



I. Course Information

Course: BIOL 3320 - Anatomy and Physiology I/Lab
Semester Credit Hours: 4.0
Course CRN and Section: 20574 - DA6, 20575 - DA7
Semester and Year: Fall 2017
Course Start and End Dates: 08/21/2017 - 12/10/2017

II. Instructor Information

Name: Saleem, Mir

Email:

Phone: 9542628360

Office Hours: Other times, by appointment only.

Office Hours: TR 01:00 PM - 3:30PM

This course is administered by the Department of Biological Sciences. If the instructor cannot be reached, please contact the Department of Biological Sciences at 954-262-8424.

III. Class Schedule and Location

CRN	Day	Date	Time	Location	Building/Room
20574	TR	08/22/2017 - 10/05/2017	4:00 PM - 5:15 PM	Ft Lauderdale/Davie Campus	Carl DeSantis Building- 3048
20574	R	08/24/2017 - 10/05/2017	6:00 PM - 8:45 PM	Ft Lauderdale/Davie Campus	Panza Science Annex-6
20574	T	10/10/2017 - 10/10/2017	3:30 PM - 5:30 PM	Ft Lauderdale/Davie Campus	Carl DeSantis Building- 3048
20574	TR	10/17/2017 - 11/30/2017	4:00 PM - 5:15 PM	Ft Lauderdale/Davie Campus	Carl DeSantis Building- 3048
20574	R	10/19/2017 - 11/30/2017	6:00 PM - 8:45 PM	Ft Lauderdale/Davie Campus	Panza Science Annex-6
20574	T	12/05/2017 - 12/05/2017	3:30 PM - 5:30 PM	Ft Lauderdale/Davie Campus	Carl DeSantis Building- 3048

20575	TR	08/22/2017 - 10/05/2017	4:00 PM - 5:15 PM	Ft Lauderdale/Davie Campus	Carl DeSantis Building- 3048
20575	F	08/25/2017 - 10/06/2017	9:00 AM - 11:45 AM	Ft Lauderdale/Davie Campus	Panza Science Annex-6
20575	T	10/10/2017 - 10/10/2017	3:30 PM - 5:30 PM	Ft Lauderdale/Davie Campus	Carl DeSantis Building- 3048
20575	TR	10/17/2017 - 11/30/2017	4:00 PM - 5:15 PM	Ft Lauderdale/Davie Campus	Carl DeSantis Building- 3048
20575	F	10/20/2017 - 12/01/2017	9:00 AM - 11:45 AM	Ft Lauderdale/Davie Campus	Panza Science Annex-6
20575	T	12/05/2017 - 12/05/2017	3:30 PM - 5:30 PM	Ft Lauderdale/Davie Campus	Carl DeSantis Building- 3048

IV. Course Description

This is the first part of a two-part course that deals specifically with form and function of vertebrate organ systems. The lecture period stresses human physiology and the laboratory is mainly devoted to gross anatomy. However, the lecture and laboratory are presented in a unified fashion with the aim that each reinforces the other in presenting a complete picture of functional morphology. Although lower vertebrates are used for comparative purposes, mammalian systems receive major emphasis in both lecture and laboratory. Prerequisite: BIOL 1500 or equivalent. Frequency: Every Fall and Winter.

V. Course Objectives / Learning Outcomes

- 1) Demonstrate an understanding of the chemical, cellular and tissue levels of organization
- 2) Demonstrate an understanding of the structure and function of the human integumentary system
- 3) Demonstrate an understanding of the structure and function of the human skeletal system
- 4) Demonstrate an understanding of the structure and function of the human muscular system
- 5) Demonstrate an understanding of the structure and function of the human nervous system
- 6) Demonstrate an understanding of the structure and function of the human endocrine system

VI. Materials and Resources

Book Url: [NSU Book Store](#)

Section Supplemental Material: Bring lab coat, protective eye-gear, closed shoes, atlas, notebook paper, pencils and colored pencils.

VII. Course Requirements

Department of Biological Sciences Academic Honesty Policy: Any impropriety (e.g., cheating/plagiarism) on examinations and/or any coursework or enabling any such impropriety may constitute grounds for failing the course. A form describing any academic misconduct will be sent to the Dean's office and kept in the offending student's permanent record. Further disciplinary action may occur at the level of the University according to the University catalog section on academic integrity http://www.nova.edu/undergraduatestudies/forms/2016-17_undergraduate_catalog.pdf

VIII. Course Schedule and Topic Outline

Course Schedule:

Date	Topic	Readings
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08/2208/24	Tissue Level of Organization Integumentary System	Chapter 4 Chapter 4 Chapter 5
08/2909/31	Osseous Tissue Axial Skeletal System	Chapter 6 Chapter 7
09/05 09/07	Exam # 1 Axial Skeletal System Appendicular Skeletal System	Chapters 4 – 6 Chapter 7 Chapter 8
09/1209/14	Articulations Muscle Tissue	Chapter 9 Chapter 9
09/19 09/21	Exam # 2 Muscle Tissue Muscular System	Chapters 7 – 9 Chapter 10 Chapter 11
09/2609/28	Muscular System Neural Tissue	Chapter 11 Chapter 12
10/0310/05	Neural Tissue Review	Chapter 12
10/10	Midterm Lecture Exam: Please check course wizard for the time and the date.	Chapters 4 – 11
10/1710/19	PNSThe Brain and Cranial Nerves	Chapter 13 Chapter 14
10/2410/26	The Brain and Cranial Nerves The Special Senses	Chapter 14 Chapter 17
10/31 11/02	The Special Senses Exam # 3 Endocrine System	Chapter 17 Chapters 12 – 14 Chapters 18
11/0711/09	Endocrine System Sensory Pathways and Somatic Nervous System	Chapter 18 Chapter 15
11/1411/16	Sensory Pathways and Somatic Nervous System Autonomic Nervous System and Higher-Order Functions	Chapter 15 Chapter 16
11/2111/23	Autonomic Nervous System and Higher-Order Functions NO CLASS	Chapter 16
11/28 11/30	Exam # 4 Review	Chapters 15, 17, 18
12/05	Final exam date & time: Please check course wizard for the time and the date.	Chapters 4 – 18

Topic Outline:

Laboratory Sessions Date	Topic
08/24	Anatomical Terms Microscope The Cell
08/31	Quiz # 1 Tissues Integumentary System

09/07	NO CLASS
09/14	Quiz # 2 Osseous Tissue Axial Skeleton
09/21	Quiz # 3 Appendicular Skeleton Joints
09/28	Quiz # 4 Review Lab
10/05	MIDTERM PRACTICAL EXAM
10/12	NO LAB
10/19	Axial Muscles Muscle Tissue
10/26	Quiz # 5 Appendicular Muscles
11/02	Quiz # 6 Nervous Tissue CNS and PNS
11/09	Quiz # 7 Special Senses Endocrine System
11/16	Quiz # 8 Review Lab
11/30	FINAL PRACTICAL EXAM

IX. Assessments

Lecture Exams (20%)

Four lecture examinations will be administered during the semester. The material tested will come primarily from the lecture notes and the textbook. There are no unexcused make-ups. Document(s) should be provided for excused make-up exams.

Mid-Term Lecture Examination (15%)

The mid-term examination will include material from all the chapters covered until that time. Attendance is mandatory. No make-ups.

Final Comprehensive Examination (20%)

The final comprehensive exam will be administered during finals week. The exam will include material from the chapters covered in class. Attendance is mandatory. No make-ups.

Lab Quizzes (12%)

Lab tests will cover material up until that date. Tests start within the first minute of the lab period.

There are no unexcused make-ups. Document(s) should be provided for excused make-up exams.

Pre-lab Assignments (4%)

Includes basic information about histology, anatomy and physiology to prepare the students in advance for each lab session.

Lab and Post-Lab Assignments (4%)

Attendance to all labs are mandatory. Each student must complete all scheduled exercises during their lab session including model survey, histology, physiology and dissection. They will turn in their completed work at the conclusion of the lab session during the clean-up time. If a lab is missed for any reason and the student does not make up for that lab, the student will lose 3% of their final grade for each lab absence.

Students should complete a post-lab assignment after each lab and it's due before the start of the next lab.

Mid-term Practical Examination (10%)

The mid-term examination will be administered to test each student's skill of observation and ability to identify anatomical structures and physiological processes. The mid-term exam will cover all material to that date. No make-ups.

Final Practical Examination (10%)

The final practical examination will be administered to test each student's skill of observation and ability to identify anatomical structures and physiological processes. It will cover all remaining material from the mid-term. Attendance is mandatory. No make-ups.

Article Assignment (5%)

The details of the assignment is available on blackboard.

NOTE: Students that arrive late for any lecture or laboratory exam will only have the time remaining before the exam is officially concluded to complete it

X. Grading Criteria

Your final grade is determined by your performance on a number of different tasks:

Percentage	Final Grade
93.0 and above	A
90.0-92.9	A-
87.0-89.9	B+
83.0-86.9	B
80.0-82.9	B-
77.0-79.9	C+
73.0-76.9	C
70.0-72.9	C-
67.0-69.9	D+
60.0-66.9	D
59.9 and below	F

XI. Course Policies

Department of Biological Sciences Statement on Academic Misconduct: Any impropriety (e.g., cheating/plagiarism) on examinations and/or any coursework or enabling any such impropriety may constitute grounds for failing the course. A form describing any academic misconduct will be sent to the Dean's office and kept in the offending student's permanent record. Further disciplinary action may occur at the level of the University according to the University catalog (http://www.nova.edu/undergraduatestudies/forms/2017-2018_undergraduate_catalog.pdf) - section on academic integrity.

Students are expected to arrive on time and attend all classes. All cell phones and beepers are to be

turned off. Please do not bring or eat food in the classroom during the lecture. You may use laptops to aid in note-taking, but if you are found to be using a laptop for any other purpose during class time, you will lose your laptop privileges for the remainder of the semester. Attendance is taken at the beginning of each class. Lab attendance is mandatory. If there is no make-up for the lab you missed, 3% of your final class grade is deducted for each missed lab. A student must attend the entire class. You are allowed to attempt each exam/quiz only once. All assignments, tests and exams are due or begin at the beginning of the scheduled class session. Late work will not be accepted. It is the student's responsibility to acquire any missed material or announcements from a fellow student. There will be no make-up or late work accepted, with the exception of bona-fide documented excuses following NSU's policy. The procedure to turn in work late or complete a missed assignment requires the student to contact me as soon as possible to make arrangements. Do not wait until the next class session you attend to request a make-up or to turn in late assignments. I will do my best to return all phone calls and e-mails within 24 hours Monday - Friday, and within 48 hours Saturday-Sunday.

Work conflicts, late registration, family events and transportation difficulties are not eligible for make ups. Student athletes must provide their anticipated conflict dates and also have their coach verify any NSU athletic event that conflicts with the class schedule in order to arrange for any makeups.

Any impropriety (e.g. cheating, plagiarism) on exams or lab reports, will constitute grounds for failing the course. I expect you to make it clear to me when you do not understand something, preferably by asking questions in class. Alternatively, see me during my office hours.

XII. University Policies

Students should visit <http://www.nova.edu/academic-affairs/nsu-syllabus-policy.html> to access additional required college-wide policies. It is your responsibility to access and carefully read these policies to ensure you are fully informed. As a student in this class, you are obligated to follow these college-wide policies in addition to the policies established by your instructor.

The following policies are described on this website:

- Academic misconduct
- Last day to withdraw
- Email policy
- Student course evaluations
- Student responsibility to register
- Student responsibility for course prerequisites

Academic Resources

Nova Southeastern University offers a variety of resources that may aid in student success. Among these resources are:

Accommodations for students with documented disabilities: For more information about ADA policy, services, and procedures, students may call the Office of Student Disability Services at 954-262-7189 or visit <http://www.nova.edu/disabilityservices>.

Tutoring and testing center:

Students are encouraged to use the free, individualized tutoring services offered by the Tutoring and Testing Center (TTC). TTC provides a supportive atmosphere in which tutors and students work collaboratively on improving students' writing, math and/or science skills. <http://www.nova.edu/tutoring-testing/index.html>