

Utica High School

Advanced Biology

Instructor: Parker Caples

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Room: 207

Course Description: Advanced Biology is a life sciences course that covers the basics of studying life and the principles which govern living things. This course will investigate the interdependence and diversity of life on Earth, and provide a basic understanding of the concepts of heredity, genetics, and evolution. We will also cover the structure and function of cells, and towards the end of the year start to explore plants and animals in brief. Biology does involve a state test. As an advanced course students can expect a higher degree of rigor and depth than a standard course.

Lab Information: This course will include a number of lab exercises, including dissections. Students will typically perform lab exercises in a group of at least 2 people. Lab safety is of the utmost importance. Students should listen carefully and follow all instruction in the lab to ensure the continued safety of themselves and their fellow classmates. No students should use any lab materials, sinks, gas nozzles, or chemical shower/eyewash station without permission and direction from the instructor. Dissections will be graded assignments that, if missed, must be made up before the associated test.

Late work: Any graded work that is submitted late will receive a 50% deduction without an excuse. All assignments must be turned in by the time of the associated test or they will be entered as a 0. If a test or quiz is missed it will be expected to be made up the day the student returns.

Test Retake: Students may retake tests, keeping the higher score, up to 80%, once per unit. The student will be responsible for arranging a time with the instructor for the retake.

Course Sequence

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| • What is Biology? | Chapter 1-2 |
| • Ecology, Life Interconnected | Chapter 3-6 |
| • Cells, Structure and Function | Chapter 7-10 |
| • Genetics | Chapter 11-15 |
| • Evolution: Micro and Macro | Chapter 16-19 |
| • Microorganisms | Chapter 20-21 |
| • Plants | Chapter 22-24 |
| • Animals | Chapter 25-29 |