

Course unit title:	Senior Project Proposal		
Course unit code:	CE 490		
Type of course unit:	Compulsory		
Level of course unit:	Bachelor (1st Cycle)		
Year of study:	4		
Semester when the unit is delivered:	7 (Fall)		
Number of ECTS credits allocated :	6		
Name of lecturer(s):	Dr. Petros Christou		
Learning outcomes of the course unit:	<ol style="list-style-type: none"> 1. Identify, formulate and solve civil engineering related problems, using established methods. 2. Develop management skills and ability to retrieve, analyse and evaluate information from different sources. 3. Analyze, synthesise, collect, interpret, understand, evaluate and assess information and employ logical thinking to solve an engineering problem. 4. Work autonomously and manage available time. 5. Acquire and summarize new knowledge, develop research skills and also demonstrate oral and written communication skills. 		
Mode of delivery:	Independent project, Regular meetings with advisor		
Prerequisites:	4 th Year status	Co-requisites:	None
Recommended optional program components:			
Course contents:	<p>To satisfy the requirements of the program, students must successfully complete a Final Year Project. This is achieved through a two-semester course sequence (CE490 and CE495) that students must complete during their senior year (last two semesters of their studies). This is an individual project where the students are allowed to choose a topic in the content of Civil Engineering and specifically in the area of Civil Engineering that they are interested in i.e. Structural Engineering, Environmental Engineering, Geotechnical Engineering etc. Normally the decision on the topic is decided after consultation of students with the faculty advisors. In addition the students must form the supervisory committee for the project which consists of the faculty advisor and another two faculty members.</p> <p>With the Senior Project proposal (CE490) course, students must consult with the faculty advisor in order to specify the objectives, decide on the methodology to be followed and a tentative time plan for the successful completion of the project. The supervising committee participates in the assessment of the project.</p> <p>The student, in consultation with his advisor/committee, should conduct the necessary background reading so as to obtain a deep understanding of the problem area and better appreciate the problems faced and goals set. Students should also investigate appropriate research methods where applicable.</p> <p>By the end of the course, the student must submit to the Department a project proposal report that includes the detailed objectives and contributions of the project, a literature review on the topic of their project, the methodology to be used, the expected results, and the planning for the implementation of the project. In this report, the students can include a description on the work already completed.</p>		
Recommended and/or required reading:			
Textbooks:	"The Elements of Technical Writing (Elements of Series)", Gary Blake and Robert W. Bly, Longman; 1 Edition.		

References:	Students are expected to reference a number of books, periodicals and other referenced material relevant to their work.
Planned learning activities and teaching methods:	<p>The course will be presented through lectures in class. During the student will be presented with:</p> <ol style="list-style-type: none"> 1. The course content and requirements 2. Report writing practices 3. Oral presentation tips 4. Preparation of posters <p>The material will be presented with the use of visual aids.</p>
Assessment methods and criteria:	<ul style="list-style-type: none"> • Letter of Intent: 10% • Proposal: 90%
Language of instruction:	English
Work placement(s):	No