

Department	Electrical and Computer Engineering
Course Number	EELE 488R
Course Title	Electric Engineering Design I
Total Credit Hours and Format	2 Credits. (2 Sem) F,S
Catalog Description	<p>PREREQUISITE: EELE 317 and ENGR 310</p> <p>Part I of a two consecutive semester senior capstone design sequence in Electrical Engineering. Students, under the guidance of a faculty supervisor, formulate a solution to a real-world design problem culminating in a critical design review.</p>
Faculty Coordinator	Wataru Nakagawa
Course Designation	Required
Textbook	(no textbook)
Course Learning Outcomes	<p>At the conclusion of EELE 488R, students are expected to be able to:</p> <ol style="list-style-type: none"> 1) Complete the detailed design of a capstone project. 2) Perform an alternatives analysis and design matrix for key elements of the project. 3) Communicate effectively about a project using webpage, poster presentation and project demonstration 4) Complete technical documentation for the system design. 5) Demonstrate basic project management skills. 6) Work effectively in a student team.
Program Outcomes	a, c, d, e, f, g, h, l, j, k, l, r
Topics Covered	<ol style="list-style-type: none"> 1) Project definition and level one requirements 2) Preliminary design and Preliminary Design Review 3) Critical Subsystem Demonstration 4) Detailed design and Critical Design Review 5) Final project design and documentation

Prepared by	Wataru Nakagawa (5/14/2015)
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