

California State University, Fresno
Lyles College of Engineering

HONORS SEMINAR
ENGR 1H/3H

FALL SEMESTER (AY 2016-2017)

Introduction and Course Description

Syllabus for Honors Seminar (ENGR 1H/3H)

Fall 2016

California State University, Fresno

Course Information

Units: 1 Credit Hour

Time: 3:00 to 5:20 PM Friday

Location: EE 281

Website: <http://optics.csufresno.edu/>

Instructor Name: Dr. Gregory Kriehn

Office Number: EE 254B

E-Mail: gkriehn@csufresno.edu

Telephone: 559-278-8811

Office Hours: Tue, Thu 10:00AM – 12:30PM

Course Description:

ENGR 1H – Seminar course for first semester, **freshman LCOE Honors Program students**. Lectures, guests, discussions. Leadership training in engineering/construction management professions. Topics: interactive leadership, decision making, technical innovation, global community, ethics, professional service. **Emphasis: leadership awareness, leadership training/skill building.**

ENGR 3H – Seminar course for first semester, **sophomore LCOE Honors Program students**. Lectures, guests, discussions, workshops. Leadership training in engineering/construction management professions. Topics: Proactive/interactive leadership, decision making, goal setting, project planning, leadership attitude, team building, innovation, ethics. **Emphasis: leadership awareness/training/skill building, goal setting, teamwork.**

Prerequisites:

Prerequisites: None

Course Goals and Primary Learning Outcomes

Course Goals/Objectives:

Honors students in the Lyles College of Engineering are guided by three tenets: Academic Excellence, Professional Leadership and Engaged Service. Therefore, honors students are expected not just to do well in their academic endeavors but to be fully involved in personal and

professional growth so as to develop into the leaders and servants of their professions and society. The goal of this course is to provide the context of this personal and professional growth to help maintain academic excellence, while building proficiency in professional leadership and engaged service.

Course Outcomes:

Upon the successful completion of this course, students will be able to:

1. **Recognize** and **discuss** the essential elements of leadership and leadership development.
2. **Recognize** and **discuss** the essential elements involved in the decision-making process. **Self-assess** personal decision making capabilities using information and practices discussed in class.
3. **Recognize** and **discuss** the essential elements of building trust at home, school and work.
4. **Recognize** and **discuss** the philosophical foundations of the ethical dilemma and to assess one's own ethics and values.

Required Textbooks and Materials

Required Reading Materials

World Economic Forum, "Top 10 Emerging Technologies of 2016,"
http://www3.weforum.org/docs/GAC16_Top10_Emerging_Technologies_2016_report.pdf

World Economic Forum, "The Global Information Technology Report 2016,"
http://www3.weforum.org/docs/GITR2016/WEF_GITR_Full_Report.pdf

World Economic Forum, "The Global Risks Report 2016," 11th Edition,"
<http://www3.weforum.org/docs/Media/TheGlobalRisksReport2016.pdf>

Potential Reading Materials

World Economic Forum, "Closing the Economic Gender Gap: Learning from the Gender Parity Task Forces".

World Economic Forum, "The Human Capital Report 2016".

World Economic Forum, "Annual Meeting of the New Champions 2016, The Fourth Industrial Revolution and Its Transformational Impact".

World Economic Forum, "Disruptive Innovation in Financial Services: A Blueprint for Digital Identity".

World Economic Forum, "Internet Fragmentation: An Overview".

Required Website:

Necessary course materials will be posted on the ENGR 1H/3H website in PDF format. A valid e-mail for each student is required for the instructor to communicate through this website.

Examinations and Major Assignments

Class Participation:

Class participation will be assessed based on a rubric that assesses: 1) demonstration of preparation for a session topic/speaker (e.g., readings, course material, discussions, experiences, etc.); 2) ability to offer analysis, synthesis, and evaluation of case material; 3) contributions in a significant way to the ongoing discussion (e.g., keeps analysis focused, responds very thoughtfully to other students' comments, contributes to the cooperative argument-building, suggests alternative ways of approaching material and helps class analyze which approaches are appropriate, etc.); 4) demonstration of ongoing active involvement.

If you are absent from class, it is your responsibility to check on announcements made while you were away. Generally attendance is not taken since there is a direct correlation between grades and attendance. However, attendance at exams, pop quizzes and lectures is mandatory. Makeup exams will generally not be given.

Note: Only under certain extreme circumstances will an oral or written makeup exam be considered. Makeup quizzes will not be given for any missed quizzes without advance notice and reason.

Homework:

Assignments will be given to illustrate and reinforce lecture and seminar/workshop topics. Normally the assignments will be due one week after being assigned unless otherwise specified by the instructor. Late homework will be accepted up to one week following the original due date, but will be penalized 20%.

You may do your homework and projects with others, but your motivation must be to understand the material and not simply to copy what someone else done. Exam and quiz grades are a strong reflection of how well you understood homework and projects.

It is highly recommended that students take notes from guest speakers' presentations.

Quizzes:

Unannounced quizzes will be given periodically throughout the semester. Quizzes will cover material covered in the most recent weeks since the last quiz.

Final Presentations:

Presentations will be performed by all students, which will be graded based upon performance metrics presented in the classroom. Details about the Final Presentation will be given in class throughout the semester.

Study Expectations:

It is usually expected that students will spend approximately 2 hours of study time outside of class for every one hour in class. Some students may need more outside study time and some less.

Grading

Calculation of Grades:

Individual scores for each student will be posted on the course website.

Class participation	20% of the grade
Homework	30% of the grade
Quizzes	20% of the grade
Final Presentations	30% of the grade

Grading Scale: A=90-100, B=80-89, C=70-79, D=60-69, F= <60

Course Policies & Safety Issues

Several class rules are in effect:

1. Please be in class on time; that means before 3 PM. Late arrival is disruptive and students may suffer in their grade since they tend to miss information given out to the class.
2. No cell phones or pagers are to be “on” during class. Turn them off or leave them elsewhere.
3. Refrain from talking during presentations and discussions. It is annoying, disruptive and is not acceptable.
4. It is expected that all students ask questions (when appropriate) and provide comments during the class period.
5. If you are absent from class, it is your responsibility to check on announcements made while you were away. Generally attendance is not taken since there is a direct correlation between grades and attendance.

University Policies

Students with Disabilities:

Upon identifying themselves to the instructor and the university, students with disabilities will receive reasonable accommodation for learning and evaluation. For more information, contact Services to Students with Disabilities in Henry Madden Library, Suite 1202 (559-278-2811).

Honor Code:

“Members of the CSU Fresno academic community adhere to principles of academic integrity and mutual respect while engaged in university work and related activities.” Students should:

1. understand or seek clarification about expectations for academic integrity in this course (including no cheating, plagiarism and inappropriate collaboration)
2. neither give nor receive unauthorized aid on examinations or other course work that is used by the instructor as the basis of grading.
3. take responsibility to monitor academic dishonesty in any form and to report it to the instructor or other appropriate official for action.

Instructors may require students to sign a statement at the end of all exams and assignments that states:

**“I have done my own work and have neither given nor received
unauthorized assistance on this work.”**

Cheating and Plagiarism:

"Cheating is the actual or attempted practice of fraudulent or deceptive acts for the purpose of improving one's grade or obtaining course credit; such acts also include assisting another student to do so. Typically, such acts occur in relation to examinations. However, it is the intent of this definition that the term 'cheating' not be limited to examination situations only, but that it include any and all actions by a student that are intended to gain an unearned academic advantage by fraudulent or deceptive means. Plagiarism is a specific form of cheating which consists of the misuse of the published and/or unpublished works of others by misrepresenting the material (i.e., their intellectual property) so used as one's own work." Penalties for cheating and plagiarism range from a 0 or F on a particular assignment, through an F for the course, to expulsion from the university. For more information on the University's policy regarding cheating and plagiarism, refer to the Class Schedule (Legal Notices on Cheating and Plagiarism) or the University Catalog (Policies and Regulations).

Computers:

"At California State University, Fresno, computers and communications links to remote resources are recognized as being integral to the education and research experience. Every student is required to have his/her own computer or have other personal access to a workstation (including a modem and a printer) with all the recommended software. The minimum and recommended standards for the workstations and software, which may vary by academic major, are updated periodically and are available from Information Technology Services or the University Bookstore (<https://www.kennelbookstore.com/>). In the curriculum and class assignments, students are presumed to have 24-hour access to a computer workstation and the necessary communication links to the University's information resources."

Disruptive Classroom Behavior:

"The classroom is a special environment in which students and faculty come together to promote learning and growth. It is essential to this learning environment that respect for the rights of others seeking to learn, respect for the professionalism of the instructor, and the general goals of academic freedom are maintained. Differences of viewpoint or concerns should be expressed in

terms which are supportive of the learning process, creating an environment in which students and faculty may learn to reason with clarity and compassion, to share of themselves without losing their identities, and to develop and understanding of the community in which they live. Student conduct which disrupts the learning process shall not be tolerated and may lead to disciplinary action and/or removal from class."

Copyright policy:

Copyright laws and fair use policies protect the rights of those who have produced the material. The copy in this course has been provided for private study, scholarship, or research. Other uses may require permission from the copyright holder. The user of this work is responsible for adhering to copyright law of the U.S. (Title 17, U.S. Code). To help you familiarize yourself with copyright and fair use policies, the University encourages you to visit its copyright web page:

<https://library.fresnostate.edu/info/copyright-policy>

Technology Innovations for Learning & Teaching (TILT) course web sites contains material protected by copyrights held by the instructor, other individuals or institutions. Such material is used for educational purposes in accord with copyright law and/or with permission given by the owners of the original material. You may download one copy of the materials on any single computer for non-commercial, personal, or educational purposes only, provided that you (1) do not modify it, (2) use it only for the duration of this course, and (3) include both this notice and any copyright notice originally included with the material. Beyond this use, no material from the course web site may be copied, reproduced, re-published, uploaded, posted, transmitted, or distributed in any way without the permission of the original copyright holder. The instructor assumes no responsibility for individuals who improperly use copyrighted material placed on the web site.

Tutoring:

For free tutoring, contact the Pathways: Student Services Center within the Lyles College of Engineering:

<https://www.fresnostate.edu/engineering/student-services/>

You also can reach the Pathways: Student Services Center at 559-278-5408.

Tentative Course Schedule

	Date	Topic	Reading/Assignment
1	Fri, Aug 26	Personal Meeting with LCOE Honors Director	None
2	Fri, Sep 02	Pictures; Syllabus; Course/LCOE Honors Expectations	Engineering Discipline
3	Fri, Sep 09	Overview of Engineering Professions	WEC: Top 10 Technologies
4	Fri, Sep 16	Top 10 Emerging Technologies of 2016	Presentation Preparation
5	Fri, Sep 23	Top 10 Emerging Technologies of 2016	WEC: Global Info Tech Report
6	Fri, Oct 30	The Global Information Technology Report 2016	Presentation Preparation
7	Fri, Oct 07	The Global Information Technology Report 2016	WEC: Global Risks Report
8	Fri, Oct 14	The Global Risks Report 2016	Presentation Preparation
9	Fri, Oct 21	The Global Risks Report 2016	Globalization Issue Identification
10	Fri, Oct 28	Research on Globalization Issue	Globalization Research
11	Fri, Nov 04	Research on Globalization Issue	Globalization Research
12	Fri, Nov 11	VETERANS DAY	
13	Fri, Nov 18	Globalization Presentations	Globalization Presentation
14	Fri, Nov 25	THANKSGIVING BREAK	
15	Fri, Dec 02	Globalization Presentations	Globalization Presentation

Subject to Change

This syllabus and schedule are subject to change in the event of extenuating circumstances.