



Department: Life Sciences (Biology)


Anatomy and Physiology I
FALL 2017
Biol. 2301 CRN 38419

Course location and times:	Stafford Campus, 8:30 AM - 9:50 PM Monday & Wednesday
Course semester credit hours:	3 Semester Credit hours
Course contact hours:	48 total hours; 48 hrs. Lecture
Course length:	16 weeks
Instruction type:	In-person, Lecture; Web-enhanced

Instructor:	Yvan Rostand Songue, M.D
Phone:	
Email address:	songue.yvanrostand@hccs.edu
Office location and hours:	Stafford Campus, Scarcella, S113 Monday-Friday 9AM-4PM

Due to the recent natural disaster (Hurricane Harvey) that has affected the Houston area, the class schedule for this fall has been subjected to a change, narrowed from 16 to 14 weeks.

HCC HOLIDAY SCHEDULE:

- 09/04/2017 Labor Day.
- 11/23/2017 Thanksgiving.
- 12/18/2017 winter is coming! 

HCC CLASS SCHEDULE:

- 09/11/2017 Fall Regular Term Classes Begin
- 09/26/2017 Official Date of Record
- 10/03/2017 Last Day for Student Withdrawals
- 12/10/2017 Fall Classes End.
- 12/14/2017 Fall Examination Week.

Course Description:

A course of study covering the structure and function of human cells, tissues and organ systems including the integumentary, skeletal, muscular and nervous systems. It is a Core Curriculum Course.

You are spending a good deal of time, energy and money on this course – please, make most of your investment! It takes approximately **2-3 hours of study time for each hour of class time to master the material**. This class will have over 48 contact hours (3 hr. credit).

The class and study time necessary to succeed in this class will be close to 300 hours (20 hours per week)!

Course Prerequisites:

College Level Reading as determined by SAT, ACT, TASP or successfully passing ENGL0305 with “C” or better. Biology 1406 (General Biology) is strongly recommended.

Course Goals:

This course is intended for students majoring in one of the physical sciences or life sciences, engineering, or for students who are pursuing pre-professional programs in medicine, dentistry, pharmacy, veterinary medicine, or other health programs. The course is also beneficial to students who are preparing themselves for higher-level science courses in their respective curricula.

Course Student Learning Outcomes:

The course is designed to provide the information and exercises necessary for student to obtain an understanding of the anatomical and physiological processes of the human organism. Topics covered in this course include the molecular, cellular, tissue and organ structures and functions of the integumentary, skeletal, muscular, nervous systems and the special senses.

Program Learning Outcomes: PSLOs

1. Students will display an understanding of biological systems and evolutionary processes spanning all ranges of biological complexity, including atoms, molecules, genes, cells, and organisms.
2. Students will integrate factual and conceptual information into an understanding of scientific data by written, oral and/or visual Communication. (This may include successful completion of a course-specific research project or a case study module).
3. Students will demonstrate proficiency and safe practices in the use of laboratory equipment and basic laboratory techniques.

4. Students will apply principles of the scientific method to problems in biology in the collection, recording, quantitative measurement, analysis and reporting of scientific data.

The following Student Learning Outcomes, with their associated assessment criteria, are not all-inclusive, and are meant to be used along with all other course learning outcomes and assessment devices, listed under Course Objectives, in the determination of the student's final course grade. Completion of the specific Student Learning Outcomes listed below, at any assessment grading level, does NOT and will NOT guarantee the student that final course grade at the end of the semester.

Course Student Learning Outcomes:

The course is designed to provide the information and exercises necessary for student to obtain an understanding of the anatomical and physiological processes of the human organism. Topics covered in this course include the molecular, cellular, tissue and organ structures and functions of the integumentary, skeletal, muscular, nervous systems and the special senses.

1. Use anatomical terminology to identify and describe locations of major organs of each system covered.
2. Explain interrelationships among molecular, cellular, tissue, and organ functions in each system.
3. Describe the interdependency and interactions of the systems.
4. Explain contributions of organs and systems to the maintenance of homeostasis.
5. Identify causes and effects of homeostatic imbalances.
6. Describe modern technology and tools used to study anatomy and physiology.

Learning Objectives:

1. Consistently able to demonstrate understanding and application of feedback loops on homeostasis without the instructor's help.
2. Consistently able to explain membrane transport and determine the outcome of scenarios concerning membrane transport
3. Always able to describe muscle structure and use that knowledge to explain muscle function
4. Always able to apply knowledge of the structure of the skeletal system to its functions.
5. Consistently able to demonstrate knowledge of interactions involving changes in membrane polarity without the instructor's help.
6. Consistently able to demonstrate all parts, functions, and steps involved in a reflex arc.
7. Consistently prepared and able to demonstrate skills using the body system models and laboratory techniques at the classroom standards. Consistently able to find and focus the specimen on the microscope slide without the instructor's help.
8. Consistently uses online tools to prepare for class, always ready for classroom discussions and instructor's Q&A sessions, completes all online quizzes prior to due date.

EXPECTATIONS & SURVIVAL TIPS:

- Your ringtone might be the best tune ever written since Led Zeppelin disbanded, but the rest of the students didn't pay to hear that. Please make sure that all cell phones are turned off or are on vibrate mode.
- You will have to study and read outside of class to be successful.
- Come by my office if you find yourself getting behind. Don't wait until the last minute.
- Work is not an excuse for missing class. Make sure to work out your scheduling.
- Ask questions.
- Two brains are actually better than one!!! Form study groups in class.

CLASS ATTENDANCE POLICY:

- All students are required to attend their scheduled lectures.
- Excused absences (for exams and quizzes) will be allowed for the following reasons:
 - School trips and/or functions – arrangements must be made with our instructor prior to the absence.
 - Death in the immediate family – a notice must be sent to your instructor.
 - Too ill to attend class – a note from your physician must be brought to your instructor.
- Extra credit work will not be granted for any reason.
- Students are responsible for all work missed. Notes, data, etc. from missed lectures may be obtained from your instructor or other students.

TENTATIVE COURSE CALENDAR:

	A&P 1	BIOL. 2301
SEMESTER WEEKS	CHAPTERS	LECTURE TOPICS
WEEK 1		CAMPUS CLOSED
WEEK 2		CAMPUS CLOSED
WEEK 3	1	Syllabus explanation and acknowledgement. Introduction to A&P, Anatomical terminology
	2	Atoms, Ions and Molecules
WEEK 4	2,3	Atoms, Ions and Molecules Energy, Chemical reactions & Cell Respiration
	3,4	Energy, Chemical reactions & Cell Respiration Biology of the Cell

WEEK 5	4	Biology of the Cell
		Lecture Exam 1. (Chapters 1-4)
WEEK 6	5	Tissue organization
	6	Integumentary system
WEEK 7	7,8	Skeletal System: Bone structure and function Bone formation, growth, remodeling and repair, bone homeostasis; Fractures Clinical correlation - Osteoporosis, Rickets, Ewing's sarcoma Axial Skeleton- skull, Vertebral column, thoracic cage; associated bones Appendicular Skeleton- pectoral girdle, pelvic girdle, Upper and Lower Extremities.
	9	Articulations Clinical correlation – OA and RA. Articulations: movements and specific joints; arthritis types (OA, RA, Septic arthritis, Psoriatic arthritis, Lyme arthritis).
WEEK 8		Lecture Exam 2. (chapters 5-9)
	10	Muscle Tissue- properties, types, function, organization of sarcomere and innervation of muscles via nervous system--generation of an action potential Muscle contraction and relaxation
WEEK 9	10	Clinical correlation – Duchenne's muscular dystrophy (DMD). Pesticide poisoning, Botox, nerve gas, curare, snake venoms, and electrolyte imbalances. Muscle ATP production; functions and characteristics of Cardiac and smooth muscle
	11	Muscular System

WEEK 10	12	Nervous Tissue- divisions, neural tissue and neuroglia cells, neurophysiology
	12	Neurophysiology continued.
WEEK 11	12	Nervous Tissue- divisions, neural tissue and neuroglia cells, neurophysiology
		Lecture Exam 3.
WEEK 12	13	Spinal cord and spinal nerves. Clinical correlation —Effects of Vit. B12 deficiency and Syphilis on the Dorsal columns.
	13	Spinal Reflexes
WEEK 13	14	Brain--structure and function. Clinical correlation —Brain tumors, Parkinson’s disease, Alzheimer’s disease. Brain- specific structures; cranial nerves. Clinical correlation -- Cranial nerve testing.
	15	Somatic pathways
WEEK 14	16	Autonomic Nervous system
	17	Special senses-- olfaction, gustation, vision.
WEEK 15	17	Special senses-- vision continued and Hearing and Equilibrium
		Lecture Exam 4.
WEEK 16		
		Departmental/District Final Exam.

* These chapters are a review of General Biology Information. Students attempting Biology 2301 should already be well versed in this information.

* WILL NOT BE SEEN DURING LECTURES

THE INSTRUCTOR RESERVES THE RIGHT TO CHANGE THE CONTENT SCHEDULE BASED ON THE NEEDS WITH ADVANCED NOTICE TO THE CLASS. !!!!

Instruction Methods:

McGraw-Hill's course software CONNECT will be utilized for chapter quizzes. The primary focus of the course will be on instructor lectures including illustrations, animations, and group activities and assigned textbook readings. Lecture material will correspond to the topics covered in the required textbook, but your instructor may include more detail on certain topics. **Topics and concepts covered during lecture or included in the assigned reading will be included in exams. !!!!** Course objectives may be met through individual study using suggested resources, active involvement in classroom activities, and formal and/or informal exchange of information/ideas with classmates and colleagues regarding specific topics to include utilization of critical thinking skills. While the professor will provide guidance and consultation, the student is responsible for identification of learning needs, self-direction, seeking consultation and demonstration of course objectives.

Students are expected to act in a professional manner and are accountable for their behaviors and learning.

Our classroom management system is Eagle Online, the HCC specific depository to course content. Note that you will not be able to log into the website (Eagle Online) until the beginning of the semester.

1. This is a web-assisted course and lecture/learning materials may be found on the course website.
2. Students are expected to respect the learning rights of all others in the classroom. Individual conversations, chatting online, text messaging, arriving to class late, sleeping during class, working on online assignments, playing computer games, surfing the internet and studying for another class during classroom time are unacceptable behaviors. Students who demonstrate these behaviors may be asked to leave class.

Student Assignments:	Students are required to read assigned chapters and to complete Chapter and Atlas Quizzes. Additional announced and unannounced quizzes during lecture may be conducted throughout the semester.
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Student Assessments:	Students will be assessed via lecture examinations, chapter quizzes, and comprehensive final lectures. Additionally, there is a required General Biology proficiency examination (lecture exam 1) at the beginning of the semester and a Final Exit examination at the end of the semester.
Instructional Materials:	<p>Textbook: HCCS PACKAGES - Anatomy & Physiology: An Integrative Approach. Second Edition, McKinley, 2017. Hardbound - McKinley ISBN# 9780078024283</p> <p>Web Resources: Canvas online, HCC-SW departmental website.</p> <p>CONNECT (free with purchase of new required textbook; used books will require you to purchase a CONNECT account)</p>

HCC Policy Statement: ADA	<p>HCC strives to make all learning experiences as accessible as possible. If you anticipate or experience academic barriers based on your disability (including mental health, chronic or temporary medical conditions), please meet with a campus Abilities Counselor as soon as possible in order to establish reasonable accommodations. Reasonable Accommodations are established through an interactive process between you, your instructor(s) and Ability Services. It is the policy and practice of HCC to create inclusive and accessible learning environments consistent with federal and state law. For more information, please go to http://www.hccs.edu/district/students/disability-services/</p> <p>Any student with a documented disability (e.g. physical, learning, psychiatric, vision, hearing, etc.) who needs to arrange reasonable accommodations must contact the Disability Services Office at the respective college at the beginning of each semester. Instructors are authorized to provide only the accommodations requested by the Disability Support Services Office. If you have any special needs or disabilities that may affect your ability to succeed in college classes or participate in any college programs or activities, please contact the DSS office for assistance.</p> <p>At Southwest College, Contact: Dr. Becky Hauri 5407 Gulfton Houston, Texas 77081 Phone: 713-718-7909 Fax: 713-718-7781 TTY: 713-718-7909</p>
HCC Policy Statement: Academic Honesty	Students are responsible for conducting themselves with honor and integrity in fulfilling course requirements. Disciplinary proceedings may be initiated by the college system against a student accused of scholastic dishonesty. Penalties can include a grade of "0" or "F" on the particular assignment, failure in the course, academic probation, or even dismissal from the college. Scholastic dishonesty includes, but is not limited to, cheating on a test, plagiarism, and collusion.

<p>HCC Policy Statement: Student attendance, Repeaters, withdrawal deadline</p>	<p>Attendance Students are expected to attend classes regularly. Students are responsible for materials covered during their absences, and it is the student's responsibility to consult with instructors for make-up assignments.</p> <p>Instructors check class attendance daily. A student may be dropped from a course for excessive absences after the student has accumulated absences in excess of 12.5% of the hours of instruction (including lecture and laboratory time). Note that 12.5% is approximately 4 classes or labs for a 4-semester hour course.</p> <p>Habitual tardiness will not be tolerated. Students are expected to be in attendance for the entirety of the scheduled class and are responsible for completing assignments scheduled during their absence/s. It is the student's responsibility to amend their professional/personal schedule to meet the provided class schedule.</p> <p>Repeaters Students who repeat a course for a third or more times may soon face significant tuition/fee increases at HCC and other Texas public colleges and universities. Please ask your instructor / counselor about opportunities for tutoring / other assistance prior to considering course withdrawal or if you are not receiving passing grades.</p> <p>Withdrawals Withdrawal from the course after the official day of record (see current catalog) will result in a final grade of "W" on the student transcript and no credit will be awarded. It is the student's responsibility to initiate and complete a request for withdrawal from any course. Students will be required to formally request a drop from their instructors prior to the administrative drop date deadline (SEE HCCS CALENDAR). Abandoning the course or failing to formally drop, will result in a grade being given based on the work completed for the entire course (including missed exams).</p> <p>The State of Texas has begun to impose penalties on students who drop courses excessively. For example, if you repeat the same course more than twice, you have to pay extra tuition. Beginning in fall 2007, the Texas Legislature passed a law limiting first time entering freshmen to no more than SIX total course withdrawals throughout their educational career in obtaining a certificate and/or degree.</p> <p>Receiving a "W" in a course may affect the status of your student Visa. Once a W is given for the course, it will not be changed to an F because of the visa consideration. Please contact the International Student Office at 713-718-8520 if you have any questions about your visa status and other transfer issues</p>
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Instructor Requirements:

Basic Requirements

Students should be on time for class and be prepared with required materials including textbook and lab manual. Full class attendance is required including lecture and lab portions. Full attention during lecture and lab is required.

Phones/Electronic Devices

Absolutely no phone or other personal electronic devices are to be used during class (lecture and lab). This includes making or taking a call, reviewing messages, texting, playing games, checking email, surfing the web, anything that involves a phone or other personal electronic device. If your work or family situation requires that you be available via phone, your phone can be on vibrate mode and you can take the call during our regular scheduled breaks or you can exit the class to review the call. Notify your friends, family, employers, and anyone else who regularly contacts you that you will be in class and that you should be contacted only when necessary. The taking of calls during class is not only disruptive but it is also discourteous to classmates and the instructor. **STUDENTS ARE NOT PERMITTED TO HANDLE CALLS DURING EXAMS.**

Testing Procedures

Be sure to arrive early for your examinations. There are time limits for exams. You will not be given extended time for testing if you arrive late.

Entering and exiting the lecture room or lab room is not permitted once exams have begun. Please be sure to use bathroom before or after.

Department

Students are expected to conduct themselves as adults. This includes courteous and respectful behavior towards instructor and classmates. Disruptive behavior or any behavior that interferes with any educational activity being performed by the instructor will not be allowed. Additionally, no student may interfere with his/her fellow students' right to pursue their academic goals to the fullest in an atmosphere appropriate to a community of scholars. Disruptive behavior may result in removal from the class.

Lab Policy

Lab safety is stated in lab manual. Lab rules and regulations will be discussed during the first lab and will be adhered to at all times. Each student is responsible for cleaning up after labs, this includes glassware, utensils, specimens/models and other material used during lab time (no, cleanup is not covered by your lab fees).

Program/Discipline Requirements	Proficiency Exam Bio 2401 Exit Exam
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HCC Grading Scale:

A = 90-100%
B = 80-89%
C = 70-79%
D = 60-69%
F = less than 60%

Instructor Grading Criteria:

Students must adhere to testing schedule. Failure to take a test (lab or lecture) will result in a “0” for the missed exam. Exceptions include work, family, or personal (health) emergency, and must be properly documented prior to any make-ups. The instructor must be notified within 7 days (via email), with written documentation, so that a make-up allowance can be made. Only one make-up exam per semester is allowed (with proper documentation) and must be arranged with instructor ASAP. MAKE-UP EXAMS NEED NOT BE IN THE SAME FORMAT AS THE ORIGINAL EXAM – SAME TOPIC OF COVERAGE WILL BE GIVEN.

All TESTS/EXAMS MUST BE TAKEN. **Students who stopped attending class:** The Department of Education now requires that we make a distinction between an “earned” grade of “F” (i.e. for poor performance) and a grade of “F” due to a lack of attendance. To make that distinction, we have created a new grade, “FX” for failure due to lack of attendance. Faculty will not be allowed the option of submitting a grade change form changing the grade of FX (or F) to W, if the student stopped attending class. Failure to alert instructor of missed exams and lack of attendance will result in this grade option.

EGLS3---Evaluation for Greater Learning Student Survey System:

At Houston Community College, professors believe that thoughtful student feedback is necessary to improve teaching and learning. During a designated time, you will be asked to answer a short online survey of research-based questions related to instruction. The anonymous results of the survey will be made available to your professors and division chairs for continual improvement of instruction.

Look for EGSS3 as part of the Houston Community College Student System online near the end of the term.

Only one make-up exam per semester is allowed (with proper medical documentation) and must be arranged with instructor ASAP.

There is no repeating of examinations or “dropping” of lowest grade/s. The Instructor must be given advance notice of absence.

There will be NO reopening of missed quizzes, discussions and NO redo for missed clinical questions. If you miss any of these, you will get a ZERO!!!

There will be MINUS 10 pts. for every class MISSED from the total 50 available.

Examination Format

Lecture exams will include multiple-choice questions and might include also true or false and essay/short answer questions.

Grade Calculation

Lecture Exam 1.	100 pts
Lecture Exam 2.	100 pts.
Lecture Exam 3.	100 pts.
Lecture Exam 4.	100 pts
Chapter Quizzes.	100 pts
Connect.	100 pts
Critical Thinking questions - #1-3. Worth 33 points each.	100 pts.
Active Class Participation	50 pts.
Complete Class Attendance	50 pts.
District. Exit Exam.	200 pts.
Final Score	1000 pts.

Letter Grade Assignment:

Grading Scale

A = 90-100%

B = 80-89%

C = 70-79%

D = 60-69%

F = less than 60%

FX= F due to lack of attendance

FX (Failure due to non-attendance)

IP (In Progress)

W (Withdrawn)

I (Incomplete)

REPEATING COURSES (THREE-PEAT RULE)

As a result of recent Texas legislative changes, please be advised that HCC is charging additional tuition for students who enroll in the same class three or more times at HCC. While it is the hope of HCC that students will be successful in their first attempt at classes, we realize that life demands, academic struggles, and

other issues may result in students needing to take the same class more than once. Speaking with an advisor will help you develop student success skills, improving your overall academic performance. If a student repeats a course in which a grade (A-F) has been received, the highest grade received at HCC is the permanent grade for the course and will be used in computing the GPA. All grades earned in a given course will be reflected on the transcript. Other colleges may compute the GPA differently than HCC.

COURSE WITHDRAWALS (6-Drop Rule)

Students must withdraw by the withdrawal deadline in order to receive a “W” on a transcript. Final withdrawal deadlines vary each semester and/or depending on class length, please visit the online Academic Calendar, any HCC Registration Office, or any HCC advisor to determine class withdrawal deadlines.

Be certain you understand HCC policies about dropping a course and consult with a counselor/advisor to determine if withdrawing is in your best interest. It is your responsibility to withdraw officially from a class and prevent an “F” from appearing on your transcript. Senate Bill 1231 limits the number of W’s a student can have to 6 classes over the course of their entire academic career. This policy is effective for students entering higher education for the first time in fall 2007 and subsequent terms. Withdrawals accumulated at any other Texas public higher education institution count toward the 6-course total. Withdrawals for certain circumstances beyond the students control may not be counted toward the 6-drop limit.

In addition, withdrawing from a course may impact your financial aid award or eligibility. Contact the Financial Aid Office or website to learn more about the impact of withdrawing on financial aid.

HCCS IS COMMITTED TO YOUR SUCCESS

Early Intervention Program and Services

Your success is our primary concern! If you are experiencing challenges achieving your academic goals, please contact your instructor or an early intervention coach. HCC can provide assistance with academic needs, ADA accommodations, classroom difficulties, financial concerns, and other issues.

Tutoring

HCCS provides free online tutoring for all HCC students. Go to www.hccs.upswing.io; log in instructions will be provided on the tutoring page homepage.

Counseling Services Mission Statement

The mission of the HCC Counseling Department is to provide holistic support for students pursuing their educational goals. In order to accomplish this mission, we will provide a full range of professional services including personal and career counseling, academic skills enhancement, outreach programming, consultation, and crisis intervention.

HCC Counselors include licensed professionals (and Counseling interns) with masters or doctoral degrees. HCC Counselors provide the following services:

7. Academic Advising
8. Career Counseling
9. Disability Support Services
10. Personal Counseling
11. Student Success Workshops
12. Transfer Advising
13. Degree Plan Completion
14. Transcript Evaluation

If you are interested in developing any of the desirable outcomes or receiving any of the services listed above, please contact a counselor at any of the HCC colleges. <http://www.hccs.edu/district/students/counseling/> (click on link on right side to see all counselors and their contact information).

HCC Southwest College Counselors:

<p>Lead Counselor Kathy Kelley, M.Ed., LPCS Licensed Professional Counselor- Supervisor T: 713.718.7799 F: 713.718.7861 kathy.kelley@hccs.edu 10041 Cash Rd. Room 108.9 Stafford, TX 77477</p>	<p>Courtney S. Hebdon, LCSW Licensed Clinical Social Worker T: 713.718.7448 F: 713.718.7861 Courtney.hebdon@hccs .edu 10041 Cash Rd. Room 105.1 Stafford, TX 77477</p>	<p>ADA Counselor Becky Hauri, Ph.D. Licensed Psychologist T: 713.718.7909 F: 713.718.7781 becky.hauri@hccs.edu 5601 West Loop South room C136 Houston, TX 77081</p>	<p>Counselor David Stacy, EdD, LPC Tel: 713/ 718-5854 Fax: 713/ 718-7781 david.stacy@hccs.edu 5601 West Loop South, Rm C-136 Houston, Texas 77081</p>
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Scoring Rubric:

Objective	Learning Method	Resources	Evaluation
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<p>1. Students will be able to understand and apply the principals of homeostasis and the use of feedback loops. <i>PSLO* #1</i></p>	<ul style="list-style-type: none"> ▪ Reading lab manual ▪ Lecture attendance ▪ Reading course textbook ▪ Interactive digital exercises ▪ Case studies 	<ul style="list-style-type: none"> ▪ Textbook ▪ Textbook-related Internet resources ▪ Laboratory manual ▪ Literature searches 	<ul style="list-style-type: none"> ▪ Exams- written and oral ▪ Class participation exercises ▪ Quizzes ▪ Open-ended case studies
<p>2. Students will be able to evaluate information and create conclusions based on their knowledge of membrane transport. <i>PSLO#1</i></p>	<ul style="list-style-type: none"> ▪ Lecture attendance ▪ Reading course textbook ▪ Interactive digital exercises 	<ul style="list-style-type: none"> ▪ Textbook ▪ Textbook-related Internet resources ▪ Laboratory manual ▪ Literature searches 	<ul style="list-style-type: none"> ▪ Exams- written and oral ▪ Class participation exercises ▪ Quizzes ▪ Open-ended case studies
<p>3. Students will be able to apply their knowledge of muscle function. <i>PSLO#1</i></p>	<ul style="list-style-type: none"> ▪ Reading lab manual ▪ Lecture attendance ▪ Reading course textbook ▪ Interactive digital exercises 	<ul style="list-style-type: none"> ▪ Textbook ▪ Textbook-related Internet resources ▪ Laboratory manual ▪ Literature searches 	<ul style="list-style-type: none"> ▪ Exams- written and oral ▪ Class participation exercises ▪ Quizzes ▪ Open-ended case studies ▪ Laboratory practical
<p>4. Students will be able to apply their knowledge of skeletal system and its functions. <i>PSLO#1</i></p>	<ul style="list-style-type: none"> ▪ Reading lab manual ▪ Lecture attendance ▪ Reading course textbook ▪ Interactive digital exercises 	<ul style="list-style-type: none"> ▪ Textbook ▪ Textbook-related Internet resources ▪ Laboratory manual ▪ Literature searches 	<ul style="list-style-type: none"> ▪ Exams- written and oral ▪ Class participation exercises ▪ Quizzes ▪ Open-ended case studies ▪ Laboratory practical

Objective	Learning Method	Resources	Evaluation
5. Students will be able to understand and apply their knowledge of changes in polarity on membrane potential. <i>PSLO#1</i>	<ul style="list-style-type: none"> ▪ Lecture attendance ▪ Reading course textbook ▪ Interactive digital exercises 	<ul style="list-style-type: none"> ▪ Textbook ▪ Textbook related Internet resources ▪ Laboratory manual ▪ Literature searches 	<ul style="list-style-type: none"> ▪ Exams-written and oral ▪ Class participation exercises ▪ Quizzes ▪ Open-ended case studies
6. Students will be able to apply and demonstrate their knowledge concerning reflex arcs <i>PSLO#s 1 and 2</i>	<ul style="list-style-type: none"> ▪ Reading lab manual ▪ Lecture attendance ▪ Reading course textbook ▪ Interactive digital exercises 	<ul style="list-style-type: none"> ▪ Textbook ▪ Textbook related Internet resources ▪ Laboratory manual ▪ Literature searches 	<ul style="list-style-type: none"> ▪ Exams-written and oral ▪ Class participation exercises ▪ Quizzes ▪ Open-ended case studies ▪ Laboratory practical
7. Students will be able to apply the knowledge gained in lab utilizing anatomical models, physiological experiments, histological slides and the Compound light microscope. <i>PSLO#2</i>	<ul style="list-style-type: none"> ▪ Reading lab manual ▪ Lecture attendance ▪ Reading course textbook ▪ Interactive digital exercises ▪ Classroom management system 	<ul style="list-style-type: none"> ▪ Textbook ▪ Textbook related Internet resources ▪ Laboratory manual ▪ Literature searches 	<ul style="list-style-type: none"> ▪ Exams-written and oral ▪ Class participation exercises ▪ Quizzes ▪ Open-ended case studies ▪ Laboratory practical

8. Students will utilize online interactive evaluation tools to gauge their understanding of key anatomical and physiological concepts prior to lecture/examinations/quizzes where applicable. PSLO#3	<ul style="list-style-type: none"> ▪ Interactive digital exercises ▪ Classroom management system ▪ Internet 	<ul style="list-style-type: none"> ▪ Textbook related Internet resources 	<ul style="list-style-type: none"> ▪ Pre-class tests ▪ Post-class tests ▪ Quizzes
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*PSLO= Program Student Learning Outcomes

TITLE IX OF THE EDUCATION AMENDMENTS OF 1972, 20 U.S.C. A§ 1681 ET. SEQ.

Houston Community College is committed to cultivating an environment free from inappropriate conduct of a sexual or gender-based nature including sex discrimination, sexual assault, sexual harassment, and sexual violence. Sex discrimination includes all forms of sexual and gender-based misconduct and violates an individual’s fundamental rights and personal dignity. Title IX prohibits discrimination on the basis of sex-including pregnancy and parental status-in educational programs and activities. If you require an accommodation due to pregnancy please contact an Abilities Services Counselor. The Director of EEO/ Compliance is designated as the Title IX Coordinator and Section 504 Coordinator. All inquiries concerning HCC policies, compliance with applicable laws, statutes, and regulations (such as Title VI, Title IX, and Section 504), and complaints may be directed to:

*David Cross
 Director EEO/ Compliance
 Office of Institutional Equity & Diversity
 3100 Main
 (713) 718-8271
 Houston, TX 77266-7517 or Houston, TX 77266-7517 or Institutional.Equity@hccs.edu*

Title IX of the Education Amendments of 1972 requires that institutions have policies and procedures that protect students’ rights with regard to sex/gender discrimination. Information regarding these rights are on the HCC website under Students-Anti-discrimination. Students who are pregnant and require accommodations should contact any of the ADA Counselors for assistance.

It is important that every student understands and conforms to respectful behavior while at HCC. Sexual misconduct is not condoned and will be addressed promptly. Know your rights and how to avoid these difficult situations.

Log in to www.edurisksolutions.org. Sign in using your HCC student email account, then, go to the button at the top right that says **Login** and enter your student number.

Campus Carry - Houston Community College | HCC

“At HCC the safety of our students, staff, and faculty is our first priority. As of August 1, 2017, Houston Community College is subject to the Campus Carry Law (SB11 2015). For more information, visit the HCC Campus Carry web page at <http://www.hccs.edu/district/departments/police/campus-carry/>.”

Biology 2301

Acknowledgement Page

I acknowledge that I have read the syllabus for Biology 2301 and understood the effort and time commitment necessary to succeed in this Science Major, Medical Professional Class. (**Approximately 150 hours, 10 hr/week**) I will prepare for class and perform all exercises and assessments on time and to the BEST of my ability. I understand that I will get the grade I earn, based on my competence in Anatomy and Physiology, as determined by my performance on my work and the Departmental Final Exam. Please remember that you are preparing for a medical career so there will be no exceptions.

PS: This acknowledgement page must be filled and returned to the instructor in the next class session.

Name _____

Email Address _____

Current Phone # _____

