



Western Technical College

31509302 Human Body in Health and Disease

Course Outcome Summary

Course Information

Description	Focuses on diseases that are frequently first diagnosed and treated in the medical office setting. Students learn to recognize human body anatomy and the causes, signs, and symptoms of diseases of the major body systems as well as the diagnostic procedures, usual treatment, prognosis and prevention of common diseases.
Career Cluster	Health Science
Instructional Level	Technical Diploma Courses
Total Credits	3
Total Hours	108

Pre/Corequisites

Pre/Corequisite 10501101 Medical Terminology

Textbooks

Today's Medical Assistant: Clinical and Administrative Procedures. 4th Edition. Copyright 2020. Bonewit-West, Kathy, Sue Hunt, and Edith Applegate. Publisher: Elsevier Science. **ISBN-13:** 978-0-323-58127-1. Required. (Part of Western Bundle Package **ISBN-13:** 978-0-323-79964-5.)

Today's Medical Assistant: Clinical and Administrative Procedures – Study Guide. 4th Edition. Copyright 2020. Bonewit-West, Kathy, Sue Hunt, and Edith Applegate. Publisher: Elsevier Science. **ISBN-13:** 978-0-323-63986-6. Required. (Part of Western Bundle Package **ISBN-13:** 978-0-323-79964-5.)

Evolve Resources with TEACH IRM for Today's Medical Assistant. 4th Edition. Copyright 2020. Bonewit-West, Kathy, Sue Hunt, and Edith Applegate. Publisher: Elsevier Science. **ISBN-13:** 978-0-323-63985-9. Required. (Part of Western Bundle Package **ISBN-13:** 978-0-323-79964-5.)

SimChart for the Medical Office – Access. Copyright 2014. Publisher: Elsevier Science. **ISBN-13:** 978-0-323-24195-3. Required.

Learner Supplies

Safety Glasses. **Vendor:** Bookstore <https://westerntc.ecampus.com/>. Required.

Lab Coat. **Vendor:** Bookstore <https://westerntc.ecampus.com/>. Required.

Uniform (black top and pants). **Vendor:** To be discussed in class. Required.

White or Black Shoes. **Vendor:** To be discussed in class. Required.

Success Abilities

1. Refine Professionalism: Improve Critical Thinking

Program Outcomes

1. Provide patient care in accordance with regulations, policies, laws, and patient rights

Course Competencies

1. Apply medical terminology to the disease process in the human body

Assessment Strategies

- 1.1. in a classroom setting
- 1.2. in a written exam
- 1.3. in an analysis (Format may be written, oral, graphic, or three-dimensional model)

Criteria

Your performance will be successful when:

- 1.1. analysis identifies the key points
- 1.2. analysis evidences correct use of medical terminology
- 1.3. you use visual aids as needed to explain concepts
- 1.4. you diagram medical terms, labeling the word parts
- 1.5. you define both medical terms and abbreviations related to all body systems

Learning Objectives

- 1.a. Linked external target standards are the learning objectives.

2. Explore the structural organization of the human body

Assessment Strategies

- 2.1. in an analysis (Format may be written, oral, graphic, or three-dimensional model.)
- 2.2. in a written exam

Criteria

Your performance will be successful when:

- 2.1. you describe structural organization of the human body

- 2.2. you identify body systems
- 2.3. you describe body planes, directional terms, quadrants, and body cavities
- 2.4. you discuss implications for disease and disability when homeostasis is not maintained

Learning Objectives

- 2.a. Linked external target standards are the learning objectives.

3. Analyze the causes, signs and symptoms, diagnosis, treatment, and prevention of diseases and disorders of the digestive system

Assessment Strategies

- 3.1. in an analysis (Format may be written, oral, graphic, or three-dimensional model.)
- 3.2. in a written exam

Criteria

Your performance will be successful when:

- 3.1. you list major organs in the digestive system
- 3.2. you describe the normal function of the digestive system
- 3.3. you identify common pathology related to the digestive system
- 3.4. you analyze digestive system pathology as it relates to the interaction of body systems
- 3.5. you describe implications for treatment related to pathology
- 3.6. you compare body structure and function of the digestive system across the life span
- 3.7. you define both medical terms and abbreviations related to the digestive system

Learning Objectives

- 3.a. Linked external target standards are the learning objectives.

4. Analyze the causes, signs and symptoms, diagnosis, treatment, and prevention of common diseases and disorders of the urinary system

Assessment Strategies

- 4.1. in an analysis (Format may be written, oral, graphic, or three-dimensional model.)
- 4.2. in a written exam

Criteria

Your performance will be successful when:

- 4.1. you list major organs in the urinary system
- 4.2. you describe the normal function of the urinary system
- 4.3. you identify common pathology related to the urinary system
- 4.4. you analyze urinary system pathology as it relates to the interaction of body systems
- 4.5. you describe implications for treatment related to pathology
- 4.6. you compare body structure and function of the urinary system across the life span
- 4.7. you define both medical terms and abbreviations related to the urinary system

Learning Objectives

- 4.a. Linked external target standards are the learning objectives.

5. Analyze the causes, signs and symptoms, diagnosis, treatment, and prevention of common diseases and disorders of the reproductive system

Assessment Strategies

- 5.1. in an analysis (Format may be written, oral, graphic, or three-dimensional model.)
- 5.2. in a written exam

Criteria

Your performance will be successful when:

- 5.1. you list major organs in the reproductive system
- 5.2. you describe the normal function of the reproductive system
- 5.3. you identify common pathology related to the reproductive system
- 5.4. you analyze reproductive system pathology as it relates to the interaction of body systems
- 5.5. you describe implications for treatment related to pathology
- 5.6. you compare body structure and function of the reproductive system across the life span

5.7. you define both medical terms and abbreviations related to the reproductive system

Learning Objectives

5.a. Linked external target standards are the learning objectives.

6. Analyze the causes, signs and symptoms, diagnosis, treatment, and prevention of common diseases and disorders of the nervous system and mental health

Assessment Strategies

6.1. in an analysis (Format may be written, oral, graphic, or three-dimensional model.)

6.2. in a written exam

Criteria

Your performance will be successful when:

6.1. you list major organs in the nervous system

6.2. you describe the normal function of the nervous system

6.3. you identify common pathology related to the nervous system and mental health

6.4. you analyze nervous system and mental health pathology as it relates to the interaction of body systems system

6.5. you describe implications for treatment related to pathology

6.6. you compare body structure and function of the nervous system across the life span

6.7. you define both medical terms and abbreviations related to the nervous system and mental health

Learning Objectives

6.a. Linked external target standards are the learning objectives.

7. Analyze the causes, signs and symptoms, diagnosis, treatment, and prevention of common diseases and disorders of the cardiovascular system

Assessment Strategies

7.1. in an analysis (Format may be written, oral, graphic, or three-dimensional model.)

7.2. in a written exam

Criteria

Your performance will be successful when:

7.1. you list major organs in the cardiovascular system

7.2. you describe the normal function of the cardiovascular system

7.3. you identify common pathology related to the cardiovascular system

7.4. you analyze cardiovascular system pathology as it relates to the interaction of body systems

7.5. you describe implications for treatment related to pathology

7.6. you compare body structure and function of the cardiovascular system across the life span

7.7. you define both medical terms and abbreviations related to the cardiovascular system

Learning Objectives

7.a. Linked external target standards are the learning objectives.

8. Analyze the causes, signs and symptoms, diagnosis, treatment, and prevention of common diseases and disorders of the respiratory system

Assessment Strategies

8.1. in an analysis (Format may be written, oral, graphic, or three-dimensional model.)

8.2. in a written exam

Criteria

Your performance will be successful when:

8.1. you list major organs in the respiratory system

8.2. you describe the normal function of the respiratory system

8.3. you identify common pathology related to the respiratory system

8.4. you analyze respiratory system pathology as it relates to the interaction of body systems

8.5. you describe implications for treatment related to pathology

8.6. you compare body structure and function of the respiratory system across the life span

8.7. you define both medical terms and abbreviations related to the respiratory system

Learning Objectives

8.a. Linked external target standards are the learning objectives.

9. Analyze the causes, signs and symptoms, diagnosis, treatment, and prevention of common diseases and disorders of the blood, lymph, and immune system

Assessment Strategies

9.1. in an analysis (Format may be written, oral, graphic, or three-dimensional model.)

9.2. in a written exam

Criteria

Your performance will be successful when:

9.1. you list major organs in the blood, lymph, and immune system

9.2. you describe the normal function of the blood, lymph, and immune system

9.3. you identify common pathology related to the blood, lymph, and immune system

9.4. you analyze blood, lymph, and immune system pathology as it relates to the interaction of body systems

9.5. you describe implications for treatment related to pathology

9.6. you compare body structure and function of the blood, lymph, and immune systems across the life span

9.7. you define both medical terms and abbreviations related to the blood, lymph, and immune system

Learning Objectives

9.a. Linked external target standards are the learning objectives.

10. Analyze the causes, signs and symptoms, diagnosis, treatment, and prevention of common diseases and disorders of the musculoskeletal system

Assessment Strategies

10.1. in an analysis (Format may be written, oral, graphic, or three-dimensional model.)

10.2. in a written exam

Criteria

Your performance will be successful when:

10.1. you list major organs in the musculoskeletal system

10.2. you describe the normal function of the musculoskeletal system

10.3. you identify common pathology related to the musculoskeletal system

10.4. you analyze musculoskeletal system pathology as it relates to the interaction of body systems

10.5. you describe implications for treatment related to pathology

10.6. you compare body structure and function of the musculoskeletal system across the life span

10.7. you define both medical terms and abbreviations related to the musculoskeletal system

Learning Objectives

10.a. Linked external target standards are the learning objectives.

11. Analyze the causes, signs and symptoms, diagnosis, treatment, and prevention of common diseases and disorders of the integumentary system.

Assessment Strategies

11.1. in an analysis (Format may be written, oral, graphic, or three-dimensional model.)

11.2. in a written exam

Criteria

Your performance will be successful when:

11.1. you list major organs in the integumentary system

11.2. you describe the normal function of the integumentary system

11.3. you identify common pathology related to the integumentary system

11.4. you analyze integumentary system pathology as it relates to the interaction of body systems

11.5. you describe implications for treatment related to pathology

11.6. you compare body structure and function of the integumentary system across the life span

11.7. you define both medical terms and abbreviations related to the integumentary system

Learning Objectives

11.a. Linked external target standards are the learning objectives.

12. Analyze the causes, signs and symptoms, diagnosis, treatment, and prevention of common diseases and disorders of the special senses

Assessment Strategies

- 12.1. in an analysis (Format may be written, oral, graphic, or three-dimensional model.)
- 12.2. in a written exam

Criteria

Your performance will be successful when:

- 12.1. you list major organs in the special senses
- 12.2. you describe the normal function of the special senses
- 12.3. you identify common pathology related to the special senses
- 12.4. you analyze special senses pathology as it relates to the interaction of body systems
- 12.5. you describe implications for treatment related to pathology
- 12.6. you compare body structure and function of the special senses across the life span
- 12.7. you define both medical terms and abbreviations related to the special senses

Learning Objectives

- 12.a. Linked external target standards are the learning objectives.

13. Analyze the causes, signs and symptoms, diagnosis, treatment, and prevention of common diseases and disorders of the endocrine system

Assessment Strategies

- 13.1. in an analysis (Format may be written, oral, graphic, or three-dimensional model.)
- 13.2. in a written exam

Criteria

Your performance will be successful when:

- 13.1. you list major organs in the endocrine system
- 13.2. you describe the normal function of the endocrine system
- 13.3. you identify common pathology related to the endocrine system
- 13.4. you analyze endocrine system pathology as it relates to the interaction of body systems
- 13.5. you describe implications for treatment related to pathology
- 13.6. you compare body structure and function of the endocrine system across the life span
- 13.7. you define both medical terms and abbreviations related to the endocrine system

Learning Objectives

- 13.a. Linked external target standards are the learning objectives.