

Student Learning Outcome 1

Graduates in Environmental Science (ES) will have knowledge and skills in the basic understanding of current and historical environmental issues that apply to air, soil, and water at the regional, national, and global scales.

Outcome 1: Assessment Measure 1

Class:	Soil, Water & Air Pollution (NRE 472)
Course Mode:	Face-to-Face
Assignment:	Class project in NRE 472
Evaluation Tool:	Grading Rubric: Each project paper includes two sections: term paper (70 points), and class presentation (30 points)
Performance Target:	At least 70% of all submitted projects will score 50 points or higher on paper and 22 points or higher on presentation

Results:	
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Use of Results:	
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Outcome 1: Assessment Measure 2

Class:	Soil, Water & Air Pollution (NRE 472)
Course Mode:	Face-to-Face
Assignment:	Final exam for NRE 472 (3 out of the 4 questions)

Evaluation Tool:	
	Exam Grading Rubric. Each question is worth 5 points
Performance Target:	At least 80% of the submitted exams will answer 3 out of the 4 questions correctly.
Results:	
Use of Results:	

Student Learning Outcome 2	
Graduates in ES will have skills to apply basic mapping and geospatial analysis in the context of environmental science.	
Outcome 2: Assessment Measure 1	
Class:	Introduction to GIS (NRE 365)
Course Mode:	Face-to-Face
Assignment:	Class Project
Evaluation Tool:	Rubric: Each project includes three components, group functionality (5 points), technical geospatial skills (60 points), presentation (35 points).
Performance Target:	At least 70% of all submitted projects will score 3.5/5 on group, 50/60 on technical skills and 25/35 on presentation.
Results:	
Use of Results:	
Outcome 2: Assessment Measure 2	
Class:	Technology in Agricultural and Biological Sciences (NRE199)
Course Mode:	Face-to-Face
Assignment:	GIS assignment
Evaluation Tool:	Rubric: Assessment has two components understanding of GIS, ability to create and make an informed evaluation of a map. Each component evaluated on a 0-20 points scale.
Performance Target:	80% of assessment submitted GIS assignments will score more than 15/20 on the assignment
Results:	
Use of Results:	

Student Learning Outcome 3	
Graduates in ES will be proficient at a broad range of skills and techniques required to design a project, collect data, analyze, and disseminate results that solve environmental problems.	
Outcome 3: Assessment Measure 1	
Class:	Soil, Plant, and Water Analysis (NRE 470)
Course Mode:	Face-to-Face
Assignment:	Lab Report
Evaluation Tool:	Rubric: Lab report assessment has two components: understanding operational theory and principles of the lab analysis (50 points); and demonstrating the ability to present analytical results in a thorough,
Performance Target:	At least 70% of submitted lab report will score 7.5/10 in both components
Results:	
Use of Results:	
Outcome 3: Assessment Measure 2	
Class:	Enviromental Microbiology with Lab
Course Mode:	Face-to-Face
Assignment:	Class Project-CURE (Course Based Undergraduate Research)
Evaluation Tool:	Rubric: (Lab 35% of total grade) 100 pts Lab Notebook; 100 pts Written comprehensive overview of labs; 50 pts Poster Development

Performance Target:	At least 60% of lab notebooks will score 75 pts and above, 60% of the written overview of labs will score 75 pts or above and 75% of the poster will score over 40 pts on development
Results:	
Use of Results:	

Program Outcome 1	
The ES program will provide students with technical and analytical skills that will enable them to find employment in federal and state agencies as well as, private and industrial consulting firms or get admitted to graduate school	
Assessment Measure:	1. Employment rates 2. Number of students accepted to graduate school within two years of graduation
Assessment Target:	1. 70% of the students will be offered employment within two years of graduation 2. 30% of students successful in entering graduate school
Assessment Results:	
Use of Results:	
Program Outcome 2	
Increase enrollment in the ES Program	
Assessment Measure:	Number of students enrolled in ES degree program.
Assessment Target:	The beginning of each academic year enrollment of students will increase by 5%.
Assessment Results:	

Use of Results:	
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***Evidence of Improvements Implemented for Performance Targets Not Met in 2018-19
for the Environmental Science Program***

Student Learning Outcome 1: Assessment Measure 1

Course: Soil, Water & Air Pollution (NRE 472)

Evaluation Tools: Final exam for NRE 472 (3 out of the 4 questions).

Performance Target: At least 80% of the submitted exams will answer 3 out of the 4 questions correctly.

Performance Results: 67% (8 out of 12) of the submitted exams scored at least 7/10 by answering 3 out of the 4 questions correctly.

Performance Targets not Met: target was 80% of exams and result was 67% of exams

Evidence of Improvements Implemented:

Couse is taught in the Spring and by spring 2020 there will be evidence of improvement in in change in teaching method to include more exam review sessions that address exam question answering skills.

Program Outcome 2: Increase enrollment in the ES Program

Assessment Measures: Number of students in the program.

Assessment Target: The beginning of each academic year enrollment of students will increase by 5%.

Assessment Results: Between 2017/18 and 2018/2019 there are 3 less students in the ES program

Use of Results: Working to identity students early, an have them declare the major as freshmen. Also a focus on transfer students and building relationship with local community colleges.

Evidence of Improvements Implemented: Please see submitted recruitment committee report