

University of Texas at El Paso
Foundations of Engineering
UNIV 1301: Fall 2019

Course Information: UNIV 1301 Seminar/ Critical Inquiry (EC)

Classroom: MNRS 301

CRN: 17000

Class Time: MWF 9:30-10:20

INSTRUCTOR: Arifur R. Khan, Ph.D.
OFFICE: **Engineering Building, 3F, Room: A-317**
PHONE: 915-747-5484
EMAIL: arkhan@utep.edu
OFFICE HOURS: **MW; 12pm to 2pm** (Else by Appointment)
PEER LEADER: Luis Andres Nunez
Email: lanunez5@miners.utep.edu
Office Hours: **TR, 1pm to 2pm, UGLC 214**, (Else by Appointment)
ADVISOR: Patricia Mendoza
LIBRARIAN: Debjani Mukhopadhyay
TEXT: Studying Engineering: A Road Map to a Rewarding Career, 5th Edition, by Raymond B. Landis (2018). Los Angeles: Discovery Press.
FELLOW CLASSMATES:

Other materials needed:

One 3 ring binder or notebook for readings/handouts, class notes, assignments and/or journal entries.

Course Description:

“Foundations of Engineering” is the **Gateway** to your engineering education at the University of Texas at El Paso and to the exciting profession of engineering. You will have the opportunity to make meaningful connections to the magic of engineering and to contribute to the UTEP legacy of leadership in developing outstanding students and career professionals. The Foundations **you** build will enable you to be a successful student and a successful engineer!

The foundations are tools for developing:

- academic skills and personal growth skills
- engineering skills in critical thinking and problem solving
- mathematical tools and applications for engineering
- connections with the engineering profession and opportunities to appreciate the world of engineering

At the end of the semester, you will:

- Develop and apply elements of leadership through effective individual participation and meaningful team collaboration.
- Examine your roles and responsibilities crucial for your success in college and beyond.
- Identify, assess, and build on your strengths and experiences to develop academic and transitional strategies necessary for success in your academic, career, and life goals.
- Engage in research and critical thinking activities that demonstrate your ability to effectively integrate your learning within, across, and beyond academic settings
- Engage in campus and community activities to increase your sense of academic and social belonging.

The Center for Accommodations and Support Services (CASS): Students requiring unique accommodations must contact the CASS office and provide their instructor with the proper documentation at the beginning of the semester. CASS office may be contacted at 747-5148, cass@utep.edu or go to Room 106 Union East Building.

Grading:	2 Exams	30%
	Project and Presentation	20%
	Homework, quiz, Assignment	25%
	Attendance and Class participation	15%
	Mentoring and Survey	10%

Project: The project will be a team design engineering project. More information and deadlines about the project will be given at a later date.

Presentation: The presentation will be about the project you designed. It will be a fifteen minute presentation using power point. All of the team members are required to present.

Homework/Assignment:

The homework must be turned in at the beginning of the class by the due date. As part of your homework, you may be required to have at least 1 mentoring session and attend some UTEP events.

Quizzes: The quizzes will be given at the beginning of the class. No make-up quiz will be given if you are late or absent without valid reason.

Class Participation and Activities:

There will be many in class group and individual activities. In order to get a grade for them you must participate in the activity. There will be no make up for any of the class activities.

Survey: There will be an end-of-semester survey. Your participation is important and it will count towards 10% of your final grade.

Grading Scale:

A= $\geq 90\%$;

B= $< 90\%$ and $\geq 80\%$;

C= $< 80\%$ and $\geq 70\%$;

D= $< 70\%$ and $\geq 60\%$;

F= $< 60\%$ (UTEP Standard)

Grace: 1%, if score is close to next higher grade

Attendance: You are required to come to class and be on time. Attendance is very important since during class you will be given the tools needed to successfully complete this class. You must contact your peer leader and/or instructor if you know you will be absent either by phone or email. It is your responsibility to get all the lecture notes, assignments, and hand-outs you missed. An excused absence will only be given as described in the undergraduate catalog. If you want to be dropped after the automatic W deadline, you must contact your professor or peer leader. Although you can be dropped for excessive absences (5 or more missed lectures), do not assume that if you stop showing up to class, you will be dropped.

Mentoring: You will be meeting, on a one-to-one basis, with your peer leader and your instructor at least twice during the semester. Each meeting will count as one homework.

Missing assignments and exams:

- You will be allowed one make up homework assignment during the course of the semester. 5 points will be deducted for each week the assignment is late.
- Exams can only be made up from the day the exam is given in class to the next class day. Example: if the exam is on a Tuesday, you can take the exam on that Tuesday, Wednesday (the next day) and Thursday (prior to the class time). However, 10 points will be deducted from your actual grade for missing an exam without valid reason

Academic Conduct:

Academic dishonesty will not be tolerated. You must submit your work only. If you are found to be cheating or plagiarizing, you will be subject to disciplinary action, per UTEP catalog policy (<http://www.utep.edu/dos/acadint.htm>).

Cell Phone: All cell phones must be turned off before the beginning of the class. If a student forgets to turn it off, he/she will have to leave the classroom and may only return with the instructor's permission.

Harassment: Please be aware that harassment is unacceptable in the classroom. Jokes, comments of sexual nature, as well as racist comments will not be tolerated. The student that violates this rule will be sent to the Dean of students for disciplinary action.

The instructor reserves the right to make any changes to the syllabus during the term of the semester. Any changes made to the syllabus will be notified to the students by the instructor prior to the lecture week.

I welcome you to a new semester and hope that you will make the effort to learn as much as you can. I know each one of you has the potential to make an A.

Fall 2019: Important Dates:

Date and Time	Events
Aug 26th	Fall classes begin
Aug 26th -30th	Late Registration Period(Fees are incurred)
Sept 2nd	Labor Day Holiday- University Closed
Sept 11th	Fall Census Day
Sept 19th and 20th (9am to 2pm)	Career EXPO (Don Haskins Center
Sept 29- Oct 5th	UTEP Home Coming 2019
Sept 29th	10 th Annual Miner Dash 5k Run/3k Walk and Family Fitness Fiesta
Oct 2nd (10am to 1pm)	Graduate and Professional Schools Fair (Union Building East, 3 rd Floor)
Oct 28th	Spring 2020 Registration Begins
Nov 1st	Fall Drop/Withdrawal Deadline
Nov 28th and 29th	Thanksgiving Holidays (University closed)
Dec 5th	Last day of classes
Dec 6th	Dead day
Dec 7th (1pm to 4pm)	ESP Research and Creative Projects Showcases
Dec 9th -13th	Fall Final Exams
Dec 11th	Final Presentation/Final Exam
Dec 18th	Grade are due
Dec 19th	Grades are posted to students records.

Course Lecture Calendar (Subject to Change)

Week/DATE		Class Topics	Homeworks
Week 1	08/26	Introduction. Syllabus. Talk About High Impact Practices (UTEP Edge). In Class activity	Buy Textbook. Read Prologue and bring exercise next class
	08/28	BOOK-CHAPTER 1-Keys to Success in Engineering Study. Group Discussion.	Book Homework -Due Next Class
	08/30	Leadership In Class Exercise #1	Leadership skills Inventory -Due Next Class
Week 2	09/02	LABOR DAY HOLIDAY NO CLASSES	University Closed
	09/04	BOOK-CHAPTER 2- The Engineering Profession. Activities.	Assignment on ENGR Career-Due Next Class
	09/06	Space Science for Engineers-1	Homework -Due next class
FIRST LIBRARY VISIT SCHEDULED SEPT 9-27			
Week 3	09/09	In-class activity using Choices 360 to clarify their career goals and write a journal entry reflecting on them	Homework on Choices 360 & Assignment on Long and Short Term Goals Library Modules-DUE before next class.
	09/11	First Library Visit- Orientation	Scavenger Hunt
	09/13	Space Science for Engineers-2	Homework -Due next class. Bring current resume or resume draft-Due next week
Week 4	09/16	Resume Writing/STAR Method/Resume Worksheet	Revised Resume -Must Include STAR Statements- DUE Next Week
	09/18	BOOK-CHAPTER 3-Understanding the Teaching and Learning Process Students to CAREER EXPO (9/19)	Book Homework -Due Next Class CAREER EXPO Homework
	09/20	Attending CAREER EXPO	CAREER EXPO Homework due next class.
Week 5	09/23	Space Science for Engineers-3	Homework -Due next class
	09/25	BOOK-CHAPTER 4-Making the Most of How you are Taught.	Book Homework-Due Next Class
	09/27	Space Science for Engineers-4	Homework -Due next class
ADVISOR PRESENTATION TO BE SCHEDULED : SEP 30-OCT 11			
Week 6	09/30	Space Science for Engineers-5	Homework -Due next class
	10/02	BOOK-CHAPTER 5-Making the Learning Process Work for You.	Book Homework-Due Next Class
	10/04	Leadership In Class Exercise #2	Leadership Assignment 2-Due next week
Week 7	10/07	Compliance. Advisor Presentation. Degrees. Catalog. Policies. GPA Calculation. Review Exam 1.	Write About Event/Experience Study for Exam

	10/09	Exam 1.	
	10/11	Mentoring: Talk to students one on one School Math Practice (PL)	Homework -Due next class
OSCCR PRESENTATION SCHEDULED OCT 14-25			
Week 8	10/14	Mentoring: Talk to students one on one School Math Practice (PL)	Homework -Due next class
	10/16	Mentoring: Talk to students one on one School Math Practice (PL)	Reflection on Presentation
	10/18	OSCCR Presentation & Case Studies	Homework -Due next class
COUNSELING CENTER PRESENTATION SCHEDULED : OCT 28-NOV 8			
Week 9	10/21	Project Planning, design and execution-1	Homework -Due next class
	10/23	Second Library Visit. Assign Project Teams and Topics.	Use Lib Guide to find research topic sources
	10/25	Project Planning, design and execution-2	Homework -Due next class
Week 10	10/28	Counseling Center	Homework -Due next class
	10/30	BOOK-CHAPTER 6 -Personal Growth and Student Development.	Book Homework-Due Next Class
	11/01	Project Planning, design and execution-3	Homework -Due next class
Week 11	11/04	Project Planning, design and execution-4	Homework: Mentoring with Peer Leader
	11/06	Project Planning, design and execution-5	Homework -Due next class
	11/08	Project Planning, design and execution-6	Homework -Due next class
Week 12	11/11	Project Planning, design and execution-7	Homework -Due next class
	11/13	Project Planning, design and execution-8	
	11/15	Review for exam-2	Homework -Due next class
Week 13	11/18	Exam-2	
	11/20	Project Planning, design and execution-9	Homework -Due next class
	11/22	Project Planning, design and execution-10	Homework -Due next class
Week 14	11/25	BOOK-CHAPTER 7 - Broadening Your Education. Global Engineering Programs (Study Abroad)	Book Homework-Due Next Class
	11/27	BOOK-CHAPTER 8 - Orientation to Engineering Education.	Book Homework-Due Next Class
	11/29	Project Planning, design and execution-11	Homework -Due next class
Week 15	12/02	Project Planning, design and execution-12	Homework-Due Next Class
	12/04	Projects Finalization and Submission	Final Projects due to ESP Office, UGLC 118
	12/06	DEAD DAY-NO CLASSES	
Week of Finals Dec 9-13			
	12/7	Project Showcase (1pm to 4pm)	Entering Students Research and Creative Projects Showcase.
Week 16	12/11	Student's project presentations as Final Exams	10am to 12:45pm (Regular classroom)

Green-BOOK Red- Subject to change