

## **SIE 295S Systems and Industrial Engineering Colloquium Fall 2022**

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Office Hours:

T, W, Th      9:00 a.m. to 11:00 a.m.

or by appointment

### **COURSE DESCRIPTION**

A colloquium designed to help students understand career opportunities for Engineering professionals. Students will interact with speakers and work environments, and explore various roles in solving real world problems. The course helps students select course options within their degree program and helps focus on possible application areas.

### **INSTRUCTIONAL OBJECTIVES**

Understand degree requirements to complete the students' selected degree.

Understand and practice the fundamentals of gaining post-graduation employment.

Gain exposure to diverse techniques, methods, and applications in professional practice.

Build professional networks, write resumes, and successfully interview for future career opportunities.

### **COURSE REQUIREMENTS**

Attendance: Attendance for this course is highly emphasized.

Critiques: For each class session a critique report is required. Each critique should provide an overview about the speaker, visit, or topic; identify any specific information that you found relevant to your career decisions, and other observations of interest. Each critique will be approximately one page in length and submitted to the course D2L site not later than 8:00 a.m. AST of the following Friday. In addition, if you are not in attendance in class, it is not possible for you to prepare a critique. Please do not submit a critique if you are not present in class. (Yes, you must submit a critique for the first class – August 23, 2022).

Resume: Students should develop a professional resume that can be used to search for an internship or professional position. A draft resume is due September 20, 2022. Feedback will be provided as needed to develop the final resume. Final Resumes are due on October 11, 2022.

Plan of study: A first draft plan of study that details the courses that you intend to take and the semester you intend to take them is due by September 6, 2022. This plan should include planned electives. A final draft plan of study is due on October 4, 2022. The plan can be revised in future semesters if needed, but is intended as a guide and point of departure if future changes are required

Term Project: Students will gather information on a specific field, specialization, or activity within engineering that is of particular interest to them. The information should pertain to employment options and availability within the area of interest, qualifications and/or education required for entry into the area, representative examples of responsibilities and deliverables for practitioners in the area. Students will present their gathered information in an expository essay of not more than five pages, excluding references, title page, and abstract, in APA format, and in an oral presentation to the class. Visual aids for the presentation may be used, but are not required. Essays are due on November 29, 2022. Presentations will begin that same day. Presentations should be no less than three minutes, and no more than five minutes in duration, excluding questions and discussion.

### **TEXTBOOK**

There is no assigned textbook for this course. The University of Arizona learning management system, D2L, will be the primary means of communication outside of class.

### **PREREQUISITES**

SIE 250 or SIE 265, or concurrent enrollment.

### **COURSE EVALUATION**

Attendance .....	32%
Critiques.....	32%
Resume .....	10% (3% draft, 7% final)
Plan of Study .....	5% (2% draft, 3% final)
Term Project .....	21% (10% essay, 11% presentation)

Final Grade: A (90~100), B (80~89), C (70~79), D (50~69), E (<50)

### **ABSENCE AND CLASS PARTICIPATION POLICY**

Participating in course and attending lectures and other course events are vital to the learning process. As such, attendance is required at all lectures and discussion section meetings. Students who miss class due to illness or emergency are required to bring documentation from their healthcare provider or other relevant, professional third parties. Failure to submit third-party documentation will result in unexcused absences.

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**

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**

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 classroom 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>

## **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.

## COURSE ACTIVITIES SCHEDULE

<b>Date</b>	<b>Topic</b>
Aug 23	Course intro; academic programs
Aug 30	Recent Graduates Panel Discussion
Sep 6	Resumes <span style="float: right;"><i>1<sup>st</sup> draft plan of study due</i></span>
Sep 13	Academic Advising
Sep 20	Job interviews <span style="float: right;"><i>1<sup>st</sup> draft resume due</i></span>
Sep 27	Mid-career Professionals Panel Discussion
Oct 4	Developing and writing requirements <span style="float: right;"><i>final draft plan of study due</i></span>
Oct 11	In-class job interview practical exercise. <span style="float: right;"><i>final draft resume due</i></span>
<b>Oct 17</b>	Job interviews practical exercise with industry professionals
Oct 25	Professional Ethics and Professional Licensure
Nov 1	Senior Managers Panel Discussion
Nov 8	Trade Studies and Professional Practices
Nov 15	Current Seniors Panel Discussion
Nov 22	University of Arizona History and Traditions
Nov 29	Student presentations
Dec 6	Student presentations