Biology 650-001: Human Anatomy

INSTRUCTOR:	Dr. John Yarotsky, PhD	**EMAIL:**	yarotsky@njit.edu
OFFICE:	CKB 340C	**OFFICE HOURS:**	Thurs 3-6
COURSE SCHEDULE:	Thurs 6-9 CKB 316	**COURSE WEBSITE:**	NJIT Canvas Page

COURSE DESCRIPTION: This course is an introduction to human anatomy from an integrative perspective. Students learn the structure and function of tissues and cells, the skeletal system, the muscular system, the nervous system, the endocrine, the reproductive system, along with all other organ systems.

OBJECTIVES:

---Relate basic concepts in general biology (including Cell transport, biochemistry and metabolism) to more complex body processes.

---Describe The major tissue types in the body and know their location, structure and function.

--- Describe how bones form and what their chemical and physical properties are. Be able to name all of the bones of the body and describe the anatomy of several major joints.

--- Understand how the nervous system functions as one of the major control systems of the body. Be able to describe the major anatomical structures including the brain, spinal cord, peripheral nerves and the autonomic nervous system and know their major functions.

--- Understand how muscles interact with the nervous system, how muscles function within the body, and what biomechanical principles describe locomotion from the joint level through the level of the organism.

--- Understand how the endocrine system functions as the body's second major control system. Be able to describe the major endocrine organs, their primary functions and diseases associated with them.

PREREQUISITES: Mammalian Physiology (BIOL 340), or may be taken concurrently with permission of instructor.

INSTRUCTIONAL MATERIALS: NETTER ATLAS OF HUMAN ANATOMY: A SYSTEMS APPROACH, 8TH EDITION
ISBN: 9780323760287
BODYVIZ PORTAL: HTTPS://WWW.BODYVIZ.COM/

SUPPLEMENTAL MATERIALS: Any additional materials required for class (case study's, primary literature, etc) would either be provided through Canvas (UCID required), handed out in class, or via web link.

CODE OF STUDENT CONDUCT: Be aware of the rules set forth in the University Code on Academic Integrity. In brief, the instructor will not allow cheating or plagiarism.

REASONABLE ACCOMMODATION: If you have a special need that may require an accommodation or assistance, please inform me of that fact as soon as possible and no later than the end of the second class meeting. Students with disabilities who require accommodations must contact Dr. Phyllis Bolling, Center for Counseling and Psychological Services (C-CAPS), Campbell Hall, (entry level), room 205, (973) 596-3420.

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COURSE REQUIREMENTS, EVALUATION PROCEDURES, AND POLICIES:

GRADING	POINTS
Three lecture exams	30 pts (10pts each)
Attendance & Participation	20 pts
Weekly Assessment Assignments	20 pts
Final Exam	30 pts
TOTAL	**100 pts**

GRADING SCALE			
A	90-100	C	70-74
B+	85-89	D	65-69
C+	75-79	F	Below 65

CLASS ATTENDANCE IS REQUIRED: Attendance will be taken, and attendance is included in the course grade. This class is not a traditional lecture-based course

MAKE-UP POLICY:

- **Assignments:** In order for an absence to be excused, students must contact the **Office of the Dean of Student Affairs** as soon as possible, following their knowing that they will be missing a class. For example: This means if you wake up in the morning and are too ill to come to class, you should email them immediately. Arrangements can then be made by that office. Documentation of your absence should then be provided to the Office of the Dean of Student Affairs (Doctors note, court notice etc...). Under no circumstances are you to contact the instructor or provide them with details of the reason you missed class or an assignment. It is your right to keep that information private and should only be detailed to the Office of the Dean of Student Affairs.
- **Late Work:** Assignments are due at the beginning of the class as outlined in their descriptions syllabus. If you must be absent on the day work is due, it is your responsibility to turn it in early or make arrangements for someone else to turn it in on the due date. Other possibilities include submitting electronically version via email. Unexcused late work will receive a 10% penalty for every day late.

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SCHEDULE AND TENTATIVE COURSE OUTLINE:

WEEK #: DATE	LECTURE TOPIC	ASSESSMENT ASSIGNMENTS
Week 1: Sep 7	Introduction/	Review Module: Anatomy Basics (All) Assessment Modules: Anatomy Basics 4-9
Week 2: Sep 14	Axial Skeleton	Review Module: Skeletal System 1-3 Assessment Module: Skeletal System 1-3
Week 3: Sep 21	Appendicular Skeleton	Review Module: Skeletal System 4-7 Assessment Module: Skeletal System 4-7
Week 4: Sep 28	Striated Muscular System	Review Module: Muscular System 1-7 Assessment Module: Muscular System 1-7
Week 5: Oct 5	Exam 1	
Week 6: Oct 12	Nervous System-Central	Review Module: Nervous System 1-5 Assessment Module: Nervous System 1-5
Week 7: Oct 19	Nervous System-Peripheral	Review Module: Nervous System 6,7,8 Assessment Module: Nervous System 6,7,8
Week 8: Oct 26	Endocrine System	Review Module: Endocrine System 1,2,3 Assessment Module: Endocrine System 1,2,3
Week 9: Nov 2	Respiratory System	Review Module: Respiratory System 1,2,3,4 Assessment Module: Respiratory System 1,2,3,4
Week 10: Nov 9	Exam 2	
Week 11: Nov 16	Cardiovascular System	Review Module: Cardio System 1,3,4,5,6,7,8 Assessment Module: Cardio System 1,3,4,5,6,7,8
Week 12: Nov 21	Digestive System	Review Module: Cardio System 1,2,4,5,6 Assessment Module: Cardio System 1,2,4,5,6
Week 13: Nov 30	Urinary System	Review Module: Cardio System 1,2,3 Assessment Module: Cardio System 1,2,3
Week 14: Dec 7	Exam 3	

FINAL EXAM WEEK:		

Academic Dishonesty: The course has a zero tolerance policy for academic dishonesty, including plagiarism and cheating. Instances of dishonesty will be punished by a zero on the assignment and consultation with the office of the Dean of Students to determine if further action is required. If you have any questions about what constitutes plagiarism or cheating, please ask us or refer to the academic integrity code: www.njit.edu/academics/integrity.php.