

# ANATOMY AND PHYSIOLOGY 1

BIOL 2651 sections A,B,C,D &E

Spring 2012

Lecture TR 12:30 to 1:45pm Room 1011 Level 1

Laboratories, Room 2047 (level 2)

Section A Monday 9-10:50 am Section D Wednesday 11:30 -1:20pm

Section B Monday 11:30- – 1:20pm Section E Thursday 9:30 –11:20am

Section C Wednesday 9 – 10:50am

Instructor: Dr. M. F. Karim

Course objective: To provide students with—

1. Basic knowledge of anatomy and physiology involving the human body.
2. The fundamental needed for entry into careers that use human anatomy and physiology as a foundation
3. A basic knowledge of the human body that will allow them to make wise and educated decisions on their health and the health of their families.

**Text book:** Principle of Anatomy & Physiology by G. Tortora & B. Derickson, 12<sup>th</sup>ed

**Lab. Manual:** Lab. Manual for Human Anatomy & Physiology, by Prof. Smith&L  
or To be downloaded from this WEB site: [www.valdosta.edu/~mfkarim](http://www.valdosta.edu/~mfkarim)

Chapter	Topic	Pages and Notes
1	Introduction	4-19
2	Chemistry	This chapter mainly deals with the structure of atom, molecule, ions etc. Concept of acid, base is also dealt with along with pH of body fluid & the structure of DNA.
3	Cellular biology	
4	Tissues	Histology of the tissues and skin will be covered in the lab. Epithelial, Connective, Muscle & nerve tissues.
5	Integumentary sys.	140-159 Main focus will be on Skin structure and functions
6	Bone tissue	162-184 Basic information on structure, blood supply
7 & 8	Skeletal system Axial and Appendicular	For most part, the bones of the skeletal system will be studied in the lab in detail. Specific bones will be discussed in lecture.
9	Joints	
10	Muscle tissue	Information about the type, structure and electrical properties of muscle tissues & the mechanism of muscle contraction will be discussed here.
11	Muscular system	For most part, individual muscles will be studied in the lab..
12	Nervous tissue	Basic information, organization, neurons, RMP, electrical signals as graded & action potential are discussed here.
13-14	Spinal cord & Spinal nerves Brain & Cr. nerves	Brain, spinal cord, spinal nerves & cranial nerves etc Sympathetic & Parasympathetic system Anatomy & Physiology of vision and hearing

15 17	ANS Special senses	Sympathetic & parasympathetic systems are dealt. Anatomy & physiology of vision and hearing.
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The above syllabus is designed to coincide as closely as possible with your lab. schedule. Primary emphasis on the test will be placed on the notes given in the class. However, some questions on the test will come directly from the book. Therefore it is important that you read the material in the text as listed above in association with the class notes. This will enhance your understanding. Lecture notes are also available in a web site. Students will be able to unload the WEB site and revise the topics during their leisure time

### Test

# test	Chapters	Date
1	1-4	To be announced
2	5-8	To be announced
3	9-12	To be announced
4 Final, Comprehens -ive	1-17 except 16	May 3 <sup>rd</sup> . 2012 Thursday 2:45-4:45pm

**Testing:** At least a week prior to test one, two and three, the date of the test will be announced. The lecture test will be equal to 80% ( 400 marks) of the course grade and the laboratory test 20% (100 marks). To determine your grade for the course, calculate the total marks you have obtained from the lecture portion and from the lab. portion of the course. Then divide the total marks by 500 and multiply by 100. This will give you the total marks you obtained as percentage. Your grade will depend on this percentage. There will be 4 lecture tests including the final. Each test will be of 100 marks. Each of the 4 lab tests will be of 25 marks (90% & above =A ; 80-89.9% =B; 70-79.9% =C ; 60-69.9% =D ; and below 60% is F )

If you miss a lecture test or a lab test with valid reason, you must inform me earlier or come and see me at your first opportunity to set up a time for the make-up test. **A student can get only one chance to appear the make-up test (one lecture and one lab) during the semester except under special circumstances.** In your make-up test , a maximum of 85% will be awarded to you even if you answer all the questions correctly. So, try to avoid make-up test as far as possible.

Each of the first three test will consists of 50 questions. The final will be comprehensive and will consist of 100 questions, 50 over old materials and 50 over untested materials. All regularly scheduled tests will contain multiple choice and/or true and false statements and / or short (structured) essay questions. Each of the tests will be worth 100 points. You will need to bring a number two pencil to the test as you will be using a computer graded form.

**Academic honesty:** Anyone caught cheating on a test will receive an automatic ‘F’ for the course. Please refer to the student Handbook for a detailed explanation on academic honesty.

**Class attendance and behavior:**

When I am lecturing, I expect students to behave themselves and maintain silence; however, your questions are encouraged. Students who will be found disrupting the class will be removed from the class and if necessary dropped from the course. You are now preparing for the future and successful completion of this course may determine your future job prospects and the programs that you are admitted to in other colleges. Class disruption is rude and inconsiderate of others who are trying to learn. Therefore, good behavior in class is expected as you are now an adult and you should behave as such.

Class attendance will be taken in each period. Students missing three consecutive lectures or consecutive labs without prior permission will receive ‘F’ for the course. If you are ill or have an emergency, exceptions will be made after proof of the illness or emergency is provided. It is your responsibility to attend classes regularly and get the notes and assignments

**Important dates**

First class day: Jan. 9. , 2012

Holidays in 2012

MLK Jr. Holiday Jan. 16

Midterm: Mar. 1. 2012, (last day to withdraw)

Spring break: Mar 12-16th

Last day of class: April 30, 2012

No one will be dropped after the last drop date unless there are extenuating circumstances beyond your control.

**Disabled students:** Students requiring classroom accommodations or modifications because of documented disabilities should discuss their needs with me at the beginning of the semester. Disabled students not registered with the access office, should contact the program officer in Nevins Hall ( Phone 245-2498) and register with them.

**Buckly Amendment or Privacy Act:** It is illegal to release **to** others personal information about an individual. Therefore, grades, averages and other personal information about an individual will not be released to any but that individual.

**General information; ( How to reach me )**

Office: Room 2033 (level 2)

Office phone: 333-7359

Email: [mfkarim@valdosta.edu](mailto:mfkarim@valdosta.edu) Generally I shall be available from 11am to 12noon on Tuesday and Thursday for consultation. Other times can be arranged by appointment.

**Biol 2651**  
**Human Anatomy & Physiology**  
**Sections A,B,C,D,E**  
**Spring 2012**  
**Room 2047**

**Instructor: Dr. M.F. Karim**  
**Office: 2033 (Inside Biology office)**  
**Tel: 333 7359**

**Laboratory Schedule**

<b>Date ( Week of )</b>	<b>Topic</b>
<b>Jan. 9</b>	<b>Microscope &amp; cell</b>
<b>Jan. 16</b>	<b>No lab this week (MLK Jr. Holiday)</b>
<b>Jan. 23</b>	<b>Tissues &amp; skin</b>
<b>Jan. 30</b>	<b>Tissues &amp; skin</b>
<b>Feb. 6</b>	<b>Lab practical 1</b>
<b>Feb. 13</b>	<b>Skeletal system</b>
<b>Feb. 20</b>	<b>Skeletal system</b>
<b>Feb. 27</b>	<b>Lab. Practical 2</b>
<b>Mar. 5</b>	<b>Muscular system</b>
<b>Mar. 12</b>	<b>No lab this week (Spring break)</b>
<b>Mar. 19</b>	<b>Muscular system</b>
<b>Mar. 26</b>	<b>Lab practical 3</b>
<b>Apr. 2</b>	<b>Sheep brain dissection</b>
<b>Apr. 9</b>	<b>Cow eye dissection</b>
<b>Apr. 16</b>	<b>Lab practical 4 (last test)</b>

**Good Luck and enjoy your semester**









**ANATOMY AND PHYSIOLOGY 1**  
**BIOL 2651 sections A,B,C,D &E**  
**Fall 2010**

**Lecture TR 12:30 to 1:45pm                      Room 3009 Level 3**  
**Laboratories, Room 2047 (level 2)**

**Section A Monday 9-10:50 am                      Section D Wednesday 2 – 3:50pm**  
**Section B Monday 2 – 3:50pm                      Section E Thursday 9:30 – 11:20am**  
**Section C Tuesday 9:30 – 11:20am**

**Instructor: Dr. M. F. Karim**

**Course objective:** To provide students with—

4. Basic knowledge of anatomy and physiology involving the human body.
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<b>Chapter</b>	<b>Topic</b>	<b>Pages and Notes</b>
<b>1</b>	<b>Introductrion</b>	4-19
<b>2</b>	<b>Chemistry</b>	This chapter mainly deals with the structure of atom, molecule, ions etc. Concept of acid, base is also dealt with along with pH of body fluid. Details of organic compounds are also discussed. Structure and function of DNA are also dealt with.
<b>3</b>	<b>Cellular biology</b>	60--101
<b>4</b>	<b>Tissues</b>	Histology of the tissues and skin will be covered in the lab.
<b>5</b>	<b>Integumentary sys.</b>	140-159 Main focus will be on Skin structure and functions
<b>6</b>	<b>Bone tissue</b>	162-184 Basic information on structure, blood supply
<b>7 &amp; 8</b>	<b>Skeletal system</b>	For most part, the bones of the skeletal system will be studied in the lab. Specific bones will be discussed in lecture. Questions may be asked on these specific bones
<b>9</b>	<b>Axial and Appendicular Joints</b>	244-272
<b>10</b>	<b>Muscle tissue</b>	Information about the type, structure and electrical properties of muscle tissues will be discussed here.
<b>11</b>	<b>Muscular system</b>	For most part, individual muscles will be studied in the lab. Specific muscles will be discussed in lecture.
<b>12</b>	<b>Nervous tissue</b>	Basic information, organization , neurons , RMP etc
<b>13-14</b>	<b>Spinal cord &amp; Spinal nerves</b>	440-472 & 474-523 basic information , Neurons, organization, RMP etc
<b>15.</b>	<b>Brain &amp; Cr.nerves</b>	Brain, spinal cord, spinal nerves & cranial nerves etc
<b>17.</b>	<b>ANS</b>	525-545 Sympathetic and parasympathetic systems
<b>17</b>	<b>Special senses</b>	575-613 some anatomy & physiology of special senses

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**Important dates**

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Holidays

MLK. Jr Jan. 18

Midterm: Mar. 4, (last day to withdraw)

Spring break: Mar. 15-19 (no class)

Last day of class: May 3, 2010

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Office: Room 1108 (level 1)

Office phone: 333-5335

Email: [mfkarim@valdosta.edu](mailto:mfkarim@valdosta.edu)

Generally I shall be available from 10am to 12noon on Tuesday and Friday for consultation. Other times can be arranged by appointment. Please do not call m

**Good luck and enjoy your semester**

**Please turn over**



**Biol 2651**  
**Human Anatomy & Physiology**  
**Sections A,B,C,D &E &F**  
**Spring 2010**  
**Room 2047 (level 2)**

Instructor: Dr. M.F. Karim  
Office: 1108  
Tel: 333 5335  
Laboratory Schedule

Date ( Week of )	Topic	Lab Chapter
Jan. 11	Microscope & cell	2,4
Jan. 18	No lab this week	
Jan. 25	Tissues & Skin	4
Feb. 1	Tissues & skin	
Feb. 8	Lab practical 1	
Feb. 15	Skeletal system	5
Feb. 22	Skeletal system	5
Mar. 1	Lab practical 2	
Mar. 8	Muscular system	6
Mar. 15	No lab this week (Spring break)	
Mar. 22	Muscular system	6
Mar. 29	Lab practical 3	
Apr. 5.	Dissection of sheep brain	7
Apr. 12	Dissection of Cow's Eye	8
Nov. 23	Lab practical 4 (Last test)	

**Good luck**

Spring 2010, BIOL 2651  
Instructor: Dr. M.F. Karim

Office: 1108  
Tel: 333 5335  
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Mar. 1	Lab practical 2	
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Mar. 22	Muscular system	6
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Apr. 5.	Dissection of sheep brain	7
Apr. 12	Dissection of Cow's Eye	8
Nov. 23	Lab practical 4 (Last test)	

**Good luck**



