

**Warren County School District**

**PLANNED INSTRUCTION**

**COURSE DESCRIPTION**

**Course Title:** Science 7

**Course Number:** 00305

**Course Prerequisites:** none

**Course Description:**

Seventh grade science is a life science based course covering the following topics: structure and function of organisms, continuity of life, and ecological behavior and systems. Unifying themes and biotechnology are incorporated throughout the course of study.

**Suggested Grade Level:** Seventh Grade

**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 Biology, Chemistry, Physics, Environmental, Earth and Space Science, General Science, Middle Level Science

**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:** Life iScience

**Publisher:** McGraw Hill Education

**ISBN #:** 978-0-07-677284-1

**Copyright Date:** 2017

**Date of WCSD Board Approval:**

**BOARD APPROVAL:**

**Date Written:** 2/20/18

**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)*

- I. Methods of Science
  - a. Understanding Science
  - b. Measurement and Scientific Tools
- II. Classifying and Exploring Life
  - a. Characteristics of Life
  - b. Classifying Organisms
  - c. Exploring Life
- III. Cells
  - a. Structure and Function
  - b. Moving Cellular Materials
  - c. Cells and Energy
  - d. Mitosis and Meiosis
  - e. Asexual Reproduction Vs. Sexual Reproduction
  - f. DNA
- IV. Genetics
  - a. Mendelian Genetics
  - b. Non-Mendelian Genetics
  - c. Advances in Genetics
  - d. Animal Behavior
- V. The Environment and Change Over Time
- VI. Kingdoms
  - a. Bacteria and Viruses
  - b. Protists
  - c. Fungi
  - d. Plants
  - e. Animals
- VII. Interactions of Life

### **ANCHORS AND STANDARDS**

- 3.1.A: Organisms and Cells
- 3.1.B: Genetics
- 3.1.C: Evolution

3.4.E: The Designed World  
4.1: Ecology  
4.5: Humans and the Environment  
CC.3.5.6-8: Reading Informational Text  
CC.3.6.6-8: Writing

### ASSESSMENT

**Portfolio Assessment:** \_\_\_\_\_ Yes   X   No

**District-Wide Common Final Examination Required:** \_\_\_\_\_ Yes   X   No

**Course Challenge Assessment** (Describe): none

**WRITING TEAM:** Warren County School District Teachers

### WCSD STUDENT DATA SYSTEM INFORMATION

1. Is there a required final examination? \_\_\_\_\_ Yes   X   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?   X   Yes \_\_\_\_\_ No

3. Does this course issue a Pass/Fail mark? \_\_\_\_\_ Yes   X   No

4. Is the course mark/grade part of the GPA calculation? \_\_\_\_\_ Yes   X   No

5. Is the course eligible for Honor Roll calculation?   X   Yes \_\_\_\_\_ No

6. What is the academic weight of the course?

\_\_\_\_\_ No weight/Non credit        X   Standard weight      \_\_\_\_\_ Enhanced weight