

University of Texas at El Paso

UNIV 1301: Foundations of Engineering

Fall 2014

CRN: 11296

Class time: MW 12:00PM-1:20PM

Classroom: CRBL C001 (Classroom
Building Basement)

Instructional Team:

Instructor	Miroslava Barúa	Phone	747-5720
Office	E320 (Engineering Bldg.)	E-mail	miroslav@miners.utep.edu
Office Hours	MW 1:30PM –2:30PM or by appt.		

Peer Leader	Angel Ortega	E-mail	agortega@miners.utep.edu
Office Hours	TBA	Office	UGLC 214

Librarian	Debjani Mukhopadhyay	Phone	747-6715
Office	Library 215	E-mail	dmukhopadhyay@utep.edu

Advisor	Michael Everett	Phone	747-8684
Office	ENG 226C (PREE office)	E-mail	mleverett@utep.edu

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

Learning Objectives

At the end of the semester you will:

- Understand your role, opportunities and responsibilities as an engineering student that will impact your success within the context of the university.

- Have learned about and practiced essential academic for success in your college education and in lifelong learning
- Have started to build a strong network of faculty, staff, and peers in order to create a supportive and positive learning experience/environment.
- Understand your own interests, abilities and values in order to more efficiently pursue your academic, career, and life goals.
- Have become involved in UTEP and College of Engineering activities and have learned how to take advantage of campus resources.

Required Course Materials

1. Textbook: “**Studying Engineering: A Road Map to a Rewarding Career**”, 4th Edition, by Raymond B. Landis (2013). Los Angeles: Discovery Press
2. A 3-ring binder with dividers for readings/handouts, class notes, assignments, journal entries
3. Use of @miners e-mail account and Blackboard for class resources and announcements

Grading & Course Assignments

There will be no curving of grades in this course.

Grading will be based on the standard scale:

90% >.....A
 80% -89%.....B
 70% -79%.....C
 60% -69%.....D
 Below 59%.....F

Course Assignment Distribution:

2 Exams	30%
Final Exam	15%
Project & Presentation	20%
Homework, quizzes & class activities	30%
Mentoring meetings, class participation & End-of-Semester Survey	5%
Total	100%

Exams:

Each exam (1, 2 and final) will assess your knowledge of the engineering math applications studied during each period of the course as well as the academic skills, resource usage and covered material from the textbook. All exams are closed book. I expect you to use class discussions/notes, problem sets and quizzes as your study guide.

Project & Presentation:

You will participate in a team design engineering project. More information and deadlines about the project will be given at a later date. You'll also need to prepare a presentation (power point, 15 minutes) about the project you designed. All of the team members are required to present.

Homework:

A significant portion of your content mastery depends on completion of homework assignments. Virtually every class will have a homework assignment (textbook reading, individual or group problem sets, attend UTEP events, etc.). You must submit your homework at the beginning of the class by the due date. Late homework will only be accepted in the case of illness or an emergency; you are responsible for notifying your peer leader or me as soon as possible (before class) of the situation (illness or emergency) necessitating late submission of homework. Good homework presentation, including neatness and legibility, are expected and required. Some assignments will be typed, others handwritten.

Quizzes and class activities:

Random quizzes will be given to assess your basic understanding of the class topics and provide you with feedback. Quizzes may be given at the beginning of the class or at any point of the session. No make-up quiz will be given if you are late or absent for any reason. There will also be many activities during class. In order to get a credit for a given activity you must actively participate in it. There will be no make-up for any of the class activities.

Mentoring Meetings & End-of-Semester Survey:

You are required to meet on a one-to-one basis with the Instructional Team (Peer Leader, Instructor, Academic Advisor, and Librarian) at least once during the semester. You shall also complete an End-of-Semester feedback survey (online) provided by Entering Student Program (ESP) to help us improve the course.

Learning Environment

Prepare in advance:

In order to be successful in individual or team learning, each student must come to class prepared to participate. This means that you must complete reading assignments, library or Internet research, writing assignments, surveys, self-assessments, homework, and other assignments **BEFORE** you arrive to the classroom. Coming to class late is unprofessional and is very disruptive to the class. If you are late to class, you are to come in quietly and take your seat but DO NOT attempt to turn in assignments;

Classroom Etiquette/ Student Conduct:

You must be courteous, respectful and professional in the way you address others; either in person or in writing. **All** submitted work **must have** Student's Name, Class Name & Section and Due date.

E-mail Communication:

For all your class related e-mails use the prefix "**UNIV 1301** followed by the rest of the message's subject description (Example: "*UNIV1301: Question about homework*").

Course & University Policies

Attendance:

Attendance is mandatory; it is the **key** to your academic success. If you have three unexcused absences from class I will ask you to meet with me to discuss your progress in the class, and you may be dropped from the course. The grade that you receive will be a W until **October 31st, 2014, course drop deadline**. After this date, the grade you receive will be an F, and only under exceptional circumstances a W. Absences for University-recognized activities (such as athletics, band/orchestra, cheerleading, conferences or field trips), religious holy days, or military leave, will be excused only if I am notified before the absence occurs. You are responsible for obtaining notes, handouts, and assignments and for meeting the same deadlines as the rest of the class.

Electronic Devices:

Use professional discretion with electronic devices by shutting them off, or setting them to mute or silent mode before coming to class. Do not answer incoming calls or make outgoing calls except in an

emergency. **Do not use text messaging or web browser features while in class** unless you are instructed to do so.

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

Scholastic Integrity/Academic Honesty:

Any form of academic dishonesty **will not be tolerated**. "Plagiarism" is the unattributed use of someone else's work -- a classmate's, a website's, even a teacher's from another course. In accordance with University regulations, scholastic dishonesty on a given assignment **will** be subject to disciplinary action and **will** be referred to the Dean of Students. Dishonesty/cheating/plagiarizing may result in a zero on the assignment, an "F" in the course, or even suspension from the university. If you need assistance with your assignments, please consult authorized sources of help. For more information on Scholastic Dishonesty and/or Plagiarism, consult the [Handbook of Operating Procedures: Student Affairs](#), which is available in the Office of Student Life.

Tips for Success in this class:

1. Come to class and take notes.
2. Read and study textbook, hand-outs, and complete reading assignments before class.
3. Visit instructional team during office hours if you need assistance, or use e-mail to set up an appointment
4. Finish your assignments early. Ask someone to proofread your work so that you can incorporate any suggestions that they provide for improving your work.
5. Don't cram for examinations; start your success by not falling behind!
6. Take advantage of the peer leader, academic advisor and librarian, office hours, UTEP resources, College of Engineering resources.

Important Dates:

Fall 2014

Labor Day – no classes	September 1
Homecoming Week	October 6 – 11
Mid-term grades (e-mailed)	October 27
Course Drop deadline	October 31
Thanksgiving – no classes	November 27 – 28
Dead Day	December 5

Our Final Exam

**Friday, December
12th 1:00pm-
3:45pm**

College of Engineering Dates

Gold Rush/College of Engineering Open House	September 3, 2014
Engineering Mixer	September 17, 2014
Career Expo	September 18 & 19, 2014
Order of the Engineer / Hooding Ceremony	December 13, 2014
TCM Celebration	March 20, 2015
Order of the Engineer / Hooding Ceremony	May 16, 2015

Course Schedule:

This schedule will be distributed as a separate document highlighting key assignments, deadlines, and activities. Such document is subject to changes at the discretion of the instructor to adapt to the needs of the class.