

ECE 8862: Special Topics in Advanced Computer Design Methodologies

Course Description

Design automation, computer aided design, testing, and design for energy efficiency.

Transcript Abbreviation: Adv Cmp Dsgn Mthd

Grading Plan: Letter Grade

Course Deliveries: Classroom

Course Levels: Graduate

Student Ranks: Masters, Doctoral

Course Offerings:

Flex Scheduled Course: Never

Course Frequency: Every Year

Course Length: 14 Week

Credits: 3.0

Repeatable: Yes

Maximum Repeatable Credits: 9.0

Total Completions Allowed: 3

Allow Multiple Enrollments in Term: No

Time Distribution: 3.0 hr Lec

Expected out-of-class hours per week: 6.0

Graded Component: Lecture

Credit by Examination: No

Admission Condition: No

Off Campus: Never

Campus Locations: Columbus

Prerequisites and Co-requisites: Prereq: Grad standing in Engineering.

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: 14.0902

Subsidy Level: Doctoral Course

Course Goals

Students learn advanced topics in computer design methodologies

Course Topics

Topic	Lec	Rec	Lab	Cli	IS	Sem	FE	Wor
Special topics in advanced computer design methodologies								

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 Course title, description, abbreviation, and prereqs to match university format 3/20/12

Make repeatable, de;été multiple enrollments per term 4/7/16

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