

Welcome to
Human Anatomy & Physiology
BI 235 - Winter 2012

Introduction

Instructor:

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Office Hours:

M / T / W / R / F: 10:00 – 11:00 am

Lectures:

MWF: 9:00 – 9:50 am HWC 105

Labs:

No Lab = See Me! NS 006

- Anatomical examination of histology and body systems
 - Prepared slides; anatomical models; human cadavers
- Laboratories start Week 3

Required Text:

Anatomy and Physiology – Marieb and Hoehn (4th ed.)

Optional Text:

A Photographic Atlas for Anatomy & Physiology Lab

Introduction

Grading:

Exam 1 (27 Jan)	75
Exam 2 (13 Feb)	75
Exam 3 (2 Mar)	75
Final (19 Mar)	125
Laboratory	<u>150</u>
	500

Testing Format:

Multiple choice
True/False
Matching (w/ Diagrams)
Fill-in-the-blank / Short answer

Grading Scale (approximate):

100 - 90% = A	65 - 55% = D
90 - 80% = B	< 55% = F
80 - 65% = C	


* Curve may be utilized at end if average falls below 73%

Introduction


Web Site: <http://www.wou.edu/~lemastm/Teaching/BI235>


How to get the most out of BI 235:

- 1) Come to class
- 2) Read the book before lecture
- 3) Do your best in lab (It's 30% of your grade!)
- 4) Seek understanding of concepts.
 - talk to your professor
 - visit the tutoring center
 - start a study group
- 5) Stay Healthy!
- 6) Apply what you learn!






=
1 Hour



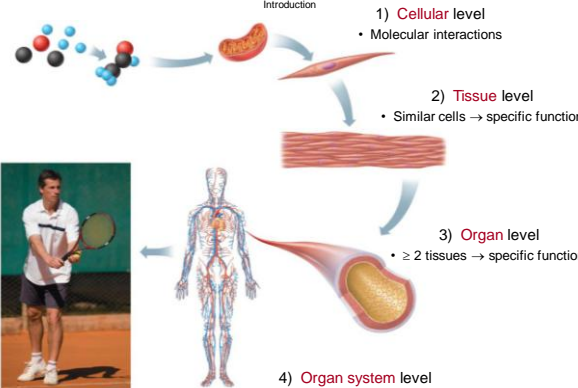


The Warning:

If you take any medicines that have nitrates in them (e.g., nitroglycerin for chest pain), you should NOT take VIAGRA.

Introduction

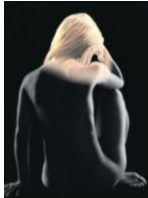


- 1) **Cellular level**
 - Molecular interactions
- 2) **Tissue level**
 - Similar cells → specific function
- 3) **Organ level**
 - ≥ 2 tissues → specific function
- 4) **Organ system level**
 - ≥ 2 organs → specific function
- 5) **Organism level**
 - Organ systems = life

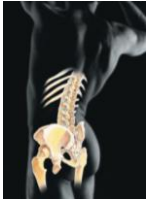
Marieb & Hoehn - Figure 1.1

Introduction


Organ Systems:
(BI 234)




Integumentary System



Skeletal System



Muscular System

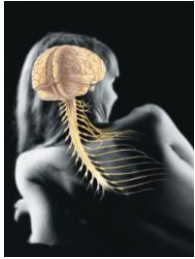


Immune System

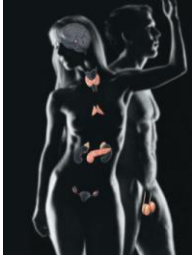
Marieb & Hoehn - Figure 1.3

Introduction


Organ Systems:
(BI 235)



Nervous System



Endocrine System




Cardiovascular System

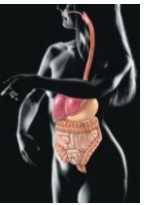
Marieb & Hoehn – Figure 1.3

Introduction

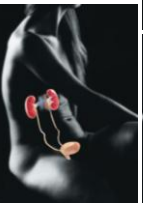
Organ Systems:
(BI 236)



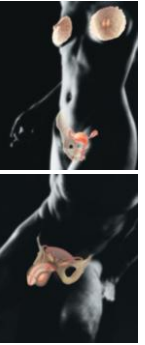
Respiratory System



Digestive System



Urinary System



Reproductive System

Marieb & Hoehn – Figure 1.3

Introduction

Regulatory System Function:

For life to continue, precise internal body conditions must be maintained regardless of external conditions

The principle function of regulatory systems is to maintain **homeostasis**

Homeostasis: The process of maintaining a relatively stable internal environment (Cannon – early 20th century)

- Not a static process (dynamic equilibrium)
- Requires energy (unlike a true equilibrium state)
- Conditions maintained via **feedback systems**

