



CATALOG DESCRIPTION: As a continuation of BIO 262 – Anatomy & Physiology I, this course emphasizes the senses, autonomic nervous, endocrine, cardiovascular, lymphatic, digestive, respiratory, urinary, and reproductive systems. Laboratory exercises are designed to reinforce content. This course is a requirement for nursing intent majors and recommended for science majors.

PREREQUISITE(S): BIO 262 - Anatomy & Physiology I

COREQUISITE(S): High School biology and/or chemistry or equivalent highly recommended. ENG 140 – English Composition I highly recommended.

CREDITS: 4 **HOURS:** 3 lecture 3 lab

REQUIRED TEXT(S): MindTap Basic Health Science for Rizzo's Fundamentals of Anatomy and Physiology, 4th edition
eBook: Update: Anatomy & Physiology Laboratory Manual

CENGAGE COURSE CODE:

SUPPLEMENTAL MATERIALS:

INSTRUCTOR INFORMATION:

OFFICE HOURS:



LEARNING GOALS: The following general education learning goals apply and are assessed in this course: 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.	
LEARNING ASSESSMENT	
<i>Student Learning Outcomes:</i>	<i>Suggested Means of Assessment:</i>
Utilize the proper anatomical and directional terms addressing body structures, body systems and their locations	Tests, Quizzes, Assessment Tasks, Pre and Post-Tests
Identify structures of (applicable body systems).	Tests, Quizzes, Assessment Tasks, Practical Exams
Correlate structure and function relationships within a particular system. Integrate knowledge of anatomical and physiological functions of the entire body.	Tests, Quizzes, Assessment Tasks, Exams
Explain the function of the organs within a particular system and their importance to that system's function and to maintaining homeostasis.	Tests, Quizzes, Class Discussions, Critical Thinking Rubrics, Pre and Post-Tests
Differentiate among various histological body tissue samples.	Tests, Quizzes, Lab Reports
Recognize the importance of lab safety and apply the scientific method when conducting lab experiments	Hands-on Tasks, Practical Exams, Performance Assessment Activities, Lab Reports
Demonstrate effective oral/written communication skills to analyze lab results	Participation in Class Discussions, Essay Questions, Exams, Lab Reports
Exhibit professional behaviors and follow high ethical standards	Team Group Lab Work for Scientific Reporting
GRADING SYSTEM:	
A = 90 < 100	C+ = 77 < 80
B+ = 87 < 90	C = 70 < 77
B = 80 < 87	D = 60 < 70
	F = Below 60

DISABILITY SERVICES STATEMENT: Warren County Community College is committed to providing all students equal access to learning opportunities. Student Services is the campus office that works with students who have disabilities to provide and/or arrange reasonable accommodations. Students who have, or think they may have, a disability (e.g. mental health, learning, vision, hearing, physical or systemic), are invited to contact Student Services to arrange a confidential discussion at (908) 835-2300 or by email at StudentServices@warren.edu as soon as possible. Students registered for Disability Services with Student Services, who have requested accommodations for the current semester will be provided with an electronic letter



detailing individual accommodations and are encouraged to contact the instructor early in the semester to discuss accommodations outlined in their letter.

INSTRUCTIONAL SUPPORT CENTER: The Instructional Support Center (ISC), located in Room 105 across from the library, provides academic support at no cost to WCCC students and is available for courses in which they are currently enrolled. The ISC is staffed with trained professional and peer tutors who are ready to help you understand and succeed. For scheduling or further information, visit the ISC in person, online at <http://www.warren.edu/tutoring/> or by telephone at (908)835-2354.

STATEMENT AND POLICY ON CHEATING, PLAGIARISM AND ACADEMIC DISHONESTY: 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.

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.

REQUIRED FORMAT FOR RESEARCH PAPERS: Research papers written for any Warren County Community College class must conform to the required documentation style. Papers written for humanities (and some social science) classes will follow the most recent edition of the Modern Language Association (MLA) in-text citation and bibliographic methods. Social science and science papers will require the use of the most recent edition of the American Psychological Association (APA) in-text citation and bibliographic methods.

Please consult with your instructor regarding the correct documentation style to use in his/her class.

ATTENDANCE POLICY: Students are expected to attend all class sessions of courses in which they are enrolled and are responsible for all material presented in class and all homework assignments.

Grades are based on the quality of work completed in meeting the requirements for a particular course, as stated in the course syllabus and catalog description.

Excessive absence may be considered sufficient cause for dismissal from class by an instructor or other appropriate college staff member. Any decision to exclude a student from class or the College due to excessive absence shall be subject to review by the President in accordance with established procedures. Students who have not attended class are not entitled to a refund of tuition.



WCCC HAYTAIAN & MAIER LIBRARY

Text: 908-652-4445

Email: lstoll@warren.edu

<http://warren.libguides.com>

Please see the library's website above for current semester hours.

The WCCC Library offers a wide range of services to students specific to the information literacy goals of the College which includes suggesting research strategies, facilitating the use of both digital and print resources, as well as assisting students with citations to avoid plagiarism.

The library also serves as the College's computer space, with computers for students to use when the library is open. Students also have free, unlimited printing from the College's computers, as well as space to study.

The library is where students can get their college student ID cards. All students are required to get a student ID card and carry it while on campus for security purposes. To get a student ID card, you must bring another form of ID to the library. You may also be asked to bring a printed copy of your current class schedule. You can get a student ID card any time that the library is open. These cards do not expire and can be used for your duration at WCCC.

Additionally, the library participates in a national inter-library loan program which is available free to all students and faculty. You can submit ILL requests by emailing the librarian or by stopping by the library's circulation desk.

TOPICAL LECTURE OUTLINE

Integration of Nervous System Functions

- sensation
- control of skeletal muscles
- brain functions

Special Senses

- olfactory
- gustatory
- visual
- hearing and balance

Autonomic Nervous System

- contrasting somatic motor & autonomic nervous systems
- structure of ANS
- physiology of ANS
- regulation
- functional generalizations

Functional Organization of Endocrine System



- general characteristics
 - hormone structure
 - transport in body
 - metabolism and excretion
 - interaction and hormone receptors
- Endocrine Glands
- functions
 - pituitary & hypothalamus
 - thyroid
 - parathyroid
 - adrenals
 - pancreas
 - ovaries and testes
 - pineal
 - thymus
- CVS: Blood
- functions
 - components of blood
 - physiology of hemostasis
 - blood grouping
- CVS: Heart
- functions
 - anatomy of the heart
 - conductive system
 - blood flow through heart
 - cardiac cycle
 - cardiac output
 - regulation
- CVS: Peripheral Circulation and Regulation
- arteries, arterioles, capillaries, venules, veins
 - circulatory routes
 - physiology of circulation
- Lymphatic System and Immunity
- lymphatic tissue, organs, and vessels
 - immunity
 - innate immunity
 - adaptive immunity
 - acquired immunity
- Respiratory System
- functions
 - anatomy & histology
 - pulmonary ventilation, air volumes and capacities



- exchange of respiratory gases
- modification of ventilation

Digestive System

- general histology
- anatomy, histology and physiology of: oral cavity, esophagus, stomach, pancreas, liver,
- gallbladder, small intestine, large intestine

Metabolism

- nutrition
- metabolism (general)
- carbohydrate metabolism
- lipid metabolism
- protein metabolism
- interconversion
- metabolic states

Urinary System

- functions
- anatomy & physiology of: kidneys, ureters, urinary bladder, urethra
- urine – production, composition, regulation

Reproductive System

- male reproductive system: anatomy & physiology of scrotum, testes, ducts, glands
- female reproductive system: anatomy & physiology of ovaries, uterine tubes, uterus, vagina, mammary glands



GRADING METHODS:

Empty box for grading methods.

ITINERARY:

Empty box for itinerary.