



BROWARD COMMUNITY COLLEGE COURSE OUTLINE

LAST REVIEW: 2008-2009 **NEXT REVIEW:** 2013-2014 **STATUS:** A
(i.e. 2003-2004) *(i.e. 2008-2009)* *(A, I, D)*

COURSE TITLE: Anatomy and Physiology for Medical Assisting

COMMON COURSE NUMBER: MEA 1233

CREDIT HOURS: 3

CONTACT HOUR BREAKDOWN

(per 16 week term)

CLOCK HOURS:
(Voc. Course ONLY)

Lecture: **48** Lab:
 Clinic: Other:

PREREQISITE(S):

COREQUISITE(S): HSC 1531

PRE/COREQUISITE(S):

COURSE DESCRIPTION: A basic anatomy & physiology course designed to provide instruction on human body structure, function, and associated pathology.

General Education Requirements – Associate of Arts Degree (AA), meets Area(s): Area
 General Education Requirements – Associate in Science Degree (AS), meets Area(s): Area
 General Education Requirements – Associate in Applied Science Degree (AAS), meets Area(s): Area

UNIT TITLES

- | | |
|--|----------------------------------|
| 1. Organization & General Plan of the Body | 7. Nervous System & the Senses |
| 2. Skeletal System | 8. Cardiovascular System & Blood |
| 3. Muscular System | 9. Respiratory System |
| 4. Integumentary System | 10. Gastrointestinal System |
| 5. Endocrine System | 11. Urinary System |
| 6. Lymphatic System & Immunity | 12. Reproductive System |



BROWARD COMMUNITY COLLEGE COURSE OUTLINE

EVALUATION:

Please provide a brief description (250 characters maximum) that details how students will be assessed on the course outcomes.

Assessment includes examinations, assignments, & online posts.

**** Complete the following only if course is seeking general education status ****

GENERAL EDUCATION Competencies and Skills*:

Please highlight in green font all Competencies/Skills from the list below that apply to this course. In the box to the right of the Competency/Skill, enter all specific learning outcome numbers (i.e. 1.1, 2.7, 5.12) that apply.

1. Read with critical comprehension	
2. Speak and listen effectively	
3. Speak and listen effectively	
4. Think creatively, logically, critically, and reflectively (analyze, synthesize, apply, and evaluate)	
5. Demonstrate and apply literacy in its various forms: (highlight in green ALL that apply) (1. technological, 2. informational, 3. mathematical, 4. scientific, 5. cultural, 6. historical, 7. aesthetic and/or 8. environmental)	
6. Apply problem solving techniques to real-world experiences	
7. Apply methods of scientific inquiry	
8. Demonstrate an understanding of the physical and biological environment and how it is impacted by human beings	
9. Demonstrate an understanding of and appreciation for human diversities and commonalities	
10. Collaborate with others to achieve common goals.	
11. Research, synthesize and produce original work	
12. Practice ethical behavior	
13. Demonstrate self-direction and self motivation	
14. Assume responsibility for and understand the impact of personal behaviors on self and society	
15. Contribute to the welfare of the community	

**General Education Competencies and Skills endorsed by '05-'06 General Education Task Force*



Common Course Number: MEA 1233

UNITS

Unit 1 Organization & General Plan of the Body

General Outcome:

1.0 The student shall be able to describe the anatomic and physiologic organization of the body using appropriate terminology.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 1.1** Define medical terminology used in the study of anatomy & physiology.
- 1.2** Describe the process of homeostasis.
- 1.3** Identify & describe the anatomical divisions & planes of the body.
- 1.4** Identify the parts of a cell & discuss organelle functions.
- 1.5** Describe the process of cellular mitosis.
- 1.6** Differentiate between bacteria, viruses, fungi, & protozoa.
- 1.7** Explain the relationship between cells, tissues, organs, & body systems.
- 1.8** List & describe the body tissue types.
- 1.9** List & describe the main functions of the body systems.



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UNITS

Unit 2 Skeletal System

General Outcome:

2.0 The student shall be able to describe the skeletal system, its related functions, and associated pathologies.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 2.1** Describe the structure of bone.
- 2.2** Explain the functions of the skeletal system.
- 2.3** Identify & locate various bones.
- 2.4** Differentiate between bone, cartilage, ligaments, & tendons.
- 2.5** Describe the various types of joints & their associated movements.
- 2.6** Discuss common diseases & disorders of the skeletal system.



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UNITS

Unit 3 Muscular System

General Outcome:

3.0 The student shall be able to describe the muscular system, its related functions, and associated pathologies.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 3.1** Describe the structure of muscle.
- 3.2** Explain the functions of the muscular system.
- 3.3** Identify & locate various muscles, tendons, & ligaments.
- 3.4** Identify various muscle types & movements.
- 3.5** Describe chemical activities required for muscle movement.
- 3.6** Discuss common diseases & disorders of the muscular system.



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UNITS

Unit 4 Integumentary System

General Outcome:

4.0 The student shall be able to describe the integumentary system, its related functions, and associated pathologies.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 4.1** Describe the structure of skin.
- 4.2** Explain the functions of the integumentary system.
- 4.3** Identify & locate various skin structures.
- 4.4** Describe growth of hair & nails.
- 4.5** Explain how the body regulates temperature through the skin.
- 4.6** Discuss common diseases & disorders of the integumentary system.



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UNITS

Unit 5 Endocrine System

General Outcome:

5.0 The student shall be able to describe the endocrine system, its related functions, and associated pathologies.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 5.1** Describe the structure of endocrine organs & glands.
- 5.2** Explain the functions of the endocrine system.
- 5.3** Identify & locate various endocrine organs & glands.
- 5.4** Describe the purpose & effects of hormones.
- 5.5** Discuss common diseases & disorders of the endocrine system.



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UNITS

Unit 6 Lymphatic System & Immunity

General Outcome:

6.0 The student shall be able to describe the lymphatic system, its related functions, and associated pathologies.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 6.1** Describe the structure of lymphatic tissue.
- 6.2** Explain the functions of the lymphatic system.
- 6.3** Identify & locate lymph vessels, glands, organs, nodes & nodules.
- 6.4** Describe the role of blood cells in immunity.
- 6.5** Compare & contrast the different types of immunity.
- 6.6** Discuss common diseases & disorders of the lymphatic system.



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UNITS

Unit 7 Nervous System & the Senses

General Outcome:

7.0 The student shall be able to describe the nervous system, its related functions, and associated pathologies.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 7.1** Describe the structure of nerves & nerve tissue.
- 7.2** Explain the functions of the nervous system.
- 7.3** Identify & locate components of the nervous system.
- 7.4** Differentiate between the central & peripheral nervous systems.
- 7.5** Describe the structure & functions of the eye & ear.
- 7.6** Explain the processes of taste, smell, & touch.
- 7.7** Discuss common diseases & disorders of the nervous system, eyes, & ears.



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UNITS

Unit 8 Cardiovascular System & Blood

General Outcome:

8.0 The student shall be able to describe the cardiovascular system, and blood, their related functions, and associated pathologies.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 8.1** Describe the structure of the heart & blood vessels.
- 8.2** Explain the functions of the cardiovascular system.
- 8.3** Identify & locate components of the cardiovascular system.
- 8.4** List the major components of blood & its associated functions.
- 8.5** Discuss the methods & importance of blood typing.
- 8.6** Explain the process of blood clotting.
- 8.7** Discuss common diseases & disorders of the cardiovascular system & blood.



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UNITS

Unit 9 Respiratory System

General Outcome:

9.0 The student shall be able to describe the respiratory system, its related functions, and associated pathologies.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 9.1** Describe the structure of the lungs & associated respiratory structures.
- 9.2** Explain the functions of the respiratory system.
- 9.3** Identify & locate components of the respiratory system.
- 9.4** Differentiate between respiration & ventilation.
- 9.5** Discuss common diseases & disorders of the respiratory system.



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UNITS

Unit 10 Gastrointestinal System

General Outcome:

10.0 The student shall be able to describe the gastrointestinal system, its related functions, and associated pathologies.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 10.1** Describe the structure of the organs of the gastrointestinal system.
- 10.2** Explain the functions of the gastrointestinal system.
- 10.3** Identify & locate components of the gastrointestinal system.
- 10.4** Differentiate between the various types of digestion.
- 10.5** Describe the movement of food/liquid through the gastrointestinal tract.
- 10.6** Discuss common diseases & disorders of the gastrointestinal system.



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UNITS

Unit 11 Urinary System

General Outcome:

11.0 The student shall be able to describe the urinary system, its related functions, and associated pathologies.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 11.1** Describe the structure of the organs of the urinary system.
- 11.2** Explain the functions of the urinary system.
- 11.3** Identify & locate components of the urinary system.
- 11.4** Describe the components & characteristics of urine.
- 11.5** Discuss common diseases & disorders of the urinary system.



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UNITS

Unit 12 Reproductive System

General Outcome:

12.0 The student shall be able to describe the reproductive system, its related functions, and associated pathologies.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 12.1** Describe the structure of the organs of the male & female reproductive systems.
- 12.2** Explain the functions of the male & female reproductive systems.
- 12.3** Identify & locate components of the male & female reproductive systems.
- 12.4** Differentiate between mitosis & meiosis.
- 12.5** Describe the phases of the menstrual cycle.
- 12.6** Describe the stages of labor & delivery.
- 12.7** Discuss common diseases & disorders of the male & female reproductive systems.