

**EL 1301**

# **ENGINEERING INNOVATION AND LEADERSHIP**

**SPRING 2022  
CRN 29437**

## **MEETING TIMES**

MWF - 9:30 AM TO 10:20 AM

## **LOCATION**

E-LEAD STUDIOS - CRBL 102

## **TEACHING TEAM**

ALL TEACHING TEAM MEMBERS CAN BE  
REACHED VIA EMAIL OR BY  
APPOINTMENT

### Peter Golding

pgolding@utep.edu

Office Hours - 8:30 am - 9:20 am M

9:30 am - 10:20 am T

4:30 pm - 5:20 pm W

3:30 pm - 4:20 pm TH

9:00 am - 9:30 am F

### Cole Joslyn

chjoslyn@utep.edu

Office Hours- 9:00 am - 10:00 am T

### Dhanytza Gonzalez

Office Hours -10:30 am - 11:30, TH

dagonzalez21@miners.utep.edu

### Haydee Holguin

Office Hours - 10:30 am - 11:30 am, F

hgholguin@miners.utep.edu

## **OVERVIEW**

The Engineering Innovation and Leadership course is designed to equip you with fundamental skills that will help you thrive throughout your personal and professional relationships, work and lifelong learning goals. One major focus of the course is learning through inquiry of the process by which arts, business, science and mathematics are utilized to develop critical thinking competencies, and though engaging in creative thinking as a leader and as an engineer. We also seek to help you perceive and recognize opportunities for professional development beyond the classroom experience.

## **GOALS OF THIS COURSE**

Through the Engineering Innovation and Leadership course, students will gain a foundation of knowledge of innovation, technological and leadership advancement in modern society, develop principles of personal, professional and social responsibility for living in a diverse world, and advance intellectual and practical skills that are essential for all learning.

## **COURSE OBJECTIVES**

- Critical Thinking
- Communication
- Empirical and Quantitative Skills
- Teamwork Competencies
- Social Responsibility
- Personal Responsibility

## **LEARNING OUTCOMES**

- Developing Leaders Key Components
- Developing Leaders Empirical, Quantitative and Integrative Measures
- Developing Leadership for Organizational Challenges

## **ACADEMIC INTEGRITY**

Students are expected to uphold the highest standards of academic integrity and achieve excellence in the quality of work produced as an individual. Students are to adhere to standards of integrity and ethical work. Avoid acts of dishonesty such as cheating, plagiarism, et cetera. Refer to OSCCR:

<https://www.utep.edu/student-affairs/osccr/student-conduct/academic-integrity.html>

## ENGINEERING INNOVATION AND LEADERSHIP

### READING AND RESOURCES

- Research articles obtained through UTEP library research resources, and download of articles from Blackboard, in beyond-the-class experiences, and in preparation for class discussion.

### MAKE-UP POLICY

- No makeup exams will be allowed except with proper documentation, i.e. doctor's note, hospital's note, or UTEP excused absence document.

### FINAL GRADE BREAKDOWN

ATTENDANCE & PARTICIPATION	10%
HOMEWORK & ACTIVITIES	20%
DESIGN PRESENTATIONS	15%
TEAM PROJECT: SAFETY DESIGN	25%
INDIVIDUAL PROJECT: INSIDE OUT	15%
WRITTEN COMMUNICATION	10%
FINAL ANALYSIS	5%

### CLASS MANAGEMENT

- Attendance: Students are encouraged to actively participate in all class sessions. Absences are allowed for emergencies but must be justified/documentated with the teaching team. Late assignments will not be accepted unless explained. Participation will be part of the course grade. Two unexcused absences will account for a 10-point deduction.
- Electronic devices: Use of mobile computers and phones is allowed during the class. Students will be asked to research topics, on occasion, during class. Please do not abuse the access: texting and answering emails et cetera is discouraged, enabling you to concentrate on the topics at hand.
- Students that have a disability or need classroom accommodations, please contact The Center for Accommodations and Support Services (CASS) at phone 747-5148 or by email to [cass@utep.edu](mailto:cass@utep.edu), or visit them in UTEP Union Building East, Room 106. See Additional Syllabus Statements below.

### COVID-19 PRECAUTION STATEMENT

Please stay home if you have been diagnosed with COVID-19 or are experiencing COVID-19 symptoms. If you are feeling unwell, please let me know as soon as possible, so that we can work on appropriate accommodations. If you have tested positive for COVID-19, you are encouraged to report your results to [covidaction@utep.edu](mailto:covidaction@utep.edu), so that the Dean of Students Office can provide you with support and help with communication with your professors. The Student Health Center is equipped to provide COVID-19 testing.

The Center for Disease Control and Prevention recommends that people in areas of substantial or high COVID-19 transmission wear face masks when indoors in groups of people. The best way that Miners can take care of Miners is to get the vaccine. If you still need the vaccine, it is widely available in the El Paso area, and will be available at no charge on campus during the first week of classes. For more information about the current rates, testing, and vaccinations, please visit [epstrong.org](http://epstrong.org).