



Council on Undergraduate Education 2022-2023

11 November 2022
 Meeting hosted via Zoom
 1:30pm-3:00pm

Call to Order 1:30pm

Welcome and Introductions Chair Darby Orcutt
 Remarks and Updates from OUCCAS/DASA
 Presentation by David Tully from libraries Open Resources
 Approval of CUE 28 October 2022 Minutes

New Business

Consent Agenda		
GEP Category	GEP Action	Notes
HUM & GK	CLA 320 Masterpieces of Classical Literature	No changes to GEP
VPA & HES	DAN 260 Hip-hop Dance	Removed USD
GK	GRK 202 Intermediate Greek II	No changes to GEP

Review Courses for GEP				
Presenter	Reviewers	GEP Category Under review	GEP Action	Notes
Reaser	Moore, El-Shafei, Domingue	USDEI	ANT 254 Language and Culture	Previously approved for SS and USD
Reaser	Miller, Opperman, Domingue	USDEI	ENG/WGS 410 Studies in Gender and Genre	Previously approved for HUM and USD
Reaser	Morant, El-Shafei, Russo	USDEI	REL 323 Religious Cults, Sects, and Minority Faiths in America	Previously approved for HUM and USD
Behler	Xiang, Miller, Domingue	USDEI, USD	FL/ECI 436/536 Perspectives on English as a New language	Previously approved for USD
Behler	Moore, Opperman, McKenney	USDEI	HI 369 Sexuality in U.S. History	Previously approved for HUM and USD
Leaf	Russo, Morant, McKenney	USDEI & VPA	MUS 210 Introduction to Popular Music: 1950s-1970s	Removing USD, previously approved VPA
Leaf	Miller, Lubischer, El-Shafei	USDEI & VPA	MUS 211 Introduction to Popular Music: 1980s-Present	Removing USD, previously approved VPA
Leaf	Russo, Opperman, El-Shafei	USDEI	THE 340 African American Theatre	Removing USD
Pacifici	Xiang, Moore, Morant	USDEI & IP	ENV 250 Diversity and Environmental Justice	Previously approved for USD

Special Topics/HON Course Offerings				
Presenter	Reviewers	GEP Category Under review	GEP Action	Notes
Lubischer	Xiang, Russo, Pacifici	NS	NSGE 295 The Science of Water	1 st Offering, Eff. Spring 2023

Discussion: Activities for Open Resources

Notes:

- All linked course actions are viewable in CIM.
- To view actions, please click on the hyperlink. You may need to use your Unity ID to log in.
- If you experience issues logging in, please go to <https://next-catalog.ncsu.edu/courseadmin/> and type the course prefix and number into the search bar.

GEP Natural Sciences Special Topic Shell Offering (NSGE 295)

This form is to be used for submitting a Special Topics shell offering for the Natural Sciences GEP category to the Council on Undergraduate Education (CUE)

Course action proposals for a GEP shell offering must provide documentation to show how the course is designed to enable a student to achieve the particular GEP category objectives.

The ***GEP Natural Sciences objectives*** will provide instruction and guidance that help students to:

1. Use the methods and processes of science in testing hypotheses, solving problems and making decisions.
2. Make inferences from and articulate, scientific concepts, principles, laws, and theories, and apply this knowledge to problem solving.

NSGE 295

Department(s)/Program	Biological Sciences	New GEP Special Topics Offering	<input checked="" type="checkbox"/>	
Special Topic Title: <small>(30 character limit)</small>	The Science of Water	Review for 2nd Offering	<input type="checkbox"/>	
Term to be Offered	Spring 2023			
Instructor Name/Title	Terry "Bucky" Gates			

SECTION 1: GEP CRITERIA

Instructions:

- At least one of the Instructor's student learning outcomes must be listed under each GEP category objective.
- Achievement of the outcomes must allow students to meet the GEP category objectives.
- Outcomes must illustrate what students will do in order to demonstrate they have achieved the outcome.
- At least one means of evaluation must be listed under each outcome and provide data to allow the instructor to judge how well students have achieved outcomes.
- Student learning outcomes that are relevant to the GEP category objectives must be applied to all course sections.
- For assistance with writing outcomes and list of active verbs using *Bloom's Taxonomy* [[Click Here](#)]

List the Instructor's student learning outcomes for the course that are relevant to GEP *Natural Sciences Objective 1*:

Obj. 1) Use the methods and processes of science in testing hypotheses, solving problems and making decisions.

Apply a scientific approach and an understanding of the thermodynamics of water to explore concepts related to sea level rise.

Measure(s) for above Outcome:

Describe the assessments that will be used to determine if students have achieved the outcome. Including a relevant example assignment/question/prompt is encouraged for clarity.

Students will make a small island from playdoh in a shallow basin, then fill with water to make an island. A block of ice will be positioned to melt into the basin. Students will take measurements necessary to hypothesize the rise in sea level on their island. Then they will melt the ice, mark the rise in actual water level and compare with the predicted water level, after which students will heat their basins to observe the effect of thermal expansion. Throughout, students will monitor the temperature of their water system, writing data in a table. They will submit a written report of the initial set up (e.g., island characteristics, the amount of initial water, etc), the result after ice melting, and the result after heating. Students will describe how topography affected the island flooding behavior, as well as apply their observations to reflect on the impact of the current global warming crisis for islands.

List the Instructor's student learning outcome(s) for the course that are relevant to GEP *Natural Sciences Objective 2*:

Obj. 2) Make inferences from and articulate, scientific concepts, principles, laws, and theories, and apply this knowledge to problem solving.

Apply knowledge of the physical characteristics of water in different states and their consequent effects to predict ecological and anatomical constraints in evolutionary theory

Measure(s) for above Outcome:

Describe the assessments that will be used to determine if students have achieved the outcome. Including a relevant example assignment/question/prompt is encouraged for clarity.

Students will examine the anatomy of fish, early land vertebrates, and fully land vertebrates. After making many observations about the required transition from living in the water to living on land, students will present a hypothetical transition from land to water using mammals and ancient reptiles as exemplars. In the presentation, they will compare their hypothetical transitions with several case studies from the fossil record. The final assessment will require them to compare their hypothesis to the real evolutionary changes of organisms from land to water to determine if they made appropriate predictions of how the problem of transitioning from land to water might be solved.

SECTION 2: REQUISITES AND SCHEDULING

General guidelines:

- ☐ GEP Courses should have at least 25% of seats non-restricted (i.e. available to all students).
- ☐ GEP Courses should have no more than ONE pre-requisite.
- ☐ GEP Special Topics are approved as a one-term offering.
- ☐ The course syllabus for all sections must include the GEP *Natural Sciences* category designation and GEP student learning outcomes.

Special Topics Term Scheduling:

- List below the course scheduling detail: **Already scheduled as BSC 295 057**
 - Meeting time and day(s): **MW 3:00 – 4:15**
 - Seat count: **85**
 - Room assigned or room preference including needed classroom technology/seat type: **COX 110**
- If this course is to be piggy-backed with a department special topic, list the piggy-backed course prefix/number below. (EX: BIO 295 with NSGK 295) **BSC 295 057**

What percentage of the seats offered will be open to all students? 100 %

- a. If seats are restricted, describe the restriction being applied.
- b. Is this restriction listed in the course catalog description for the course?

List all course pre-requisites, co-requisites, and restrictive statements (ex: Jr standing; Chemistry majors only). If none, state none.

None

List any discipline specific background or skills that a student is expected to have prior to taking this course. If none, state none. (ex: ability to analyze historical text; prepare a lesson plan)

None

SECTION 3: ADDITIONAL INFORMATION

Complete the following 3 questions or attach a syllabus that includes this information.

1. Title and author of any required text or publications.

No required textbook

2. Major topics to be covered and required readings including laboratory and studio topics.

See below for list of Topics

3. List any required field trips, out of class activities, and/or guest speakers.

Guest speakers are being recruited now – if you are interested, please contact Dr. Gates. Also, why do you need this information? (Knowing the reason might help us provide more helpful information.) No required field trips or out of class activities other than assignments that are completed out of class.

	Topic(s)		
Diving Deep Into Water (January 9 - February 8, 2023)			
	1 Course Introduction		
	2 Molecular structure of water		
	3 Steam, water, ice!		
	4 Solid Water		
	5 Liquid water in depth		
	6 Steaming Through Gas Water		
	7 Power of Water (Electricity)		
	8 Energy...water with mass produces hydroelectric power and wave electric power		
	9 Water Map 1		
Elixir of Life (February 13 - March 22, 2023)			
	10 Water in the Chemistry of Life		
	11 Marine Ecosystems 1		
	12 Lab at the pool		
	13 Marine Ecosystems 2		
	14 Marine Ecosystems 3		
	15 Walking out of Water; Terrestrial Ecosystems		
	16 Surface Tension		
	17 Geology and Water		
	17		
	18 Water Map 2		
Out of the Frying Pan and Into the Freezer (March 27 - April 24, 2023)			
	19 Climate system 1		
	20 Greenhouse Effect Lab		
	21 Climate system 2		
	22 Glaciers		
	23 Glacier Sea Level Rise Lab		
	24 Water as a humanitarian crisis		
	25 Space Influence on Earth Water		
	26 Water Outside Earth		
	27 Water Map 3		

SIGNATURE PAGE FOR NSGE 295

RECOMMENDED BY:

HEAD, DEPARTMENT/PROGRAM  DATE 10/26/22

**For GEP Special Topics Submission Form, follow the standard workflow for approval of a special topic offering in your College which may or may not include review by the College CCC.*

ENDORSED BY:

CHAIR, COLLEGE COURSES & CURRICULA COMMITTEE _____ DATE

COLLEGE DEAN _____ DATE

APPROVED BY:

CHAIR, COUNCIL ON UNDERGRADUATE EDUCATION _____ DATE

DEAN, DIVISION OF ACADEMIC AND STUDENT AFFAIRS (DASA) _____ DATE

APPROVED EFFECTIVE DATE _____



Council on Undergraduate Education 2022-2023

28 October 2022
Meeting hosted via Zoom
1:30pm-3:00pm

Members Present:

- | | | |
|---|--|---|
| <input type="checkbox"/> Chair Darby Orcutt (Chair) | <input checked="" type="checkbox"/> Steven Miller | <input type="checkbox"/> Ahmed El-Shafei |
| <input checked="" type="checkbox"/> Qiuyun (Jenny) Xiang | <input checked="" type="checkbox"/> Nancy Moore | <input checked="" type="checkbox"/> Nathan Leaf |
| <input checked="" type="checkbox"/> Erin McKenney (Interim Chair) | <input checked="" type="checkbox"/> Tamah Morant | <input checked="" type="checkbox"/> Peggy Domingue |
| <input checked="" type="checkbox"/> Jeffrey Reaser | <input checked="" type="checkbox"/> Lara Pacifici | <input checked="" type="checkbox"/> Dave Provost |
| <input type="checkbox"/> Anna Behler | <input checked="" type="checkbox"/> Logan Opperman | <input type="checkbox"/> Christopher DePerno |
| <input checked="" type="checkbox"/> Marc Russe | <input checked="" type="checkbox"/> Jane Lubischer | <input checked="" type="checkbox"/> Riley Edmondson |

Guests: Carol Ann Lewald

Ex-Officio Members Present: Li Marcus, Lexi Hergeth, Mukund Vora, Annabel Breen, Kaitlyn Mittan, Bret Smith, Erin Dixon

Absent: Chair Darby Orcutt, Anna Behler, Ahmed El-Shafei, Christopher DePerno

WELCOME AND INTRODUCTIONS

- **Remarks from Chair Temp Erin McKenney** – No updates/remarks were shared.
- **Remarks and Updates from OUCCAS/DASA** – No updates/remarks were shared.
- **Approval of the CUE Minutes from 14 October 2022 - Approved**
Discussion: Move to approve the minutes by Nathan Leaf.

NEW BUSINESS

Consent Agenda – Approved

Discussion: The consent agenda was moved to approve by Jane Lubischer.

Review Courses for GEP

- **MUS 350 : Music of Asia (VPA, GK, IP) – Approved.**
Discussion: This course was presented by Nathan Leaf. No objections were shared.

Special Topic Shell Offering

- **Sociology of Barbecue (SS, USD) – Approved**
Discussion: This course was presented by Jeffrey Reaser. The members brought attention to this being a good example of a course not using the same verbs verbatim from the objectives.

*Member mentioned this is an excellent example of the alignment, but had a point of consideration that this was only good for this year. The guest reminded the committee that USDEI is not an option until Fall 2023 at which point a new offering would need to be proposed.

Discussion:

In the past, CUE has offered labs to cover the topic of language; Interim Chair asked the committee if they would like to see some of these labs be offered again. The committee responded positively in the chat and Lexi will be sending out information regarding those labs.

Committee members thanked the Interim Chair for standing in for Chair Darby Orcutt.

Meeting adjourned at 1:44 PM

Respectfully submitted by Annabel Breen