



COURSE OUTLINE: CCM204 - CAPSTONE

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Approved: Karen Hudson, Dean, Community Services and Interdisciplinary Studies

Course Code: Title	CCM204: CLIMATE CHANGE MITIGATION CAPSTONE	
Program Number: Name	5250: CLIMATE CHANGE MIT.	
Department:	NATURAL RESOURCES PRG	
Academic Year:	2024-2025	
Course Description:	In this course, students will use accumulated knowledge to do a needs or gap assessment to identify a current climate change issue. Once identified, the topic will be researched thoroughly using the literature, focus groups, and consultation with subject matter experts. A thorough analysis of the issue will be required, and the students will develop an in-depth plan to respond to the problem.	
Total Credits:	3	
Hours/Week:	3	
Total Hours:	42	
Prerequisites:	There are no pre-requisites for this course.	
Corequisites:	There are no co-requisites for this course.	
Vocational Learning Outcomes (VLO's) addressed in this course:	5250 - CLIMATE CHANGE MIT.	
Please refer to program web page for a complete listing of program outcomes where applicable.	VLO 1 Design and implement resource surveys and sampling programs, including statistical analysis of environmental data to support climate change analysis.	
	VLO 2 Interpret and apply international, national and regional level environmental and climate policy to support mitigation and adaptation strategies.	
	VLO 5 Assess potential environmental threats to human health and natural systems due to climate change and propose adaptive strategies to address them.	
	VLO 6 Apply an integrated ecosystem management approach to climate change to balance mitigation, intervention and adaptation strategies.	
	VLO 7 Assess and address the impacts of natural disturbances on various watershed processes in forests, hillside slopes, and crown land.	
	VLO 8 Facilitate stakeholder engagement and collaboration, across various levels and branches of government and the community to secure support for various initiatives.	
	Essential Employability Skills (EES) addressed in this course:	EES 1 Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.
		EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication.
	EES 3 Execute mathematical operations accurately.	
	EES 4 Apply a systematic approach to solve problems.	
	EES 5 Use a variety of thinking skills to anticipate and solve problems.	
	EES 6 Locate, select, organize, and document information using appropriate technology	



- and information systems.
- EES 7 Analyze, evaluate, and apply relevant information from a variety of sources.
- EES 8 Show respect for the diverse opinions, values, belief systems, and contributions of others.
- EES 9 Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals.
- EES 10 Manage the use of time and other resources to complete projects.
- EES 11 Take responsibility for ones own actions, decisions, and consequences.

Course Evaluation:

Passing Grade: 50%, D

A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.

Other Course Evaluation & Assessment Requirements:

Academic success is directly related to attendance. Missing more than 1/3 of the course hours in a semester shall result in a F grade for this course.

Course Outcomes and Learning Objectives:

Course Outcome 1	Learning Objectives for Course Outcome 1
1. Demonstrate research methodologies and develop proposals	1.1 Identify and differentiate between qualitative and quantitative research methods used in climate science. 1.2 Formulate focused research questions using the FINER framework. 1.3 Design comprehensive research proposals that outline appropriate data collection methods and justify the choice of methodologies.
Course Outcome 2	Learning Objectives for Course Outcome 2
2. Collect data and analyze statistics	2.1 Develop survey instruments that gather relevant data while minimizing bias. 2.2 Conduct field data collection activities adhering to ethical standards. 2.3 Utilize excel to perform basic analyses of collected data and interpret results in the context of climate change mitigation strategies.
Course Outcome 3	Learning Objectives for Course Outcome 3
3. Evaluate climate change policies and formulate recommendations	3.1 Analyze the implications of existing climate policies on local and global scales and assess the effectiveness of various climate mitigation strategies based on empirical evidence. 3.2 Formulate evidence-based policy recommendations and propose actionable plans for community engagement in climate initiatives.
Course Outcome 4	Learning Objectives for Course Outcome 4
4. Collaborate effectively and communicate findings	4.1 Work effectively in teams to address complex climate change challenges, participate actively in group discussions, and resolve conflicts constructively. 4.2 Prepare and deliver effective presentations on research findings, write clear reports that synthesize research outcomes, and engage diverse audiences in discussions about climate



change issues.

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
Assignments	45%
Final Presentation	20%
Final Project	35%

Date:

January 2, 2025

Addendum:

Please refer to the course outline addendum on the Learning Management System for further information.

