COURSE OUTLINE: ESA202 - PROJ MGMT FOR ENVIRO

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Course Code: Title	ESA202: PROJECT MANAGEMENT FOR THE ENVIRONMENT
Program Number: Name	5255: ENV. SUSTAINABILITY
Department:	NATURAL RESOURCES PRG
Academic Year:	2023-2024
Course Description:	This course will introduce students to project management principles, including project life cycle, scope, schedule and cost. By combining theory with application, students will learn when, where, and how to use the most effective project management resources for each project.
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: Please refer to program web page for a complete listing of program outcomes where applicable.	**5255 - ENV. SUSTAINABILITY** VLO 8 Apply principles of project management and leadership to complete projects on time and within scope. VLO 9 Develop and implement an interdisciplinary perspective to evaluate goals, objectives, and strategies for approaching environmental problems. VLO 10 Apply principles and practices of community and industry development to increase resiliency, innovation and transformation toward greater sustainability.
Essential Employability Skills (EES) addressed in this course:	EES 4 Apply a systematic approach to solve problems. EES 5 Use a variety of thinking skills to anticipate and solve problems. EES 7 Analyze, evaluate, and apply relevant information from a variety of sources. EES 10 Manage the use of time and other resources to complete projects.
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 linked to attendance. Missing more than 1/3 of the course hours in a semester shall result in a F Grade for this course.
Books and Required Resources:	Essentials of Project Management by Adam Farag Edition: 1.1 Open Education Resources, links supplied by Professor

Course Outcomes and Learning Objectives:	Course Outcome 1	Learning Objectives for Course Outcome 1
	Identify components and steps of all project phases, including the project initiation, planning, execution, control, monitoring, and closure of a project.	1.1 Review the life cycle for a typical waterfall vs. agile project. 1.2 Analyze a work-breakdown structure. 1.3 Determine how development of a project portfolios can assist with reducing the impact of problems within the organization. 1.4 Describe how each component of a project management life cycle contributes to the development and success of a project.
	Course Outcome 2	**Learning Objectives for Course Outcome 2**
	Construct plans to effectively manage project scope, costs, schedules, and work-breakdown structures.	2.1 Evaluate how scope, schedule and cost impact the successful execution of a project. 2.2 Develop a network diagram and work breakdown structure for a hypothetical project. 2.3 Develop a Gantt Chart using Microsoft Project. 2.4 Analyze a Gantt Chart using Microsoft Project to identify the critical path, requires resources and overall budget for a project.
	Course Outcome 3	**Learning Objectives for Course Outcome 3**
	Using simulations and case studies, develop an understanding of the project life cycle and the importance of proper decision making to ensure successful project delivery.	3.1 Apply the five distinct stages in the Waterfall project life cycle: Initiation, Planning, Execution, Monitoring/Controlling and Closure. 3.2 Apply project management methodologies in groups to respond to issues in a simulated project environment. 3.3 Understand the impact and importance of individual decision making on the performance of the overall project team.
	Course Outcome 4	**Learning Objectives for Course Outcome 4**
	Select tools, techniques and metrics to control all aspects of a project, including project scope, processes, and risk.	4.1 Distinguish the difference between traditional and Agile project management. 4.2 Analyze costs of a project using Earned Value Management (EVM). 4.3 Develop a project charter and create a plan to manage stakeholder engagement and communication. 4.4 Calculate early, late, and slack activity times.

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
Assignments, Case Studies and Simulations	40%
Quizzes	20%
Test #1	20%
Test #2	20%

Date: November 9, 2023

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