The University of Texas at El Paso  
Foundations of Engineering  
UNIV 1301  
Fall 2016

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Where</th>
</tr>
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<tbody>
<tr>
<td>1:30 – 2:50 pm</td>
<td>MW</td>
<td>ACES CRBL 004</td>
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</tbody>
</table>

INSTRUCTOR: David A. Roberson, Ph.D.
OFFICE: Metallurgy M201-L
PHONE: 915-747-5924
EMAIL: droberson@utep.edu
OFFICE HOURS: M,W 3:00 to 4:00 or by appointment
PEER LEADER: Carlos D. Cervantes cdcervantes@miners.utep.edu
ADVISOR: Linda Vera 747-6779 ENG226 lsvera@utep.edu
LIBRARIAN: Debjani Mukhopadhyay 747-6715 LIB 215 dmukhopadhyay@utep.edu

Additional Materials: A 3-ring binder

Note: When using e-mail to communicate with the instructor, please use only your UTEP e-mail account.

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:
• Begin to understand your role, opportunities and responsibilities that impact your success within the context of the university.
• Have learned about and practiced essential academic skills in order to strengthen performance in the university setting.
• Begin to build a strong network of faculty, staff, and peers in order to create a supportive and positive learning experience/environment.
• Begin to assess and better understand your own interests, abilities and values in order to more efficiently pursue your academic, career, and life goals.
• Have become involved in UTEP activities and campus resources.

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:

<table>
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<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>2 Exams</td>
<td>40%</td>
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<tr>
<td>Final Exam</td>
<td>20%</td>
</tr>
<tr>
<td>Project and Presentation</td>
<td>20%</td>
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<tr>
<td>Homework, quiz, class participation, activities and survey</td>
<td>20%</td>
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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: 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 for any 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 as a homework and class activity. You will be receiving an invitation in your UTEP email to complete the ESP Student Feedback Survey online in the next few weeks. This is a required assignment. IT will notify me when you have completed the survey, but will not show me your responses.
Grading Scale:  
100%-90%……….A  
89%-80%……….B  
79%-70%……….C  
69%-60%……….D  
59%-0%……….F  

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 (October 28), you must contact your professor or peer leader. Although you can be dropped for excessive absences, do not assume that if you stop showing up to class, you will be dropped. **If you have more than four (4) unexcused absences, you must drop this course or receive an F.**  

Mentoring: You will be meeting, on a one-to-one basis, with your peer leader and your instructor at least once 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. You will lose 20 points per each week the assignment is late. Exams missed due to a documented reason such as hospitalization or a death in the family can be made up at a later time agreed upon by the student and instructor. Exams missed due to an undocumented reason 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, 20 points will be deducted from your actual grade.  

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. No jokes, comments of sexual nature as well as racists will be
tolerated. The student that uses harassment will be sent to the Dean of students for disciplinary action.

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.

**What You Need: YOU! Wholeheartedly You.**
Come with an open mind. Be prepared to change your whole way of thinking. Then go on to be successful sustainably! It will take three things:

**PASSION - PERSERVERANCE - and PURPOSE**

**Tips for Success in this Class:**
1. Come to class, engage, do what you do to get the most from it (eg listen actively or take notes or both?).
2. Read and study textbook, hand-outs, and complete reading assignments before class.
3. Visit me and /or your peer leader during office hours if you need assistance, or e-mail me anytime.
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 Fall 2016 Dates:**
- Labor Day – no classes: September 5
- Fall Census Day: September 7
- Homecoming Week: October 23 – Oct 29
- Drop deadline: October 28
- Thanksgiving – no classes: November 24 -- 25
- Dead Day: December 2
- Finals Week: Dec 5 – 9

**Important College of Engineering Dates:**
- Gold Rush/College of Engineering Open House: September 7
- Engineering Mixer: September 16
- Career Expo: September 22-23
- Order of the Engineer / Hooding Ceremony: December 10
- TCM Celebration - campus-wide Celebration: March 24