University of Wisconsin - Madison
College of Engineering [EGR]
Last Offered: 2015-2016 Spring [1164]
Direct Link to this Syllabus:
http://aefis.wisc.edu/index.cfm/page/CourseAdmin.ViewABET?coursecatalogid=77&pdf=True

1. E C E 554, Digital Engineering Laboratory
2. Credits: 4    Contact Hours: 6.8
3. Textbook and Materials:

a. Other Supplemental Materials: None

- Specific Course Information:


b. Pre-requisites or Co-requisites: ECE 352; ECE/Comp Sci 552

c. This is a Selected Elective course.

- Specific Goals for the Course:

a. Course Outcomes:

1. Students will be able to deal with problems and solutions associated with many aspects of development and project management
2. Work effectively as a member of a moderate-sized team
3. Use contemporary digital hardware development tools; design, test, and demonstrate a complex digital system.

- ABET Student Learning Outcomes:

(a) Ability to apply mathematics, science and engineering principles.
(b) Ability to design and conduct experiments, analyze and interpret data.
(c) Ability to design a system, component, or process to meet desired needs.
(d) Ability to function on multidisciplinary teams.
(e) Ability to identify, formulate and solve engineering problems.
(f) Understanding of professional and ethical responsibility.
(g) Ability to communicate effectively.
(k) Ability to use the techniques, skills and modern engineering tools necessary for engineering practice.

- **Brief List of Topics to be Covered:**
  1. Practical aspects of computer system design.
  2. Design, construction, and testing of significant digital subsystems.