



## **ABE 496A, Seminar in Engineering Careers and Professionalism**

**Shantz 159; Wednesdays, 12-12:50 p.m.**

### **Description of Course**

Seminar in Engineering Careers and Professionalism (1 credit). This seminar will focus on the topics of engineering professionalism and societal and global context in which the profession of Agricultural and Biosystems Engineering is practiced. Presentations and discussions will provide communication experiences (1 credit of engineering science).

### **Course Prerequisites or Co-requisites**

ABE 496A has no prerequisites, but is taken simultaneously with ABE 498A.

### **Instructor and Contact Information**

Instructor Information

Dr. Kitt Farrell-Poe

Office: Shantz 413

Contact Information: Office: 520-626-9120; Cell: 520-334-9806; kittfp@email.arizona.edu

Office Hours/"Open Door Policy": I don't have set office hours, but you can usually connect with me 9 a.m. to 5 p.m. Monday through Friday by visiting my office, calling my office, texting my cell phone, or emailing me. If you plan to visit my office, I suggest calling ahead to make sure that I'm there.

Web information

D2L: course management will be through D2L

Instructor homepage: <http://cals.arizona.edu/abe/people/kitt-farrell-poe>

### **Course Format and Teaching Methods**

Course format includes lecture, small-group activities or group projects, in-class discussion, guest speakers.

### **Course Objectives and Expected Learning Outcomes**

#### ***Student Learning Objectives***

Upon completion of this class, students will be able to:

1. Compare and contrast the ethical consequences of engineering decisions and design options,
2. Explain the role of internships in engineering education,
3. Articulate the multifaceted aspects of current global trends which will influence the problems engineers will face in the near future, and
4. Demonstrate effective communication skills, both written and oral.

**Relationship of Course to ABET Learning Outcomes (high level contribution only)**

Learning Objectives	ABET Learning Outcomes
1	Has an understanding of professional and ethical responsibility.
1, 2, 3, 4	Can communicate effectively.
2, 3	Has the broad education necessary to understand the impact of engineering solutions in global, economic, environmental, and societal context.
2, 3	Has a knowledge of relevant contemporary issues.

**Absence and Class Participation Policy**

The UA’s policy concerning Class Attendance, Participation, and Administrative Drops is available at: <http://catalog.arizona.edu/policy/class-attendance-participation-and-administrative-drop>.

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: <https://deanofstudents.arizona.edu/absences>.

Participating in the 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 health-care provider or other relevant, professional third parties. Failure to submit third-party documentation will result in unexcused absences. See the section on Assignments, Activities, and Course Assessments for more information on student attendance.

**Course Communications**

We will be using the course D2L site for the repository for assignments, communicating weekly updates, email communications, and the calendar tool. Since I will be using the email tool in D2L, if you don’t use the D2L email system as your primary email system, then you should forward your D2L email to the email system of your choice. You can also subscribe to instant email or text notifications through D2L to remind you about assignment due dates. To activate or change the notification feature, click on the @ symbol at the top of the news feed on the course home page in D2L.

**Required Texts or Readings**

None.

**Required or Special Materials**

None.

**Assignments, Activities, and Course Assessments**

**Student Attendance**

Attendance is required and recorded through a sign-in sheet available during each class. Because attendance is required, you will have one absence waived for an emergency situation. You don’t need to provide an excuse to me, but letting me or your teammates know ahead of time is the responsible action to take. If you arrive more than 10 minutes late or leave early (without pre-authorizing it with me), you will receive 1/2 of the points for attendance that day.

### **Class Participation**

The grade for Class Participation will be based on your participation in class discussions for the student presentations, asking questions or participating in discussions with guest speakers, and preparation for each class. There is a rubric for Class Participation on the course website.

### **Ethical Issue Assignments**

Each student will serve on a team to present a view point of a class-chosen topic featuring a global issue that pertains to Agricultural and Biosystems engineers. The team will present the ethical issue and provide arguments either "for" or "against" the topic. As the final project, each team will be responsible for providing a 10- to 15-minute presentation, answering questions from the class, and convincingly "argue" your team's view point on the issue. Each team will prepare a report summarizing the class discussion and conclusions on the topic for which they are responsible. All written assignments will follow the ASABE Guide for Authors as the style guide. The style guide is available as a PDF file on the course Content section under Resources and at the ASABE website

[[http://www.asabe.org/media/59251/asabe\\_guide\\_for\\_authors.pdf](http://www.asabe.org/media/59251/asabe_guide_for_authors.pdf)]. Rubrics are available for all phases of the Ethical Issue Assignments and are available on the course website.

### **Internship Presentation**

Each student will develop both a video and a poster presentation on an internship experience. Engineering internships or experiences are preferred. File for the poster and link to your video will be posted to a Dropbox in D2L (videos may be posted to Youtube as well); poster presentations will also be conducted during class. Both videos and poster presentations will be peer-evaluated by both ABE 496a and ABE 201 students. Video presentations will be 5-8 minutes in length. Poster presentations will be 5-7 minutes in length, including time for questions and answers. Rubrics are available for both the video and poster presentations on the course website

## **Final Examination**

There will be no final exam in this course.

## **Grading Scale and Policies**

### **Grade Evaluation**

The final grade will be based on the following points (there is no weighting to assignments, attendance, or class participation):

Attendance	30 points
Assignments	
Syllabus, Plagiarism, & Paraphrasing	13 points
Cover Letter, Resume, Follow-up Letter	24 points
LinkedIn Profile	8 points
Ethics & Engineering Pro/Con Summary & Presentation	18 points
Grand Engineering Challenges	10 points
Internship Poster & Video Presentation	45 points
Class Participation	8 points
<b>Total</b>	<b>156 points</b>

### **Grading Schedule**

To earn the grade of your choice, you will need to obtain the following percentages.

A:	100	-	90%
B:	89	-	80%
C:	79	-	70%
D:	69	-	60%
E: (Failure)		<	60%

### **Additional Grading Information**

**Submissions to the Dropbox.** You need to save anything that you turn into the course Dropbox in a format that is universal (.doc, .wpd, .pdf, .rtf, .xls, .jpg, .wmv, .avi, etc.). It is your responsibility to make sure that the file can be read. If you have a question about format or you think something went wrong while you were submitting it, check the file before the deadline and ask me for help if you need it. No credit can be given for submissions that can't be opened unless a technical difficulty exists that is beyond your control.

**Plagiarism.** Plagiarism will not be tolerated. I use the TurnItIn function in D2L. I allow you to see the resulting report. Pay attention to the report. Know how to properly cite sources (text, pictures, ideas, etc.).

**Late Submissions.** Generally, my policy is no late submissions. BUT this semester, I will allow up to 50% of the points for submissions which are less than 24 hours late.

**Requests for incomplete (I) or withdrawal (W).** Any requests for an incomplete or withdrawal must be made in accordance with University policies, which are available at <http://catalog.arizona.edu/policy/grades-and-grading-system#incomplete> and <http://catalog.arizona.edu/policy/grades-and-grading-system#Withdrawal>, respectively.

**Dispute of Grade Policy.** You may dispute a grade on a paper, project, assignment, etc. before the next assignment is returned back to you.

### **Honors Credit**

Students wishing to contract this course for Honors Credit should email me to set up an appointment to discuss the terms of the contact. Information on Honors Contracts can be found at <http://www.honors.arizona.edu/faculty-and-advisors/contracts>.

### **Scheduled Topics/Activities**

Below is a general list of topics that will be covered in this course. The schedule of topics with due dates is available in the D2L course resources folder.

1. Introduction, course syllabus, course format, plagiarism, grammar
2. Career skills & professionalism
  - a. UA Career Services: Interviewing skills
  - b. LinkedIn: Creating your own profile
  - c. Dress for success & dining etiquette
3. Engineering ethics
  - a. Engineering code of ethics
  - b. Ethical dilemmas: Case studies
  - c. Advocating
4. Internship experience via poster presentations & videos
5. Engineering careers: Invited speakers from industry, government, etc. about careers and what they look for in new employees

### **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 (e.g., 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.

Students are expected to be familiar with the UA Policy on Disruptive Behavior in an Instructional Setting found at <http://policy.arizona.edu/printpdf/92>.

## **Threatening Behavior Policy**

The UA Threatening Behavior by Students Policy prohibits threats of physical harm to any member of the University community, including to oneself. The Dean of Students has created guidelines and clarity on disruptive and threatening behavior:

<https://deanofstudents.arizona.edu/accountability/disruptive-student-behavior>.

## **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 the Disability Resource Center (520-621-3268) to establish reasonable accommodations. For additional information on the Disability Resource Center 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>.

The University Libraries have some excellent tips for avoiding plagiarism, available at <http://www.library.arizona.edu/help/tutorials/plagiarism/index.html>.

*A third party for resale is not permitted without the instructor's express written consent.* Violations to this and other course rules are subject to the Code of Academic Integrity and may result in course sanctions. Additionally, students who use D2L or UA e-mail to sell or buy these copyrighted materials are subject to Code of Conduct Violations for misuse of student e-mail addresses. This conduct may also constitute copyright infringement.

## **UA Nondiscrimination and Anti-harassment Policy**

The University is committed to creating and maintaining an environment free of discrimination; see <http://policy.arizona.edu/human-resources/nondiscrimination-and-anti-harassment-policy>.

Our classroom is a place where everyone is encouraged to express well-formed opinions and their reasons for those opinions. We also want to create a tolerant and open environment where such opinions can be expressed without resorting to bullying or discrimination of others.

## **Additional Resources for Students**

UA Academic policies and procedures are available at <http://catalog.arizona.edu/policies>.

Student Assistance and Advocacy information is available at <http://deanofstudents.arizona.edu/student-assistance/students/student-assistance>.

## **Confidentiality of Student Records**

Grades will be posted on the D2L website for the class. If you have any questions regarding your student record confidentiality rights, please refer to:

<http://www.registrar.arizona.edu/personal-information/family-educational-rights-and-privacy-act-1974-ferpa?topic=ferpa>.

## **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.