

Des Moines Area Community College

Course Information – EFFECTIVE Aug. 2006

Acronym/Number BIO 733 Historical Ref [BIOL 133](#)

Title Health Science Anatomy

Credit breakout	<u>3</u>	<u>2</u>	<u>2</u>	<u>0</u>	<u>0</u>
	(credit	lecture	lab	practicum	work experience)

PREREQUISITE(S): H.S. biology or equivalent.

COURSE DESCRIPTION:

Offers the student basic concepts in human anatomical structure with relation to body functions. The course covers all major body systems with emphasis on structure. The accompanying lab will reinforce lecture with cat dissection.

COURSE COMPETENCIES:

During this course, the student will be expected to:

1. Comply with safety and health rules.
 - 1.1 Explain appropriate safety procedures for the laboratory.
 - 1.2 Demonstrate appropriate safety procedures for the laboratory.
 - 1.3 Identify the locations of safety equipment in the laboratory room.
2. Demonstrate laboratory skills.
 - 2.1 Distinguish among laboratory supplies.
 - 2.2 Show competence in the use of laboratory equipment.
 - 2.3 Use the metric system.
 - 2.4 Demonstrate respect for and care of laboratory equipment.
3. Use laboratory microscopes.
 - 3.1 Identify major parts of the microscope.
 - 3.2 Demonstrate proper technique in the use of a microscope.
 - 3.3 Demonstrate proper care of the microscope.
4. Demonstrate dissection techniques.
5. Identify anatomical topography.
 - 5.1 Demonstrate anatomical position.
 - 5.2 Identify planes used to study the body and its parts.
 - 5.3 Identify directional anatomical terminology.
 - 5.4 Identify regional anatomical terminology.
 - 5.5 Identify body cavities and membranes and linings.
6. Identify levels of structural organization of the human body.

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7. Identify components of body support and movement systems.
 - 7.1 Point out the structures of the integumentary system.
 - 7.2 Identify the structures of the skeleton.
 - 7.3 Identify and compare the types of joints.
 - 7.4 Identify muscles and muscle tissue.
 - 7.5 Compare structural interactions among levels of organization in the body.
 - 7.6 Identify the structures of the autonomic nervous system.
 - 7.7 Identify the structures of the special senses.
 - 7.8 Identify the structures of the endocrine system.

8. Identify the structures of the body control systems.
 - 8.1 Identify the structure of the nervous tissue.
 - 8.2 Identify the structures of the nervous system.
 - 8.3 Identify the structures of the central nervous system.
 - 8.4 Identify the structures of the peripheral nervous system.
 - 8.5 Identify the structures of the reflex arc.
 - 8.6 Identify the structures of the autonomic nervous system.
 - 8.7 Identify the structures of the special senses.
 - 8.8 Identify the structures of the endocrine system.

9. Identify the components of the body maintenance systems.
 - 9.1 Identify components of blood.
 - 9.2 Identify the structures of the heart.
 - 9.3 Identify blood vessels and their structure.
 - 9.4 Identify the structures of the lymphatic system.
 - 9.5 Identify the structures of the respiratory system.
 - 9.6 Identify the structures of the urinary system.
 - 9.7 Identify the structures of the digestive system.

10. Identify the structures involved in the continuity of human life.
 - 10.1 Identify the structures of the female reproductive system.
 - 10.2 Identify the structures of the male reproductive system.

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COMPETENCIES REVIEWED AND APPROVED BY: **Mary Beth Hanlin**

DATE: _____

FACULTY:

1. **David Vanderlinden**
2. **Jane Bradley**
3. **Qian Moss**
4. **Donald Glassman**
5. **Marcia Walton**
6. **Bill T.**

Effective date: May, 2007

by: Eli Hemenway

Campus: A B C U N W OC

extension: 248-7228

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