



NSG 312 section 1 Syllabus

Human Anatomy & Physiology I and Application to Health

Course Information

Course Information:

Human Anatomy & Physiology I and Application to Health

NSG 312 1 (3.0 Credits)

Spring 2025 Nursing [SPRING2025SON]

Description

This online course focuses on human structure and function for those students pursuing careers in nursing and other allied health fields. Structural information is combined with important functional concepts to provide an integrated understanding of the dynamic human body. The course material begins at the simplest level of cellular organization and progresses to tissues, organs, and organ systems. Specific body systems covered in depth include the skin and body membranes, skeletal, muscular, nervous and endocrine systems. The complementary structure and function of the healthy body is highlighted as systems of the body work to maintain a constant homeostatic environment. Clinical examples are provided to help the student understand the disease process as a disruption of normal structure and function. This course will also focus on the concepts of health promotion and risk reduction of major topics and conditions related to the particular body systems. These topics are introduced to bridge anatomical and physiological content to nursing and health care based on national health promotion priorities. Open to nonmatriculated students.

Prerequisite(s): None

Delivery Mode







Correspondence

Department: SON Center for Lifelong Learning

College: School of Nursing

Meeting Days, Times and Locations,:

Course Learning Outcomes (CLO):

-  1. Discuss basic biochemical concepts and chemical structures in the body including carbohydrates, lipids, proteins, and nucleic acids.
-  2. Explain the basic structure and function of a cell and the importance of cellular reproduction.
-  3. Describe how cells combine to form tissues and discuss the major types of epithelial, connective, muscle, and nervous tissue.
-  4. Correlate microscopic and macroscopic anatomy with the associated physiologic processes for each of the identified body systems.
-  5. Explain the control of body processes in maintaining homeostasis in the body and the role of the nervous and endocrine systems in achieving balance.
-  6. Apply concepts of health promotion and risk reduction for identified conditions related to each body system.

Assignments & Assessments

Teaching Methods/Activities:

- **E-Book readings with audio summaries from Pearson**
- **PowerPoint outlines** with printable slides aligned with each text chapter as content outlines. These can easily be used to guide your studying.
- **Optional Pearson Dynamic Study Modules.** Dynamic Study Modules use the latest developments in cognitive science to help you study course topics by adapting to your performance in real-time.
- **PAL 4.0 Practice Anatomy Lessons** for selected modules. PAL is an indispensable virtual anatomy study and practice tool that gives students 24/7 access to the most widely used lab specimens including human cadaver, anatomical models
- **Optional Pearson Study Area**, including Practice quizzes, animations, and mp3 files
- **Graded Pearson "Homework"** Completing the homework assignments will greatly enhance your understanding of the material as they are designed to be thorough and in-depth. Engaging with these tasks will not only reinforce key concepts but also provide you with a deeper insight into the subject matter.
- **Graded Harmonize Discussion Boards**, which guide you in applying anatomy-related health promotion concepts.
- **Graded Blackboard Clinical Case Studies** in selected Learning Modules

- **Graded Blackboard Tests** to assess your mastery of the materials

Questions about the course or content should be emailed to Haley Markham at SON-NSG312@URMC.Rochester.edu.

Evaluation Measures/Learning Outcomes:

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.

Course Requirement	Percent of Total Grade	Alignment with Student Learning Outcome(s)
1. Online tests	70%	SLO 1, 2, 3, 4, 5, & 6
2. Harmonize Discussion	10%	SLO 6
3. Case Studies	10%	SLO 1, 2, 3, 4, 5, & 6
4. Pearson Homework	10%	SLO 1, 2, 3, 4, 5, & 6

The final grade entered is based on School of Nursing grading system. See *Student Handbook page 22* (<https://www.son.rochester.edu/assets/pdf/studenthandbook.pdf>).

This course is entirely online, so the only way course faculty have to contact you is through the email you used to sign up for this course. You should be checking your email at least 3-4 times per week in case course faculty are trying to contact you. This is extremely important. Please feel free to contact course faculty with any questions.

Grading System:

Undergraduate Grading*

A student must earn an overall course average of 73.00%. Grades will not be rounded up.

The following grading scale is used for the undergraduate programs:

Numeric Grade (Blackboard)	Letter Grade (URStudent/Transcript)	Grade Points (URStudent/Transcript)
93-100	A	4.0
90-92	A-	3.7
87-89	B+	3.3
83-86	B	3.0

80-82	B-	2.7
77-79	C+	2.3
73-76	C	2.0
70-72	C-	1.7
67-69	D+	1.3
63-66	D	1
60-62	D-	.7
Below 60	E	0.0

ABSN only*: A student must earn at least an overall course and exam average of 73.00% exam average in a course and 73.00% overall average in the same course to pass the course. **Grades will not be rounded up.** *Detailed information about grading in ABSN courses can be found in Appendix J.*

Grades that carry no grade points and are not used to compute the cumulative point hour ratio are:

S	Satisfactory
P	Pass
WP	Withdraw passing
WE	Withdraw failing
I	Incomplete
N	No grade reported
AU	Audit

Required Textbook(s):

Marieb, E. N., & Keller, S., K. (2022). *Essentials of human anatomy & physiology* (13th ed.) (ISBN 13: 8220144212424). Pearson.

PLEASE NOTE: The Pearson textbook is required for class activities, readings and to supplement the online lectures. This ISBN is created specifically for NSG 312 and NSG 313, you cannot buy this at the bookstore. You will be prompted to purchase this text when you enter the course.

Course Outline:

Session One: Organization of the Human Body

Session Two: Chemistry, Matter, & Life

Session Three: Cells & their Functions

Session Four: Tissues, Glands, & Membranes

Session Five: The Integumentary System

Session Six: The Skeletal System

Session Seven: The Muscular System

Session Eight: The Nervous System I

Session Nine: The Nervous System II

Session Ten: The Endocrine System

Academic Policies

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](#).

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

The University of Rochester welcomes students, faculty, staff and visitors with disabilities to our campus. We strive to meet the needs of all qualified participants in our programs and services by providing reasonable accommodations for individuals with disabilities and connection to resources within the University. Students seeking accommodations on the basis of a disability should follow the steps outlined on the [University's Disability Services website](#). The School of Nursing has designated an access coordinator to assist with implementing approved academic accommodations through an interactive process. Contact information for access coordinators can be found on the [Disability Services website](#).

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



Holidays

See the [University of Rochester School of Nursing Handbook](#).



Refund Policy for Dropping a Course

All full-semester courses start the first day of the semester, regardless of when the first actual class session/meeting/zoom is held. After **7 calendar days** from the semester start date, the refund schedule takes effect and students will owe money if they are dropping the course. This policy pertains to all students, regardless of any tuition benefit or scholarship. For additional details about dropping or withdrawing from courses, please see the [UR SON Student Handbook](#)



Guidelines for the Use of Artificial Intelligence (AI)

Students at the School of Nursing must comply with faculty directions about using artificial intelligence (AI) and AI-generated text (such as ChatGPT, Duolingo, etc in student assessments, which may include encouragement to use AI, a prohibition from using AI, and various considerations between these two ends. If AI is allowed, students must cite its use (see <https://apastyle.apa.org/blog/how-to-cite-chatgpt>). In addition, students are responsible for verifying any citations provided by AI due to the known possibility of AI generating fictitious references. In all cases, students are encouraged to speak with course faculty about their intended use of AI. The risk of not adhering to these guidelines raises the risk of breaching academic and professional integrity guidelines as described in the [SON Student Handbook](#).



Safe Assign Disclosure

SafeAssign is a plagiarism prevention tool for students and instructors that may be used in your course. This tool is designed to compare your writing with other assignment submissions and published works and report any phrases or passages identical or similar to those in other assignment submissions and published works. If applicable, students are encouraged to submit their papers to a Draft SafeAssign assignment link in the course. If you have questions or are concerned about your report results, please reach out to the course faculty to discuss. Papers submitted to the Draft SafeAssign link will not count towards your grade, and students will not be penalized for any plagiarism detected in a draft. However, students are responsible for handing in final assignments that adhere to the School of Nursing Academic Honesty Policy.

Students are responsible for avoiding plagiarism and need to be attentive to writing in their voice and always cite and/or quote the ideas of others. SafeAssign will not detect all plagiarized content. Students are responsible for any plagiarized materials even if SafeAssign does not detect them.

Please see this guide (<https://help.blackboard.com/SafeAssign/Student>) and view [Assignments: Referencing, Plagiarism and Draft SafeAssign](#) for information on how to use SafeAssign and interpret the results.