

BIOL- 2111 (ANATOMY & PHYSIOLOGY – 1)

Section L

Syllabus - Spring Semester, 2020

Lecture:

Meeting Time: Tues & Thurs: 10.00 AM – 11.15 AM

Meeting Place: UH 330

Lab:

Meeting Time: Monday: 10.00 – 11.50 AM

Meeting Place: SCI W2021

Instructor: Dr. Soma Mukhopadhyay

E-mail: smukhopadhyay@augusta.edu

Office: Sci W2005

Office hour: Tues – 3 PM – 4.00 PM

Thurs – 3 PM – 4.30 PM

Or by appointment

Course Description:

BIOL 2111, Human Anatomy and Physiology I, is the first part of a two-part sequence covering Human Anatomy and Physiology.


The following topics will be covered in BIOL 2111: basic chemistry including biochemistry, cells, tissues, integumentary system, skeletal system, articulations, muscular system, the central, peripheral and autonomic nervous system, special senses.

Textbooks Required:

- i) Human Anatomy & Physiology, by Elaine Marieb and Katja Hoehn;
11th Edition; Pearson Publishers. With Mastering Access code (required)
- ii) Lab Manual – Human Anatomy and Physiology Laboratory Manual by Marieb & Smith;
13th Edition, Custom Edition
- iii) A Photographic Atlas for Anatomy & Physiology by Heebert, Heisler, et.al. Pearson Publishers
(Recommended)

BIOL 2111 (Anatomy & Physiology – I)

Reading Assignment and tentative schedule

Week of:	Topics:	Readings:
6 th Jan	Introduction to the Course	Overview; Chapter: 1
13 th Jan	Introduction to Anatomy & Physiology Chemistry and Biochemistry	Chapter: 1 Chapter 2
20 st Jan	Chemistry and Biochemistry	Chapter 2
27 th Jan	Cells <i>Quiz 1 (30 January, Thursday): Topic Chapters 1 -2</i>	Chapter 3
3 rd Feb	Tissues	Chapter 4
10 th Feb	Integumentary System	Chapter 5, In-Class activity
17 th Feb	<i>Lecture Test 1 (18th February, Tuesday): Chapters 1 - 4</i> Bone Tissue & Skeletal System	Chapter 6
24 th Feb	Articulation	Chapter 8
2 nd Mar	Muscular System <i>Quiz 2 (3rd March, Tuesday): Topic Chapters 5, 6 & 8</i>	Chapter 9
9 th Mar	Muscular System, Nervous Tissue	Chapters 9, 11
16 th Mar	Nervous Tissue, Central Nervous System (CNS) <i>Lecture Test 2 (24th March, Tuesday): Chapters 5, 6, 8, 9 & 11</i>	Chapters 11, 12
23 rd Mar	Central Nervous System (CNS)	Chapter 12
30 th Mar	Peripheral Nervous System (PNS) Autonomic Nervous System (ANS)	Chapter 13 Chapter 14
6 th Apr	Spring Break – No classes	
13 th Apr	Autonomic Nervous System (ANS)	Chapter 14
20 th Apr	Special Senses <i>Lecture Test 3- Part A (23rd April, Thursday): Chapters 11 – 14</i>	Chapter 15
27 th Apr	Review for Final <i>Lecture Test 3 – Part B (28th April, Tuesday): Chapter 15</i>	
 **6th May (Wednesday) – Comprehensive Final Exam @ 11.00 AM – 1.00 PM		

- ***Note:** Add/Drop- Last Day – 10 January, 2020; Midterm: 27th February, 2020
 - Holidays: MLK Day: 20th Jan, 2020 (Monday); Spring Pause: 5 & 6 March (Thursday - Friday)
 - Spring Break: 6 – 10 April (Monday – Friday)

BIOL-2111 (Anatomy & Physiology - I) -- POLICIES

This syllabus is subject to change. Any change/s will be announced in the class.

GRADING: 3 Lecture Exams:	300 points (100 points each)
2 Lab Exams:	200 points (100 points each)
2 Quizzes	50 points (25 points each)
In-class assignment & HW	20 points
Lab Performance & Lab assignments	30 points (20 + 10)
<u>1 Comprehensive Final Exam:</u>	<u>150 points</u>
Total:	750 points

Final grades will be determined according to the following There will not be any rounding or curving.

A = (90 - 100%)	B = (80 - 89.99%)	
C = (70 - 79.99%)	D = (60 - 69.99%)	F = (0 - 59.99%):

TESTS:

- There will use a combination of traditional lecture as well as active learning activities, used in class. To make the best use of our lecture time, you will be expected to cover some portions of the course content on your own, using guides/worksheets provided (i.e. certain topics will not be covered in lecture, but you will be expected to know it for the exams).
- You are responsible to go through and learn the concepts in the Learning Objectives from each chapter (posted on D2L)
- There will be multiple choice, fill in the blanks, true-false, matching, labeling and some short answer type questions on the lecture test. You have to use pencils to fill-out scan-trons.
- Write clearly and legibly for written questions and in lab practicum. Use blue or black pen only for written type questions in tests and also for in-class assignments.
- Comprehensive final which include material covered in the lecture, handouts, and assigned readings.
- Lab Practicum will be from the material covered in the lab and it is a timed test.
- No papers, extra projects, etc. will be permitted to supplement grades received on any exams.
- After the test, you will get opportunity to review your test. Test papers will be collected back from the students. You are not allowed to take pictures of tests or practice tests.

MAKE-UP EXAM:

1. **Maximum of 1 make-up for one person will be allowed for a truly valid excuse.**
2. Prior intimation is preferred unless it is a very last minute emergency. Student have to contact me immediately if for any obvious reason he/she is going to miss the test/quiz. **The make-up for a test must be taken within a week of the original date of the latest. Students have to show proper paper work, otherwise, there will be 20 point penalty.**
3. For extreme emergency there could be make-up for Lab Practicum, You have to have written proof. Format of the test might be different from the regular lab-practicum.

ATTENDANCE:

Essential to the understanding of the course material. You are responsible for the material taught in any class (es) you miss. Attendance will be taken randomly any day and at any time of the class. Students are expected to attend all lecture classes and the labs. Tardiness will be counted as ½ of an absence.

SUPPLIES REQUIRED FOR THE COURSE:

- a) Text books for Lecture and Lab
- b) Three-ring binder, blue and black pens, pen drive
- c) #2 pencils and colored pencils, good eraser
- d) PPE (Personal Protective Equipment): gloves, lab coat, safety glasses
- e) Dissecting tools (available at bookstore)

COMMUNICATION

- Brightspace (previously known as D2L) will be used for the main medium of communication. All registered students get an account to D2L for academic use. Please make sure you have an active e-mail. It might take up to 48-72 hours to get your account activated.
- Use your college e-mail for any communication; mention your name and course number. Write e-mail properly.

If you do not know how to write e-mail properly, please refer to the following site:

 <http://college.usatoday.com/2012/03/15/five-things-to-remember-when-e-mailing-a-professor/>

- Use your registered name only for test and other official papers.
- Feel free to talk to me if you have any question; remember not everything could be discussed or resolved over e-mail.
- If it is really emergency; you can send e-mail to my personal e-mail or call me at my cell phone; of extreme emergency text me. Mention URGENT
- Please do not expect immediate reply, it might take upto 24 hours to reply. If something has been already discussed in the class or mentioned in the syllabus, I am not going to reply individual e-mails.

HOMEWORK, ASSIGNMENTS AND CLASS PARTICIPATION:

- Homework will be given throughout the semester, not all of them will be graded. You are expected to come prepared.
- Assignments are due at the beginning of the class period on the due date. Assignments turned in late will be worth 10% less for each calendar day they are late.
- Student will be asked randomly to answer the questions either verbally or to write on the blackboard.
- There will be in-class assignment and activities and those who are present in the class will only get the chance to participate and earn credit.

EXTRA CREDIT:

- Extra credits could be earned from bonus questions on tests (if you answer them correctly), pop-up quizzes and assignments (in-class or homework).

ACADEMIC ASSISTANCE/SUPPORT

- **Tutoring:** Offered by academic success center. University Hall; Suite 156
<http://www.augusta.edu/afa/success-center/>
- **Counseling Center:** The AU Counseling Center provides free academic and personal counseling. Students can seek advice about test anxiety, time management, study strategies, and other issues.
<http://augusta.edu/admin/counseling/>
- **Disabilities:** Augusta University will make reasonable accommodations for persons with documented disabilities. Special accommodations cannot be provided without notification from Disability Services. It is the student's responsibility to contact the Office of Disability Services (Galloway Hall; 706-737-1469; <http://www.augusta.edu/admin/tds/>) as soon as possible for more information and/or to initiate the process for accessing academic accommodations

CLASSROOM BEHAVIOR: EXPECTATION FROM STUDENTS

To maintain proper learning environment, Please do not:

- a) make noises (by talking or laughing, or eating, or snoring) which could be disruptive for the class
- b) expect to get the necessary supplies (like pencils, stapler, paper, etc) from your professor or class-mates
- c) spill any drink, break any glass bottles
- d) leave class before you teacher leaves
- e) write on desks/chairs

Please:

- a) Do your study and homework and come prepared for the class (necessary for you to perform well)
- b) Submit home-work on the due date; make sure you staple the pages if it is a multi page document.
- c) Use only blue or black ink to answer the written questions or assignments.
- d) Wear proper attire and sit properly in the class (remember it's classroom not beach or living room)
- e) Be respectful to your professor and fellow class-mates

ELECTRONIC DEVICES & DIGITAL POLICIES

a) **Cell-phones/pagers:** Should be turned off and in your book bags.

- b) You need my prior permission, if
 - i) you like to tape the lecture
 - ii) you want to use computer/tablets to take notes.
 - iii) you need to have an active cell phone;

You need to give me your name if any of the above applies to you. If for any reason you need to keep your phone on, it should be on vibrator and in your pocket.

c) You are NOT allowed to take any picture of lecture notes, questions on the board and/or overhead screen

NOTE:

- If you are seen to be using your computer/tablets for anything else than for classroom related purposes (chat/snap-chat/FB/Twitter, etc your privilege for using these devices will be taken off.
- No texting or other usage of cell phones are allowed during the class. If you are seen using your phone during class, 10 points will be deducted each time from your total grade point.
- Exception: a) For some in-class assignments you will be allowed to use your cell phones for net browsing during the time of assignment.
 - b) You are allowed to take picture with your cell phone only in the lab.

INCLEMENT WEATHER

If there is bad weather (tornado, hurricane or snow) University policy and cancellation will be followed. Make sure to sign up to get the alerts.

CAMPUS RESOURCES

- Easy login to D2L: lms.augusta.edu
- Biology office: SCI W2015

You can talk with Ms Brenda Brunk if you have any question related with Biology courses

- Department of Biological Sciences: <http://www.augusta.edu/colleges/scimath/biology/>
- Academic Success Center: University Hall; Suite 156 <http://www.augusta.edu/afa/success-center/>
- Reese Library at Summerville: <http://www.augusta.edu/library/reese/>
- Greenbalt Library at Medical college: <http://www.augusta.edu/library/greenblatt/>
- Testing and Disability Services: <http://www.augusta.edu/admin/tds/disabilityservices.php>
- Student Manual: http://www.augusta.edu/students/conduct/documents/fy15_student_manual.pdf
- Career Services: <http://www.augusta.edu/careerservices/>
- Academic Advising: <http://www.augusta.edu/advising/>
- Study Abroad: <http://www.augusta.edu/studyabroad/programs.php>

BIOL 2111 - Lab Schedule

Day of Meeting:	Lab Activities	Exercises:
6 th Jan	Lab 1: The Language of Anatomy Review of Organ System, The Microscope	Ex 1-2 (pg. 1-16, 23-24) Ex 3, (pg 25 – 34)
13 th Jan	LAB 2: The Cell: Anatomy & Division Tissues,	Ex 4 (pg 37 – 50) Ex 6 (pg 65-88)
20 th Jan	(MLK Holiday) No lab; Open Lab (Tues – Fri) for practice	
27 th Jan	LAB 3: Review: Cell and Tissues Integumentary System	Ex 4 & 6 Ex. 7 (pg.93-103)
3 rd Feb	LAB 4: Overview of the Skeleton, Bones The Axial Skeleton, Fetal Skeleton	Ex. 8 (pg 104-110, 114) Ex 9 (pg 115-125, 127-133, 134)
10 th Feb	LAB 5: Appendicular Skeleton	Ex.10 (pg 143-155)
17 th Feb	LAB 6: Articulations Review for Lab Practicum	Ex 11 (pg 167-175)
24th Feb	Lab Practicum I (Topics Labs 1 – 6) @ 11 AM	
2 nd Mar	<i>No Lab – Wk of Spring Pause</i>	
9 th Mar	* Lab 7: Microscopic Anatomy of Skeletal Muscle Identification of Human Muscles Gross Anatomy – Rabbit muscles	Ex. 12 Ex 13 & Ex 10 (from Textbook) Wingerd Dissection Ex 1
16 th Mar	* Lab 8: Rabbit Muscles - Dissection & Identification	Wingerd Dissection Ex 1
23 rd Mar	* Lab 9: Rabbit Muscles - Dissection & Identification	Wingerd Dissection Ex 1
30 th Mar	* Lab 10: Histology of Nervous Tissue; Brain and Cranial Nerves, Sheep Brain	Ex. 15 Ex 17
6 th April	No Labs, Spring Break	
13 th Apr	* Lab 11: Spinal Cord and Nerves; Reflex Physiology; General Sensation, Special Senses – Vision, Hearing and Equilibrium, Olfaction and Taste Dissection-cow eye	Ex. 19-21 Ex 22, 23 Ex. 23-26
20th April	Lab Practicum II (Topics Labs 7 - 11) @ 11 AM	

Note: * Dissection Labs

- PPE are required for labs (Lab-coat, covered toe-shoes, gloves and eye-glasses)
Refer to the Lab safety & Dress Code for further clarifications

BIOL 2111 - LAB POLICIES

This syllabus is subject to change. Any change/s will be announced in the class.

ATTENDANCE: Mandatory, as the lab time is the hands-on time. If you miss one lab you will miss 2 points from your lab participation. If you miss the second lab, there will be additional 5 points deducted from your total course points. If you miss 3 labs, you will be withdrawn from the course.

Also remember you HAVE to spend extra hour to practice the labelling and identification

There is no make-up for Labs and Lab Practicums

**** LABORATORY SAFETY:**

The number one priority in lab is safety – both yours and of everyone else who uses the room. Safety violations will result in point deductions. Appropriate **PPE (Personal Protective Equipment) is required.**

- **NO FOOD & DRINK in the lab; no chewing gum**
- You will be required to wear, long pants (no distressed pants) or skirt (no slits), lab-coats and closed toe shoes to every lab and the lab practicum days. **There are no exceptions.**
- In addition to the above dress codes, safety glasses and gloves are required for dissection labs
- No use of make-up or changing the contacts
- If you have long hair, hair should be pulled back in a bun; no Hats
- Children are not allowed in the lab
- Additional safety instructions will be provided as needed.

NOTE:

- **If you fail to follow these safety procedures, you will not be allowed to do the lab and 5 extra points will be deducted from your total course points for each day of violation.**
- You will be responsible to buy your lab-coat, safety glasses and gloves
- If you are pregnant and/or have Latex or any other chemical allergy please let me know at the first day of lab.

ASSIGNMENTS: You need to finish all assigned lab experiments and exercises at the end of each section.

CLASSROOM BEHAVIOR: EXPECTATION FROM STUDENTS

Please do:

- a) Print the Lab assignments/worksheets posted on D2L and bring those with you
- b) bring Lab Manual and binder for every lab and any homework/assignments
- c) complete the Pre-Lab quizzes and come prepared for the lab; work with your partner and team
- d) handle all the lab instruments/models carefully
- e) take extra care while handling the microscopes and follow the rules (discussed in the class).
- f) wear proper attire (remember it's class)
- g) unplug and turn off any instrument/s after you are done with your lab
- h) wash all glass/plastic wares and rinse them with distilled water after the experiments are over.
- i) wipe off the table after the experiments are over and organize all items the way they were on the table

Please do not:

- i) make noises which could be disruptive for the class
- ii) break any glass bottles, supplies, apparatus
- iii) write on desks/chairs
- iv) leave the class before you are finished with your experiment or lab work
- v) **DO NOT use cleaning solutions with bleach (*I am deadly allergic to Bleach*)**

All other general classroom policies mentioned earlier will also be applied for the lab.

Augusta University - Department of Biological Sciences Academic Honesty Policy

All students are expected to adhere to the “Academic Honesty” policy as stated according to the University’s Academic Conduct Policy. The University’s policy can be found at:

http://catalog.augusta.edu/content.php?catoid=30&navoid=3543#Academic_Honesty

Violations of academic honesty include: cheating, plagiarism, collusion and credential misrepresentation. Consequences for being found guilty of academic dishonesty can result in a zero on the assignment or being withdrawn from the course with a WF. Record of the violation will also be kept as part of the student’s file in the dean’s office; if the student violates this policy a second time they will be subject to expulsion from the University.

The most frequent violation of academic honesty involves plagiarism, often because students do not have a clear understanding of how to properly acknowledge someone else’s ideas and/or words.

As a biology student, you will be asked to complete various writing assignments in your classes that require you to use information from written resources (*e.g.*, your textbook, journal articles, the internet, etc.). It is important that you understand how to cite this information so that you will not be guilty of plagiarism. Make sure that you follow these guidelines, in addition to any other specific guidelines that your instructor may assign:

- Written assignments should be your original work, and should not have been submitted previously by another student or by yourself in any course.
- Although it is commonly done in some other areas of study, scientific reports do not use direct quotations from resources. However, if you take a sentence or a phrase directly from a resource, it should be put in quotation marks and cited appropriately.
- If you take ideas from any resource and put them into your own words, a citation should be given at the end of the sentence.
- Paraphrasing someone else’s words and/or ideas does not involve simply rearranging words or replacing a few words in the quotation. If you have put an idea **truly** in your own words there should be little or no resemblance to the original quotation.
- Each set of ideas should be referenced; do not put one citation at the end of the paragraph, even if you have taken multiple ideas from the same resource. Each idea should be referenced separately!
- You must actually read the sources that you cite; otherwise you cannot be sure that the reference is appropriate for your piece of writing.
- All citations that are found in the text should be included a “Literature Cited” or “References” page; all references listed at the end of your assignment are used in the paper. Style manuals should not be included in the “Literature Cited”

Helpful Tips

1. Tips for good grade:
 - a) Attend classes regularly with a positive attitude.
 - b) Follow & take lecture notes.
 - c) Study regularly, form a study group
 - d) Participate in classroom discussion.
 - e) Allow extra time to practice for Lab. You can go to Lab any time in between 8.30 AM – 4.30 PM for practice when there is no class. You need to have a partner to work in the lab. Make sure to sign up during practice.
 - f) If necessary, take advantage of the tutoring service (located at academic success center)
 - g) Remember paying tuition and studying for certain hours does not make you eligible to get a good grade, you have to perform right.
2. Write down your name and telephone number on your book and notebook. If you leave your book, chances are least that you will get it back when you do not have your name in it.
3. Biology office is located at: SCI W2015
You can talk with Ms Brenda Brunk if you have any question related with Biology courses.
4. Lost and Found is located at Biology Office (CI W 2015)

REMINDER:

- Remember paying tuition and studying for certain hours does not make you eligible to get a good grade, you have to perform right.

BIOL 2111 (Anatomy & Physiology – I)
Spring Semester, 2020

I have received a copy of the BIOL 2111 syllabus.

- I understand it
- I promise to follow the rules and policies.
- I also understand the Augusta University academic honesty policies. I know that plagiarism and collusion are NOT permitted on any of my assignments.

Signature

Date

NAME (PRINT)