

Name of School:

Name of Course: **Investigative Biology**

Instructor Information

Name:
E-mail address:
School phone number:
Web page address:
Best times to be reached:

Course Description

This two-term course uses a systems approach to biology that emphasizes basic biological themes and relationships among all living things. Laboratory activities are designed to prepare scientifically literate citizens.

District Standards and Power Benchmarks

Standard 1: Understands and applies the principles of scientific inquiry

Benchmark A: Formulates and revises scientific explanations and models
Benchmark B: Understands how scientific knowledge changes with new evidence
Benchmark C: Uses technology and mathematics to perform accurate scientific investigations and communications
Benchmark D: Demonstrates safe handling procedures

Standard 2: Understands and applies the principles of life science

Benchmark A: Describes how organisms obtain and use energy
Benchmark B: Describes structures, functions, and processes of the cell
Benchmark C: Investigates cell reproduction and heredity
Benchmark D: Explains how organisms change over time

Course Information

Investigative Biology is a two-term course with no pre-requisites. One unit of credit will be earned for the completion of this course.

Course Outline/Calendar

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Text/Other Required Materials/Resources

Kaskel, A., Hummer, P.J., Daniel, J. (2003). Biology: An Everyday Experience. Columbus, OH: Gencoe/McGraw Hill.
Biology: An Everyday Experience Laboratory Manual (approximately \$15.00)

Instructional Procedures & Support

Classroom Management Procedures

Assessment Plan

The students are assessed on a point system. In addition to classwork, labs, tests and quizzes, the students are assessed on: How Organisms Use Energy Assessment, Cell Structure Assessment, Heredity Assessment, How Organisms Change Over Time Assessment, and a Spreadsheet Integration Project.

Grading System

Grades are based on the following Categories:

- 40% Labs/Classrooms Activities
- 20% Assessments
- 15% Science Journals (Notebook, Portfolio)
- 10% Miscellaneous
- 15% Final

The District Grading Scale is used to calculate the final course grade:

- 90 – 100 A
- 80 – 89 B
- 70 – 79 C
- 60 – 69 D
- 0 – 59 F

