Why Study Wind Energy?

Texas Tech University maintains a major research emphasis on wind energy. Scientists work to study the detailed characteristics of turbine inflow and wake flow, and work with engineers to understand turbine response, loading and performance. Other engineers are working in areas related to gearbox failure, power electronics and grid integration, while meteorologists work toward improving wind power forecasts and resource assessment.

Currently, the field of renewable energy has the potential for huge economic expansion, and wind energy is poised to provide 20% of the nation’s electricity by 2030. Lubbock’s location in the Great Plains “wind corridor” region makes this part of Texas ideal for research and education in wind energy.

Texas Tech University’s National Wind Institute (NWI) is based on a strong foundation of more than 40 years of research and education on the impact of wind on structures and human life.

To bring together all things wind, TTU has created the NWI to better support the interdisciplinary research and educational opportunities in wind science, engineering and energy. The institute combines the former Wind Science and Engineering (WiSE) Research Center and the Texas Wind Energy Institute (TWEI) into one entity to support the overall wind enterprise at Texas Tech.

A Wealth of Opportunities Await

- **200 M Meteorological Tower**
  The ability to measure wind speeds and other atmospheric conditions at multiple levels allows TTU researchers to gain fundamental knowledge about low-level jets and other atmospheric events. A 200 meter data acquisition tower is available to measure and record atmospheric conditions at 10 levels, with a variety of instruments to measure different levels of weather including: wind speed, direction, temperature, humidity and pressure. This data collection platform helps researchers learn fundamental knowledge about how wind behaves at different heights which has real-world application in several areas.

- **DOE/SNL Swift Facility**
  The facility is a major collaborative research initiative involving Texas Tech University, the National Wind Institute and partners from the Department of Energy (DOE), Sandia National Laboratories (SNL), Vestas and Group NIRE.

Research focuses on the investigation of turbine-to-turbine interaction and innovative rotor technologies, as well as aero-acoustics and structural health monitoring of turbines using embedded sensor systems.

- **Study Abroad**
  From culinary classes in Florence to Range and Wildlife Management in Australia, from language study at the Texas Tech Center in Sevilla to Engineering in Czech Republic, Texas Tech has programs in more than 70 countries in which TTU students can participate.

To see where our study abroad programs can take you, visit the website here: [https://ttu-sa.terradotta.com/](https://ttu-sa.terradotta.com/)

- **Graduate Education**
  The National Wind Institute at Texas Tech University is pleased to offer the first doctoral degree program in Wind Science and Engineering in the country.

  The educational-objectives of the Wind Science and Engineering (WiSE) Ph.D. program are to provide graduates with the broad education necessary to pursue studies and solve problems related to the detrimental effects of windstorms (hurricanes, tornadoes, thunderstorms, and others) and to take advantage of the wind’s beneficial effects.

- **Professional Career**
  The University Career Center helps both current and alumni Texas Tech students with career assessments, resume building, and employer career fair information. The Career Center is here to help you match your interests and college major to a career that is right for you. To see more, visit the website: [http://www.depts.ttu.edu/careercenter/students.php](http://www.depts.ttu.edu/careercenter/students.php)

- **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. Texas Tech rewards exceptional students with merit-based scholarships and provides need-based financial assistance to qualified families. Athletic, band, choral, fine arts and departmental awards are available through individual departments. TTU also helps parents and students find elusive federal and state grants to take the pressure off family’s pocketbook. For more information, visit the scholarship website: [www.scholarships.ttu.edu](http://www.scholarships.ttu.edu)
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/](http://www.admissions.ttu.edu/)