University of Wisconsin - Madison
College of Engineering [EGR]
Last Offered: 2015 Spring [1154]
Direct Link to this Syllabus :
http://aefis.engr.wisc.edu/index.cfm/page/CourseAdmin.ViewABET?coursecatalogid=19&pdf=True

1. **M E 352, Interdisciplinary Experiential Design Projects II**
2. **Credits :** 3   **Contact Hours :** 4.0
3. **Textbook and Materials :** None required
4. **Specific Course Information :**

a. **Brief description of the content of the course (Course Catalog Description) :** Second of a two-course sequence in which students design and fabricate systems and devices, typically having an interdisciplinary aspect. In the second course, emphasis will be on detailed design, fabrication, testing, and modification of concepts developed in the previous course.

b. **Pre-requisites or Co-requisites :** ME 351 & Sr st in ME or cons inst

c. **Required (or ME 349 is taken)**

- **Specific Goals for the Course :**

a. **Course Outcomes :**

1. Students must learn and understand the overall design process
2. Students must complete a design project through the detailed design stage in a timely manner
3. Students must enhance their ability to work in teams
4. Students must demonstrate a professional level of communication (written, graphical/drawing and verbal) and presentation skills with clients, vendors and peers.

- **ABET Student Learning Outcomes :**

(c) Ability to design a system, component, or process to meet desired needs.
(d) Ability to function on multidisciplinary teams.
(f) Understanding of professional and ethical responsibility.
(g) Ability to communicate effectively.

- **Brief List of Topics to be Covered :** The emphasis in this course is not on studying from a list of topics, but rather it is a project course. Students work in teams on a semester-long project. Some topics covered include presentation and discussions on the design process, intellectual property, task planning and management, quality function deployment, techniques for concept generation, techniques for concept evaluation/selection, and design documentation. Depending upon the projects, other topics may also be included.