

East English Village Preparatory Academy
Course Syllabus-11th Grade.
Next Gen Earth and Space Sciences
Academic Year 2023_2024

Course Information

NEXT GEN EARTH AND SPACE SCEINCES

Class Location: Room A110

Time: Period 1,2,3, 5 and 6

Teacher Information

Name: Dr. Anura Hewagama

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Office Hours: 5TH HOUR or By appointment.

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DPSCD MISSION AND VISION:

We educate and empower every student, in every community, every day, to build a stronger Detroit. All students will have the knowledge, skills, and confidence necessary to thrive in our city, our nation, our world.

COURSE DESCRIPTION:

The course is designed for to fulfil requirements of Detroit Public Schools 11th grade Earth and Space Science Requirements. The curriculum is also aligned with the State of Michigan Next Gen Earth and Space Sciences Standards. The Curriculum has been adapted from New Visions Open Source Resources (<https://curriculum.newvisions.org/science/course/earth-space-science/>). In addition, we utilize resources from the Earth Science curriculum from CK-12 (<https://www.ck12.org/search/?q=Earth%20Science&referrer=search>) as appropriate.

COURSE OBJECTIVES (Next Gen Science):

The students will be able to:

1. Proficient in Earth and Space Science concepts and applications.
2. Describe the nature of scientific investigation.
3. Use Mathematical Manipulations (Quantitative data) in Scientific Observation
4. Demonstrate knowledge in concepts relevant to high school chemistry/first Year College curriculum standards.
5. Be knowledgeable in Phenomena, Scientific Modeling and Science and Engineering Practices.
6. Prepare well for the State of Michigan Science M-STEP exam.

PERFORMANCE EXPECTATIONS

UNIT 1: Discovering New Worlds	UNIT 2: Probability of Life in the Universe	UNIT 3: Earthquakes and Tsunamis: Are we at Risk?	UNIT 4: Climate Change Throughout Earth's History	UNIT 5: Human Decision Making	UNIT 6: Earth's Oceans and Coastal Systems
TOPIC: Solar System	TOPIC: Early Solar System, Orbital Motion, and Origin of the Universe	TOPIC: Earth's Interior: Waves, Energy and Risk	TOPIC: Coevolution of Climate and Life	TOPIC: Human Sustainability	TOPIC: Earth's Oceans and Coastal Systems
PES: HS-ESS1-1 HS-ESS1-3 HS-ESS1-4: Kepler's first and third laws (but not collisions)	PES: HS-ESS1-2 HS-ESS1-4: Changes in orbit due to gravitational forces and collisions, and Kepler's second law HS-ESS1-6 HS-ESS2-5: Role of erosion in erasing the evidence of crater impacts on earth	PES: HS-ESS2-1 HS-ESS2-3 HS-ESS1-5 HS-ESS3-1: Natural hazards and natural resources have influenced human activity HS-ESS2-5: Water lowers the melting point of rocks allowing for movement in mantle	PES: HS-ESS2-2: Concepts around climate feedback HS-ESS2-4 HS-ESS2-6 HS-ESS2-7 HS-ESS3-6 HS-ESS2-5: Water's ability to store, absorb and release huge amounts of energy DCIs: ESS2.C	PES: HS-ESS2-2: interactions between systems (ex. loss of vegetation increases erosion) HS-ESS3-2 HS-ESS3-3 HS-ESS3-4 HS-ESS2-5: Water's role in weathering and erosion that leads to landslides HS-ESS3-1: Changes in climate have influenced human activity	PES: HS-ESS4-1: Ocean circulation and climate HS-ESS4-2: Ocean circulation and climate HS-ESS4-3: Ocean circulation and climate HS-ESS4-4: Ocean circulation and climate HS-ESS4-5: Ocean circulation and climate HS-ESS4-6: Ocean circulation and climate HS-ESS4-7: Ocean circulation and climate HS-ESS4-8: Ocean circulation and climate HS-ESS4-9: Ocean circulation and climate HS-ESS4-10: Ocean circulation and climate HS-ESS4-11: Ocean circulation and climate HS-ESS4-12: Ocean circulation and climate HS-ESS4-13: Ocean circulation and climate HS-ESS4-14: Ocean circulation and climate HS-ESS4-15: Ocean circulation and climate HS-ESS4-16: Ocean circulation and climate HS-ESS4-17: Ocean circulation and climate HS-ESS4-18: Ocean circulation and climate HS-ESS4-19: Ocean circulation and climate HS-ESS4-20: Ocean circulation and climate HS-ESS4-21: Ocean circulation and climate HS-ESS4-22: Ocean circulation and climate HS-ESS4-23: Ocean circulation and climate HS-ESS4-24: Ocean circulation and climate HS-ESS4-25: Ocean circulation and climate HS-ESS4-26: Ocean circulation and 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climate HS-ESS4-98: Ocean circulation and climate HS-ESS4-99: Ocean circulation and climate HS-ESS4-100: Ocean circulation and climate
🔄 Revised from Transitional ✓ Field Tested Fall, '18	✳️ New Unit	🔄 Revised from Transitional ✳️ Not yet written	✳️ New Unit	✳️ New Unit	✳️ New Unit ✓ Field Tested Spring, '18



Class Requirements

1. To be a member of this class, you and your parent/guardian will be asked to read and sign a contract. This document contains classroom grading policies as well as expectations for the course. It is crucial that your classroom policies and make your best effort to do well in the classroom.
2. All students must have an account on Microsoft Teams and on Schoology.
3. Your course material, assignments and the gradebook will be maintained in weekly folders in Schoology.
4. Furthermore, it is required that you maintain a notebook part of class participation. Credits will be given for well-maintained grade class notebooks for each grading period. Each day, “bell work (Do-Now” will be assigned and completed at the beginning of class. I will periodically be checking to see that you 1) have your notebook OR binder in your possession and 2) that you are regularly completing the “bell work” assignments.

Classroom Policies

All students are required to follow classroom policies. You earn daily 50 points for your best effort to learn well.

1. Do not bring food or drinks to the classroom. Do not eat or drink in the classroom.
2. Do not use the cell phone without the teacher's permission.
3. Pay attention to the lesson.
4. Try your best effort to learn.
5. Participate Actively
6. Ask questions.

COURSE MATERIAL/ASSIGNMENTS/TESTS AND THE GRADEBOOK ARE MAINTAINED IN SCHOOLGY

STUDENT EVALUATION

The grading system for the Next Gen Earth Science Course at East English Village Preparatory Academy is as follows:

Attendance & Class Participation Compliance -20% Daily participation timely effort -20%	40%
Tests, Quizzes The midterm and/or final exam will constitute the remaining 50% of your Test grades per semester.	40%
Assignments, Projects, Notebook INCLUDES CK-12 ASSIGNMENTS	20%
Citizenship Extra Credit VOLUNTEERING, FOLLOW RESPECTFUL GUIDELINES	10%

Daily 50 points	
Compliance <ul style="list-style-type: none"> • No food or drinks. • No cell phone use without permission. • No disruptions to the classroom routine. 	20
Right effort and completion lesson tasks	30

Attendance Policy

Regular and prompt class attendance is an essential part of the educational experience. EEVPA expects students to exercise good judgment regarding attendance and absences. Students will accept full responsibility for ensuring their work does not suffer because of absences. All students are expected to attend every scheduled class on time. Exceptions may be made for illness and valid emergencies.

Plagiarism, Cheating, and Academic Integrity

Plagiarism is the practice of copying words, sentences, images, or ideas for use in written or oral assessments without giving proper credit to the source. Cheating is defined as the giving or receiving of illegal help on anything that has been determined by the teacher to be an individual effort. Both are considered serious offenses and will significantly affect your course grade. Please refer to the Student Code of Conduct booklet for additional information.

Methodology

A combination of lectures, class discussion, presentations, videos, cooperative learning, and problem-based learning will be used in this course. Grades will be determined by the satisfactory and timely completion of assignments. The grade of each assignment is based on the prerequisite given for each assignment. Below is an overview of topic/ units and major assessments/assignments for this course. Please note dates/timeframes are subject to change and are an estimate.

General Information

Bathroom Pass Policy:

Make sure to regular requests for bathroom passes. Do not take more time than necessary to use bathrooms. You are expected to return to the class in 5 minutes after receiving a bathroom pass. Violations of the bathroom pass policies will result in log entries and denial of your future requests. No passes are given during the first 15 and last 15 minutes of the class hour.

Textbook:

We use the New Vision workbooks provided by the School District. In addition, CK-12 Earth Science for Middle School FlexBook® covers core earth science concepts and includes PLIX, real world examples, videos, and study guides.

https://flexbooks.ck12.org/cbook/ck-12-middle-school-earth-science-flexbook-2.0/?_g=1*1titnac*_ga*NTg0MjE3NTQ0LjE2ODAxNzcyMDI.*_ga_7PBE4L0PZZ*MTY5MzE3ODIyNi4xMTAuMS4xNjkzMTc4MjY2LjAuMC4w

Good, better, best, will never do you rest; until your good is better, until your better is best. Let's do our best this semester and have some fun!