

Honors Global Science

Tom Cuvelier

Course Description:

Honors Global Science is a year-long course that will provide academically advanced students with an in-depth, accelerated approach to discover and expand connections between science, technology, and global societies. This study of natural connections will help students become stewards of the environment, more informed citizens, and better decision-makers. Students will investigate the various aspects of our earth through scientific inquiry, laboratory activities, problem solving, current events, discussions, and projects.

Alignment to the Iowa Core Curriculum:

Understands and applies knowledge of: earth's energy systems, geochemical cycles, impact of living systems, and changes in the earth over time.

Standards:

Science as Inquiry - Essential Concepts and/or Skills

Identify questions and concepts that guide scientific investigations

Design and conduct scientific investigations Use technology and mathematics to improve investigations and communications

Formulate and revise scientific explanations and models using logic and evidence

Think critically and logically to make the relationships between evidence and explanations

Recognize and analyze alternative explanations and predictions Communicate and defend scientific procedures and explanations

Use mathematics in all aspects of scientific inquiry

Life Science - Essential Concepts and/or Skills

Understand and apply knowledge of the interdependence of matter, energy, and organization of living systems.

Understands and applies knowledge of Earth Systems and Resources

Understand and apply knowledge of the interdependence of organisms.

Understands and applies knowledge of population dynamics

Understands and applies knowledge of land and water use

Assessments:

Formative – small group and large group discussion, homework, review activities, homework, performance activities, lab reports, self-assessments, peer review

Summative – Chapter quizzes and tests, lab reports, projects

Content:

1st semester covers the following topics;

Scientific process, Ecology, populations and biodiversity, water, atmosphere

2nd semester covers the following topics;

Weather, Earth's history, geologic time, natural resources

Instructional Strategies:

Large and small group discussions, problem solving, laboratory experiences, using graphic organizers, direct instruction, inquiry, note taking, projects, role playing and group activities.

Resources:

Text: Environmental Science by Holt

Text: Earth Science – Geology, the Environment and the Universe by Glencoe

Academic/Behavioral Expectations

All students are expected to be in the room when the bell rings. Students will serve a 10 minute detention before or after school for the 3rd tardy and all subsequent tardies.

It is expected, and necessary, that you complete your homework on time. Late work will only be accepted for one day and it will be at a reduction of 50% (Half credit).

It is the students' responsibility to see the teacher for work following an absence and to complete this work by the date given.

Students are reminded that global science is a lab course, and they are expected to conduct themselves in an orderly and safe manner while working in the lab. Inappropriate behavior may result in removal from the lab setting and 0 points.

Grading Plan:

Your grade will be determined by taking the total number of points you earn and divide that number by the total number of points possible. Points will be earned through homework, quizzes, unit tests, semester tests, lab reports and projects. Students are reminded that homework will be a smaller part of the 2nd semester grade than during 1st semester.

A	93.0 - 100	C	73.0 – 76.9
A-	90.0 – 92.9	C-	70.0 – 72.9
B+	87.0 – 89.9	D+	67.0 – 69.9

B 83.0 – 86.9

D 63.0 – 66.9

B- 80.0 – 82.9

D- 60.0 – 62.9

C+ 77.0 – 79.9

F Below 60.0

Extra Credit

Extra credit is not an option. You are competing with classmates for grade point and class rank at the end of your Senior year. It is my belief that your grade should reflect your knowledge of the curriculum and meeting the standards. Extra opportunities can be provided to help you perform better on summative assessments, but the extra work itself will not be part of your grade.

Communication Plan:

Power School link for parents <https://ps-dubuque.gwaea.org/public/>

Phone 563-552-5624

tcuvelier@dbqschool.org

Extra Help

Mr. Cuvelier is available to provide extra help during “A” lunch and 2nd period every day, 6th and 7th periods with appointments. I can also be available before school every day or after school once the football season is completed.