**Warren County School District**

**PLANNED INSTRUCTION**

**COURSE DESCRIPTION**

**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**

**ISBN #: 978-0-13-465340-2**

**Copyright Date: 2018**

**Date of WCSD Board Approval:**

**BOARD APPROVAL:**

**Date Written:** 2/28/2018

**Date Approved:**

**Implementation Date:** 2018-2019

**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**

1. Classification
   1. Introduction to Biology
   2. Origin of Species and Taxonomy
   3. History of Life on Earth
2. Microbes
3. Immune System
4. Fungi
5. Plants
6. Animals
   1. Invertebrates
   2. Vertebrates
7. Ecology
   1. Introduction to Ecology
   2. Global Climate Change
   3. Population Ecology
   4. Community Ecology
   5. Ecosystem Ecology and Conservation
8. Biochemistry
9. Cell Structures and Processes
10. Genetics
11. 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 and9744 state, “All classes in grades 9-12 shall have a final exam.”***

1. Does this course issue a mark/grade for the report card?  Yes  No
2. Does this course issue a Pass/Fail mark? Yes No
3. Is the course mark/grade part of the GPA calculation? Yes No
4. Is the course eligible for Honor Roll calculation? Yes  No
5. What is the academic weight of the course?

|  |  |  |
| --- | --- | --- |
| No weight/Non credit | Standard weight | Enhanced weight |
|  |  |  |