**Warren County School District**

**PLANNED INSTRUCTION**

**COURSE DESCRIPTION**

**Course Title:** Advanced Placement Biology

**Course Number:** 00316

**Course Prerequisites:** Biology College Preparatory, Honors Biology, and Chemistry College Preparatory

**Course Description:**

Advanced Placement Biology is offered to students who have completed Biology College Preparatory, Advanced Biology, and Chemistry College Preparatory. The College Board’s Advanced Placement (AP) program provides capable and motivated students with an opportunity to pursue college level biological studies with still in secondary school. This course is a college level laboratory program that enables students to receive college credit by passing a test with appropriate scores in May of the school year.

**Suggested Grade Level:** Grades 11-12

|  |  |  |  |
| --- | --- | --- | --- |
| **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 AP Edition 11th Edition + AP Test Prep**

**Publisher: Pearson**

**ISBN #: 10:0-13-443369-6**

**Copyright Date: 2018**

**Date of WCSD Board Approval:**

**BOARD APPROVAL:**

**Date Written:** 2/28/18

**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**

(*List the content to be taught*)

1. **Molecules and Cells**
2. Chemistry of Life
3. Water
4. Organic molecules
5. Enzymes
6. Cells
7. Prokaryotic and Eukaryotic Cells
8. Membranes
9. Subcellular Organization
10. Cell cycle and regulation
11. Cellular Energetics
12. Coupled Reactions
13. Cellular respiration and fermentation
14. Photosynthesis
15. **Heredity and Evolution**
16. Heredity
17. Meiosis and gametogenesis
18. Eukaryotic chromosomes
19. Inheritance patterns
20. Molecular Genetics
21. RNA and DNA
22. Gene regulation
23. Mutation
24. Nucleic Acid Technology and Applications
25. Evolution
26. Review of evidence for evolution
27. Natural selection
28. **Organisms and Populations**
29. Diversity of Organisms
30. Survey of the diversity of life
31. Phylogenetic Classification
32. Evolutionary Relationships
33. Structure and Function of Plants and Animals
34. Reproduction, growth, and development
35. Adaptations
36. Response to the Environment
37. Ecology
38. Population Dynamics
39. Communities and Ecosystems
40. Global Issues

**ANCHORS AND STANDARDS**

* 1. **Unifying Themes**
  2. **Biological Sciences**

**CC.3.5.11-12 Reading Informational Text**

**CC.3.6.11-12 Writing**

**ASSESSMENT**

**Portfolio Assessment:** Yes  No

**District-Wide Common Final Examination Required:** Yes  No

**Course Challenge Assessment** (Describe)**:** Must earn an 80% or higher on Final Exam

**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 |