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SCN 119N.01: Anatomy and Physiology

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SCN 119N - ANATOMY AND PHYSIOLOGY - COURSE POLICIES

Course Objectives:

This course will provide you with conceptual and practical information on the anatomy and physiology of the human organism. At the completion of this course, you should be able to 1) clearly understand the scientific terminology that is used to describe the structure and function of the human body, 2) demonstrate practical knowledge of human gross anatomy, 3) describe the normal function of different body systems, and 4) understand how structure and function are related in human beings.

Course Requirements:

There are no pre-requisites for enrollment in SCN 119N. The study of human form and function requires exposure to the material from a practical as well as a theoretical approach. Consequently, regular attendance at all lab and lecture meetings is required to successfully complete this course. The class is structured so that if you complete all assignments, with an appropriate level of effort, you can pass this course. This means that in addition to attending class, you must commit yourself to at least twenty (20) hours of intensive, individual study, plus an extra two to four hours in open labs each week. You must also accept the responsibility to ask questions if you do not understand the concepts. If absence from lab or lecture is necessary due to illness, it is your responsibility to obtain notes from another student. Be aware that cadaver work is a required part of this class.

Grading:

Your course grade will be determined by your performance in the lecture and lab, according to the following schedule:

Lecture Exam 1	40 points	Lab Exam 1	50 points
Lecture Exam 2	40 points	Lab Exam 2	50 points
Lecture Exam 3	40 points	Lab Exam 3	50 points
Final Exam	80 points	Quizzes	50 points
Total possible for Lecture	200 points	Total possible for Lab	200 points

In addition to regular exams and quizzes, there will be periodic assignments or lecture quizzes that will contribute an additional 2 percent toward your final grade. While this is a small percentage, these assignments if completed accurately, and on time can make a difference in borderline totals.

An integral part of the laboratory is work with cadavers. Beginning with the muscular system we will be studying cadaver dissections almost weekly. Unless you have religious or cultural proscriptions against working with cadavers, you will be required to attend these labs. Missing one of the cadaver labs without pre-approved, excusable absence will result in a **10 point deduction** from your lab point total for the semester for each absence.

Lecture and lab scores will be combined and final grades assigned as follows:

90-100%	A
80-89%	B
70-79%	C
50-69%	D
<50%	F

Examinations:

Notice that the lecture and the laboratory are each worth 50% of your final grade. Do not take either lightly. Midterms and lab practicals cover only the new materials presented since the previous exam. The lecture exams will be drawn from lecture and assigned reading. Lecture exams will be 40 multiple choice questions worth two and one-half points each. The final exam is comprehensive. Details of the final exam will be presented near the end of the semester. Laboratory examinations are based on the use of actual specimens, and therefore must be taken during the assigned laboratory time. The nature of the lab exams and quizzes will be covered in detail in your lab.

Quizzes:

Laboratory quizzes will be given each week during the first 10 minutes of class. If you are tardy and miss the quiz, you will not be allowed to take it and will receive a 0 for that quiz. A total of 15 quizzes are given and the five (5) lowest quiz grades will be dropped at the end of the semester. These 5 drops make allowance for unforeseen circumstances that cause you to perform poorly, be late, or miss a lab. No makeups will be allowed on quizzes until these 5 opportunities have been used.

Make-up Exams:

Make-up exams and lab quizzes will only be given under extreme circumstances, and then only if:

- 1) permission is granted in advance by the instructor, or
- 2) a written excuse is provided by a medical practitioner.

The burden of proof is on the student, so you must document and prove a justifiable excuse.

No shows on the day of the exam will automatically be given a grade of 0.

If you participate in university athletics or other activities, and must be absent from an exam, you must arrange for the makeup prior to your departure.

Dropping and Change of Grading Option:

University policies on drops, adds, changes of grading option (pass/no pass, audit) will be strictly enforced. These policies are described in the UM Catalog (<http://www.umt.edu/catalog/acpolpro.htm>). You should specifically note that after the 30th day of the semester, such changes are NOT automatically approved. They may be requested by petition, but the petition MUST be accompanied by documentation of extenuating circumstances. Requests to drop a course or change the grade basis to benefit grade point average will not be approved. The faculty senate guidelines concerning incomplete grades will be followed.

Student Conduct and Responsibilities:

Attention to critical dates for dropping this class is the student's responsibility. Students wishing to drop the class after the drop deadline will need a documented, justifiable reason for doing so. Dropping or change of grading option after deadlines for fear of a bad grade or to protect your GPA is not a justifiable reason. The principles and policies embodied in the Student Conduct code will be adhered to in this course.

Finally, a word about cell phones. These devices have become an essential part of student lives, but they are a serious distraction in class. Please turn off all cell phones in class and refrain from receiving and making calls in the class room. If you have special circumstances that require monitoring calls, you must clear them with me and ensure that your phone is on silent mode during class.

Date	Topic	Assignment
August 29	First Principles: What is Anatomy?	Chapter 1,
	Chemical principles: atoms, molecules, ions	Chapter 2
30	Chemical principles: the building blocks of life	Chapter 2
31	Enzymes;	Chapter 2
September 1	Lab 1: Introduction; Language of Anatomy	Exercise 1
2	Lab 2: Cell anatomy and division	Exercise 3
	5 LABOR DAY HOLIDAY	Chapter 3
6	Cells and tissues	Chapter 3
7	Cells and tissues	Chapter 3
8	Lab 3: Epithelium, connective tissue	Exercise 5
9	Lab 4: Muscle, nerve tissue	Exercise 5
12	Integument	Chapter 4
13	Integument	Chapter 4
14	Integument	Chapter 4
15	Lab 5: Integumentary system: anatomy	Exercise 6
16	Lab 6: Integumentary system: general sensation	Exercise 6
19	Skeletal system	
20	Skeletal system	Chapter 5
21	EXAM 1: Introduction to Integumentary System	Chapter 5
22	Lab 7: Skeleton: Bone tissue, skull	Exercise 7, 8
23	Lab 8: Skeleton: Skull & appendicular skeleton	Exercise 8, 9
26	Skeletal system	Chapter 6
27	Muscular system	Chapter 6
28	Muscular system	Chapter 6
29	LAB EXAM 1: Terminology to Axial Skeleton	Exercise 9
30	Lab 9: Joints, Muscular system - <i>cadaver</i>	Exercise 10, 12

Date	Topic	Assignment
October 3	Muscular system	Chapter 6
4	Muscular system	Chapter 6
5	Nervous system	Chapter 7
6	Lab 10: Muscular system	Exercise 12
7	Lab 11: Muscular system – cadaver	Exercise 12
10	Nervous system	Chapter 7
11	nervous system - central n. s.	Chapter 7
12	Special senses – sight	Chapter 8
13	Lab 12: Muscular system – cadaver	Exercise 12
14	Lab 13: Muscular system – cadaver	Exercise 12
17	Special senses - smell, taste	Chapter 8
18	Endocrine system	Chapter 9
19	EXAM 2: Skeletal system to special senses	
20	Lab 14: Nervous system: brain – cadaver	Exercise 14
21	Lab 15: Nervous system: spinal nerves – cadaver	Exercise 15

	24	Endocrine system	Chapter 9
	25	Blood	Chapter 10
	26	Blood	Chapter 10
	27	LAB EXAM 2: Skeleton to nervous system	
	28	Lab 16: Special senses	Exercise 17
	31	Circulatory system	Chapter 11
November	1	Circulatory system	Chapter 11
	2	Lymphatic system	Chapter 12
	3	Lab 17: Circulatory system: Blood	Exercise 19
	4	Lab 18: Circulatory system – cadaver	Exercise 20
	7	Pulmonary system Fluid homeostasis (pH, electrolytes)	Chapter 13
	8	Pulmonary system	Chapter 13
	9	EXAM 3: Endocrine system to lymphatic system	
	10	Veterans Day Holiday	
	11	Lab 20: Circulatory system - cadaver	Exercise 21
	14	Urinary system	Chapter 15
	15	Urinary system	Chapter 15
	16	Fluid homeostasis (pH, electrolytes)	Chapter 15
	17	Lab 21: Heart and Lungs	Exercise 20, 23
	18	Lab 22: Lungs, kidneys, digestive - cadaver	Exercise 25 Exercise 26
	21	Digestive system	Chapter 14
	22	Digestive system	Chapter 14
	23	THANKSGIVING HOLIDAY	
	24	THANKSGIVING HOLIDAY	
	25	THANKSGIVING HOLIDAY	
	28	Digestive system	Chapter 14
	29	Reproductive system - male	Chapter 16
	30	Reproductive system – male	Chapter 16
December	1	Lab 23: Reproductive system	Exercise 27
	2	Lab 24: Reproductive system - cadaver	Exercise 27
	5	Reproductive system – female	Chapter 16
	6	Reproductive system – female	Chapter 16
	7	Reproductive system – gestation	Chapter 16
	8	Development	Chapter 16
	9	LAB EXAM 3: Senses to reproductive system	

December 14 FINAL EXAM Section 01 Wed 8-10

December 16 FINAL EXAM Section 02 Friday 8-10