MINNESOTA WEST COMMUNITY AND TECHNICAL COLLEGE
COURSE OUTLINE

DEPARTMENT: ADSM
COURSE NUMBER: 1110
COURSE TITLE: Anatomy & Physiology/Disease Conditions I
CATALOG DESCRIPTION: This is an introduction to human anatomy and systems with emphasis on terminology, abbreviations, and diagnostic tests for the human body through study of diseases by anatomical systems. The emphasis is on terminology, abbreviations, and symptomatic, diagnostic and operative terms.

AUDIENCE: Medical administrative secretary and medical secretary students, students considering such a career, or anyone wishing to update or enhance their knowledge of human anatomy and physiology.

FULFILLS MN TRANSFER CURRICULUM AREA(S): does not apply
PREREQUISITES OR NECESSARY ENTRY SKILLS/KNOWLEDGE: none
LENGTH OF COURSE: 2 hours per week for 16 weeks

THIS COURSE IS USUALLY OFFERED:
Every Other year □ Fall X Spring □ Summer □ undetermined □

Four goals are emphasized in courses at Minnesota West Community and Technical College:

1. ACADEMIC CONTENT: The student will develop a basic understanding of the structure and function and disease conditions of five of the body systems. The remaining systems are covered in the course: ADSM1115 - Anatomy & Physiology/Disease Conditions II.

2. THINKING SKILLS: The student will understand disease processes affecting each of the body systems studied by applying knowledge of the anatomy/physiology of each system.
3. **COMMUNICATIONS SKILLS**: The student will participate in learning basic anatomy/physiology and disease conditions by collaborating with the instructor and other students.

4. **HUMAN DIVERSITY**: The student will appreciate the individual differences of human anatomy and physiology as well as genetic and lifestyle differences which may contribute to disease conditions.

**TOPICS TO BE COVERED**: Human body organization; the basic chemistry of living matter; the structure and function of cells, tissues, glands and membranes; basic principles of disease and disease-producing organisms; body immunity, defenses and vaccines; the anatomy, physiology and common disease conditions of the following body systems: integumentary, musculoskeletal, neurological, sensory and endocrine; terminology, abbreviations and diagnostic tests as they apply to the above topics.

**LIST OF EXPECTED COURSE OUTCOMES:**

1. Explain human body organization.
2. Describe the chemistry of living matter.
3. Describe human cell structure and function.
4. Describe classifications of tissues, glands and membranes.
5. Identify the structures of each of the following body systems: integumentary, musculoskeletal, neurological, sensory, endocrine, circulatory, lymphatic, respiratory, digestive, urinary and reproductive.
6. Identify the functions of each of the following body systems: integumentary, musculoskeletal, neurological, sensory, endocrine, circulatory, lymphatic, respiratory, digestive, urinary and reproductive.
7. Define disease terminology.
8. Understand direct and predisposing causes of disease conditions.
9. List types and characteristics of microorganisms.
10. Explain the cycle of infection.
11. Discuss body defenses and immunity.
13. Identify signs/symptoms, etiology, diagnosis and treatment of common diseases of the integumentary system.
15. Identify signs/symptoms, etiology, diagnosis and treatment of common diseases of the nervous system.
16. Identify signs/symptoms, etiology, diagnosis and treatment of common diseases of the sensory system.
17. Identify signs/symptoms, etiology, diagnosis and treatment of common diseases of the endocrine system.
18. Correctly use terminology and abbreviations which apply to each area of study.

**LEARNING/TEACHING TECHNIQUES used in the course are:**

- Collaborative Learning
- Student Presentations
- Creative Projects
- Lecture
- Problem solving
- Interactive Lectures
- Individual Coaching
- Films/Videos/Slides
- Demonstrations
- Lab

**ASSIGNMENTS AND ASSESSMENTS FOR THIS CLASS INCLUDE:**

- Reading
- Test
- Individual Projects
- Oral presentations
- Worksheets
- Collaborative Projects
- Textbook Problems
- Papers
- Portfolio
- Group problems
- Term Paper
- Other (describe below)

**Veteran Services:** Minnesota West is dedicated to assisting veterans and eligible family members in achieving their educational goals efficiently. Active duty and reserve/guard military members should advise their instructor of all regularly scheduled military appointments and duties that conflict with scheduled course requirements. Instructors will make every effort to work with the student to identify adjusted timelines. If you are a veteran, please contact the Minnesota West Veterans Service Office.

**The information in this course outline is subject to revision**

*To receive reasonable accommodations for a documented disability, please contact the campus Student Services Advisor or campus Disability Coordinator as arrangements must be made in advance. In addition, students are encouraged to notify their instructor.*