

SUNY Broome General Education
Course Revision Form (For Current Gen Ed Courses)

I. Course Information/Signature Page

Date: **4/15/2021**

Course Title: **PHS 116 Energy and the Environment**

Proposed Course Title (only for courses proposing new titles through Curriculum Committee):

NA

Department/Subject Designator: **Physical Science**

Number credits: **4**

Pre-requisites/Co-requisites: **NA**


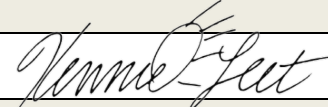
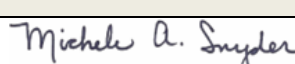

Sponsor Proposer: **Erin Heard**

Sponsor Department(s): **Physical Science**

Cross-listed proposer (if applicable): **NA**

Cross-listed department (if applicable): **NA**

Effective semester/year of Proposed GE Addition: **Spring 2022**

Approvals		Yes	No
Sponsoring Department: (Chair signs for Department) Physical Sciences		Date 10/7/2021	<input checked="" type="checkbox"/>
Comments:			
Department Chair: Kennie Leet		Date 10/7/2021	<input checked="" type="checkbox"/>
Comments:			
Sponsoring Division: (Dean signs for Division)		Date 11/1/21	<input checked="" type="checkbox"/>
Comments:			
Cross-listed Department (if applicable): (Chair signs for Department)		Date	
Comments:			
Cross-listed Division (if applicable): (Dean signs for Division)		Date	
Comments:			
These signatures will be obtained upon approval of the revisions to the General Education course			
General Education Committee: (Chair signs for Committee)		Date 12/10/21	<input checked="" type="checkbox"/>
Comments:			
Registrar:		Date	
Comments:			
EVP/CAO:		Date	
Comments:			

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SUNY Broome General Education Course Assessment Map & Plan
SUNY Broome GE Course SLO Alignment with SUNY-GER Course Alignment/SUNY Broome ILOs

Course Title and Number: Please list the course number and title here: *PHS 116: Energy and the Environment*

Course Modalities: Please list the modalities which the course is offered (in class, online, blended, Fast Forward). Please note, you are expected to assess across all modalities in which your course was offered at the time of assessment during your assessment schedule. *In class, online*

SUNY-GER Category: Please list the SUNY-GER category here by number (see below): 2

SUNY GER Learning Outcomes: Please list the outcomes from the knowledge area to be covered here (please review Guidelines for the approval of State University Gen Ed Requirement Courses). Each outcome within the knowledge area proposed must be included and mapped to SUNY-GER learning outcomes.

Students will demonstrate:

1. understanding of the methods scientists use to explore natural phenomena, including observation, hypothesis development, measurement and data collection, experimentation, evaluation of evidence, and employment of mathematical analysis
2. application of scientific data, concepts, and models in one of the natural (or physical) sciences

Assessment Schedule: Please list the assessment schedule here, including semester and year it will occur; if assessment is done each semester, please indicate this.
Each semester

Which SUNY Broome ILO category do you believe your course maps to, if any? ____4____

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SUNY Broome Course SLO (<u>every</u> course SLO should be listed, as stated within the college catalogue & course syllabus)	SUNY-GER SLO (indicate which GER SLO is met; if none, write N/A)	Assessment Timeline (indicate the frequency in which assessment occurs, including semester and year within assessment cycle) *All SLOs must be assessed at least once every 3 years	Learning Activity (indicate the learning activity used to assess the SLO)	Criteria for Success/Benchmark (indicate the <u>criteria</u> used to assess SLOs & the <u>benchmark</u> for success)
1. Identify steps in the scientific method used to explore phenomena in the earth sciences	1	1 time/ year	Pre/Post Blackboard Quiz	Criteria: correct answer Benchmark:60% of students improved mean score from the pre test
2. Demonstrate the ability to read, analyze, and interpret scientific data as it relates to climate and energy use	2	1 time/ year	Pre/Post Blackboard Quiz	Criteria: correct answer Benchmark:60% of students improved mean score from the pre test
3. Describe how energy and nutrient cycles work on Earth	2	1 time/ year	Pre/Post Blackboard Quiz	Criteria: correct answer Benchmark:60% of students improved mean score from the pre test
4. Discuss pollution sources related to energy production	2	1 time/ year	Pre/Post Blackboard Quiz	Criteria: correct answer Benchmark:60% of students improved mean score from the pre test
5. Describe energy consumption in various sectors of society	2	1 time/ year	Pre/Post Blackboard Quiz	Criteria: correct answer

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				Benchmark:60% of students improved mean score from the pre test
6. Describe methods for energy production using fossil fuels and alternatives, including positive and negative aspects of each	2	1 time/ year	Pre/Post Blackboard Quiz	Criteria: correct answer Benchmark:60% of students improved mean score from the pre test
7. Describe energy use on a personal, federal, and global scale	2	1 time/ year	Pre/Post Blackboard Quiz	Criteria: correct answer Benchmark:60% of students improved mean score from the pre test
8. Discuss current and future trends in energy production and consumption	2	1 time/ year	Pre/Post Blackboard Quiz	Criteria: correct answer Benchmark:60% of students improved mean score from the pre test