ESM 299 DIRECTED RESEARCH IN MATERIALS SCIENCE (ELECTIVE)

Credit: 0-3

COURSE CATALOG DESCRIPTION:

A directed research project with faculty supervision or as part of a research team. Intended for freshman or sophomore students to develop research skills in a closely mentored environment. A final report and oral presentation are required at the end of the project. ESM 199 is a recommended prerequisite.

PRE- OR COREQUISITE(S): Permission of the Undergraduate Program

TEXT(S) OR OTHER REQUIRED MATERIAL: None

COURSE LEARNING OUTCOMES	SOS	ASSESSMENT TOOLS
Understanding research methods and skills, including data collection and analysis	b	Final report
Experimental design	b	Final report
Effective teaming in research	d g	Final report, observations

COURSE TOPICS: Varies for different Research Areas

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):

3 3 2	

3 – Strongly supported

1- Minimally supported

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

Gary Halada, 7/13/2010

^{2 –} Supported