

EL 1405: FUNDAMENTALS OF ENGINEERING LEADERSHIP AND GRAPHICS

Fall 2020, CRN 16240

The Fundamentals of Engineering Leadership and Graphics course is designed to equip you with fundamental skills that will help you thrive during your pursuit of a B.S. in Engineering Innovation and Leadership. Our goal is for you to get off to a great start in your higher education pathway. Therefore, one major focus of the course is helping you develop your identity as a leader and as an engineer. Another focus of this course is building community and understanding the culture, expectations, and structure of the E-Lead program. We also seek to help you perceive and recognize opportunities for professional development beyond the classroom experience. Furthermore, this course introduces you to the way we teach in the E-Lead program using techniques such as the flipped classroom method and project-based learning. The final focus of this course is helping you develop engineering graphics skills. This includes building skills in 2D and 3D sketching and creating assemblies and animations using contemporary computer-aided design software.

KEY COURSE GOALS

Design & Creativity
Content Learning (Graphics)
Communication
Teaming & Collaboration
Community

MEETING TIMES

Tuesdays & Thursdays
1:30 PM - 2:50 PM
Via Blackboard Collaborate Ultra supported by and additional platforms, as helpful, including Remo, Microsoft Teams, and Zoom

TEACHING TEAM

Anneliese Fensch
amfensch@miners.utep.edu
Virtual Office hours: W 10:30-11:30 AM,
F 11:30-12:30 PM or by appointment

Cole Joslyn
chjoslyn@utep.edu
Virtual Office hours: T 11:00-12:00 PM

Magdalena Guillen
miguillen@miners.utep.edu
Virtual Office hours: M 10:00-12:00 AM
or by appointment

Maximo Gamez
msgamez@miners.utep.edu
Virtual Office hours: by appointment

Peter Golding
pgolding@utep.edu
(915) 747-8125
Virtual Office hours: M 4:30-5:30 PM,
R 10:15-11:15 AM, F 3:15-4:15 PM
or by appointment

Vidal Guzman
vguzman4@miners.utep.edu
Virtual Office hours: M 1:30-3:30 PM
or by appointment

REQUIRED MATERIALS

We will provide online access to all needed resources through documents, text, and video.

Please also download access to one of the two following programs. *



Autodesk Inventor Software 2020 Edition



Autodesk Fusion 360 Software 2020 Edition

*Student's discretion: If you have a Windows Operating System, Autodesk Inventor is recommended. If you have an IOS Operating System, Autodesk Fusion 360 is recommended.

ATTENDANCE POLICY**

Attendance is required in every class period. **Attendance requires sharing your device camera (so we can see you) as well as audio.** In the event that you must miss class, contact one of the members of the teaching team in advance letting them know you will not be able to attend. If you fail to do so or are missing class for reasons not approved by the University (religious holidays, illness, etc.), it will be counted as an unexcused absence. More than three unexcused absences will result in a 10% drop in your final grade. Every three late arrivals (i.e., more than five minutes late) are counted as one absence.

**Due to the current circumstances regarding remote learning, if you have connectivity issues please contact one of the members of the teaching team so that we can accommodate your needs.

LEGALESE

Academic Dishonesty: students are encouraged to collaborate throughout the semester, but all graded materials must represent the student's individual work. (When in doubt, ask!) Academic dishonesty is the attempt to present the work of somebody else as his or her own work or attempting to pass any assignment by improper means. It is a serious offense and will not be accepted. Any misconduct will be handled according to the current university policy and reported in accordance with university regulations. For more information visit the Dean of Students or <http://studentaffairs.utep.edu>.

SPECIAL ACCOMMODATIONS

If you would like to request special accommodations due to a disability, we can certainly work that out. Please contact the Center for Accommodations and Support Services via their website <http://sa.utep.edu/cass/>.

FINAL GRADE BREAKDOWN

Design Presentations	15%
Project 1: Design Heuristic Challenge	20%
Project 2: Inside Out	20%
Homework	15%
Folders & E-Portfolios	10%
Weekly Journals	10%
Active Participation	10%