DEREE COLLEGE SYLLABUS FOR:	
ES 4430 ENVIRONMENTAL STUDIES CAPSTONE (SENIOR PROJECT)	**3/0/3**

(Updated Fall 2022)	**UK LEVEL: 6** **UK CREDITS: 15**

PREREQUISITES:	ES1000 Environmental Science: Ecosystems and Biodiversity, ES1010 Environmental Science: Energy Resources and Pollution ES 3240 Integrated Methods of Environmental Analysis I ES 4343 Integrated Methods of Environmental Analysis II
CATALOG DESCRIPTION:	This course is the culmination of the work in Environmental Studies. It is designed to provide students with opportunities to research significant environmental issues from multiple perspectives. It involves a project on an environmental issue/topic of local or national relevance.
RATIONALE:	This is an opportunity for Environmental Studies students to combine all their acquired knowledge in the course of this program and apply them in a specific setting. It provides an opportunity for senior students to demonstrate that they have achieved the learning outcomes of their Environmental Studies program.
LEARNING OUTCOMES:	As a result of taking this course, the student should be able to: 1. Analyze new data and situations without guidance, using a range of techniques appropriate to the project. 2. Demonstrate ability to integrate knowledge from previous courses and to transform concepts and data towards a given purpose. 3. Identify and define complex problems and apply appropriate knowledge and skills to their solution. 4. Develop own criteria of judgment, taking responsibility for own work, while acting autonomously with some supervision or direction. 5. Demonstrate ability to seek and make use of feedback, challenge received opinion and reflect on action. 6. Demonstrate ability to operate in complex and unpredictable contexts, requiring selection and application from a wide range of innovative or standard techniques.
METHOD OF TEACHING AND LEARNING:	In congruence with the learning and teaching strategy of the college, the following tools are used: • Regular meetings with instructor at different stages of the research project in which students receive feedback on their work. Each student is assigned a capstone supervisor depending on the topic selected. (It should be noted that students select the topic and make the proposal for their capstone project in the ES 4343 Integrated Methods in Environmental Analysis II module). • Use of a Blackboard site, where the instructor posts information about the course, notes providing a theoretical background on scientific writing, as well as general guidelines for preparing the project. Online interactive tools (e.g. journal, blog or discussion board) will be used. Instructors will provide feedback and share project-specific material with each individual student through Blackboard. • Independent research: literature review, collection of data and information, critical evaluation, analysis and synthesis.

	• Presentations of student projects and discussion. Students are required to present orally (defend) their capstone project.
ASSESSMENT:	**Summative:** | Research project (6,500 - 7,000 words) • Project paper 85% • Oral defense 15%	100% | |---|---| **Formative:** | Regular meetings with instructor at different stages of research in which a student will receive feedback on his/her work.	0 | The student's research project tests all learning outcomes.
INDICATIVE READING:	**Required Reading:** N/A **Recommended Readings:** Recommended readings will depend on the topic chosen by each student.
INDICATIVE MATERIAL: *(e.g. audiovisual, digital material, etc.)*	**REQUIRED MATERIAL:** N/A **RECOMMENDED MATERIAL:** N/A
COMMUNICATION REQUIREMENTS:	Verbal skills using academic/professional English
SOFTWARE REQUIREMENTS:	Word, PowerPoint, Excel
WWW RESOURCES:	As needed for the selected topic.
INDICATIVE CONTENT:	N/A