WARREN COUNTY SCHOOL DISTRICT

PLANNED INSTRUCTION

COURSE DESCRIPTION

Course Title: Anatomy Honors
Course Number: 00321
Course Prerequisites: Biology CP with an 80% or better or teacher approval

Course Description: Anatomy is a two-semester elective course concerned with the structure and function of the human body and concentrates on a detailed study of the anatomy of the muscular, circulatory, digestive, respiratory, excretory, integumentary, endocrine, urinary, nervous, and reproductive systems. The anatomy of other vertebrates will be considered. The course includes lab work and considerable reading.

Suggested Grade Level: Grades 11-12
Length of Course: Two Semesters
Units of Credit: 1
PDE Certification and Staffing Policies and Guidelines (CSPG) Required Teacher Certifications:
CSPG 32 Biology
To find the CSPG information, go to CSPG
Certification verified by the WCSD Human Resources Department: ☒Yes ☐No

WCSD STUDENT DATA SYSTEM INFORMATION

Course Level: Academic
Mark Types: Check all that apply.
☒F – Final Average ☒MP – Marking Period ☒EXM – Final Exam

GPA Type: ☐ GPAEL-GPA Elementary ☐ GPAML-GPA for Middle Level ☒ NHS-National Honor Society
☒ UGPA-Non-Weighted Grade Point Average ☒ GPA-Weighted Grade Point Average

State Course Code: 03054
To find the State Course Code, go to State Course Code, download the Excel file for *SCED*, click on SCED 6.0 tab, and choose the correct code that corresponds with the course.

TEXTBOOKS AND SUPPLEMENTAL MATERIALS

Board Approved Textbooks, Software, and Materials:

Title:	Essentials of Human Anatomy and Physiology
Publisher:	Pearson
ISBN #:	0-13-458057-5
Copyright Date:	2018
WCSD Board Approval Date:	5/14/2018

Supplemental Materials: Dissection materials

Curriculum Document

WCSD Board Approval:

Date Finalized:	2/19/2025
Date Approved:	3/10/2025
Implementation Year:	2025-2026

SPECIAL EDUCATION, 504, and GIFTED REQUIREMENTS

The teacher shall make appropriate modifications to instruction and assessment based on a student's Individual Education Plan (IEP), Chapter 15 Section 504 Plan (504), and/or Gifted Individual Education Plan (GIEP).

SCOPE AND SEQUENCE OF CONTENT AND CONCEPTS

Marking Period 1

- General Anatomy/Physiology
- Cells and Tissues
- Integumentary System
- Muscular System

Marking Period 2

- Muscular System
- Nervous System
- Endocrine System
- Cardiovascular System

Marking Period 3

- Lymphatic System
- Reproductive System
- Digestive System

Marking Period 4

- Urinary System
- Respiratory System

Standards/Eligible Content and Skills

Performance Indicator	PA Core Standard and/or Eligible Content	Marking Period Taught
Describe relationships between structure and function at biological levels of organization.	BIO.A.1.2	MP1, MP2, MP3, MP4
Compare cellular structures and their functions in prokaryotic and eukaryotic cells.	BIO.A.1.2.1	MP2, MP3, MP4
Describe and interpret relationships between structure and function at various levels of biological organization (i.e., organelles, cells, tissues, organs, organ systems, and multicellular organisms).	BIO.A.1.2.2	MP2, MP3, MP4
Describe and interpret relationships between structure and function at various levels of biochemical organization (i.e., atoms, molecules, and macromolecules).	BIO.A.2.2	MP1, MP2, MP3, MP4
Explain how carbon is uniquely suited to form biological macromolecules.	BIO.A.2.2.1	MP2, MP3, MP4
Describe how biological macromolecules form from monomers.	BIO.A.2.2.2	MP2, MP3, MP4
Compare the structure and function of carbohydrates, lipids, proteins, and nucleic acids in organisms.	BIO.A.2.2.3	MP2, MP3, MP4
Explain how enzymes regulate biochemical reactions within a cell.	BIO.A.2.3	MP1, MP2, MP3, MP4
Describe the role of an enzyme as a catalyst in regulating a specific biochemical reaction.	BIO.A.2.3.1	MP2, MP3, MP4
Explain how factors such as pH, temperature, and concentration levels can affect enzyme function.	BIO.A.2.3.2	MP2, MP3, MP4
Identify and describe how energy is captured and transformed in organisms to drive their life processes.	BIO.A.3.2	MP1, MP2, MP3, MP4
Compare the basic transformation of energy during photosynthesis and cellular respiration.	BIO.A.3.2.1	MP2, MP3, MP4
Describe the role of ATP in biochemical reactions.	BIO.A.3.2.2	MP2, MP3, MP4
Explain mechanisms that permit organisms to maintain biological balance between their internal and external environments.	BIO.A.4.2	MP1, MP2, MP3, MP4
Explain how organisms maintain homeostasis	BIO.A.4.2.1	MP2, MP3, MP4
Develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific functions within multicellular organisms.	SCI.3.1.9-12.B	MP1, MP2, MP3, MP4
Plan and conduct an investigation to provide evidence that feedback mechanisms maintain homeostasis.	SCI.3.1.9-12.C	MP1, MP2, MP3, MP4
Construct and revise and explanation based on evidence for the cycling of matter and flow of energy in aerobic and anaerobic conditions.	SCI.3.1.9-12.J	MP1, MP2, MP3, MP4

ASSESSMENTS

PDE Academic Standards, Assessment Anchors, and Eligible Content: The teacher must be knowledgeable of the PDE Academic Standards, Assessment Anchors, and Eligible Content and incorporate them regularly into planned instruction.

Formative Assessments: The teacher will utilize a variety of assessment methods to conduct in-process evaluations of student learning.

Effective formative assessments for this course include: Exit tickets, projects, labs/dissections, quizzes, reflections, etc.

Summative Assessments: The teacher will utilize a variety of assessment methods to evaluate student learning at the end of an instructional task, lesson, and/or unit.

Effective summative assessments for this course include: Teacher created quizzes, labs, tests, essays, final projects, final exams