

EL 1405 - Fundamentals of Engineering Leadership and Graphics

Spring 2020, CRN 26555

This 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 BS in Engineering Leadership. Therefore, one major focus of the course is on helping you develop your identity as a leader and as an engineer. Another focus of the course is on building community and understand the culture, expectations, and structure of the E-Lead Program. Further, 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 on helping you develop engineering graphics skills. This includes building skills in sketching of 2D and 3D drawings, creating assemblies, and creating animations using contemporary computer aided design software.

Welcome to the E-Lead family!



KEY COURSE GOALS

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



MEETING TIME AND LOCATION

Tuesdays and Thursdays
from 1:30-2:50pm
E-Lead Studios, C-201

INSTRUCTORS

Dr. Meagan Kendall
mvaughan@utep.edu
EEL Department, E230.A
Office Hours: 11:30-1:30 Th
Or by Appointment

Dr. Peter Golding
pgolding@utep.edu
EEL Department, E230.F
Office Hours: By Appointment

Phase 1

Creativity, Collaboration & Design

- Hands-on prototyping
 - Teamwork
- Problem solving
- Product design
- Business plan basics
- Leadership skills

Phase 2

Identity

- Personal identity
- Engineering identity
- Getting to know E-Lead
- Communicating your identity through sketching and prototyping
 - Communication
- Oral presentation skills

STUDENT INSTRUCTORS

MAXIMO GAMEZ (Team Manager)

mgamez@miners.utep.edu

Office hours: 12:00-1:30 T and Th

Or by appointment

MAGDALENA GUILLEN (Leadership)

miguillen@miners.utep.edu

Office hours: 1:30-2:30 M and W

Or by appointment

VIDAL GUZMAN (Graphics)

vguzman4@miners.utep.edu

Office hours: 11:00-12:00/3:00-4:00 W

Or by appointment

NAIN ORTIZ

nortiz9@miners.utep.edu

Office hours: 1:30 -2:30 M and W

Or by appointment

COURSE WEBSITE

Blackboard

REQUIRED TEXT/MATERIALS



Leadership: Theory and Practice, 8th Edition

Peter G. Northouse

ISBN-13: 978-1483317533



Autodesk Inventor Software

!!!! 2020 EDITION !!!!!!!

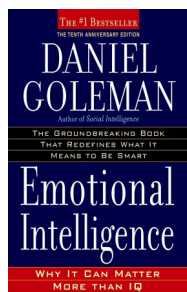


3 Ring Binder

Agenda Notebook/ Daily Planner

Binder Dividers

\$20 prototyping budget per project



Emotional Intelligence

Book by Daniel Goleman

Attendance Policy

Attendance is required in every class period. In the event that you must miss class, you must contact the teaching team in advance to let them know that you will not be able to attend. If you fail to do so or are missing class for reason's not approved by the University (i.e. religious holidays, illness, etc.), it will be counted as an absence. More than 3 absences will result in a 10% drop in your final grade. Every 3 late arrivals (i.e., more than 5 minutes late) are counted as 1 absence.

See also separate Course Policies Document for policies on the use of electronics, late submissions, teamwork, etc.

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 info visit the Dean of Students or <http://studentaffairs.utep.edu>.

Special Accommodations

If you would like to request special accommodation 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

4 Design Reviews	20%
Phase 1 Project and Activities	15%
Phase 2 Project and Activities	15%
Homework	20%
Notebook & E-Portfolio	10%
Participation (Attendance, in-class activities, etc.)	10%
Quizzes	10%