Syllabus Capstone Project Course CENG 6838- Spring 2018 23618

INSTRUCTOR: Dr. Thomas L. Harman

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OFFICE HOURS: After 4PM M, T and W and Evenings (Check office or lab D125).

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PREREQUISITES: Graduate standing

DESCRIPTION: The course is intended for those students who wish to complete a project as part of their Computer Engineering Master's Degree.

COURSE FORMAT: The course will consist mainly of student presentations. Progress reports on the project will be required frequently.

APPROACH: At the first meeting, you will decide on a project and be assigned a professor who will monitor your progress. In two weeks, you must report on your approach to the project. This will include presenting the *General Specifications* for the project.

DELIVERABLES: *General Specifications* **Due in 2 weeks**
Functional Specifications **Due in 4 weeks**
Design Review **Midterm**
Detailed Design After midterm
Final Report and Presentation **Final**

Grading:
5% Capstone Survey
5% Quiz on all projects
20% Requirements, and functional specification documents
25% Detailed design document
25% Final presentation, demonstration, etc.
10% Final Report format and readability
10% Originality and interest of topic to the class

Note: The *General Specifications* document describes the purpose of the project and how the project is to be completed. For a specific software or hardware system, a block-diagram description must be included.

The Functional Specifications document should define the various functions to be performed and the interactions between the components of the system.

The Detailed Design document describes exactly how you will build the system or which components to purchase. If the project involves the selection of components, the technical specifications must be numerical and the exact criteria for the choice must be given.