Warren County Community College

BIO 176/MED 176
Anatomy/Physiology/Pathology
Course Master Syllabus

Course Information

Catalog Description: This course is an introduction to the structure and function of the human body and its fluctuating health states. Focus is on the fundamentals of the various body systems and the principles of the disease process involved.

Prerequisite(s): None

Corequisite(s): MED 677 – Medical Terminology

Credits: 3

Hours: 3.5 (60 classroom hours) *Last class session 4 hours

Required Text(s): Rizzo, D. Fundamentals of Anatomy and Physiology, 4th Edition

Supplemental Materials:

Instructor Information

Instructor's Name:

Contact Information:

Office Hours:

Goals of the Medical Assisting Program

The medical assisting program at Warren County Community College endeavors to reach, at a minimum, the following goals: To prepare competent entry-level medical assistants in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains. Students of the medical assisting program must accomplish these goals and competencies in order to be eligible for program completion. The curriculum is also designed to foster critical thinking, interpersonal skills, leadership skills, ethical sensitivity, and professional responsibility to perform all administrative and clinical

competencies in the field of Medical Assisting. The program will support the institutional mission of the college (to build a community of learners through accessible, quality learning opportunities) and meet the needs and expectations of the communities of interest.

Class Core Competencies

The following core competencies are embedded in this curriculum:

- Communicate effectively in both speech and writing.
- Use scientific method of inquiry, through the acquisition of scientific knowledge.
- Understand ethical issues and situations.
- Address an information need by locating, evaluating, and effectively using information.

Class Learning Assessment

Student Learning Outcomes	Suggested Means of Assessment
Identify and describe the structural organization of the human body, including the structure and function of specific organs within each body system and the body planes, directional terms, quadrants, and cavities	Written exams, practical lab exercises
Identify common pathology related to each body system, analyzing pathology as it relates to the interaction of body systems	Written exams, pathophysiology research papers & presentations
Apply critical thinking skills in performing complete anatomical assessment	Practical lab exercises
Recognize the role of dietary nutrients, including the purpose and function of dietary supplements as they relate to the nutritional and dietary needs for various health concerns	Written exams, graded assignments
Understand the scientific method of inquiry and how to develop a hypothesis	Written exams, graded assignments, and practical lab exercises

Student Learning Outcomes	Suggested Means of Assessment
Demonstrate proper procedures for following ethical guidelines when it comes to the identification and reporting of anatomical, pathological, and physiological changes, defects, and disorders of patients in the healthcare environment and through scientific research	Written exams, pathophysiology research papers and presentations
Demonstrate awareness and respect for patients with physical abnormalities due to congenital or acquired anatomical defects	Written exams, pathophysiology research papers and presentations

Grading System

Letter Grade	Percentage Range
A	90 to 100 percent
B Plus (B+)	87 to 89.9 percent
B	80 to 86.9 percent
C Plus (C+)	77 to 79.9 percent
C	70 to 76.9 percent
D	60 to 69.9 percent
F	Below 60 percent

College Information

Disability Services

Disability Services Webpage

Statement and Policy on Cheating, Plagiarism, and Academic Conduct

Academic Conduct Policy (Policy 304) [PDF]

Students are required to perform all the work specified by the instructor and are responsible for the content and integrity of all academic work submitted. A violation of academic integrity will occur if a student: (1) knowingly represents work of others as

one's own, (2) uses or obtains unauthorized assistance in any academic work, (3) gives fraudulent assistance to another student, or (4) furnishes false information or other misuse of college documents.

Unauthorized use of Artificial Intelligence (AI) is prohibited unless the instructor explicitly permits it in the syllabus or assignments. If tools such as ChatGPT are permitted by an instructor to be used for an assignment, they should be used with caution and with proper citation. In all such cases, you may only use the specific tools identified as acceptable and you must adhere to the College's standards for attribution, validation, and transparency.

In cases of suspected violation of academic integrity, the incident is to be reported to the Office of Academics. A student found guilty of violating the rule of academic integrity by the Vice President of Academics will be considered to have failed in personal obligation to the College; such failure will be subject to disciplinary action by the College. Unless otherwise notified, the instructor will allow students who are pending disciplinary action to attend class.

Tutoring and Testing at the Instructional Support Center (ISC)

- Instructional Support Center (ISC) Webpage

WCCC Library Services

- WCCC Library Website

Citation Styles and Formatting

Work submitted for any Warren County Community College course must conform to the required formatting and citation style that are specified by the instructor. The Library and Instructional Support Center can assist students with formatting and citations for assignments and papers.

WCCC Attendance Expectations

The College expects students to attend and participate in all classes. This involves sharing discussions and lectures in class, as well as interacting with other students. Grades are based on the quality of work students complete in meeting the requirements for a particular course, as stated in the course syllabus and catalog description. Attendance, among other factors, may be an additional criterion for assigning grades. Students should realize that they are responsible for all class meetings and that work missed because of absences may affect their grades. Attendance in online classes is

determined by the completion of assignments/ tests. Students who have not completed any assignments or tests will be considered non-attending and receive an NF grade in online classes.

Class Attendance Expectations

Topical Outline

- Structure and function of the human body, including all body systems and organs within those systems:
    - Body organization
    - Tissues
    - Integumentary
    - Skeletal
    - Muscular
    - Endocrine
    - Nervous
    - Special senses
    - Blood
    - Heart
    - Cardiovascular
    - Lymphatic & immune
    - Respiratory
    - Digestive
    - Temperature & metabolism
    - Urinary
    - Male reproductive
    - Female reproductive
    - OB/GYN.
- Scientific methods.

MAERB Core Curriculum Copentencies

The following MAERB Core Curriculum Competencies are taught and assessed in this course:

Cognitive Domain

- I.C. 1-Identify structural organization of the human body
- I.C. 2-Identify Body Systems*

- I.C. 3-Identify:
    a. body planes
    b. directional terms
    c. quadrants
    d. body cavities
- I.C. 4-Identify major organs in each body system*
- I.C. 5-Identify the anatomical location of major organs in each body system*
- I.C. 6-Identify the structure and function of the human body across the life span
- I.C. 7-Identify the normal function of each body system
- I.C. 8-Identify common pathology related to each body system including:
    a. signs
    b. symptoms
    c. etiology
    d. diagnostic measures
    e. treatment modalities
- IV.C. 1-Identify dietary nutrients including:
    a. carbohydrates
    b. fat
    c. protein
    d. minerals
    e. electrolytes
    f. vitamins
    g. fiber
    h. water
- IV.C. 2-Identify the functions of dietary supplements
- IV.C. 3-Identify the special dietary needs for:
    a. weight control
    b. diabetes
    c. cardiovascular disease
    d. hypertension
    e. cancer
    f. lactose-sensitivity
    g. gluten-free
    h. food allergies
    i. eating disorders
- IV.C.4-Identify the components of a food label

*Body systems must include, but are not limited to, the following: Circulatory, Digestive, Endocrine, Integumentary, Lymphatic, Muscular, Nervous, Sensory, Reproductive, Respiratory, Skeletal, and Urinary.

Performance Domain

- IV.P. 1-Instruct a patient regarding a dietary change related to patients' special dietary needs.

Methods of Evaluation: Tests, Quizzes, Class Participation, Papers/Projects, Final Examination, and Work Products which assess the cognitive, psychomotor, and affective domains.

Grading Methods

Assignment	Points/Percentage
Tests and quizzes	50%
Papers/projects/work products	20%
Class participation	5%
Final Exam	25%

CAAHEP

CAAHEP requires that medical assisting students pass 100% of all psychomotor and affective domain objectives and competencies in order to be eligible for program completion. 75% or higher is considered passing for all courses and related competencies. Students may make 3 attempts to successfully complete each work product competency.

Late Work Policy

Late work is unacceptable unless prior arrangements have been made with the appropriate instructor.

Missed Exam Policy

Scheduled exams cannot be cut. Illness and excused absences are the exceptions. Absence for an exam or quiz will result in a 10% grade deduction on that assessment.

Students who miss a scheduled examination must make arrangements with the instructor and/or the ISC department to schedule a time to make up that exam.

Class Participation includes attendance. Students will realize a 10% deduction for each absence. In order to achieve full credit for Participation, students must attend all scheduled sessions, come to class prepared, and participate fully.

*Please refer to Medical Assisting Program Policy in the Medical Assisting Handbook.

Itinerary

Unit	Readings/Assignments
1	Orientation Chapter 1 – The Human Body Chapter 2 – The Chemistry of Life
2	Chapter 3 – Cells Chapter 5 – Tissues Test #1
3	Chapter 6 – Integumentary System Test #2
4	Chapter 7 – Skeletal System Chapter 8 – Articular System Chapter 8 – Muscular System Test #3
5	Chapter 12 – Endocrine System Test #4
6	Chapters 10 & 11 – Nervous System and Special Senses Test #5
7	Chapter 13 – Blood Chapter 14 – Cardiovascular Circulatory System
8	Chapter 14 – Cardiovasular Circulatory System (continued)
9	Chapter 15 – Lymphatic Circulatory System Test #6
10	Chapter 17 – Respiratory System
11	Chapter 16 – Nutrition and Digestrive System Temperature and Metabolism Test #7

Unit	Readings/Assignments
12	Chapter 18 – Urinary System Test #8
13	Chapter 19 – Male Reproductive System Test #9
14	Chapter 19 – Female Reproductive System and OB/GYN Test #10
15	Final Exam