Cellular, university officials can quickly pass on safety-related information, regardless of your location.
COURSE INFORMATION

Course Overview and description: An integrated study of human physiology at the biochemical, cellular, tissue and organ level. Designed primarily for upper division science and nursing majors.

Course Objective: To learn the physiological processes of all the systems of the human body and be able to recognize when and why these processes are not functioning properly, leading to changes in human health.

Student Learning Outcomes:
Students will:

a. Use quantitative information to evaluate and understand physiological processes.
b. Describe the interactive functions of key homeostatic mechanisms.
c. Describe cellular activity using chemical and physical principles.
d. Relate cellular activity to the functioning of specific body tissues and organs.
e. Distinguish between normal physiological changes and common pathological changes in the body

Required Reading and Textbook(s): 


COURSE REQUIREMENTS

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Percentage</th>
<th>Points</th>
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<tbody>
<tr>
<td>Six lecture exams</td>
<td>50%</td>
<td>100 points each</td>
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<tr>
<td>Final comprehensive exam</td>
<td>20%</td>
<td>100 points</td>
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<tr>
<td>Chapter questions</td>
<td>15%</td>
<td>100 points each</td>
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<tr>
<td>Google slides</td>
<td>10%</td>
<td>100 points each</td>
</tr>
<tr>
<td>Participation/attendance</td>
<td>5%</td>
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Grading Criteria Rubric and Conversion

Grading scheme
A 4.00 (90 +) Achievement that is outstanding relative to the level necessary to meet course requirements.
B 3.00 (80-89%) Achievement that is significantly above the level necessary to meet course requirements.
C 2.00 (70–79%) Achievement that meets the course requirements in every respect.
D 1.00 (60–69%) Achievement that is worthy of credit even though it fails to meet fully course requirements.
F 0.00 (<60%) Represents failure and signifies that the work was either (1) completed but at a level of achievement that is not worthy of credit or (2) was not completed and there was no agreement between the instructor and the student that the student would be awarded an “I” (incomplete).

I (Incomplete) The “I” shall be assigned at the discretion of the instructor when, due to extraordinary circumstances, the student was prevented from completing the work of the course on time. The assignment of an “I” requires a written agreement between the instructor and student specifying the time and manner in which the student will complete the course requirements. In no event may any such written agreement allow a period of longer than one year to complete the course requirements. For graduate and professional students, an “I” is to remain on the transcript until changed by the instructor or department. For all other students, work to make up an I must be submitted within one year of the last day of final examinations of the term in which the “I” was given; if not submitted by that time, then the “I” will automatically change to an F. To obtain an incomplete you must have been doing passing work in the course.

Posting of Grades
I will grade tests as soon as you take them, then post the grades to Canvas.

COURSE OUTLINE AND CALENDAR

1/14  Chapter 1  Cellular Physiology
1/16  Chapter 1 continued
1/23  HW 1 due, finish Chapter 1, start Chapter 2 Autonomic Nervous System
1/28  HW 2 due, Chapter 2 continued, review for exam
1/30  TEST Chapters 1,2
2/4  Chapter 3 Endocrine Physiology
2/6  Chapter 3 continued
2/11  HW 3 due, finish Chapter 3, start Chapter 4 Immune System Physiology
2/13  HW 4 due, finish Chapter 4
2/18  TEST Chapters 3,4
2/20  Chapter 5 Somatic Nervous System and Special Senses
2/25  HW 5 due, finish Chapter 5
2/27  Chapter 6 Digestive System
3/4  HW 6 due, finish Chapter 6
3/6  TEST Chapters 5,6
Spring Break
3/18  Chapter 7 Cardiovascular Physiology
3/20  HW 7 due, continue Chapter 7
3/25  Finish Chapter 7, start Chapter 8 Respiratory Physiology
3/27  HW 8 due, finish Chapter 8
4/1  TEST Chapters 7,8
4/3  Chapter 9 Renal Physiology, Acid-Base Balance
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>4/8</td>
<td>HW 9 due, continue Chapter 9</td>
</tr>
<tr>
<td>4/10</td>
<td>Finish Chapter 9, start Chapter 10 Exercise Physiology</td>
</tr>
<tr>
<td>4/15</td>
<td>HW 10 due, finish Chapter 10</td>
</tr>
<tr>
<td>4/17</td>
<td>TEST Chapters 9.10</td>
</tr>
<tr>
<td>4/22</td>
<td>Chapter 11 Reproduction and Fetal Development</td>
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<tr>
<td>4/24</td>
<td>Chapter 11 continued</td>
</tr>
<tr>
<td>4/29</td>
<td>HW 11 due, finish Chapter 11</td>
</tr>
<tr>
<td>5/1</td>
<td>TEST Chapter 11</td>
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<tr>
<td>5/6</td>
<td>COMPREHENSIVE FINAL EXAM</td>
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**Important University Dates:**

<table>
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<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>January 14, 2019</td>
<td>Add, Drop, and Late Registration Begins for 16- and First 8-Week. $25 fee assessed for late registrants.</td>
</tr>
<tr>
<td>January 14, 2019</td>
<td>Classes Begin for Spring Semester</td>
</tr>
<tr>
<td>January 16, 2019</td>
<td>Deadline for Add, Drop, and Late Registration for 16- and First 8-Week Classes</td>
</tr>
<tr>
<td>January 21, 2019</td>
<td>Martin L. King Jr. Day <em>(University Closed)</em></td>
</tr>
<tr>
<td>January 22, 2019</td>
<td>Deadline to Drop First 8-Week Classes with No Record</td>
</tr>
<tr>
<td>January 30, 2019</td>
<td>Deadline to Drop 16-Week Classes with No Record</td>
</tr>
<tr>
<td>February 22, 2019</td>
<td>Student End of Course Survey Opens (First 8-Week Classes)</td>
</tr>
<tr>
<td>February 22, 2019</td>
<td>Deadline to Drop First 8-Week Classes with a Quit (Q) or Withdraw (W)</td>
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<tr>
<td>March 1, 2019</td>
<td>Deadline for Graduation Application for Spring Ceremony Participation</td>
</tr>
<tr>
<td>March 1, 2019</td>
<td>Deadline for Teacher Education and Professional Certification Applications (i.e. Principal, Reading Specialist, etc.)</td>
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<tr>
<td>March 8, 2019</td>
<td>Classes End for First 8-Week Session</td>
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<tr>
<td>March 8, 2019</td>
<td>Deadline for Spring Admissions Applications</td>
</tr>
<tr>
<td>March 10, 2019</td>
<td>Student End of Course Survey Closes (First 8-Week Classes)</td>
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<tr>
<td>Date</td>
<td>Event</td>
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<tr>
<td>March 11, 2019</td>
<td>Spring Break – No Class <em>(University Open)</em></td>
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<tr>
<td>March 11, 2019</td>
<td>Deadline for Faculty Submission of First 8-Week Final Class Grades (due by 3pm)</td>
</tr>
<tr>
<td>March 13, 2019</td>
<td>Spring Break – No Class <em>(University Open)</em></td>
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<tr>
<td>March 14, 2019</td>
<td>Spring Break – No Class <em>(University Open)</em></td>
</tr>
<tr>
<td>March 15, 2019</td>
<td>Deadline for Tuition and Fee Payments (Second 8-Week Classes)</td>
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<tr>
<td>March 15, 2019</td>
<td>Deadline for Clinical Teaching Applications</td>
</tr>
<tr>
<td>March 15, 2019</td>
<td>Spring Break – No Class <em>(University Open)</em></td>
</tr>
<tr>
<td>March 18, 2019</td>
<td>Add, Drop, and Late Registration Begins for Second 8-Week Classes. $25 fee assessed for late registrants.</td>
</tr>
<tr>
<td>March 18, 2019</td>
<td>Classes Begin for Second 8-Week Session</td>
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<tr>
<td>March 20, 2019</td>
<td>Deadline for Add, Drop, and Late Registration for Second 8-Week Classes</td>
</tr>
<tr>
<td>March 25, 2019</td>
<td>Deadline to Drop Second 8-Week Classes with No Record</td>
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<tr>
<td>April 1, 2019</td>
<td>Deadline for GRE/GMAT Scores to Office of Graduate Studies</td>
</tr>
<tr>
<td>April 5, 2019</td>
<td>Deadline to Drop 16-Week Classes with a Quit (Q) or Withdraw (W)</td>
</tr>
<tr>
<td>April 12, 2019</td>
<td>Deadline for Final Committee-Edited Theses with Committee Approval Signatures to Office of Graduate Studies for Spring Semester</td>
</tr>
<tr>
<td>April 26, 2019</td>
<td>Student End of Course Survey Opens (16- and Second 8-Week Classes)</td>
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<tr>
<td>April 26, 2019</td>
<td>Deadline to Drop Second 8-Week Classes with a Quit (Q) or Withdraw (W)</td>
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<tr>
<td>May 10, 2019</td>
<td>Deadline for Applications for $1,000 Tuition Rebate for Spring Graduation (5pm)</td>
</tr>
<tr>
<td>May 10, 2019</td>
<td>Deadline for Degree Conferral Applications to the Registrar’s Office. $20 Late Application Fee.</td>
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May 10, 2019  Deadline to Withdraw from the University for 16- and Second 8-Week Classes

May 10, 2019  Spring Semester Ends

May 11, 2019  Commencement Ceremony Bell County Expo Center 7:00 p.m.

May 12, 2019  Student End of Course Survey Closes (16- and Second 8-Week Classes)

May 14, 2019  Deadline for Faculty Submission of 16-Week and Second 8-Week Final Class Grades (due by 3pm)

May 14, 2019  Deadline for Thesis to Clear Thesis Office for Spring Semester

TECHNOLOGY REQUIREMENTS AND SUPPORT
This course will use the A&M-Central Texas Instructure Canvas learning management system. Logon to A&M-Central Texas Canvas [https://tamuct.instructure.com/] or access Canvas through the TAMUCT Online link in myCT [https://tamuct.onecampus.com/]. You will log in through our Microsoft portal.

Username: Your MyCT email address. Password: Your MyCT password

Canvas Support
Use the Canvas Help link, located at the bottom of the left-hand menu, for issues with Canvas. You can select “Chat with Canvas Support,” submit a support request through “Report a Problem,” or call the Canvas support line: 1-844-757-0953.
For issues related to course content and requirements, contact your instructor.

Other Technology Support
For log-in problems, students should contact Help Desk Central.
24 hours a day, 7 days a week:
Email: helpdesk@tamu.edu
Phone: (254) 519-5466
Web Chat: [http://hdc.tamu.edu]

Please let the support technician know you are an A&M-Central Texas student.

UNIVERSITY RESOURCES, PROCEDURES, AND GUIDELINES

Drop Policy.
If you discover that you need to drop this class, you must complete a Drop Request Form [https://www.tamuct.edu/registrar/docs/Drop_Request_Form.pdf].

Professors cannot drop students; this is always the responsibility of the student. The Registrar’s Office will provide a deadline on the University Calendar for which the form must be completed, signed and returned. Once you return the signed form to the Registrar’s Office, you must go into Warrior Web and confirm that you are no longer enrolled. If you still show as
enrolled, FOLLOW-UP with the Registrar’s Office immediately. You are to attend class until the procedure is complete to avoid penalty for absence. Should you miss the drop deadline or fail to follow the procedure, you will receive an F in the course, which may affect your financial aid and/or VA educational benefits.

**Academic Integrity.**
Texas A&M University-Central Texas values the integrity of the academic enterprise and strives for the highest standards of academic conduct. A&M-Central Texas expects its students, faculty, and staff to support the adherence to high standards of personal and scholarly conduct to preserve the honor and integrity of the creative community. Academic integrity is defined as a commitment to honesty, trust, fairness, respect, and responsibility. Any deviation by students from this expectation may result in a failing grade for the assignment and potentially a failing grade for the course. Academic misconduct is any act that improperly affects a true and honest evaluation of a student’s academic performance and includes, but is not limited to, cheating on an examination or other academic work, plagiarism and improper citation of sources, using another student’s work, collusion, and the abuse of resource materials. All academic misconduct concerns will be reported to the university’s Office of Student Conduct. Ignorance of the university’s standards and expectations is never an excuse to act with a lack of integrity. When in doubt on collaboration, citation, or any issue, please contact your instructor before taking a course of action.

For more information regarding the Student Conduct process, [https://tamuct.campuslabs.com/engage/organization/tamuct-student-conduct-panel].
If you know of potential honor violations by other students, you may submit a report, [https://cm.maxient.com/reportingform.php?TAMUCentralTexas&layout_id=0].

**Academic Accommodations.**
At Texas A&M University-Central Texas, we value an inclusive learning environment where every student has an equal chance to succeed and has the right to a barrier-free education. The Office of Access and Inclusion is responsible for ensuring that students with a disability receive equal access to the university’s programs, services and activities. If you believe you have a disability requiring reasonable accommodations please contact the Office of Access and Inclusion at (254) 519-5797. Any information you provide is private and confidential and will be treated as such.

For more information please visit our Access & Inclusion web page [https://www.tamuct.edu/student-affairs/access-inclusion.html].

**Important information for Pregnant and/or Parenting Students.**
Texas A&M University-Central Texas supports students who are pregnant and/or parenting. In accordance with requirements of Title IX and related guidance from US Department of Education’s Office of Civil Rights, the Dean of Student Affairs’ Office can assist students who are pregnant and/or parenting in seeking accommodations related to pregnancy and/or parenting.
Students should seek out assistance as early in the pregnancy as possible. For more information, please visit the Student Affairs web page [https://www.tamuct.edu/student-affairs/index.html]. Students may also contact the institution’s Title IX Coordinator. If you would like to read more about these requirements and guidelines online, please visit the website [http://www2.ed.gov/about/offices/list/ocr/docs/pregnancy.pdf].

Title IX of the Education Amendments Act of 1972 prohibits discrimination on the basis of sex and gender—including pregnancy, parenting, and all related conditions. A&M-Central Texas is able to provide flexible and individualized reasonable accommodation to pregnant and parenting students. All pregnant and parenting students should contact the Associate Dean in the Division of Student Affairs at (254) 501-5909 to seek out assistance. Students may also contact the University’s Title IX Coordinator.

Tutoring.

Tutoring is available to all A&M-Central Texas students, both on-campus and online. Subjects tutored on campus include Accounting, Advanced Math, Biology, Finance, Statistics, Mathematics, and Study Skills. Tutors are available at the Tutoring Center in Warrior Hall, Suite 111.

If you have a question regarding tutor schedules, need to schedule a tutoring session, are interested in becoming a tutor, or have any other question, contact Academic Support Programs at (254) 519-5796, or by emailing Dr. DeEadra Albert-Green at deeadra.albertgreen@tamuct.edu.

Chat live with a tutor 24/7 for almost any subject from on your computer! Tutor.com is an online tutoring platform that enables A&M-Central Texas students to log in and receive FREE online tutoring and writing support. This tool provides tutoring in over 40 subject areas. Access Tutor.com through Canvas.

The University Writing Center.
Located in Warrior Hall 416, the University Writing Center (UWC) at Texas A&M University–Central Texas (TAMUCT) is a free workspace open to all TAMUCT students from 10:00 a.m.-5:00 p.m. Monday thru Thursday with satellite hours in the University Library Monday thru Thursday from 6:00-9:00 p.m. This semester, the UWC is also offering online only hours from 12:00-3:00 p.m. on Saturdays.

Tutors are prepared to help writers of all levels and abilities at any stage of the writing process. While tutors will not write, edit, or grade papers, they will assist students in developing more effective composing practices. By providing a practice audience for students’ ideas and writing, our tutors highlight the ways in which they read and interpret students’ texts, offering guidance and support throughout the various stages of the writing process. In addition, students may work independently in the UWC by checking out a laptop that runs the Microsoft Office suite and connects to WIFI, or by consulting our resources on writing, including all of the relevant
style guides. Whether you need help brainstorming ideas, organizing an essay, proofreading, understanding proper citation practices, or just want a quiet place to work, the UWC is here to help!

Students may arrange a one-on-one session with a trained and experienced writing tutor by visiting the UWC during normal operating hours (both half-hour and hour sessions are available) or by making an appointment via WCONline. In addition, you can email Dr. Bruce Bowles Jr. at bruce.bowles@tamuct.edu if you have any questions about the UWC and/or need any assistance with scheduling.

University Library.
The University Library provides many services in support of research across campus and at a distance. We offer over 200 electronic databases containing approximately 250,000 eBooks and 82,000 journals, in addition to the 85,000 items in our print collection, which can be mailed to students who live more than 50 miles from campus. Research guides for each subject taught at A&M-Central Texas are available through our website to help students navigate these resources. On campus, the library offers technology including cameras, laptops, microphones, webcams, and digital sound recorders.

Research assistance from a librarian is also available 24 hours a day through our online chat service, and at the reference desk when the library is open. Research sessions can be scheduled for more comprehensive assistance, and may take place on Skype or in-person at the library. Assistance may cover many topics, including how to find articles in peer-reviewed journals, how to cite resources, and how to piece together research for written assignments.

Our 27,000-square-foot facility on the A&M-Central Texas main campus includes student lounges, private study rooms, group work spaces, computer labs, family areas suitable for all ages, and many other features. Services such as interlibrary loan, TexShare, binding, and laminating are available. The library frequently offers workshops, tours, readings, and other events. For more information, please visit our Library website [http://tamuct.libguides.com/index].

OPTIONAL POLICY STATEMENTS:

A Note about Sexual Violence at A&M-Central Texas
Sexual violence is a serious safety, social justice, and public health issue. The university offers support for anyone struggling with these issues. University faculty are mandated reporters, so if someone discloses that they were sexually assaulted (or a victim of Domestic/Dating Violence or Stalking) while a student at TAMUCT, faculty members are required to inform the Title IX Office. If you want to discuss any of these issues confidentially, you can do so through Student Counseling (254-501-5955) located on the second floor of Warrior Hall (207L).

Sexual violence can occur on our campus because predators often feel emboldened, and
victims often feel silenced or shamed. It is incumbent on ALL of us to find ways to actively create environments that tell predators we don’t agree with their behaviors and tell survivors we will support them. Your actions matter. Don’t be a bystander; be an agent of change. For additional information on campus policy and resources visit the Title IX webpage [https://www.tamuct.edu/departments/compliance/titleix.php].

INSTRUCTOR POLICIES

Grading Policy and Point Breakdown. Grades in this course will be criteria-based on a number of activities including exams, homework and making video clips for your assigned chapters. This means that grades will not be curved and anyone achieving a 90% or above will receive an A in this course.

Grade Dispute Policy. Grading disputes must be put in writing (with justification such as supporting statements from the text or another credible source) and given to me no earlier than 24 hours after the assignment has been returned. I will consider your request carefully, but reserve the right to adjust your grade up or down.

Assignments. These will consist of the answers to all of the questions from each chapter. All assignments are to be turned in at the start of class listed on the calendar in this syllabus, and handed directly to the instructor. They should be done completely and in your own words. I will not accept e-mailed assignments of any kind. Be prepared to lead the discussion of each question when asked.

Late Assignments. I expect all assignments to be turned in on time. Late assignments interfere with my ability to provide timely, detailed feedback, as well as with your ability to learn and process new material. Accordingly, any unauthorized late assignment will receive a 10% reduction in grade for each day it is late. No assignments will be accepted after it has been graded and returned, or after the exam has been given over the material.

Exams. The exams will be primarily short and long answer, designed to provoke reflection, critical thought, and application of knowledge. You will receive a review guide before every exam. You are encouraged to prepare for the exam by reviewing reading materials, outlining a draft of a response, and discussing these thoughts with your peers. You will then demonstrate your individual, integrated thoughts on the topic in a closed-book exam during the class period.

Missed exams. If you know you will miss an exam, please contact me BEFORE the exam. I will gladly give make-up exams if the student has an unavoidable reason for missing the exam (i.e. death in the family, severe illness). Keep in mind that I will expect documentation of your reason for missing the exam (e.g. doctor’s note, obituary notice). Exams must be made up within a week of the original scheduled date, no exceptions regardless of excuse.

What I expect of you. To get the most out of this class, you are expected to conduct yourself in a professional manner, which includes contributing to class discussions, being punctual, and notifying me of absences in advance. I do not want to see any cell phones out at any time.

Class Attendance. I expect that you attend each class session and arrive on time. If an
unavoidable situation arises that prevents you from attending class, I expect that you also promptly contact me to discuss the missed material and get the notes from a classmate. I will not distribute my notes to students as they are often abbreviated and do not contain the detail needed to sufficiently understand the material. The power points are from the text, and I will rely heavily on the study notes on the textbook website as they provide a good summary of the important points you need to know.

**What you can expect of me.** You can expect me to start and end class on time, be available through office hours, e-mail, and by appointment, be responsive to student suggestions for course improvement, answer questions to the fullest extent possible and/or direct you to appropriate resources, return graded assignments and exams within a reasonable time frame, and treat you with respect as future colleagues.

**Discussion.** The topics in this class encompass a diversity of issues that merit in-depth thought and discussion. Since individuals will be expressing their opinions, I expect that you will respect others’ contributions, as you would want them to do for you. Your participation, your engagement in the class and your contributions to the discussion and review of the topic for that class period will all enable you to get the most out of the course.

**Credits and Workload expectations.** For undergraduate courses, one credit is defined as equivalent to an average of two hours of learning effort per week (over a full semester) necessary for an average student to receive an average grade for the course. A student taking a four-credit class that meets for four hours a week should expect to spend an additional eight hours a week outside the classroom in order to earn an average grade.

**Class Structure.** Classes will involve a balance of active lecture and engaging learning activities. I believe that students learn the theories and concepts much better when they have an active role. One way you will become active in the material (and earn 10% of your grade) is to make Google slide sets for your assigned chapters, filled with interesting and helpful video clips, pictures and diagrams that you will share with the class so everyone will have access to them as another study tool. I will assign these the first day of class. To earn the maximum number of points, you should have at least ten good clips, labelled and in the order that they are covered in the chapter, as well as any tables or pictures you think will help students understand the concepts in the chapter. Be sure to include some pathophysiology as the book does not really cover that topic in much depth. See me if you need tips or help with this as some websites are more reputable than others. BE SURE TO PREVIEW the video clips ahead of time to make sure they have accurate information in them and contain no offensive content or language. When your chapter comes up, we will cover the information using the Power Points from the text, then I will call you up to supplement it with the slide set you made. You will get to be the teacher and show us the best clips we have time to watch that help reinforce the material. Whatever we do not view in class, students can watch on their own time.