

## EE 499 Directed Reading

**Credits:** variable credits.

**Contact hours:** scheduled appointments

**Categorization of credits:** engineering topic

**Instructor(s):** All EE faculty

**Textbook and Other Required Materials:** Varies with projects and is determined by the faculty advisor.

**Designation:** Elective

**Catalog Description:** Investigation of advanced engineering problems. Repeatable unlimited times.

**Pre- and Co-requisites:** Pre-requisites: senior standing and consent.

**Class/Lab Schedule:** Meetings arranged by the student and faculty advisor.

**Topics Covered:** EE 499 is an undergraduate research project under the supervision of a faculty advisor. It can be an individual or team project, where the team may be a mix of beginning to advanced-level students.

### **Course Objectives and Relationship to Program Objectives:**

The research experience is necessary to prepare students for their future research and development. The course gives students exposure to research projects.

A student demonstrates research ability and helps them into research-focused careers. [Program Objectives addressed by this course: 1, 2, 3, 4, and 5.]

**Course Outcomes and Their Relationship to Program Outcomes** The following are the course outcomes and the subset of Program Outcomes (numbered 1-7 in square braces "[ ]") they address:

- Conduct undergraduate research topics. [1,2,6,7]
- Orally communicate design and engineering concepts effectively. [3]
- Prepare clear written reports. [3]

### **Contribution of Course to Meeting the Professional Component**

"Engineering topics: 100%"

**Computer Usage:** depending on research needs.

**Design Credits and Features:** depending on research needs.

**Person(s) Preparing Syllabus and Date:** Revised, Yingfei Dong, Jan. 8, 2021.