SIE 493 Systems Engineering Internship

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Office Hours:
   M, W, F: 9:00 a.m. to 11:00 a.m.
   or by appointment

COURSE DESCRIPTION
Juniors and seniors who intern with private or public employers outside the University to work
on substantially technical projects related to their academic work are eligible for internship
credits through SIE 493 (Internship). A maximum of 3 units of SIE 493 may be applied toward
1) technical elective requirements in curricula leading to a Bachelor of Science (BS) in Industrial
Engineering, 2) thematic minor requirements in curricula leading to a BS in Systems
Engineering, or 3) thematic minor requirements in curricula leading to a BS in Engineering
Management.

INSTRUCTIONAL OBJECTIVES
There are three primary learning outcomes for SIE 493. The students should demonstrate the
following over the course of the internship:
   1. ability to identify, formulate, and solve engineering problems
   2. ability to use techniques, skills, and modern engineering tools necessary
      for engineering practice
   3. ability to function on multidisciplinary teams.

TEXTBOOK
There is not a required textbook for this course. The primary reference is:

Hoboken, NJ: John Wiley & Sons Inc.

ISBN: 9781118999400

PREREQUISITES
Advanced Standing
Faculty Advisor approval
COURSE REQUIREMENTS
A professional technical report (approximately 10 pages but can be longer depending on the materials submitted) and a formal presentation are required at the end of each internship. The report must include evidence of the student’s work during the internship. Consequently, the student must keep materials that provide this evidence (e.g. drawings, charts, sketches, spreadsheets, code, photographs, calculations, screenshots, etc.) Students may want their employers or supervisors to screen these materials before they put them in their report to avoid the disclosure of any proprietary information. The report must also address how the academic training of the student helped in the internship (including mention of specific courses that were particularly useful) and how the student perceives the internship enhancing their academic preparation.

COURSE EVALUATION
The grades assigned for this course are S (superior), P (pass), and F (Fail) which do not count toward the student’s GPA. The grade will be assigned by the faculty advisor upon receiving a satisfactory report. The report may be returned for improvements and revisions. An incomplete grade will be assigned until a satisfactory report is submitted.

COURSE ACTIVITIES SCHEDULE
Usually the student’s faculty advisor is the instructor of record for SIE 493, Systems Engineering Internship for Academic Credit. At the beginning of the semester/internship, students should meet with their instructor of record to establish clear guidance on deliverables, expectations, and timelines.

ABSENCE AND CLASS PARTICIPATION POLICY
Students work towards course deliverables on timelines developed in consultation with the faculty advisor, and internship provider.

Required University Policy Statements are below:

The UA’s policy concerning Class Attendance, Participation, and Administrative Drops is available at: http://catalog.arizona.edu/2015-16/policies/classatten.htm

The UA policy regarding absences for any sincerely held religious belief, observance or practice will be accommodated where reasonable, http://policy.arizona.edu/human-resources/religious-accommodation-policy.

Absences pre-approved by the UA Dean of Students (or Dean Designee) will be honored. See: http://uhap.web.arizona.edu/policy/appointed-personnel/7.04.02
CLASSROOM BEHAVIOR POLICY
Systems Engineering Internship for Academic Credit is intended to allow students to experience the professional engineering work environment in an academic context; as such, behavior and personal conduct commensurate with expectations in the professional engineering work environment are expected of students at all times.

Required University Policy Statement below:

To foster a positive learning environment, students and instructors have a shared responsibility. We want a safe, welcoming and inclusive environment where all of us feel comfortable with each other and where we can challenge ourselves to succeed. To that end, our focus is on the tasks at hand and not on extraneous activities (i.e. texting, chatting, reading a newspaper, making phone calls, web surfing, etc.). Students are asked to refrain from disruptive conversations with people sitting around them during lecture. Students observed engaging in disruptive activity will be asked to cease this behavior. Those who continue to disrupt the class will be asked to leave lecture or discussion and may be reported to the Dean of Students.

THREATENING BEHAVIOR POLICY
Systems Engineering Internship for Academic Credit is intended to allow students to experience the professional engineering work environment in an academic context; as such, behavior and personal conduct commensurate with expectations in the professional engineering work environment are expected of students at all times.

Required University Policy Statement below:

The UA Threatening Behavior by Students Policy prohibits threats of physical harm to any member of the University community, including to one’s self. See: http://policy.arizona.edu/education-and-student-affairs/threatening-behavior-students.

ACCESSIBILITY AND ACCOMMODATIONS
Our goal in this course is that learning experiences be as accessible as possible. If you anticipate or experience physical or academic barriers based on disability, please let me know immediately so that we can discuss options. You are also welcome to contact Disability Resources (520-621-3268) to establish reasonable accommodations. For additional information on Disability Resources and reasonable accommodations, please visit http://drc.arizona.edu/.

If you have reasonable accommodations, please plan to meet with me by appointment or during office hours to discuss accommodations and how my course requirements and activities may impact your ability to fully participate. Please be aware that the accessible table and chairs in this room should remain available for students who find that standard classroom seating is not usable.
CODE OF ACADEMIC INTEGRITY
Students are encouraged to share intellectual views and discuss freely the principles and applications of course materials. However, graded work/exercises must be the product of independent effort unless otherwise instructed. Students are expected to adhere to the UA Code of Academic Integrity as described in the UA General Catalog. See: http://deanofstudents.arizona.edu/academic-integrity/students/academic-integrity.

UA NONDISCRIMINATION AND ANTI-HARASSMENT POLICY
The University is committed to creating and maintaining an environment free of discrimination, http://policy.arizona.edu/human-resources/nondiscrimination-and-anti-harassment-policy

ELECTIVE NAME AND PRONOUN USAGE
This course supports elective gender pronoun use and self-identification. As the course includes group work and discussion, it is vitally important for us to create an educational environment of inclusion and mutual respect.

SUBJECT TO CHANGE STATEMENT
Information contained in the course syllabus, other than the grade and absence policy, may be subject to change with advance notice, as deemed appropriate by the instructor.