

NSG 323 section 1

Anatomy and Physiology Lab II for the Health Sciences

Course Information

Credits:

Lab hrs: 1 credit = 2 clock hrs/week (28 hrs/semester)

NSG 323 1 : Anatomy and Physiology Lab II for the Health Sciences (1.0 Credits)



Summer Semester 2022



Center for Lifelong Learning



School of Nursing

This online, asynchronous course is designed as a stand-alone lab that can be taken concurrently with any anatomy physiology course such as Anatomy and Physiology II and Application to Health (NSG 313). The lab kit utilized in this course contains specialized equipment, an animal cadaver, and other anatomical parts. Learners will study the anatomy and physiology of the cardiovascular, circulatory, lymphatic, respiratory, digestive, urinary and endocrine systems, while also exploring the interrelationships between systems, from molecular to organ levels, which are critical to the proper function of the dynamic human body. This course provides learners with the knowledge and skills necessary to conduct laboratory experiments and utilize the scientific method in a home setting.

Pre-Requisite(s):

Prior or concurrent didactic anatomy and physiology course is recommended.

Co-Requisite(s):

Prior or concurrent didactic anatomy and physiology course is recommended.

Course Format:







Self-Paced

Meeting Days, Times and Locations,:

Fully online. No required in-class sessions. See course outline for anticipated time of completion. Students should plan on a minimum of six weeks to complete this course.



Course Learning Outcomes (CLO):

-  1. Conduct lab experiments safely by adhering to proper technique and ethical standards
-  2. Evaluate lab experiments utilizing the scientific method
-  3. Classify microscopic and macroscopic anatomical structures by physical characteristics, orientation and location, utilizing correct terminology
-  4. Describe the functions and major organs of the cardiovascular, circulatory, lymphatic, respiratory, digestive, urinary and endocrine systems.
-  5. Explain physiologic processes of cellular function and the cardiovascular, circulatory, lymphatic, respiratory, digestive, urinary and endocrine systems.
-  6. Describe interrelationships between body systems at molecular, cellular, tissue and organ levels

Assignments & Assessments

Teaching Methods/Activities:

This course uses a combination of methods to facilitate learning and mastery of content, including:

- Safety guidelines
- Virtual presentations
- Instructional videos
- Recommended websites
- Practice questions
- Digital Lab Manual
- Hands-on experiments conducted in the student's home setting
- Observation and analysis of laboratory results
- Laboratory reports
- Customer support and service

Evaluation Measures/Learning Outcomes:

Course Requirement	Percent of Total Grade	Alignment with Student Learning Outcome(s)
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1. Completion of Laboratory Experiments	20%	SLO 1-6
2. URSON Lab Manual	40%	SLO 1-6
3. Quizzes	40%	SLO 1-6

1. You must turn in your Lab manual work on the lab manual we provide for you in the course. Do not alter the lab manuals provided for you in the learning module. Do not add extra papers or attachments when submitting the lab manual. Any alteration to the lab manual or attaching additional paperwork will affect our ability to appropriately grade your work and could affect your grade.
2. Handwritten work will not be accepted
3. Current versions of Adobe Acrobat and Microsoft's PowerPoint are required
4. If you have any trouble filling in the Lab manual provided, it is the student's responsibility to e-mail course faculty immediately.
5. Only one extension will be provided if the student has reasonable need (as determined by course faculty), unless in extenuating circumstances
6. You must dissect to pass the course
7. You must submit individually completed pictures demonstrating your own work
8. You must submit individually completed lab reports in your own words

Grading System:

A	93-100	C	73-76	
A-	90-92	C-	70-72	"C-" is considered unsatisfactory work for undergraduate students; see <i>Student Handbook</i> for implications.
B+	87-89	D+	67-69	
B	83-86	D	63-66	
B-	80-82	D-	60-62	
C+	77-79	E	<60	Failing grade; see <i>Student Handbook</i> for implications.

The student's final numerical grade will be converted to a letter grade based on the following University of Rochester undergraduate student grading criteria: Grades will be rounded up so that 0.5 (and above) rounds to the next whole number (e.g., a grade of 72.5 will round up to a 73; rounding is only to the tenths; for example, 72.47 does not round up to a 72.5).

The Center for Lifelong Learning wants to make sure you have the time you need to do your best work in this course. It is your responsibility to reach out to course faculty to ask for more time if you need it, and to sign the contract that is sent to you and return it before the end of the semester. Failure to do so will result in zero points posted for any outstanding work and a final grade being calculated and posted.

Required Textbook(s):

eScience Labs, 2nd Edition Anatomy and Physiology Version 2, SKU: Kit5019

Required Materials:

Students will be required to take photographs and/or videos of each lab set-up and upload them to Blackboard. Additional household materials (e.g., bleach, food, measuring cups/spoons) to use throughout the experiments as outlined on the [eScience Labs website](#).



Course Outline:

Lab Topic	Lab #	Approximate Time to Complete
Intro Module		60 minutes
Electrolytes, Water, Acids, and Bases	1	60 minutes
The Cardiovascular System: Blood	2	60 minutes Observation and Analysis: 7-14 days
The Cardiovascular System: Heart	3	60 minutes
The Circulatory System	4	90 minutes
The Lymphatic System and Body Defenses	5	90 minutes
The Respiratory System	6	60 minutes
The Digestive System	7	90 minutes
Nutrition	8	120 minutes Observation and Analysis: 3 days
The Urinary System	9	60minutes
The Endocrine System	10	90minutes

Other Useful Information for Students:

Students are responsible for checking in UR Student to make sure their final grade is posted before ordering a transcript. If the student's final grade appears in UR Student, it will appear on their transcript.

Academic Policies

Disability Statement

If you have a disability for which you may be requesting an academic accommodation, you are encouraged to contact both your instructor and the access coordinator for your school to establish eligibility for academic accommodations.

Academic Honesty Statement

Students are responsible for their own work. Students are expected to have read and to practice principles of academic honesty. See Student Handbook (<https://www.son.rochester.edu/assets/pdf/studenthandbook.pdf>)

Student attestation is completed on Blackboard for each course.

Professional Behavior / Civility Statement

The University of Rochester, School of Nursing (SON) seeks to provide an environment for learning and teaching that is respectful of diverse persons and points of view in all classroom, electronic, and clinical settings. Consistent with this goal, it is expected that diverse perspectives and opinions will be expressed and received in a respectful and professional manner. Incivility, intolerance, hate speech, and abusive behaviors are considered professional misconduct and will be acted upon in accordance with the statement in the Student Handbook. (<https://www.son.rochester.edu/assets/pdf/studenthandbook.pdf>)

Title IX/Sexual Harassment Policy

All members of the University community have the right to learn and work in a safe environment free from all forms of harassment, including harassment on the basis of sex or gender. Students who have been subjected to sexual harassment, including sexual assault, dating/domestic violence or stalking, have the right to receive academic, housing, transportation or other accommodations, to receive counseling and health services and to make a report about such behavior to the University and to law enforcement. For more information please visit www.rochester.edu/sexualmisconduct.

HIPAA Compliance

Students are to abide by the University of Rochester HIPAA Compliance Guidelines which can be found on the SON website (<http://son.rochester.edu/r/HIPAA-Video>).

ADA Statement and Holidays

See Student Handbook (<https://www.son.rochester.edu/assets/pdf/studenthandbook.pdf>)



