

# BIOLOGY 3455

FALL 2005

Biology 3455, Human Anatomy and Physiology I, is the first of a two-part series designed as a comprehensive examination of the basic principles of human physiology in the context of a detailed examination of human anatomy. This first-half study of the structure-function relationship includes a survey of tissue types, osseous histology and structures, skeletal muscle physiology and anatomy, neurophysiology and anatomy and sensory systems. Major emphasis will be placed on the anatomy of these systems as outlined in a model-based laboratory setting.

Textbooks: Fundamentals of Anatomy and Physiology. Martini, F.H Seventh Edition, Benjamin Cummings, 2006. ISBN 0-8053-7298-9

Laboratory Textbook of Anatomy and Physiology. Wood, 2<sup>nd</sup> Edition, Prentice Hall, 2001. ISBN 0-13-019694-0

Instructor: John H. Moltz, Ph.D.

Schedule: Lecture - Monday, 7:00pm-9:45pm (See attached Lecture Outline)  
Lab - Tuesday, 4:00pm-6:45pm; Wednesday 7:00pm-9:45pm (See attached Laboratory Outline)

Grading: The course grade for Biology 3455 will be determined as follows:

50% - Lecture Exams  
50% - Laboratory Exams

Course letter grades will be assigned according to the following schedule:

A: 100- 89.6 C: 79.5-69.6 F: < 59.5

B: 89.5-79.6 D: 69.5-59.5

'Plus' grades will be assigned.

The lecture grade will consist of four progress exams. The exams will consist of both subjective and objective questions. See attached lecture schedule for the dates of these exams. **MAKEUP EXAMS ARE NOT ROUTINELY GIVEN!**

The laboratory exam grade will consist of three practical exams. The format of these exams will be discussed by the laboratory instructor. **MAKEUP PRACTICAL EXAMS ARE NEVER GIVEN!**

The last date to withdraw from the course, WP or WF, with signatures is October 20, 2005.

Dr. Moltz is available to students before and after each scheduled lecture and lab. Dr. Moltz is also available at [JMoltz@UTDallas.edu](mailto:JMoltz@UTDallas.edu), Office: FO3.310A, 972-883-4172. Teaching assistants are also available for the students.

## BIOLOGY 3455 LECTURE SCHEDULE FALL 2005

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Date	Topic	Chapters

Aug	--		
	29	Integument	5
Sept	5	Holiday	
	12	Osseous Tissue	6
	19	<b>EXAM #1, CHAPTERS 4-6</b>	
	26	Axial Skeleton	7
		Appendicular Skeleton	8
		Articulations	9
Oct	3	Muscle Tissue	10
	10	<b>EXAM #2, CHAPTERS 7-9</b>	
	17	Neural Tissue	12
	24	Spinal Cord	13
	31	<b>EXAM #3, CHAPTERS 10-13</b>	
		Brain, Cranial Nerves	14
Nov	7	Brain, Cranial Nerves	
		Integrative Function	15
	14	Autonomic Nervous System	16
	21	Sensory Systems	17
	28	<b>EXAM #4, CHAPTERS 14-17</b>	

BIOLOGY 3455  
LABORATORY SCHEDULE  
FALL 2005

<u>Date</u>		<u>Topic</u>	<u>Exercises</u>
Aug	23,24	Histology Lecture	Chap 4, Textbook
-	30,31	Histology, Membranes	8-11,13
Sept	6,7	Integument	12
		Skeletal System	14-16

	18,21	Skeletal System	14-16
	20,21	Skeletal System	14-16
	27,28	<b><u>PRACTICAL #1</u></b>	
Oct	4,5	Muscle System	19-22
	11,12	Muscle System Muscle System Lecture	19-22 Chap 11, Textbook
	18,19	Muscle System	19-22
	25,26	Muscle System	19-22
Nov	1,2	<b><u>PRACTICAL #2</u></b>	
	8,9	Nervous System	26-29
	15,16	Nervous System Sensory System	26-29 31,32,34
	22,23	Sensory Systems	31,32,34
	29,30	<b><u>PRACTICAL #3</u></b>	
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