Course Title: Advanced Biology Honors

Course Number: 00317

Course Prerequisites: Proficient or Advanced score on Biology Keystone Exam

Course Description:
Advanced Biology Honors is highly recommended for students who desire to attend college and/or pursue a career in a biological field. The main approach to the course is at the molecular level with an emphasis on biodiversity, systematics, and ecology. Additional focus is placed on biochemistry, cells, genetics, and evolution. The viruses and major phyla of living things are studied in depth. Final assessment required.

Suggested Grade Level: Grades 10-12

Length of Course: □ One Semester ☒ Two Semesters □ Other (Describe)

Units of Credit: 1 (Insert None if appropriate)

PDE Certification and Staffing Policies and Guidelines (CSPG) Required Teacher Certifications:
CSPG 32-Biology

Certification verified by WCSD Human Resources Department: ☒ Yes □ No

TEXTBOOK AND SUPPLEMENTAL MATERIALS

Continue using Board approved textbook? ☒ Yes □ No (If yes, then complete the information below.)

Board Approved Textbooks, Software, Supplemental Materials:
Title: Campbell Biology Concepts & Connections 9th edition
Publisher: Pearson
Copyright Date: 2018
Date of WCSD Board Approval: May 14, 2018

BOARD APPROVAL:

Date Written: 2/28/2018
SPECIAL EDUCATION AND GIFTED REQUIREMENTS

The teacher shall make appropriate modification to instruction and assessment based on a student’s Individual Education Plan (IEP) or Gifted Individual Education Plan (GIEP).

COURSE OVERVIEW

I. Classification
   a. Introduction to Biology
   b. Origin of Species and Taxonomy
   c. History of Life on Earth

II. Microbes

III. Immune System

IV. Fungi

V. Plants

VI. Animals
   a. Invertebrates
   b. Vertebrates

VII. Ecology
   a. Introduction to Ecology
   b. Global Climate Change
   c. Population Ecology
   d. Community Ecology
   e. Ecosystem Ecology and Conservation

VIII. Biochemistry

IX. Cell Structures and Processes

X. Genetics

XI. Evolution

Standards:
3.1 Biological Sciences
3.1.10.A: Organisms and Cells
3.1.12.A: Organisms and Cells
3.1.10.B: Genetics
3.1.12.B: Genetics
3.1.10.C: Evolution
3.1.12.C: Evolution
3.3.12.A: Earth Structure, Processes and Cycles
CC.3.5.9-12 Reading Informational Text
CC.3.6.9-12 Writing
ASSESSMENT

Portfolio Assessment: ☒ Yes  □ No

District-Wide Common Final Examination Required:  ☒ Yes  □ No

Course Challenge Assessment *(Describe)*: Students must pass the final exam with a minimum score of 80%.

WRITING TEAM: Warren County School District Teachers

WCSD STUDENT DATA SYSTEM INFORMATION

1. Is there a required final examination?  ☒ Yes  □ No
   *Warren County School District Policy 9741 and 9744 state, “All classes in grades 9-12 shall have a final exam."

2. Does this course issue a mark/grade for the report card?  ☒ Yes  □ No

3. Does this course issue a Pass/Fail mark?  □ Yes  ☒ No

4. Is the course mark/grade part of the GPA calculation?  ☒ Yes  ☒ No

5. Is the course eligible for Honor Roll calculation?  ☒ Yes  □ No

6. What is the academic weight of the course?
   □ No weight/Non credit  □ Standard weight  ☒ Enhanced weight *(Describe)*