Why Study Mechanical Engineering?

Mechanical Engineering is the broadest of the engineering disciplines. Graduates from the Department of Mechanical Engineering at Texas Tech University complete a curriculum that provides a strong foundation in mathematics and the physical sciences of chemistry and physics followed by an in-depth education in five of the principal mechanical engineering areas: thermal science, fluids engineering, mechanics and materials, dynamics and controls, and mechanical design.

Graduates from the department will find employment opportunities covering a wide spectrum, including the aerospace, automotive, petroleum production and refining industries, electrical power, electronics, semiconductors, manufacturing, and production, as well as research positions in industry and government laboratories.

Why Study in the College of Engineering?

In the Edward E. Whitacre Jr. College of Engineering, we are building a "Community of Scholars." More than just a group of individual students, faculty, staff, and alumni, we are working together to engineer a better world now and for the future.

Blending math, science, and creative thinking, our engineering students and alumni design solutions that transform the world. From building cities to advancing healthcare, from saving the environment to expanding humanity's knowledge of the cosmos, Texas Tech engineers are making their mark on society.

Whitacre College of Engineering faculty and students pursue basic and applied research that generates new knowledge and creates technical solutions to society's challenges, all in an environment that is committed to the individual student's success.

A Wealth of Opportunities Await

- Undergraduate Research
  The Research Internships in Science and Engineering (RISE) offers unique opportunities for undergraduate students to work with research groups at universities and top research institutions across Germany for a period of two to three months during the summer. RISE interns are matched with doctoral students, whom they assist and who serve as their mentors. The working language will be English. All scholarship holders receive stipends from the DAAD to help cover living expenses, while partner universities and research institutes provide housing assistance.

- Study Abroad
  In order to prepare our graduates for the ever-changing global landscape, all undergraduates (starting with the Fall Class of 2013) are required to have an international experience. As a student, you have a once-in-a-lifetime chance to study abroad and experience the thrill of exploring another country and culture. As a future engineer, you will be part of an ever-increasing international profession where employers seek applicants who possess an awareness of global business practices, cross-cultural communication skills, language fluency, and the ability to thrive in any environment. For more information, visit the website: https://ttu-sa.terradotta.com/

- Graduate Education
  The M.S.M.E. is a graduate degree requiring an additional 18 to 24 months of study beyond the undergraduate degree, B.S.M.E. Currently, the Department offers the three master's program options: thesis, report, and coursework only. Students interested in pursuing each program option must select and designate a major area of study from the four streams available: 1. Solid Mechanics, 2. Thermofluids and Heat Transfer, 3. Dynamics and Controls, and 4. Design.

- Professional Career
  The Whitacre College of Engineering has a long tradition of providing students with an excellent education. In fact, the Wall Street Journal has named Texas Tech among the top 25 engineering schools in the nation. However, your studies are only part of the equation. The best thing you can do to get a leg up on other graduates in the job market is to have some experience to go with your degree. Students both current and alumni have access to the engineering Job Grid in order for students to post resumes and search for co-ops, internships, and full-time positions. We also offer semi-annual job fairs.

- Scholarship
  Named a top value by Kiplinger in recent years, TTU offers a quality education at a fair price. Tuition and housing increases are well below others in public higher education. For scholarship information, visit the website: www.scholarships.ttu.edu

- Student Organizations
  For all majors in the College of Engineering, there is a student organization for you! Organizations allow students to meet with their fellow students outside the classroom as well with faculty members. Our organizations hold meetings with industry speakers, host monthly technical series on the latest industry research, and more! http://www.depts.ttu.edu/artsandsciences/students/

(806) 742.0876  cctr@ttu.edu  www.cctr.ttu.edu

Optimum Transfer Guide: Mechanical Engineering

Continued on pg. 2
Texas Common Course Number System (TCCNS)

The Texas Common Course Numbering System (TCCNS) aids students in the transfer of general academic courses between Texas public colleges and universities throughout the state. Course recommendations in this transfer guide are expressed in TCCNS designations.

Applying Transfer Hours to a Four-year Degree

- The Transfer Evaluation Office in the Office of the Registrar at Texas Tech determines which courses taken at another institution may be accepted for credit.

- A maximum of 66 semester credit hours from two-year institutions may be applied toward the baccalaureate degree at four-year institutions. Although, all credit hours presented on the sending institution's transcripts will be evaluated and equivalent college level courses posted to the student's academic record.

- The academic associate dean of the Texas Tech college in which a student enrolls has authority for determining which courses will be applied toward the specific degree program chosen.

- Students must earn a grade of C or better for all courses fulfilling requirements in majors, minors, or specialization's.

For more information on transfer course equivalencies, access the Texas Tech Transfer Equivalency Guidebooks:
https://www.depts.ttu.edu/registrar/private/transfer/

Steps to Apply:

- Admission Requirements
  Application from applytexas.org

  $60 application fee or fee waiver (student must provide information supporting fee waiver; for more specifics on what qualifies for waiver, visit the admissions site here: http://www.admissions.ttu.edu/index.php/application-fee/)

  Official college transcripts from ALL previous colleges attended*

*Student must submit an official high school and ACT/SAT scores if you have completed less than 12 transferrable hours

Transcripts may be sent by mail to:
  Undergraduate Admissions
  Box 45005
  Lubbock TX 79409

Electronic transcripts may be sent directly to TTU Admissions via document exchange from the sending institution (contact institution for more details)

Transfer Admissions Counselors:

- Zach Fisher — West Texas Transfer Admissions Counselor.
  Office Location:
  Undergraduate Admissions, West Hall
  Lubbock, TX
  Phone: 806.834.2104
  Email: zach.fisher@ttu.edu

- Maryellen Baeza — Manager of Transfer Recruitment
  Office Location:
  Undergraduate Admissions, West Hall
  Lubbock, TX
  Phone: 806.742.1480
  Email: Maryellen.baeza@ttu.edu

Assured Admissions:

If you present the required combination of transferable hours and GPA (as described below), you will meet assured admissions. GPA is cumulative for all transferable coursework from all schools attended. Courses taken for grade replacement are used for GPA calculation only if the same course is repeated at the same institution where it was originally taken.

<table>
<thead>
<tr>
<th>Transferable Hours</th>
<th>GPA Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-23 hours</td>
<td>2.50 cumulative</td>
</tr>
<tr>
<td>24 hours or more</td>
<td>2.25 cumulative</td>
</tr>
</tbody>
</table>

Admission Review

If you do not meet assured admission requirements but have at least a 2.00 cumulative GPA, an admissions committee will evaluate your potential based on other criteria:

- Academics — Types of courses taken and pattern of progress, as well as coursework taken leading toward a major
- Student-submitted essay — Explanation of the decision to transfer to Texas Tech, reasons for past academic performance and plans to ensure future academic success
- Extracurricular activities/employment information — Leadership and work experience, special talents or awards, or any other information relevant to the admission decision

For more information, visit the admissions website: http://www.admissions.ttu.edu/