

Spring Semester 2017
Rules and Principles Governing the CIS ASCS
EAS 499 Project and Thesis

Course Coordinator: Prof. Max Mintz

Date: 1 October 2016

Summary: The purpose of the document is to delineate the requirements that must be satisfied in order to successfully complete the EAS 499 Senior Capstone Thesis. In addition to these stated requirements, this document also offers guidance on how to approach this project-oriented course.

Rules and Principles:

1. The degree of mix between theory and application for this project is, within reason, negotiable. The most important thing is that you find a suitable project that meets the requirements stated below, and one that you are really excited about. History shows that lack of excitement on your part leads to degraded performance or even disaster. With a suitable and exciting project, you are much more likely to work on it consistently throughout the term and not leave it all go to the end. Leaving it go to the end results, with high probability, in a disaster, i.e., failure to graduate in May 2017 for “May 17” grads.
2. If you have not already developed a suitable and exciting proposal topic, you need to do this now. Ideally, the energy and insights needed to make this happen are generated internally. It is not unreasonable for us to expect that there are aspects of your educational experience in CIS and the wider world that define a set of possible projects. It is up to you to then sell one of these ideas to a faculty adviser in CIS, or SEAS, or outside SEAS. The adviser implicitly promises to guide you where needed. The adviser will not drag you kicking and screaming to the finish line. Obviously, the adviser needs to be knowledgeable about the project domain and be enthusiastic about the project. **The student is responsible for fully informing the thesis adviser about all EAS 499 course requirements and expectations.**
3. Since this is an EAS 499 in ASCS, there should be a recognizable substrate of CIS embedded in the proposal. The amount of CIS substrate is a judgment call that, if necessary, I will help you make. There is no requirement that you write programs as part of this project. This project could be an extensive literature review about some new CIS-related technology, “X,” that you explore, and show its potential impact on the wider world.
4. The project proposal should be about two-three single-spaced pages in length and include: (i) your name and email address; (ii) a short project title and date; (iii) your adviser(s) name(s) and email address(es); (iv) an abstract; (v) an introduction; (vi) a description; (vii) a paragraph about why we should care about this; (viii) expected outcomes; (ix) a schedule; and (x) references. These 10 items are a superset of the requirements imposed by the RAS (formerly the APO). I will review all of these proposals. If there are required changes, the proposal will be returned for revision. **The proposal must be submitted to Jackie Caliman in PDF format in addition to a printed copy.** Do not submit any MSW documents. You must also complete the form:

<http://www.seas.upenn.edu/undergraduate/pdf/ug-aspcredit-request.pdf>

5. **The completed project proposal and completed Applied Senior Project Form requesting academic credit must be submitted by: 12 noon, Wednesday, 18 January 2017. A form without the signature of the thesis adviser will be deemed incomplete.** The proposal will be counted towards the final course grade.
6. There must be a written project final report (Thesis). A report done by a single individual is expected to be at least a 10-page (single-spaced) document. Computer programs, tabulated data, extensive figures, and extended bibliographies will not count towards the 10-page minimum requirement. The written project report will be reviewed by your thesis adviser. The thesis adviser will submit a recommended grade to me. I will be responsible for determining the final grade. A late or incomplete report will receive a reduced grade. **The final report must be submitted to Jackie Caliman in PDF format in addition to a printed copy.** Do not submit any MSW documents. **The final report is due by: 12 noon, Wednesday, 26 April 2017.**
7. Team projects are permitted subject to the following provisos: (i) a maximum of two individuals may collaborate on a given project; (ii) the **necessity** for a two-person project must be convincingly justified in the project proposal, including a statement explaining the division of labor; and (iii) the required report length will be at least 20 single-spaced pages. (See statement (6) above.)
8. **Other Requirements:**
 - (a) It is understood that the work you submit is your original work. Thus, proper citations to all of your sources must be included.
 - (b) Since your work, in its entirety, should be subject to dissemination to the faculty and students in CIS and SEAS, the application of any **non-disclosure agreements is completely prohibited.**
9. **Honors Work in EAS 499:** Recent examples of superior EAS 499 Senior Capstone Theses can be found on the CIS Department's website at:

<http://www.cis.upenn.edu/current-students/undergraduate/courses/index.php>