

## **Syllabus - Engineering Physics 499**

### **Honors Design Project**

3 credits/quarter. May be repeated three times. Only one quarter can be counted as writing intensive.

A written proposal for the design project must be submitted and approved by the program committee. It must specify the quarter(s) during which the project will be done, the supervising instructor, a set of design criteria for the project, and a plan of work. The director of the EP program can provide guidance in preparation of the proposal.

The student will work under the direction and supervision of the supervising instructor to accomplish the project. The supervising instructor will assign a continuing grade (M) until the project is completed at which point grades will be assigned to each quarter so that, in aggregate, they represent a grade for the entire project. The writing intensive grade will be assigned during the quarter for which a writing intensive section is registered. If the supervising instructor is not a fully affiliated faculty member (i.e. adjunct faculty), the grades will be assigned by the EP program director in consultation with the supervising instructor.

A summary, progress report will be provided to the supervisor and the EP director at the end of each quarter in a format to be specified by the supervising instructor. Unless otherwise specified by the supervisor, the final of the quarter reports will be in the form of a technical report. It shall include an abstract summarizing the design project, an introduction describing the motivation for the project and giving the design criteria, a realization of the design describing how the project was finally implemented, a discussion showing how the implementation achieved the design criteria and making note of any variation or limitations of the implementation, and a set of appropriate references.

Upon completion of the project, a public, oral presentation of the project will be made at a time a place to be arranged by the EP program director.

The requirements for EP honors project are the same as for EP494 except that: (1) the project must be approved by the program committee as an honors project and (2) the final report must be a scholarly report submitted to an engineering or physics student journal for publication.