COURSE OUTLINE: NET358 - INDEPENDENT STUDY

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Approved: Sherri Smith, Chair, Natural Environment, Business, Design and Culinary

Course Code: Title	NET358: INDEPENDENT STUDY
Program Number: Name	5221: NAT ENVIRONMENT TY
Department:	NATURAL RESOURCES PRG
Semesters/Terms:	20W
Course Description:	This course provides students with an opportunity to develop a variety of advanced skills in the planning, design, implementation, analysis and presentation of a large-scale natural resources project. These skills are achieved by completing all phases of the project including: defining the project question, establishing sampling protocol, collecting data, interpreting data, preparing a report and presenting results.
Total Credits:	3
Hours/Week:	3
Total Hours:	45
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.**	**5221 - NAT ENVIRONMENT TY** VLO 1 Collect, analyze, interpret and report on data from representative biological and environmental samples. VLO 2 Utilize natural resources information technology equipment to assemble, analyze and present identified ecosystem components for purposes of conserving and managing natural resources. VLO 3 Apply the basic concepts of science to natural resource conservation and management. VLO 4 Plan, design, implement and participate in the maintenance of natural environment assessments. VLO 7 Ensure all work is safely completed in adherence to occupational health and safety standards. VLO 9 Provide ongoing support for project management. VLO 10 Communicate technical information accurately and effectively in oral, written, visual and electronic forms. VLO 11 Develop and present strategies for ongoing personal and professional development to enhance performance as an environmental technologist.
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 4 Apply a systematic approach to solve problems. EES 5 Use a variety of thinking skills to anticipate and solve problems.

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	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 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
Other Course Evaluation & Assessment Requirements:	Academic success is directly linked to attendance. Missing more that 1/3 of the course hours in a semester shall result in an `F` Grade for the course.

Course Outcomes and Learning Objectives:

Course Outcome 1	**Learning Objectives for Course Outcome 1**
1. Demonstrate the ability to manage a large project.	1.1 Identify and schedule project time lines 1.2 Identify a clear and achievable reporting objective or hypothesis 1.3 Determine equipment and staffing required to complete the project 1.4 Develop data sheets and field procedures 1.5 Establish criteria for selecting sample sites 1.6 Determine the appropriate report format to meet the requirements of the agency 1.7 Prepare an overall plan for completing all aspects of the project
Course Outcome 2	**Learning Objectives for Course Outcome 2**
2. Demonstrate the ability to implement all the components of a large project.	2.1 Complete the various activities identified in the project plan including: meetings, field and/or lab work, data summation and analysis, report preparation and presentation 2.2 Coordinate the activities of any individuals which may be under your direction 2.3 Organize and facilitate appropriate meetings as required 2.4 Learn new skills as required to complete the project 2.5 Conduct a thorough literature search of the subject of the subject of study
Course Outcome 3	**Learning Objectives for Course Outcome 3**
3. Demonstrate the ability to compile and analyze the results of the project.	3.1 Enter all data collected onto appropriate software 3.2 Summarize data in a statistical format 3.3 Compile and present data as appropriate tables and figures 3.4 Relate the results to other works as determined by the literature search
Course Outcome 4	**Learning Objectives for Course Outcome 4**
4. Demonstrate the ability to the present the results of the project in both written and oral format.	4.1 Prepare a technical report that summarizes the relevance of the project, the procedures used to determine results and the significance of the findings of the project 4.2 Prepare and present an academic poster of the project results

Evaluation Process and Grading System:

Evaluation Type	**Evaluation Weight**

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Data Analysis	20%
Data Collection	30%
Final Report	20%
Literature Search	10%
Presentation	10%
Project Plan	10%

Date:	June 19, 2019
Addendum:	Please refer to the course outline addendum on the Learning Management System for further information.