DEPARTMENT OF ENGINEERING TECHNOLOGY AND INDUSTRIAL DISTRIBUTION

The Department of Engineering Technology and Industrial Distribution offers four baccalaureate degree programs in electronics systems engineering technology, industrial distribution, manufacturing and mechanical engineering technology, and multidisciplinary engineering technology. While these degrees are distinct, they share several common features including a sound foundation of mathematics and basic sciences, a strong core of technical courses, and an emphasis on written and oral communications. The curricula emphasize the latest state-of-the-art technologies, innovation and entrepreneurship. Finally, all four degrees are designed to prepare students for careers in industry with strong opportunities for advancement. Because these programs are highly applied and have a focus on project-based learning and experiential education, most of the department’s courses have hands-on laboratories that allow students to put theory to practice.

The mission of the Department of Engineering Technology and Industrial Distribution is to:

- maintain nationally recognized programs in engineering technology and industrial distribution
- focus on educating highly-qualified students with hands-on skills, providing them with experiences in advanced integration of both conventional and emerging technologies, a unique understanding of management and business practices, and an entrepreneurial point of view
- provide leadership within the COE and university in interdisciplinary applied research, to include the development and deployment of new technology
- promote and develop long term partnerships with industry and government that foster enhancements and interactions in education, research, and professional development

Electronic Systems Engineering Technology (ESET)

Electronic Systems Engineering Technology (ESET) prepares graduates for careers in electronic product and system development across a diverse range of industries that include the information/communication technologies, computer, power, oil & gas, automotive, medical and quality of life sectors.

The Electronic Systems Engineering Technology program is accredited by the Engineering Technology Accreditation Commission of ABET, http://www.abet.org. For more information about the Electronic Systems Engineering Technology program including the mission and program educational objectives, please see the program requirements (http://catalog.tamu.edu/undergraduate/engineering/technology-industrial-distribution/technology-electronic-systems-bs).

Graduates are awarded the Bachelor of Science in Electronic Systems Engineering Technology.

Industrial Distribution (IDIS)

Industrial Distribution (IDIS) prepares graduates for sales engineering, technical sales, supply chain management, operations management, sales management and other managerial positions. Industry segments include: automation solutions; building materials; chemical and petrochemical; electrical; electronics and semiconductors; fluid power; heating and air conditioning, mechanical power; plumbing; safety equipment; welding; oil and gas; defense; material handling; healthcare; automotive; heavy equipment; packaging; and logistics. The day-to-day challenges faced by the industrial distributor or the manufacturer’s representative require the person to be a professional with many capabilities. For more information about the Industrial Distribution program, please see the program requirements (http://catalog.tamu.edu/undergraduate/engineering/technology-industrial-distribution/industrial-distribution-bs).

Graduates are awarded the Bachelor of Science in Industrial Distribution.

Manufacturing and Mechanical Engineering Technology (MMET)

Manufacturing and Mechanical Engineering Technology (MMET) prepares students for dynamic careers in a wide range of industries ranging from oil and gas, to aerospace, and food and beverage. These careers involve design, manufacturing, maintenance, and sometimes sales. Graduates are versatile and effective in diverse areas that require understanding of the dependencies among material properties, product design, costs, manufacturing systems, and process technologies.

The Manufacturing and Mechanical Engineering Technology program is accredited by the Engineering Technology Accreditation Commission of ABET, http://www.abet.org. For more information about the Manufacturing and Mechanical Engineering Technology program including the mission and program educational objectives, please see the program requirements (http://catalog.tamu.edu/undergraduate/engineering/technology-industrial-distribution/technology-manufacturing-mechanical-bs).

Graduates are awarded the Bachelor of Science in Manufacturing and Mechanical Engineering Technology.

Multidisciplinary Engineering Technology (MXET)

Multidisciplinary Engineering Technology (MXET) combines core concepts from the electronics and mechanical engineering technology disciplines and provides students with a strong background in embedded systems, electronic system design, instrumentation, controls, statics, dynamics, thermodynamics, mechanical system design, and project management. The curriculum is then augmented through a 29-hour technical focus area. The Mechatronics and STEM Education focus areas are currently available and additional focus areas will be identified and created. The Mechatronics focus prepares graduates for diverse careers in aerospace, automotive, oil and gas, medical and communications industries where entry-level employees require a broad-based education in system-level design, development, documentation and delivery of new and innovative products. The STEM Education focus prepares graduates to teach math, science, and/or engineering at the secondary education level.

For more information about the Multidisciplinary Engineering Technology program including the mission and program educational objectives, please see the program requirements here (http://catalog.tamu.edu/undergraduate/engineering/technology-industrial-distribution/multidisciplinary-engineering-technology-bs/mechatronics-track) and here (http://catalog.tamu.edu/undergraduate/engineering/technology-industrial-distribution/multidisciplinary-engineering-technology-bs/stem-education-track).
Graduates are awarded the Bachelor of Science in Multidisciplinary Engineering Technology.

Department Academic Policies

The Department of Engineering Technology and Industrial Distribution (ETID) imposes academic requirements in addition to those imposed by the University (Texas A&M University Student Rules) and college. For complete details concerning these and other academic policies, students should contact the ETID Undergraduate Advising Office and are referred to the ETID (http://engineering.tamu.edu/etid) website.

A student must complete all prerequisites for a course with a grade of C or better by the start of the semester in which the student plans to enroll in the course. A student is responsible for checking the prerequisites for each course to ensure the prerequisite requirements have been satisfied. A student who registers for a course for which he/she lacks the necessary prerequisite course(s) and/or the prerequisite grade requirement will be required to drop the course. A student who is told to drop a course and is still enrolled by the deadline set each semester may be administratively dropped by the department. If a student is administratively dropped from a course, the student is responsible for all financial obligations associated with the drop. An administrative drop may adversely impact (including, but not limited to): health insurance benefits, financial aid, athletic eligibility, INS status, veterans’ benefits, and eligibility to participate in extracurricular activities.

The department encourages students to participate in industrial internships or the Cooperative Education Program to acquire practical experience to complement their engineering technology education.

Before commencing course work in the major, students must be admitted to the major or have the approval of the department.

Faculty

Alvarado, Jorge L, Professor
Eng Tech & Ind Distribution
PHD, University of Illinois, 2004

Asadi, Amir, Assistant Professor
Eng Tech & Ind Distribution
PHD, University of Manitoba, 2013

Borsh Jr, Robert M, Associate Professor of the Practice
Eng Tech & Ind Distribution
MID, Texas A&M University, 2003

Bosshard, John C, Lecturer
Eng Tech & Ind Distribution
PHD, Texas A&M University, 2012

Buchanan, Walter W, Professor
Eng Tech & Ind Distribution
PHD, Indiana University, 1993

Burke, Adam J, Lecturer
Eng Tech & Ind Distribution
BS, Texas A&M University, 1997

Butler, Scott N, Lecturer
Eng Tech & Ind Distribution
MS, Sam Houston State University, 1986

Capar, Ismail, Associate Professor
Eng Tech & Ind Distribution
PHD, Mississippi State University, 2007

Chang, Yanling, Assistant Professor
Eng Tech & Ind Distribution
PHD, Georgia Institute of Technology, 2015

Clark Jr, Norman L, Instructional Associate Professor
Eng Tech & Ind Distribution
PHD, Texas A&M University, 2015

Conrad, Craig E, Senior Lecturer
Eng Tech & Ind Distribution
BS, Northern Illinois University, 1975

Fang, Gwo-Ping, Associate Professor
Eng Tech & Ind Distribution
PHD, Texas A&M University, 1996

Fink, Klaus, Senior Lecturer
Eng Tech & Ind Distribution
PHD, Case Western Reserve University, 1995

Fink, Rainer J, Associate Professor
Eng Tech & Ind Distribution
PHD, Texas A&M University, 1995

Frymire, Read, Senior Lecturer
Eng Tech & Ind Distribution
BS, Texas A&M University, 1983

Geha, Chadi, Lecturer
Eng Tech & Ind Distribution
PHD, Texas A&M University, 2015

Golla, Michael R, Senior Lecturer
Eng Tech & Ind Distribution
MBA, Texas A&M University, 2002

Goulart, Ana E, Associate Professor
Eng Tech & Ind Distribution
PHD, Georgia Institute of Technology, 2005

Hsieh, Sheng-Jen, Professor
Eng Tech & Ind Distribution
PHD, Texas Tech University, 1995

Hung, Nguyen P, Associate Professor
Eng Tech & Ind Distribution
PHD, University of California, Berkeley, 1987

Hur, Byul, Assistant Professor
Eng Tech & Ind Distribution
PHD, University of Florida, 2011

Iakovou, Eleftherios, Professor
Eng Tech & Ind Distribution
PHD, Cornell University, 1992

Jennings, Daniel F, Professor
Eng Tech & Ind Distribution
PHD, Texas A&M University, 1986
Majors

- Bachelor of Science in Electronic Systems Engineering Technology
  (http://catalog.tamu.edu/undergraduate/engineering/technology-industrial-distribution/technology-electronic-systems-bs)
- Bachelor of Science in Industrial Distribution (http://catalog.tamu.edu/undergraduate/engineering/technology-industrial-distribution/industrial-distribution-bs)
- Bachelor of Science in Manufacturing and Mechanical Engineering Technology (http://catalog.tamu.edu/undergraduate/engineering/technology-industrial-distribution/technology-manufacturing-mechanical-bs)
- Bachelor of Science in Multidisciplinary Engineering Technology, Electro Marine Engineering Technology Track (http://catalog.tamu.edu/undergraduate/engineering/technology-industrial-distribution/multidisciplinary-engineering-technology-bs-electro-marine-engineering-technology-track)
- Bachelor of Science in Multidisciplinary Engineering Technology, Mechatronics Track (http://catalog.tamu.edu/undergraduate/engineering/technology-industrial-distribution/multidisciplinary-engineering-technology-bs/mechatronics-track)
- Bachelor of Science in Multidisciplinary Engineering Technology, STEM Education Track (http://catalog.tamu.edu/undergraduate/engineering/technology-industrial-distribution/multidisciplinary-engineering-technology-bs/stem-education-track)

Minors