

**MPHY 631/INDI 515**  
**Introduction to Anatomy and Physiology Fall 2011**

Course number: MPHY 631/INDI515  
Term and year: Fall semester, 2011  
Credit hours: 6 semester hours  
Contact hours: See Schedule

**Meeting time:**

Wednesdays from 9:00 AM -12:00 PM

Friday 10/28, 11/4, 11/18, 12/16 from 9:00 AM – 12:00 PM

**Meeting Place:** COB-2402

Carlos A. C. Baptista, M.D., Ph.D. (Course Director)  
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***Instructors:***

Carlos A.C. Baptista, M.D., Ph.D., Department of Neurosciences

***Course description and objectives:***

This course covers an overview of physiology at a cellular, and organ system levels. This will include normal function of human body and some clinical manifestations of human diseases.

Following the completion of this course, the MPHY students will be able to:

1. Describe the normal structure, function and organization of the human body
2. To develop an understanding of the anatomy and physiology of:
  - the endocrine system.
  - the cardiovascular system.
  - the respiratory system.
  - the lymphatic and immune systems.
  - the urinary system.
  - the male and female reproductive systems
  - the digestive system
  - the nervous system
  - the skeletal system
  - the muscular system
  - the immune system

**Format:**

The course is designed to provide the basic scientific understanding of normal function of the human body. The course will combine lecture, labs, assignments and a discussion/reflection format.

Topics to be covered in the class are listed on the week to week schedule. Preparation for each class is expected so that the most benefit can be obtained from the experience.

**Course requirements:**

1. Regular attendance in lecture sessions
2. Active participation in class discussions and activities
3. Completion of all reading assignments
4. Acceptable performance on all examinations

**Required text:**

Patton, Thibodeau and Douglas (2012) Essentials of Anatomy and Physiology Ed. Mosby - Elsevier. ISBN: 978-0-323-08511-3

**Academic Integrity:**

If an instructor has evidence that an act of academic dishonesty has occurred, it may result in an automatic "F" being issued to the student or students involved. Examples of academic dishonesty include cheating on tests, having someone sit in for you to take a test on your behalf, copying another person's work as your own (e.g. plagiarism), using outside sources without giving proper credit, using untrue excuses for missed or late work, etc.

**Blackboard:**

<https://blackboard.utdl.edu/>

Important information will be posted routinely on Blackboard, including handouts, PowerPoint presentations, grades, links to useful resources, etc. All announcements posted on Blackboard are important and we will assume you have read them.

***Grading Criteria:***

There will be four exams as follows:

Exam I: Wednesday, September 28 9:00 to 12:00

Exam II: Wednesday, November 2 9:00 to 12:00

Exam III: Wednesday, December 14 9:00 to 12:00

Practical Exam: Friday, December 16 9:00 to 12:00

A letter grade based on the mean of all cumulative scores will be assigned as shown below.

90% and above A

80%-89% B

70%-79% C

60%-69% D (Unsatisfactory grade for the course)

59 and below F (Unsatisfactory grade for the course)

The mean of all accumulated points in the course less than 70% will be considered unsatisfactory and a grade of fail "F" will be assigned

***Class attendance/participation:***

Students are expected to attend all classroom lectures. Students are required to contact the course director prior to any absence. It is the responsibility of the student for knowing and meeting all course requirements. The instructors have no obligation to give make-up examinations or to review other class work missed by the student as a result of an unexcused absence. The responsibility for making up work missed during any absence rests solely on the student.

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**Schedule**

<b>Week</b>	<b>Date</b>	<b>Topic</b>	<b>Pre-class Readings/Special Note</b>
<b>1</b>	8/24 <i>Wed</i>	Introduction & course overview	
		Organization of the Human Body (1) Level of Structural Organization (1) Language of Anatomy (1)	Chapter 1 pages: 3 - 17
<b>2</b>	8/31 <i>Wed</i>	Anatomy of the Cell (1)	Chapter 3 and 4 pages 45-74
		Cell and Body Tissues (2)	Chapter 6 pages 92-109
<b>3</b>	9/7 <i>Wed</i>	Skin and its Appendages (1)	Chapter 7 pages 116-131
		Skeletal System (1) Bones and Joints Laboratory (Bones and joints) (1)	Chapter 8 pages 136-148 Chapter 9 Pages 152-181
<b>4</b>	9/14 <i>Wed</i>	Muscular System (2) Laboratory (muscles) (1)	Chapter 10 pages 186-219
<b>5</b>	9/21 <i>Wed</i>	The Central Nervous System (1) Brain Peripheral Nervous System (1) Laboratory (Brain) (1)	Chapter 11 pages 226 - 291
<b>6</b>	9/28 <i>Wed</i>	<b>EXAM I</b>	Computerized exam!
<b>7</b>	10/5 <i>Wed</i>	Anatomy and Physiology of the Cardiovascular System (2) Laboratory (Heart) Cross Section Anatomy of the Thorax I(1)	Chapters 17 and 18 pages 374-421
<b>8</b>	10/12 <i>Wed</i>	Endocrine System (2) Blood and Defense (1)	Chapter 15 pages 325-344 Chapter 16 pages 352-369
<b>9</b>	10/19 <i>Wed</i>	Lymphatic and Immune System	Chapter 19 pages 426-447

<b>10</b>	10/26 <i>Wed</i>	Respiratory System (2) Cross Section Anatomy of the Thorax I and II (1)	Chapter 20 pages 454-476
	10/28 <i>Fri</i>	Cross Section Anatomy Laboratory (3)	
<b>11</b>	11/2 <i>Wed</i>	<b>Exam II</b>	
	11/4 <i>Fri</i>	Digestive System (2) Cross Section Anatomy of the Abdomen (1)	Chapter 21 pages 482-510
<b>12</b>	11/9 <i>Wed</i>	Urinary System (2) Cross Section Anatomy of the Abdomen (1)	Chapter 23 pages 534 - 556
<b>13</b>	11/16 <i>Wed</i>	Male Reproductive System (2) Cross Section Anatomy of the male Pelvis(1)	Chapter 24 pages 562-574
	11/18 <i>Fri</i>	Female Reproductive System (2) Cross Section Anatomy of the female Pelvis(1)	Chapter 25 pages 578-595
<b>14</b>	11/23 <i>Wed</i>	Cross Section Anatomy Laboratory (3)	
<b>15</b>	11/30 <i>Wed</i>	Self-Study:	
<b>16</b>	12/7 <i>Wed</i>	Self-Study	
<b>17</b>	12/14 <i>Wed</i>	<b>Final Exam</b>	
	12/16 <i>Fri</i>	<b>Practical Exam</b>	