Course Information
Classroom: Education Building (EDU) 301
CRN: 17001       Class Time: MWF 10:30-11:20 AM

INSTRUCTOR: Christopher Aguilar
OFFICE: E304 – Engineering Building
PHONE: (915) 747-5470 – ECE Front Desk
EMAIL: cmaquilar2@utep.edu
OFFICE HOURS: MW 11:30 AM-12:30 PM or by appointment

PEER LEADER: TBA
Email: Office Hours:

ADVISOR: Alejandro Munguia amunguia2@utep.edu
LIBRARIAN: Les Arms laarms@utep.edu

REQUIRED TEXT:

Other materials needed:
✓ Scientific calculator.
✓ One 3-ring binder or notebook for readings/handouts, lecture notes, assignments, and/or class discussions.

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.

**Grading:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Attendance</td>
<td>5%</td>
</tr>
<tr>
<td>3 Exams (equal weights)</td>
<td>30%</td>
</tr>
<tr>
<td>Project and Presentation (incl. research and report)</td>
<td>20%</td>
</tr>
<tr>
<td>Homework and Quizzes</td>
<td>20%</td>
</tr>
<tr>
<td>Class Participation and 2 Activities</td>
<td>10%</td>
</tr>
<tr>
<td>2 Mentoring Sessions</td>
<td>10%</td>
</tr>
<tr>
<td>Final Survey</td>
<td>5%</td>
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**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 course. 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. Please keep in mind that you will be dropped after 4 unexcused absences. However, if you desire to drop at any time, you must contact the instructor and peer leader.

**Exams:** There will be three (3) in class exams, which includes one (1) final exam at the end of the semester. Each exam will focus on mathematical and problem-solving skills, lecture material, and assignments. No retakes of any exam will be given without prior approval of the instructor. If you encounter an emergency and are unable to attend the exam you must give notification prior to the exam to be allowed to make it up. Additionally, validating proof for justifiable absence may be required. Exams can only be made up from the day the exam is given in class to the next class period.

*UTEP Final Exam Policy: Exemption from final exams cannot be given. Final exams are scheduled to be two (2) hours, forty-five (45) minutes in length and take place during the final exam period. It is the policy of the University not to administer a second final exam in a course. It is also University policy that students shall not have more than two final exams in a single day. In the unlikely event that the exam schedule results in a student having three final exams on a
single day, the faculty member upon the request of the student shall reschedule the second of that student’s three exams.

Project: Student will work on a team-based engineering design project. Individual and team research activities are to take place outside of class on the student’s own time and a project report will be required to be submitted along with the final project deliverable. More information and deadlines will be provided at a later date.

Presentation: Student will give a professional oral presentation during the semester relative to his/her project. This presentation will be team-based, and all team members are required to present. The theme, guidelines, and schedule for the presentation will be announced at a later date. There will not be any make ups.

Homework: All homework must be turned in at the beginning of class on the due date. Assignments should be stapled/bound and presentable (no folds, legible, etc.). Late homework will NOT be accepted, with the exception of circumstances due to illness or unforeseen emergency, in which case you are responsible for notifying your instructor or peer leader as soon as possible; validating proof for justifiable extension may be required. Selected assignments will be submitted using the UTEP Blackboard app. Specific details and/or instructions and due dates for assignments will be given in class or posted on Blackboard; therefore, it is crucial that you check your account regularly.

Note: the UTEP Blackboard App is great for course announcements, emails, and discussions. However, a desktop or laptop computer is recommended for downloading and/or reading course materials, uploading documents or submitting assignments.

Quizzes: Quizzes will be given at the beginning of the class, and may not be announced in advance. No make-up quiz will be given if you are late or absent without a valid reason.

Class Participation and Activities:
There will be several in-class group and individual activities conducted throughout the semester. In order to receive a passing grade for each task you must actively participate in the activities. Additionally, as part of your grade, you will be required to attend at least two (2) UTEP-sponsored events (qualifying events TBA) for which you will be required to show proof of attendance. There will be no make ups allowed for any of the class activities.

Mentoring: During the semester, you will meet at least once with each member of the instructional team (instructor and peer leader). An additional meeting may be required to discuss academic progress and to explore options for enhancing your educational experience. These two (2) meetings will count towards your final grade.
Survey: Upon the end of the semester, you will receive an invitation through your UTEP email account to complete an ESP Student Feedback Survey regarding your evaluation of this course. This is a required assignment, with a system-generated email sent to the instructor confirming which students have/have not completed it, thereby counting towards your final grade. The survey is anonymous and your answers will not be disclosed.

Grading Scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>90-100%</td>
</tr>
<tr>
<td>B</td>
<td>80-89%</td>
</tr>
<tr>
<td>C</td>
<td>70-79%</td>
</tr>
<tr>
<td>D</td>
<td>60-69%</td>
</tr>
<tr>
<td>F</td>
<td>0-59%</td>
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Note: UNIV 1301 is part of the University Core Curriculum and requires a “C” grade or better in order to fulfill the core requirement and successfully complete the course.

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 may be contacted at 747-5148, cass@utep.edu or go to Union East Building Room 106.

ACADEMIC INTEGRITY
Scholastic dishonesty will not be tolerated. Any student who commits an act of scholastic dishonesty is subject to discipline. Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student, or the attempt to commit such acts. 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).

Electronic Devices:
All cell phones/personal mobile devices must be turned off or muted and remain silent for the remainder of the class period. If the device actuates and disrupts the class, the student will be required to leave the classroom and may only return with the instructor’s permission.

STUDENT CONDUCT
Students are expected to demonstrate professional, courteous behavior at all times, particularly when addressing their peers or instructors during class interactions or when partaking in online discussions. Unruly behavior, harassment of any kind, and offensive language is unacceptable in any environment and will not be tolerated. Any offensive and/or intimidating acts, comments, or threats of a sexually explicit or violent nature, including disparaging references to one’s religion, race, or gender will be reported to the Dean of Students and result in disciplinary action. Each student is responsible for notice

The instructor reserves the right to make any changes to this syllabus during the term of the semester. Except for changes that substantially affect the evaluation (grading) statement, this syllabus is a guide for the course and is subject to change with advance notice.

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 excellent engineer and earn an A in this course!

**Important Fall 2019 Dates:**

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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<tbody>
<tr>
<td>Labor Day – No Classes</td>
<td>September 2</td>
</tr>
<tr>
<td>Census Day</td>
<td>September 11</td>
</tr>
<tr>
<td>Homecoming Week</td>
<td>September 29-October 5</td>
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<tr>
<td>Midterm Grades Available</td>
<td>October 25</td>
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<tr>
<td>Drop/Withdrawal Deadline</td>
<td>November 1</td>
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<tr>
<td>Thanksgiving – No Classes</td>
<td>November 28 – 29</td>
</tr>
<tr>
<td>Dead Day</td>
<td>December 6</td>
</tr>
<tr>
<td>Final Exams</td>
<td>December 9 - 13</td>
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**THIS SEMESTER YOU WILL:**

- **✓** Hear presentations from various departments, organizations, and offices of the university. These will be coordinated by the Instructor or Peer Leader.
- **✓** Attend at least one (1) social, cultural, or intellectual event and be asked to turn in a short description of the event.
- **✓** Be required to take your written assignment to the Writing Center, have it corrected, and then turn in both the draft with comments and the corrected version together.
- **✓** Attend a one-on-one conference at least once with Instructor and at least once with Peer Leader (this will count as an assignment for credit/grade).
- **✓** Communicate with your Instructor and Peer Leader throughout the semester via email and/or Blackboard.
- **✓** Visit the Library twice to become familiar with databases and where resources are located in the library. This orientation will be conducted by the assigned Librarian. These activities will be coordinated by your Instructor or Peer Leader.
- **✓** Attend the compliance presentation and meet with appropriate Academic or Departmental Advisor.
- **✓** Have the Peer Leader as a resource. The Peer Leader will also start each class session with announcements about on campus events and opportunities for student involvement.
- **✓** Attend at least one (1) Engineering related event such as Gold Rush, TCM, Student Organization meetings and/or activities.