

**ESG 487 COOPERATIVE RESEARCH IN TECHNOLOGICAL SOLUTIONS
(ELECTIVE)**

Credit: 0-3

Course Catalog description:

An independent research course in which students apply principles of engineering design, technological problem solving, mathematical analysis, computer- assisted engineering, and effective teamwork and communication to develop solutions for a need in the government, educational, non-profit, or community organization in a multidisciplinary setting.

PRE- OR COREQUISITE(S): U3 or U4 standing; an abstract of the project; permission of instructor

TEXT(S) OR OTHER REQUIRED MATERIAL: None

COURSE LEARNING OUTCOMES	SOS	ASSESSMENT TOOLS
Understanding design principles in application to a real-world problem	c	Final report and project
Understanding societal implications of engineering	f h j	Final report
Effective teamwork in a multidisciplinary environment	d	Final report and project

COURSE TOPICS: Research related Internship course

CLASS/ LABORATORY SCHEDULE:

Instructor dependent

CURRICULUM

This course contributes 0-3 credit hours toward meeting the required 48 hours of engineering topics.

STUDENT OUTCOMES (SCALE 1-3):

A	B	C	D	E	F	G	H	I	J	K
		3	2		2		3		2	

3 – Strongly supported

2 – Supported

1- Minimally supported

LEAD COORDINATOR(S) WHO PREPARED THIS DESCRIPTION AND DATE OF PREPARATION:

Gary Halada, 7/13/2010