**CS 699 – Capstone Thesis for Computer Science or Computer Science (Network option) Students**

**Catalog information:** Development and completion of a formal research paper in an advanced area of computer science for submission to the department, which specifies its format. Supervision by a departmental committee, at least one of whom must be a California State University East Bay Computer Science faculty member. Scientific literature research, a written report and an oral presentation is required.

**Prerequisites:** Department consent, minimum 3.0 GPA and advancement to candidacy.

**Units:** may be repeated for credit for a maximum of 6 units

**Grading:** A-F only

**Advancement to candidacy means:** Students must complete all prerequisite or deficiency courses and the writing skills exam. Students must also have completed the five M.S. required courses with a “B” or better average.  In addition, a student must have an overall and graduate GPA of 3.0 or better.

**I want to do a Capstone Thesis, what do I do?**

First make sure you qualify – this means you have complete all prerequisites and deficiencies and you have completed the 5 required courses with a B or above average.

Next, you will need to find a thesis advisor. Any faculty member from the Computer Science department can be your thesis advisor. It is best to choose a faculty member that you have had previously. Choosing a faculty advisor whose research area is in your thesis interest is also advised. You and your thesis advisor will create a plan for your work which will be submitted to your thesis committee and the graduate coordinator for approval. After this, Ms. Snyder in the department office can enroll you into CS 699.

**Project Committee:** You will also need two other CSUEB faculty members for your committee. Your project committee and advisor will review and approve your thesis plan and read and evaluate your thesis when it is completed.

**What is a thesis?**

A thesis is a unique and new addition to the field of computer science. It consists of a literature review around the thesis topic as well as a software implementation of the thesis proposal. A thesis includes background research in related projects, a written description of what will be implemented and how it will be tested, a summary of results. On completion students will give an oral presentation describing their work.

**How long should it take to complete a thesis?**

Theses generally take 2 semesters or more for completion. The project committee has final say on when the project is complete. A maximum of 6 units can be taken for thesis credit.

**Outline of a capstone thesis:**

A department thesis should include the following: Introduction, related work, description of thesis work, testing, results, conclusion, future work, and abibliography. Without including project code, a thesis should be approximately 75 or more pages, double spaced, 12 pt font, 1 inch margins.