

**SIE 295s**  
**Systems Engineering/Industrial Engineering/Engineering Management**  
**Sophomore Colloquium**  
**Spring 2017**

**Class Hour:** Friday 11:00-11:50 AM

**Classroom:** AME 212S

**D2L:** D2L will be used for submission of Critiques and other class requirements as well as information about upcoming speakers and tours.

**Instructor:** Larry Head, ENGR 251, (520) 621-2264, [larry@sie.arizona.edu](mailto:larry@sie.arizona.edu)

**Office Hours:** By appointment (email request)

**Purpose:** A colloquium designed to help students understand career opportunities for Systems Engineers (SYE), Industrial Engineers (INE) and Engineering Management (EMG) professionals. Students will interact with speakers and explore various roles of SYE, INE and EMG in solving real engineering problems. The course helps students select course options (e.g. electives) within the degree (EMG, INE, SYE) programs and helps focus on possible application areas.

**Prerequisite(s):** SIE 250 or SIE 265

**Textbook(s) and/or other materials:** Handouts by the instructor (No text is required). D2L will be the primary means of distributing class material.

**Course objectives:**

1. Understand course options available in the SYE/INE/EMG programs
2. Gain exposure to diverse techniques, methods, and applications of INE, SYE and EMG
3. Build professional networks, write resumes, and successfully interview for future career opportunities.

**Work Required:**

1. Attendance: Attendance for this course in *highly* emphasized. (See course rules below).
2. Synopsis/Analysis: For each class a short report is required. Each report should provide an overview about the speaker; identify any specific information that you found relevant to your career decisions, and other observations of interest. Each critique will be approximately ½ to 1 page in length and submitted to the course D2L site before the start of class the following week. [This rule is strictly enforced]. In addition, if you are not in attendance in class, it is not possible for you to prepare a report. Please do not submit a report if you are not present in class. [Yes, you must submit a critique for the first class – January 13, 2017 by January 20, 2017 at 11 AM].
3. Resume: Students should develop a professional resume that can be used to search for a summer internship or professional position. A draft resume is due by January 25, 2017 [This is a Wednesday]. Please submit a paper copy in class as well as submitting to D2L. Feedback will be provided as needed to develop the final resume. Final Resumes are due on February 3, 2017, but you can update your resume anytime during the semester after the due date. Please be aware that the Engineering I-Expo will be held on February 7, 2017 and this is a great chance to meet some prospective employers (for internships as well as later). In addition, create a LinkedIn profile including a professional appearing photo, your Experience (if any), education (in progress), and send a request to connect to me (Larry Head). I will not accept incomplete requests and will give you a grade when your request is accepted.



4. I-Expo Assignment: Students are required to attend the i-Expo on February 7, 2017 and introduce themselves to a minimum of two companies. Prepare a report that summarizes the experience including: 1) identification of who you met (name, role); 2) summary of company; 3) identification of any summer internship programs available; and, 4) any planned or expected follow-up. I-Expo reports are due on February 17, 2017.<sup>1</sup>
5. Plan of Study: A plan of study that details the courses that you will take and the semester you will take them is required by March 24, 2017. This plan should include all courses completed to date by semester, courses planned for future semesters, and planned technical electives. Your plan can be revised in future semesters but is intended to be a good initial start.
6. Engineering Design Day: Students are required to attend Engineering Design Day (May 1, 2017) where the Senior Design Teams present their capstone design projects and compete for prizes. Prepare a report that summarizes the experience including team projects that you reviewed and observations about the projects. [<http://engineering.arizona.edu/undergrad/senior-design-program>]. Reports are due by Friday May 5, 2017 before 11:00 AM.
7. Final Report: A final report is required by Friday May 5, 2017 (5 PM). The final report must include a statement of your major, a summary statement of your career plan and objectives including your planned technical electives, summer internship strategy. You are to submit one single file to D2L (pdf is preferred) before 5 PM on May 5, 2017. Final reports are graded on a 100 point scale and partial credit can be given for reports that do not meet the requirements.

#### Grading:

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| Attendance   | 35%  |
| Synopsis/Analysis  | 30%  |
| Resume and LinkedIn  | 10% (2% for draft resume, 5% for final resume, and 3% for your completed LinkedIn profile) |
| i-Expo Assignment  | 5%   |
| Plan of Study  | 5%   |
| Design Day Report  | 5%   |
| Final Report   | 10%  |
| 100-90%: A; 80-90%: B; 70-80%: C; 60-70%: D, below 60%: E. |  |

#### Course Rules:

1. Students are expected to attend lectures. If you do not attend, do not ask a fellow student to sign your into the class role since this would be a violation of the Code of Academic Integrity (<http://deanofstudents.arizona.edu/policies-and-codes/code-academic-integrity>) and both students would be subject to disciplinary procedures, including failure of the course.
2. Treat speakers with respect and in a professional manner. **Do not arrive late to class** and give the speakers your attention (e.g. no texting, emailing, facebooking, snapchatting, etc.)
3. All holidays or special events observed by organized religions will be honored for those students who show affiliation with that particular religion; Absences pre-approved by the UA Dean of Students (or Dean's designee) will be honored.
4. Computers, cell phones, pagers, iPod's (iPads, Nano's, etc) and other electronic devices must be turned off before the start of class.

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<sup>1</sup> If you are graduating and already have accepted a position, please contact the instructor to discuss alternative assignments.



5. Plagiarism is not allowed to any extent for writing critiques, assignments, final report, or any other exams or class activities. The D2L Originality Check will be used to check for plagiarism on all submissions.
6. The information contained in the syllabus (except grade and absence policies) may be subject to change with reasonable advance notice, as deemed appropriate by the instructor.

