

Part I: Course Information Overview

Course Title: Biology	Content Area: Science	Grade Level: 10-12
Course Description: This course is designed to help students: • develop a lifelong interest in global issues pertaining to life sciences. The scope and sequence of this course will allow for the continuation of students to develop basic explanations of natural phenomena while continuing development of skill sets that allow students to collect, analyze, represent and utilize data. Students will be able to use this data to interpret and explain biological concepts. Students successfully completing Biology will have the ability to integrate scientific literacy and competencies while providing students with the knowledge and intellectual tools to apply scientific skills, processes, and methods of inquiry to real world settings. The course develops young people who are free to ask questions, seek information, and validate explanations in thoughtful and creative ways.		
Overarching CCSS:		
Unit Overview and Additional Courses Information: <i>Big Ideas Addressed in the Course</i> Unit Overview 1. Introduction to Biology, Scientific Method and Basic Chemistry 2. Organic Chemistry 3. Cell Structure, Function, and Energy 4. DNA Protein Synthesis and Cell Division 5. Genetics 6. Evolution and Classification Big Ideas	Core Values (Habits of Mind/Transferable Skills) Addressed in the Course: <i>How does the course reflect the core values?</i> This course actively cultivates positive habits of the mind by integrating respect, resiliency, and responsibility into its fabric. Through interactive discussions, students learn to respect diverse perspectives, fostering an inclusive environment. Practical challenges and setbacks within the curriculum promote resilience, teaching students to persevere amid difficulties. Additionally, project-based learning and collaborative activities instill a sense of responsibility, encouraging students to contribute meaningfully to group efforts. By intertwining these values throughout the course, students not only gain subject-specific knowledge but also develop a foundation of respect, resiliency, and	

1. Scientific method and its implementation.
2. Origin of life and the cellular nature of life.
3. The diversity and interconnectedness of life.
4. The basics of chemistry as it applies to biology.
5. Human evolution in the origins of modern life.
6. The genetic basis of heredity and modern applications of DNA technology.

responsibility that extends into their broader academic and personal lives.