CATALOG DESCRIPTION: Provides a continuation of BIO 262, Anatomy and Physiology I. Emphasis on the senses, autonomic nervous, endocrine, cardiovascular, lymphatic digestive, respiratory, urinary, and reproductive systems. Laboratory exercises designed to reinforce content. Required of nursing intent majors. Recommended for science majors.

PREREQUISITE(S): BIO 262 Anatomy & Physiology I

COREQUISITE(S): MAT 051 or appropriate placement test score. High School Biology and/or Chemistry or equivalent highly recommended.

CO-REQUISITE (S): MAT 050 or appropriate placement test score. High School Biology and/or Chemistry or equivalent highly recommended.

CREDITS: 4 HOURS: 3 lecture 3 lab


ISBN: 9780077736224


ISBN: 9781259671296

SUPPLEMENTAL MATERIALS: None

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

<table>
<thead>
<tr>
<th>Student Learning Outcomes</th>
<th>Suggested Means of Assessment</th>
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<tbody>
<tr>
<td>Utilize the proper anatomical and directional terms addressing body structures, body systems and their locations</td>
<td>Tests, Quizzes, Assessment Tasks, Pre and Post-Tests</td>
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<tr>
<td>Identify structures of (applicable body systems).</td>
<td>Tests, Quizzes, Assessment Tasks, Practical Exams</td>
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<tr>
<td>Correlate structure and function relationships within a particular system. Integrate knowledge of anatomical and physiological functions of the entire body.</td>
<td>Tests, Quizzes, Assessment Tasks, Exams</td>
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<tr>
<td>Explain the function of the organs within a particular system and their importance to that system’s function and to maintaining homeostasis.</td>
<td>Tests, Quizzes, Class Discussions, Critical Thinking Rubrics, Pre and Post-Tests</td>
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<tr>
<td>Differentiate among various histological body tissue samples.</td>
<td>Tests, Quizzes, Lab Reports</td>
</tr>
<tr>
<td>Recognize the importance of lab safety and apply the scientific method when conducting lab experiments</td>
<td>Hands-on Tasks, Practical Exams, Performance Assessment Activities, Lab Reports</td>
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<tr>
<td>Demonstrate effective oral/written communication skills to analyze lab results</td>
<td>Participation in Class Discussions, Essay Questions, Exams, Lab Reports</td>
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<tr>
<td>Exhibit professional behaviors and follow high ethical standards</td>
<td>Team Group Lab Work for Scientific Reporting</td>
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GRADING SYSTEM:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>90 &lt; 100</td>
</tr>
<tr>
<td>B+</td>
<td>87 &lt; 90</td>
</tr>
<tr>
<td>B</td>
<td>80 &lt; 87</td>
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<tr>
<td>C+</td>
<td>77 &lt; 80</td>
</tr>
<tr>
<td>C</td>
<td>70 &lt; 77</td>
</tr>
<tr>
<td>D</td>
<td>60 &lt; 70</td>
</tr>
<tr>
<td>F</td>
<td>Below 60</td>
</tr>
</tbody>
</table>

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: (908) 835-2336 http://warren.libguides.com

Library Hours

Monday-Thursday 8am-8pm

Friday 8am-3pm

Check the Academic Calendar for specific holiday dates. Exceptions may apply during breaks and summer sessions. Any changes to the Library’s hours are posted on the Library’s web page and near the Library doors.

- **Passwords and Log-Ins**-The Library is responsible for resetting passwords for your Network account (email, computers, Wi-Fi, library resources, and printing). This cannot be reset over the phone. Please stop by the Library for help.

- **College IDs**-College IDs are required for all students. The Library is responsible for producing all ID cards. To get an ID card you must bring to the Library a current copy of your class schedule and another form of ID. Your student ID is also your library card and is needed to check materials out of the Library. Your first ID card is free and replacement cards are issued at a cost to the student.

- **Inter-Library Loan (ILL)**-The Library participates in a nation-wide inter-library loan program which is available free to all students and faculty. You can either submit ILL requests via the Internet (form available on the Library’s web page) or in person at the circulation desk.

**TOPICAL OUTLINES:**

**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
<table>
<thead>
<tr>
<th>Course Master Syllabus</th>
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- 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
BIO 263  Anatomy & Physiology II
Course Master Syllabus

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

TOPICAL LABORATORY OUTLINE

Sensation, General Senses
Introduction to Sensory Receptors
Special Senses - Taste and Smell
Special Senses – Anatomy and Physiology of the Eye
Anatomy & Physiology of the Ear
Endocrine System
Blood
Blood Tests and Typing
Electrical Conductivity of the Heart
Blood Pressure taking
Intro to Blood Vessels: Arteries, Veins, Capillaries
Major Arteries and Veins and their Physiology
Cardio-Vascular System
Lymphatic System
Structure of the Respiratory System
Respiratory Function, breathing and Respiration
Anatomy of the Digestive System
Digestive Physiology
Anatomy of the Urinary System
Urinalysis
Male Reproductive System
Female Reproductive System

GRADING METHODS:

ITINERARY: