

ECE 4999.01 (Approved): Undergraduate Thesis Research

Course Description

Undergraduate Thesis (Distinction) research on topics in Electrical & Computer Engineering.

Transcript Abbreviation: Ugrad Thesis Res

Grading Plan: Letter Grade

Course Deliveries: Classroom

Course Levels: Undergrad

Student Ranks: Junior, Senior

Course Offerings: Autumn, Spring, May, Summer, May + Summer

Flex Scheduled Course: Never

Course Frequency: Every Year

Course Length: 14 Week

Credits: 0.5 - 3.0

Repeatable: Yes

Maximum Repeatable Credits: 6.0

Total Completions Allowed: 6

Allow Multiple Enrollments in Term: No

Graded Component: Independent Study

Credit by Examination: No

Admission Condition: No

Off Campus: Never

Campus Locations: Columbus

Prerequisites and Co-requisites: Prereq: GPA 3.0 or above, and enrollment in ECE major, and approved Thesis (Distinction) project.

Exclusions:

Cross-Listings:

Course Rationale: Existing course.

The course is required for this unit's degrees, majors, and/or minors: No

The course is a GEC: No

The course is an elective (for this or other units) or is a service course for other units: Yes

Subject/CIP Code: 14.1001

Subsidy Level: Baccalaureate Course

Programs

Abbreviation	Description
CpE	Computer Engineering
EE	Electrical Engineering

Course Goals

Engage undergraduates in electrical and computer engineering research and to prepare students for graduate thesis/dissertation work

Course Topics

Topic	Lec	Rec	Lab	Cli	IS	Sem	FE	Wor
Supervised undergraduate research on various topics in Electrical and Computer Engineering								

Representative Assignments

Varies

Grades

Aspect	Percent
Progress Report(s) for semesters or terms prior to graduation semester; Thesis document and oral defense of the thesis for graduating semester.	100%

ABET-EAC Criterion 3 Outcomes

Course Contribution		College Outcome
*	a	An ability to apply knowledge of mathematics, science, and engineering.
***	b	An ability to design and conduct experiments, as well as to analyze and interpret data.
*	c	An ability to design a system, component, or process to meet desired needs.
	d	An ability to function on multi-disciplinary teams.
***	e	An ability to identify, formulate, and solve engineering problems.
*	f	An understanding of professional and ethical responsibility.
*	g	An ability to communicate effectively.
**	h	The broad education necessary to understand the impact of engineering solutions in a global and societal context.
**	i	A recognition of the need for, and an ability to engage in life-long learning.
**	j	A knowledge of contemporary issues.
***	k	An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Additional Notes or Comments

updated to match OSU Curriculum 10/30/12

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