

Department of Integrative Biology & OSU Extended Campus

HUMAN A&P: COLLABORATIVE OER ADOPTION



60%+ do not purchase textbooks at some point due to cost



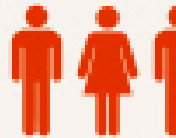
35% take fewer courses due to textbook cost



31% choose not to register for a course due to textbook cost



23% regularly go without textbooks due to cost



14% have dropped a course due to textbook cost



10% have withdrawn from a course due to textbook cost



Source: 2012 student survey by Florida Virtual Campus

The Cost of Textbooks

\$278

Retail price of publisher-based A&P textbook with supplementary online materials

\$185

Negotiated price of same publisher-based A&P textbook for large enrollment OSU course

\$1,551

Estimated annual cost of books and supplies for OSU students¹


\$100,000

Estimated annual expense to OSU BI23X that will be saved by transitioning to OER textbook

Anat- omy

and

Physi- ology





**Portland
Community
College**



**Clackamas
Community College**



**Oregon State
University**

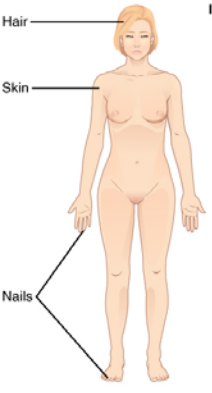


**Western Oregon
UNIVERSITY**



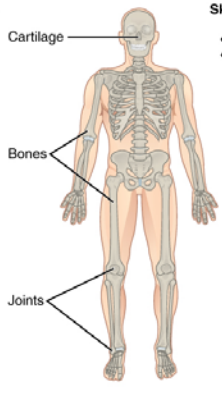
UNIVERSITY OF
OREGON

 **Lane
Community CollegeSM**



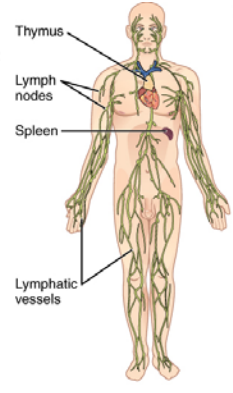
Integumentary System

- Encloses internal body structures
- Site of many sensory receptors



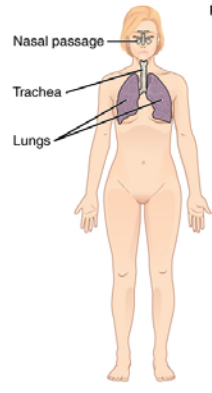
Skeletal System

- Supports the body
- Enables movement (with muscular system)



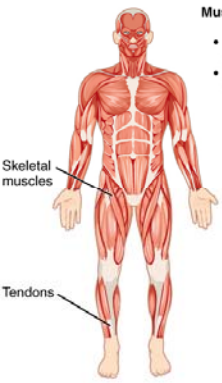
Lymphatic System

- Returns fluid to blood
- Defends against pathogens



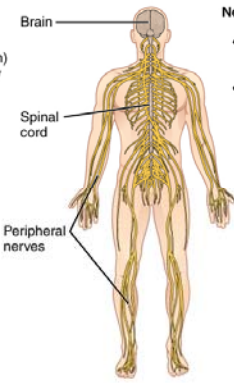
Respiratory System

- Removes carbon dioxide from the body
- Delivers oxygen to blood



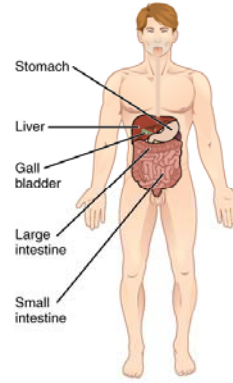
Muscular System

- Enables movement (with skeletal system)
- Helps maintain body temperature



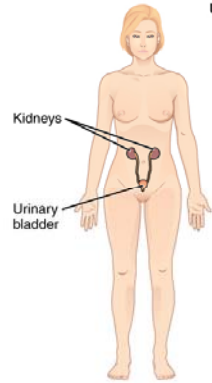
Nervous System

- Detects and processes sensory information
- Activates bodily responses



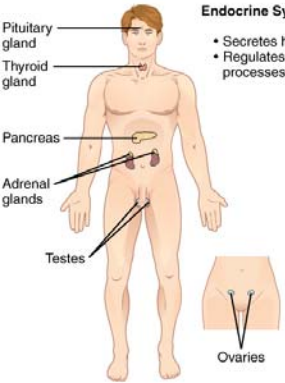
Digestive System

- Processes food for use by the body
- Removes wastes from undigested food



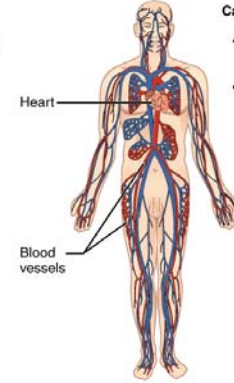
Urinary System

- Controls water balance in the body
- Removes wastes from blood and excretes them



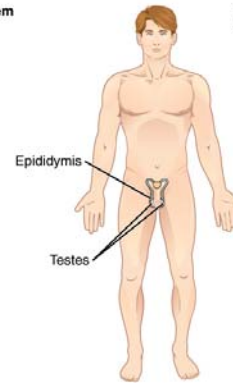
Endocrine System

- Secretes hormones
- Regulates bodily processes



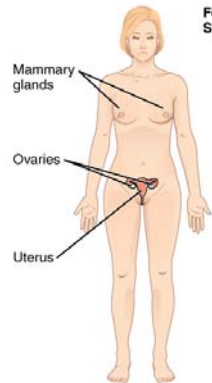
Cardiovascular System

- Delivers oxygen and nutrients to tissues
- Equalizes temperature in the body



Male Reproductive System

- Produces sex hormones and gametes
- Delivers gametes to female



Female Reproductive System

- Produces sex hormones and gametes
- Supports embryo/fetus until birth
- Produces milk for infant



- Integumentary system**
- Protects underlying tissues
 - Provides skin sensation
 - Helps regulate body temperature
 - Synthesizes vitamin D



- Skeletal system**
- Attachment for muscles
 - Protects organs
 - Stores calcium and phosphorus
 - Produces blood cells



- Muscular system**
- Moves body and maintains posture
 - Internal transport of fluids
 - Generation of heat



- Nervous system**
- Regulates and integrates body functions via neurons



- Endocrine system**
- Regulates and integrates body functions via hormones



- Cardiovascular system**
- Transports nutrients, respiratory gases, wastes, and heat
 - Transports immune cells and antibodies
 - Transports hormones
 - Regulates pH



- Lymphatic system**
- Returns tissue fluids to bloodstream
 - Protects against infection and disease



- Respiratory system**
- Exchanges respiratory gases with the environment



- Digestive system**
- Physical and chemical breakdown of food
 - Absorbs, processes, stores food

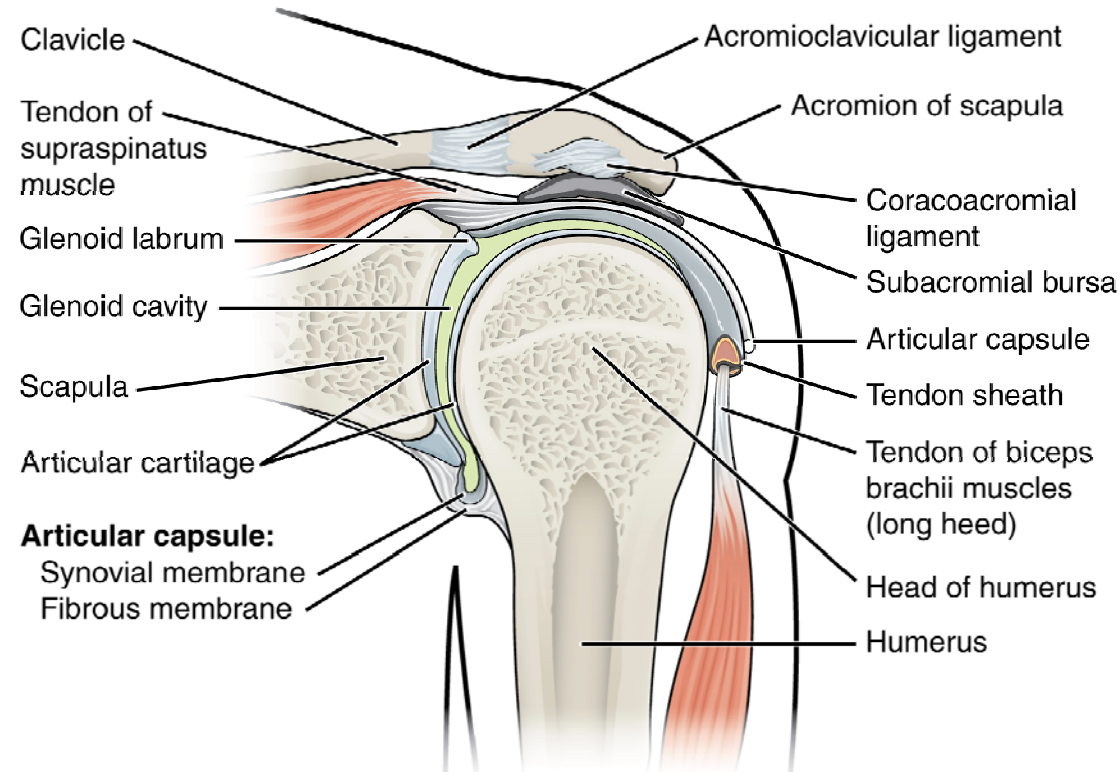
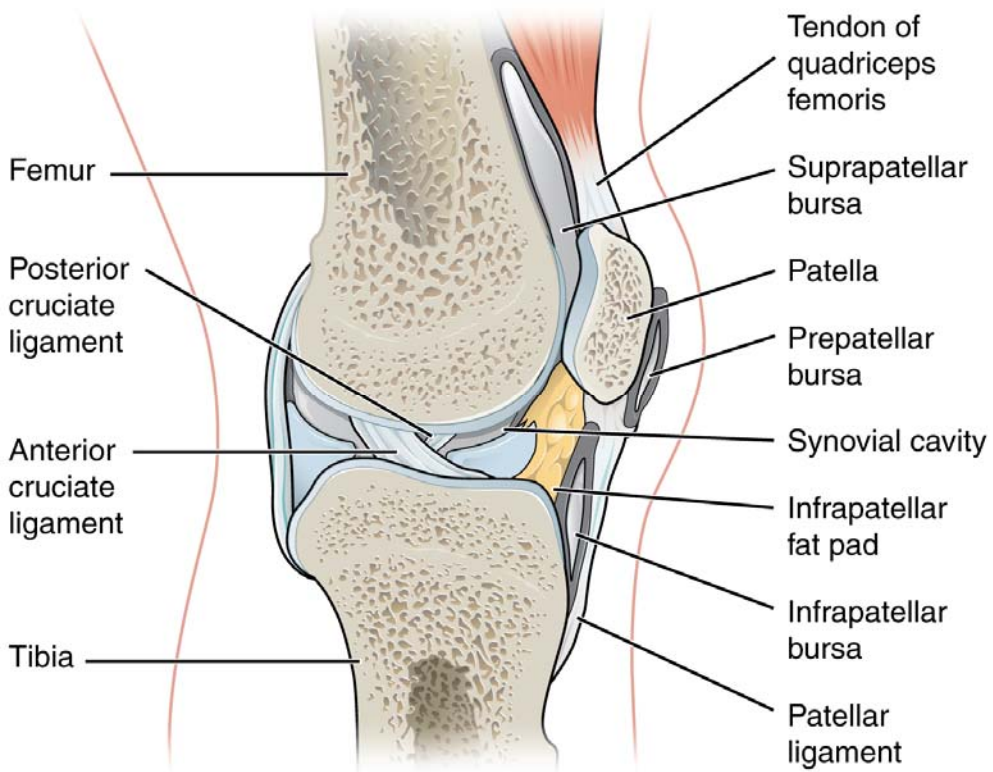


- Urinary system**
- Maintains constant internal environment through the excretion of nitrogenous waste



- Reproductive system**
- Produces and secretes hormones
 - Produces and releases egg and sperm cells
 - Houses embryo/fetus: (females only)
 - Produces milk to nourish offspring (females only)





Chapter Framing

Ch. 27 The Reproductive System

27.1 A&P of the Male
Reproductive System

27.2 A&P of the Female
Reproductive System

27.3 Development of the Male
and Female Reproductive
Systems

Ch. 27 The Sexual Systems

27.1 Development of the
Female and Male Sexual
Systems

27.2 A&P of the Female Sexual
System

27.3 A&P of the Male Sexual
System

27.4 Physiology of the Sexual
Act

Special thanks: Book Sprint Team

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