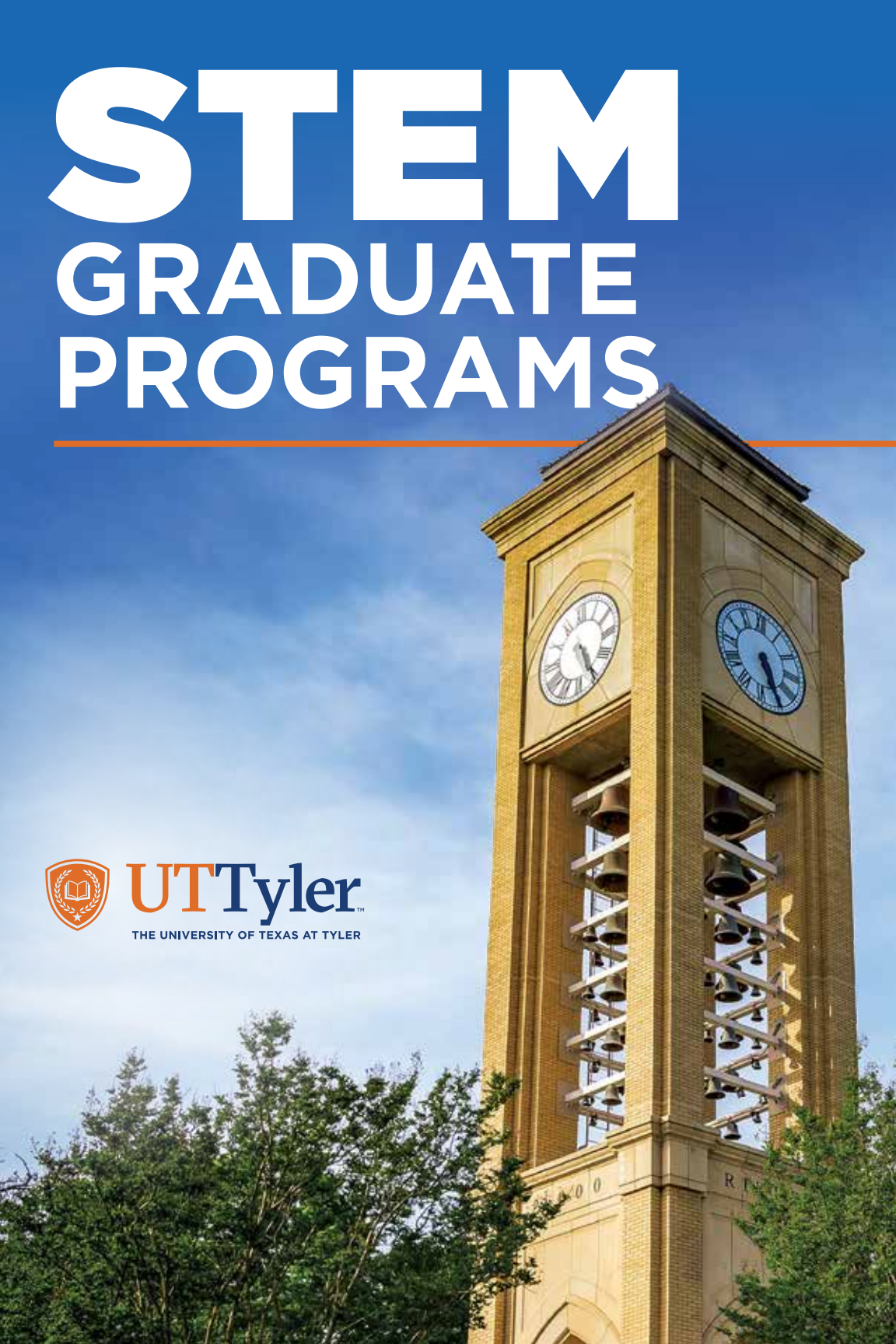
STEM GRADUATE PROGRAMS



UTTyler™
THE UNIVERSITY OF TEXAS AT TYLER

Quick FACTS

Nestled among the East Texas pines, The University of Texas at Tyler is part of the prestigious UT System and provides a vibrant academic atmosphere that fosters learning, innovation and exploration.

1½ HOURS EAST OF DALLAS, TX

1971 FOUNDING YEAR

15 AVERAGE CLASS SIZE FOR GRADUATE AND PROFESSIONAL DEGREES

1 of 133

UNIVERSITIES IN THE NATION RECOGNIZED AS AN R2 RESEARCH UNIVERSITY BY THE CARNEGIE CLASSIFICATION OF INSTITUTIONS OF HIGHER ED

As an international student,

Tyler, Texas, has become my home in the United States. UT Tyler has not only been my academic haven but also a catalyst for my personal and professional growth. My peers and I are positioned to be ahead of the curve in the job market and workplace innovation.

ARPANA NEPAL

Current Student in the Master of Science in Professional Accountancy Program

Programs OFFERED

PROGRAM	HOURS	FORMAT	START SEMESTER
Accountancy MSPA *Non-thesis*	30	In-person	Fall, Spring, Summer
Biology MS *Thesis or non-thesis options*	30	In-person	Fall, Spring, Summer
Biotechnology MS *Thesis*	36	In-person	Fall
Civil Engineering MSCE	30	In-person	Fall, Spring, Summer
Chemistry MS *Thesis or non-thesis options*	30	In-person	Fall, Spring, Summer
Computer Science MS *Thesis or professional track options*	30 - Thesis 36 - Professional	In-person	Fall, Spring, Summer
Cybersecurity and Data Analytics MS	27	Online	Fall, Spring, Summer
Electrical Engineering MSEE *Thesis or non-thesis options*	30	In-person	Fall, Spring, Summer
Finance MS	30	Hybrid	Fall, Spring, Summer
Industrial Management MS *Non-thesis*	36	Online, In-person, Hybrid	Fall, Spring, Summer
Mathematics MS	36	In-person	Fall, Spring
Mechanical Engineering MSME *Thesis or non-thesis options*	30	In-person	Fall, Spring, Summer

BIOLOGY MS

Experience a highly supportive educational environment for graduate students that nurtures individual student development as scientists, scholars and researchers. UT Tyler's Department of Biology integrates research as an important component of the learning experience. Conduct research in a variety of areas, including genetics, genomics, microbiology and ecology. Work alongside expert faculty and benefit from personalized attention as you learn in classes averaging fewer than 10 students.

FACTS ABOUT THE PROGRAM:

Research Ready: Conduct research in aquatic and terrestrial field sites located throughout campus, as well as several field sites within driving distance.

Exceptional Facilities: Learn in outstanding facilities with state-of-the-art equipment, including molecular biology laboratories, environmental chambers, herbarium/museum, and GIS and landscape ecology laboratories.

Hands-On Experience: Become a teaching assistant and gain valuable hands-on experience leading laboratory exercises for undergraduates.

Special Studies: The department also hosts the Ophidian Research Colony, which houses several species of snakes used for laboratory studies.

ADMISSION REQUIREMENTS:

- Bachelor's degree in science with a major in biology or a closely related field from an accredited college or university with a minimum GPA of 3.0 out of 4.0
- A satisfactory GPA on all prior advanced (junior, senior and graduate) coursework
- Statement of research interests
- Curriculum Vitae/Resume
- Three letters of recommendation are also highly recommended
- Approval by departmental Graduate Affairs Committee and the Graduate Program Coordinator

COMPUTER SCIENCE MS

Gain the tools you need to become a successful application analyst, games developer, multimedia programmer or IT consultant with extensive, hands-on learning experiences, such as the UT Tyler Patriot Games Cyber Defense contest. Choose one of four specializations and customize your degree to fit your interests. Top-notch labs provide practical research experiences in digital forensics, data analytics, software engineering, networking and robotics.

FACTS ABOUT THE PROGRAM:

Conduct Hands-On Research: Join faculty who participate in the UT Tyler Center for Petroleum Security Research.

Degree Plan Specialization: Specialize your degree with electives in computer security, artificial intelligence, data mining and supercomputing.

ADMISSION REQUIREMENTS:

- A satisfactory score on the General Test (verbal and quantitative) of the Graduate Record Examination
- A satisfactory grade point average on all prior advanced-level (junior, senior and graduate) work taken
- A demonstrated proficiency in the use of the English language. If a student's verbal score on the General Test of the GRE is below an acceptable minimum, the student must pass an English proficiency test.
- An undergraduate major in computer science or coursework in computer science, including the content of COSC 1337, COSC 2315, and COSC 2336 or equivalent
- No more than nine semester credit hours of graduate credit earned prior to acceptance into the program, including transfer credit, may be applied to the MS degree
- Approval by the departmental chair

CIVIL ENGINEERING MSCE

Earn your master's degree to advance in professional practice, management, or research and development. Study with professors who are experienced practitioners and researchers with organizations including the Texas Department of Transportation, Southwest Institute of Forensic Science, Occupational Safety and Health Administration, and Norwegian Geotechnical Institute.

FACTS ABOUT THE PROGRAM:

Our program prepares you to design, construct and operate essential facilities, from highway exchanges and major bridges to hospitals and airports.

Choose from three tracks: Research, professional practice, and technical and management.

ADMISSION REQUIREMENTS:

- Satisfactory score on the General Test (verbal and quantitative) of the Graduate Record Examination or three years of engineering experience (U.S. only)
- Satisfactory grade point average on the student's last four semesters of academic study and last 60 semester credit hours of upper-division undergraduate or graduate courses
- A bachelor's degree in a civil engineering program accredited by the ABET Engineering Accreditation Commission. Students who have not earned such a degree will be required to complete prerequisite coursework before starting the MSCE program.
- A demonstrated proficiency in the use of the English language, both spoken and written
- Approval of the MSCE Program Administrator and the Chair of the Department of Civil and Environmental Engineering

CYBERSECURITY AND DATA ANALYTICS MS

Gain the knowledge and skills to make important contributions in today's business environment with a master's that uniquely combines cybersecurity and data analytics — two components critical to keeping valuable data systems secure. Our 100% online program prepares graduates across all computer science and related disciplines for careers in cybersecurity, data analytics or both.

FACTS ABOUT THE PROGRAM:

UT Tyler is the first in Texas and one of the first in the U.S. to offer a program combining cybersecurity and data analytics — which are both among the nation's top 5 fastest growing fields.

No prerequisites: Our program includes built-in foundational courses, so you can earn your degree free of prerequisites.

Graduate in one year: Take online classes in seven-week terms that allow you to complete your degree in one year.

Stackable certificates included: Earn four to five certifications, including cyber data foundations, cybersecurity, applied cybersecurity, data analytics and applied data analytics.

ADMISSION REQUIREMENTS:

- A satisfactory score on the General Test (verbal, analytical and quantitative) of the Graduate Record Examination or the Graduate Management Admission Test
- A baccalaureate degree from an accredited institution
- A satisfactory grade point average on all prior advanced-level (junior, senior and graduate) work taken
- A demonstrated proficiency in the use of the English language

MECHANICAL ENGINEERING MSME

Develop specialized skills to lead as a principal engineer, manager or researcher. Our program offers leading-edge facilities for advanced studies, including the Trane Residential Heating and Cooling Research Lab and thermal sciences, fluid dynamics, fabrication and mechatronics labs.

FACTS ABOUT THE PROGRAM:

Our broad-based program allows you to develop expertise in a number of areas, including design, thermal and fluid sciences, solid mechanics, and control and instrumentation

Choose your degree path: Options include thesis, non-thesis and professional development tracks

ADMISSION REQUIREMENTS:

- Satisfactory score on the General Test (verbal and quantitative) of the Graduate Record Examination
- A minimum grade point average of 3.0/4.0 based on the student's last four semesters of academic study and last 60 semester credit hours of upper-division undergraduate or graduate courses
- A bachelor's degree in a mechanical engineering program accredited by the ABET Engineering Accreditation Commission. Students who have not earned such a degree will be required to complete prerequisite (leveling) coursework before starting the MSME program as determined by the MSME Graduate Coordinator.
- A statement of purpose including goals of graduate education and research interests must be included with the application
- A demonstrated proficiency in the use of the English language, both spoken and written
- Approval of the MSME Graduate Coordinator and the Chair of the Department of Mechanical Engineering

ELECTRICAL ENGINEERING MSEE

Prepare to lead in professional practice or research and development in engineering settings from traditional to high-tech. Our program offers specialized studies in state-of-the-art facilities, including the Center for Advanced Sensors and Big Data Analytics and the Trane Residential Heating and Cooling Research Lab.

FACTS ABOUT THE PROGRAM:

Choose from thesis and non-thesis tracks to earn your degree

The program allows you to specialize in two areas: electronics, power systems, controls, advanced engineering math, signal processing, communications, real-time systems, computer systems, electromagnetics or power electronics

ADMISSION REQUIREMENTS:

- Satisfactory score on the General Test (verbal and quantitative) of the Graduate Record Examination or an approved GRE exam waiver
- Satisfactory grade point average on the student's last four semesters of academic study and last 60 semester credit hours of upper-division undergraduate or graduate courses
- A bachelor's degree in an electrical engineering program accredited by the ABET Engineering Accreditation Commission. Students who have not earned such a degree will be required to complete prerequisite (leveling) coursework before starting the MSEE program, as determined by the MSEE Program Coordinator.
- A demonstrated proficiency in the use of the English language, both spoken and written
- Resume
- Approval of the MSEE Program Coordinator and the Chair of the Department of Electrical Engineering

International STUDENTS

ADDITIONAL ADMISSION REQUIREMENTS:

- Proof of English Proficiency
  - Accepted tests are the Test of English as a Foreign Language, the Pearson Test of English, the International English Language Testing System or the Duolingo English Test.
- Evaluation and translation of transcript(s)
  - Evaluations are accepted from any National Association of Credential Evaluation Services members
  - Not required for computer science MS or engineering programs
- Application fee of $75

ESTIMATED COST:

- Tuition and mandatory fees are $9,251* per semester for graduate students.

**Based on nine credit hours for non-Texas residents; fees may vary and/or subject to change.*

To learn more about our admissions requirements for your program of interest, please go to **uttyler.edu/graduate**

UTTyler™

THE UNIVERSITY OF TEXAS AT TYLER

Graduate Admissions

ogs@uttyler.edu

903-566-7457