

**JUNIOR YEAR**

FALL	HOURS
EENG 3410, Engineering Electromagnetics	3
EENG 3510, Electronics I	3
EENG 3910, Project V	3
MATH 2700, Linear Algebra and Vector Geometry	3
PSCI 1050, American Government II* Communication*	3
Total	18

**SENIOR YEAR**

FALL	HOURS
EENG 4010, Advanced Topics in Electrical Engineering I	3
EENG 4710, VLSI Design	3
EENG 4910, Project VII Visual and Performing Arts* Wellness*	3
Total	15

**JUNIOR YEAR**

SPRING	HOURS
EENG 3520, Electronics II (Circuits and Applications)	3
EENG 3710, Computer Organization	3
EENG 3810, Communication Systems	3
EENG 3920, Project VI	3
MATH 2730, Multivariable Calculus Cross-cultural, Diversity, and Global Studies*	3
Total	18

**SENIOR YEAR**

SPRING	HOURS
EENG 4020, Advanced Topics in Electrical Engineering II	3
EENG 4810, Computer Networks	3
EENG 4990, Project VIII Humanities* Social and Behavioral Sciences*	3
Total	15

Actual degree plans may vary depending on availability of courses in a given semester.

Some courses may require prerequisites not listed.

# Department of Engineering Technology

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**Albert B. Grubbs Jr., Chair**

## Faculty

*Professors* Grubbs, McNeill, Mirshams. *Associate Professors* Foster, Kozak, Nasrazadani, Plummer. *Assistant Professors* Kougianos, Smith, Stemprok, Vaidyanathan, Wang, Yu. *Lecturers* Anaya, Baatarjav, Bittle, Hayes, Nouri.

## Introduction

Engineering technology is the profession in which a knowledge of mathematics and natural sciences gained by higher education, experience and practice is devoted primarily to the implementation and extension of existing technology for the benefit of humanity (Engineering Technology Council, 1994).

Increasing technological aspects of all modern activities have led to the need for highly skilled persons to design, construct, install, maintain, manage, operate, produce and sell sophisticated technical systems and products.

Departmental programs emphasize the application of theoretical concepts. Classes of carefully coordinated laboratory experiences and lectures are utilized. Courses emphasize theoretical concepts and principles for solutions applicable to modern technological problems. Students are prepared for rapidly changing life experiences with mathematics, science and general education. This preparation is designed to enable graduates to remain current, as well as advance, in their professional field.

## Programs of Study

The department offers undergraduate and graduate programs in the following areas:

- Bachelor of Science in Engineering Technology with majors in construction engineering technology\*, electronics engineering technology\*, manufacturing engineering technology\*, mechanical engineering technology\* and nuclear engineering technology\*, and
- Master of Science with a major in engineering technology.

Nuclear engineering technology is available at the TXU Comanche Peak Steam Electric Station.

*\*Name change pending approval by the Texas Higher Education Coordinating Board.*

**Construction Engineering Technology (CNET)**

The construction engineering technology\* major provides educational experiences for the development of technical knowledge and skills necessary in today's construction industry. The program provides education in both the management and technical aspects, thus providing optimum opportunities for employment. The program builds on a strong foundation in mathematics, science, engineering and general education. Knowledge and skills relative to the construction field such as surveying, cost estimating, construction materials, computer design, contracts and management, safety, and structures are acquired. Technical and management skills are enhanced through courses offered by other engineering technology programs and the College of Business Administration. The development of technical communication and presentation skills is a requirement throughout the curriculum.

**Electronics Engineering Technology (ELET)**

The electronics engineering technology\* major is designed to develop the technical and personal knowledge and skill necessary to compete successfully in today's electronics industry. The program builds on a strong foundation in mathematics and science and includes courses in network analysis, linear electronics, digital electronics, communication systems and control systems. Computer utilization is an integral part of all electronics courses and most courses include a laboratory to provide the necessary hands-on experience for an applied program of study. The student's technical background is further enhanced by taking selected courses from other engineering technology concentrations. The development of technical communication and presentation skills is a requirement throughout the curriculum.

*Electronics engineering technology is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology [Accreditation Director for Engineering Technology, Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202; (410) 347-7700].*

**Manufacturing Engineering Technology (MFET)**

The manufacturing engineering technology\* major prepares students for professional careers in the manufacturing environment. Manufacturing engineering technologists apply scientific and engineering knowledge and methods in support of engineering activities. While manufacturing engineering technologists share much of the mathematics and science background of engineers, their academic preparation tends to emphasize technical skills and applications resulting in a practical orientation. The major thrust of the manufacturing engineering technology curriculum is that of factory automation.

Graduates commonly take positions in research and development, process specification and design, reliability/quality assurance and tool design.

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**Mechanical Engineering Technology (MEET)**

The mechanical engineering technology\* is built upon a strong foundation of science, mathematics and technical course work designed to meet the diverse needs of the mechanical designer. Mechanical engineering technology concepts are used in all types of industry and are applied directly to product and tool design and to assist in the manufacturing process. Courses in computer-aided design, product design and development, manufacturing processes and materials, strength of materials and quality assurance provide the student with a broad range of applications for the pursuit of a career in mechanical engineering technology.

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**Nuclear Engineering Technology (NUET)**

The nuclear engineering technology\* major is designed to provide breadth of training for operators and related technical personnel at the TXU Comanche Peak Steam Electric Station. The program has a strong foundation in mathematics and science and adds nuclear engineering principles ranging from materials science to reactor design. Courses in fluid mechanics, thermodynamics, electrical circuit theory, electric power generation and automatic control systems augment the curriculum. The program enhances the reactor operator training provided by TXU by stressing the fundamentals of underlying physical and engineering principles behind many plant operating procedures.

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## Bachelor of Science in Engineering Technology

### Degree Requirements

1. **Hours Required and General/College Requirements:** A minimum of 128 semester hours, of which 42 must be advanced, and fulfillment of degree requirements for the Bachelor of Science degree as specified in the “General University Requirements” in the Academics section of this catalog and the College of Engineering requirements.

2. **Major Requirements:** 68 hours from one of four majors listed below, chosen with the advice of an academic adviser within the department.

#### Major in Construction Engineering Technology

**(68 hours):** CNET 1160, 2160, 2170, 2300, 3150, 3160, 3190, 3410, 4170, 4180 and 4790; CSCE 1020; ENGR 2301, 2302, 2405; MEET 3990; ACCT 2020; BLAW 4600, 4770; ECON 1100; plus 11 hours (3 advanced) of technical options.

#### Major in Electronics Engineering Technology

**(68 Hours):** ELET 2720, 2750, 3700, 3720, 3740, 3750, 3760, 4710, 4720, 4770, and 4790; ENGR 2405; MFET 4190; CSCE 1020; plus 7 hours of technical electives and 9 advanced hours of technical options.

#### Major in Manufacturing Engineering Technology

**(68 Hours):** MFET 2100, 3110, 3250, 3450, 3520, 4190, 4200, 4210, 4230 and 4790; ENGR 1304, 2301, 2332, 2405; MEET 3650, 3660, 4360; ELET 3970; MGMT 3830; CSCE 1020; plus 3 hours of technical elective and 4 advanced hours of technical options.

#### Major in Mechanical Engineering Technology

**(68 Hours):** MEET 3650, 3940, 3990, 4050, 4350, 4360 and 4790; ENGR 1304, 2301, 2302, 2405, 2332; MFET 2100, 3110, 3450, 4190, 4200 and 4210; ELET 3970; CSCE 1020; plus 3 hours of technical elective and 5 advanced hours of technical options.

#### Major in Nuclear Engineering Technology

**(68 Hours):** NUET 3910, 3920, 3930, 4050, 4930 and 4790; ENGR 2301, 2405; ELET 3970, 4940; MEET 3940 and 3990; MFET 4190; MATH 1680; CSCE 1020; plus 3 hours of technical elective and 12 hours (6 advanced) of technical options approved by adviser.

3. **Other Course Requirements:** MATH 1650, 1710 and 1720. Students registering for fall or spring term/semester must register for mathematics until the requirement has been satisfied, unless approved by the department chair. A minimum of 12 semester hours of mathematics is required.

4. **Minor:** Optional.

5. **Electives:** See four-year plan.

### 6. Other Requirements:

a. GNET 1030 (may be used to satisfy the Social and Behavioral Sciences requirement of the University Core Curriculum).

b. GNET 2060 (may be used to satisfy the Communications requirement of the University Core and College of Engineering Core).

c. PHYS 1710/1730 and 2220/2240 and CHEM 1410/1430 (may be used to satisfy the Natural Sciences requirement of the University Core Curriculum).

d. ENGL 2700 is required instead of ENGL 1320.

e. A 2.5 GPA is required for engineering technology courses in the area of concentration.

f. Courses taken to satisfy the technical options in each concentration must be approved by the academic adviser.

## Minor in Engineering Technology

**(18 hours)**

### General Technology

Choose 18 semester hours (6 advanced) with approval of engineering technology department chair.

## Graduate Degrees

The Master of Science with a major in engineering technology is available at the graduate level. Prospective students should consult with the graduate departmental adviser prior to initial enrollment.

## Scholarships

The department offers scholarships designated specifically for studies in engineering technology. For further information, inquire in the departmental office.

## Courses of Instruction

All Courses of Instruction are located in one section at the back of this catalog.

### Course and Subject Guide

The “Course and Subject Guide,” found in the Courses of Instruction section of this book, serves as a table of contents and provides quick access to subject areas and prefixes.

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### BS in Engineering Technology

*Following is one suggested four-year degree plan. Students are encouraged to see their adviser each semester for help with program decisions and enrollment. Students are responsible for meeting all course prerequisites.*

**\*See the University Core Curriculum section of this catalog for approved list of course options.**

**\*\* See College of Engineering degree requirements section of this catalog for approved list of course options.**

#### BS in Engineering Technology

##### Major in Construction Engineering Technology

###### FRESHMAN YEAR

FALL	HOURS
CHEM 1410, General Chemistry	3
CHEM 1430, General Chemistry Laboratory	1
CNET 1160, Construction Methods and Materials	3
ENGL 1310, College Writing I*	3
GNET 1030, Technological Systems (may be used to satisfy Social and Behavioral Science* requirement)	3
MATH 1650, Pre-Calculus	<u>5</u>
<b>Total</b>	<b>18</b>

###### FRESHMAN YEAR

SPRING	HOURS
CSCE 1020, Program Development	4
ECON 1100, Microeconomics	3
MATH 1710, Calculus I	4
PHYS 1710, Mechanics	3
PHYS 1730, Laboratory in Mechanics	<u>1</u>
<b>Total</b>	<b>15</b>

###### SOPHOMORE YEAR

FALL	HOURS
ACCT 2010, Accounting Principles I	3
CNET 2160, Construction Methods and Materials II	3
ENGL 2700, Technical Writing	3
ENGR 2301, Statics	3
HIST 2610, United States History to 1865*	3
MATH 1720, Calculus II	<u>3</u>
<b>Total</b>	<b>18</b>

###### SOPHOMORE YEAR

SPRING	HOURS
CNET 2170, Plane Surveying	1
CNET 2300, Architectural Drawing	2
ENGR 2302, Dynamics	3
GNET 2060, Professional Presentations (may be used to satisfy Communication* requirement)	3
PHYS 2220, Electricity and Magnetism	3
PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics	1
Technical Option	<u>3</u>
<b>Total</b>	<b>16</b>

###### JUNIOR YEAR

FALL	HOURS
CNET 3150, Construction Contract Documents	3
CNET 3160, Construction Cost Estimating	3
CNET 3410, Occupational Safety and Liability	3
ENGR 2405, Fundamentals of Electrical Engineering	3
PSCI 1040, American Government I*	<u>3</u>
<b>Total</b>	<b>15</b>

###### JUNIOR YEAR

SPRING	HOURS
CNET 3190, Construction Scheduling	3
MEET 3990, Applied Thermodynamics	3
PSCI 1050, American Government II*	3
Technical Option (advanced)	3
Visual and Performing Arts*	<u>3</u>
<b>Total</b>	<b>15</b>

###### SENIOR YEAR

FALL	HOURS
BLAW 4600, Current Topics	3
CNET 4170, Construction Management	3
HIST 2620, United States History Since 1865*	3
Cross-Cultural, Diversity and Global Studies*	3
Technical Option (advanced)	<u>3</u>
<b>Total</b>	<b>15</b>

###### SENIOR YEAR

SPRING	HOURS
BLAW 4770, Real Estate Law	3
CNET 4180, Problems in Project Management	3
CNET 4790, Senior Design	2
Humanities*	3
Technical Option (advanced)	2
Wellness*	<u>3</u>
<b>Total</b>	<b>16</b>

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## BS in Engineering Technology

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*\*\* See College of Engineering degree requirements section of this catalog for approved list of course options.*

### BS in Engineering Technology

#### Major in Electronics Engineering Technology

##### FRESHMAN YEAR

FALL	HOURS
CHEM 1410, General Chemistry**	3
CHEM 1420, General Chemistry Laboratory**	1
ENGL 1310, College Writing I*	3
MATH 1650, Pre-Calculus	5
PSCI 1040, American Government*	3
Wellness*	<u>3</u>
Total	18

##### FRESHMAN YEAR

SPRING	HOURS
CSCE 1020, Program Development	4
ENGL 2700, Technical Writing*	3
HIST 2610, United States History to 1865*	3
MATH 1710, Calculus I**	4
Humanities*	<u>3</u>
Total	17

##### SOPHOMORE YEAR

FALL	HOURS
ELET 2700, Circuit Analysis I	4
ELET 2720, Digital Logic	4
GNET 2060, Professional Presentations (may be used to satisfy Communication requirement**)	3
MATH 1720, Calculus II**	3
PHYS 1710, Mechanics**	3
PHYS 1730, Laboratory in Mechanics**	<u>1</u>
Total	18

##### SOPHOMORE YEAR

SPRING	HOURS
ELET 2710, Circuit Analysis II	4
ELET 2750, Introduction to Microprocessors	4
PHYS 2220, Electricity and Magnetism**	3
PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics**	1
Visual and Performing Arts*	<u>3</u>
Total	15

##### JUNIOR YEAR

FALL	HOURS
ELET 3700, Circuit Analysis III	3
ELET 3720, Electronics I	4
ELET 3750, Digital Systems	4
Technical Elective	<u>3</u>
Total	14

##### JUNIOR YEAR

SPRING	HOURS
ELET 3740, Electronics II	4
ELET 3760, Design of DSP Systems	4
PSCI 1050, American Government*	3
Technical Option (advanced)	3
Cross-cultural, Diversity and Global Studies*	<u>3</u>
Total	17

##### SENIOR YEAR

FALL	HOURS
ELET 4710, High Frequency Systems I	4
ELET 4720, Control Systems	4
GNET 1030, Technological Systems (may be used to satisfy the Social and Behavioral Sciences requirement*)	3
Technical Option (advanced)	<u>3</u>
Total	14

##### SENIOR YEAR

SPRING	HOURS
ELET 4770, High Frequency Systems II	4
ELET 4790, Senior Design	2
HIST 2620, United States History Since 1865*	3
MFET 4190, Quality Assurance	3
Technical Option (advanced)	<u>3</u>
Total	15

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#### BS in Engineering Technology

##### Major in Manufacturing Engineering Technology

###### FRESHMAN YEAR

FALL	HOURS
CHEM 1410, General Chemistry**	3
CHEM 1430, General Chemistry Laboratory**	1
ENGL 1310, College Writing I*	3
ENGR 1304, Engineering Graphics	3
MATH 1650, Pre-Calculus	<u>5</u>
Total	15

###### FRESHMAN YEAR

SPRING	HOURS
ENGL 2700, Technical Writing*	3
MATH 1710, Calculus I**	4
MFET 2100, Manufacturing Processes and Materials	3
PHYS 1710, Mechanics**	3
PHYS 1730, Laboratory in Mechanics**	1
PSCI 1040, American Government*	<u>3</u>
Total	17

###### SOPHOMORE YEAR

FALL	HOURS
CSCE 1020, Program Development	4
ENGR 2301, Statics	3
MATH 1720, Calculus II**	3
MFET 3110, Machining Principles and Processes	4
Technical Elective	<u>3</u>
Total	17

###### SOPHOMORE YEAR

SPRING	HOURS
GNET 2060, Professional Presentations (may be used to satisfy Communication requirement**)	3
MFET 3450, Engineering Materials	3
PHYS 2220, Electricity and Magnetism**	3
PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics**	1
PSCI 1050, American Government*	3
Humanities*	3
Wellness*	<u>3</u>
Total	19

###### JUNIOR YEAR

FALL	HOURS
ENGR 2332, Mechanics of Materials	3
ENGR 2405, Fundamentals of Electrical Engineering	4
GNET 1030, Technological Systems (may be used to satisfy Social and Behavioral Sciences requirement*)	3
HIST 2610, United States History to 1865*	3
MEET 3660, Applications in Thermal Sciences	<u>3</u>
Total	16

###### JUNIOR YEAR

SPRING	HOURS
ELET 3970, Electronic Devices and Controls	3
MEET 3650, Design of Mechanical Components	3
MFET 4190, Quality Assurance	3
MFET 4210, CAD/CAM System Operations	3
MGMT 3830, Operations Management	<u>3</u>
Total	15

###### SENIOR YEAR

FALL	HOURS
HIST 2620, United States History Since 1865*	3
MFET 3520, Soldering, Brazing and Adhesive Bonding	3
MFET 4200, Engineering Cost Analysis	2
MFET 4230, CNC Programming and Operation	4
Visual and Performing Arts*	<u>3</u>
Total	15

###### SENIOR YEAR

SPRING	HOURS
MEET 4360, Experimental Thermal Sciences	2
MFET 3250, Plastic Materials and Processes	3
MFET 4790, Senior Design	2
Cross-cultural, Diversity and Global Studies*	3
Technical Option (advanced)	<u>4</u>
Total	14

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### BS in Engineering Technology

#### Major in Mechanical Engineering Technology

##### FRESHMAN YEAR

FALL	HOURS
CHEM 1410, General Chemistry**	3
CHEM 1430, General Chemistry Laboratory**	1
ENGL 1310, College Writing I*	3
ENGR 1304, Engineering Graphics	3
MATH 1650, Pre-Calculus	<u>5</u>
Total	15

##### FRESHMAN YEAR

SPRING	HOURS
ENGL 2700, Technical Writing*	3
MATH 1710, Calculus I	4
MFET 2100, Manufacturing Processes and Materials	3
PHYS 1710, Mechanics**	3
PHYS 1730, Laboratory in Mechanics**	1
Technical Option (advanced)	<u>2</u>
Total	16

##### SOPHOMORE YEAR

FALL	HOURS
CSCI 1020, Program Development	4
ENGR 2301, Statics	3
GNET 2060, Professional Presentations (may be used to satisfy Communication requirement**)	3
MATH 1720, Calculus II**	3
MFET 3110, Machining Principles and Processes	<u>4</u>
Total	17

##### SOPHOMORE YEAR

SPRING	HOURS
ENGR 2302, Dynamics	3
MFET 3450, Engineering Materials	3
PHYS 2220, Electricity and Magnetism**	3
PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics**	1
PSCI 1040, American Government*	3
Cross-cultural, Diversity and Global Studies*	3
Technical Elective	<u>3</u>
Total	19

##### JUNIOR YEAR

FALL	HOURS
ENGR 2332, Mechanics of Materials	3
ENGR 2405, Fundamentals of Electrical Engineering	4
HIST 2610, United States History to 1865*	3
MEET 3940, Fluid Mechanics Applications	3
PSCI 1050, American Government*	<u>3</u>
Total	16

##### JUNIOR YEAR

SPRING	HOURS
ELET 3970, Electronic Devices and Controls	3
MEET 3650, Design of Mechanical Components	3
MEET 3990, Applied Thermodynamics	3
MFET 4190, Quality Assurance	3
MFET 4210, CAD/CAM System Operations	3
Humanities*	<u>3</u>
Total	18

##### SENIOR YEAR

FALL	HOURS
GNET 1030, Technological Systems (may be used to satisfy Social and Behavioral Sciences requirement*)	3
HIST 2620, United States History Since 1865*	3
MEET 4050, Mechanical Design	3
MEET 4350, Heat Transfer Applications	3
MFET 4200, Engineering Cost Analysis	<u>2</u>
Total	14

##### SENIOR YEAR

SPRING	HOURS
MEET 4360, Experimental Thermal Sciences	2
MEET 4790, Senior Design	2
Technical Option (advanced)	3
Visual and Performing Arts*	3
Wellness*	<u>3</u>
Total	13

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### BS in Engineering Technology

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#### BS in Engineering Technology

##### Major in Nuclear Engineering Technology

#### FRESHMAN YEAR

FALL	HOURS
CSCE 1020, Program Development	4
ENGL 1310, College Writing I*	3
HIST 2610, United States History to 1865*	3
MATH 1650, Pre-Calculus	5
Total	15

#### FRESHMAN YEAR

SPRING	HOURS
CHEM 1410, General Chemistry**	3
CHEM 1430, General Chemistry Laboratory**	1
ENGL 2700, Technical Writing*	3
HIST 2620, United States History Since 1865*	3
MATH 1710, Calculus I**	4
Cross-cultural, Diversity and Global Studies*	3
Total	17

#### SOPHOMORE YEAR

FALL	HOURS
GNET 1030, Technological Systems (may be used to satisfy Social and Behavioral Sciences requirement*)	3
GNET 2060, Professional Presentations (may be used to satisfy Communication requirement**)	3
MATH 1720, Calculus II**	3
PHYS 1710, Mechanics**	3
PHYS 1730, Laboratory in Mechanics**	1
Humanities*	3
Total	16

#### SOPHOMORE YEAR

SPRING	HOURS
ENGR 2301, Statics	3
MATH 1680, Elementary Probability and Statistics	3
PHYS 2220, Electricity and Magnetism**	3
PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics**	1
PSCI 1040, American Government*	3
Technical Elective	3
Total	16

#### JUNIOR YEAR

FALL	HOURS
ENGR 2405, Fundamentals of Electrical Engineering	4
MFET 4190, Quality Assurance	3
NUET 3910, Principles of Nuclear Technology	3
Technical Option	3
Wellness*	3
Total	16

#### JUNIOR YEAR

SPRING	HOURS
ELET 3970, Electronic Devices and Controls	3
MEET 3990, Applied Thermodynamics	3
NUET 3920, Nuclear Instrumentation and Measurement	4
PSCI 1050, American Government*	3
Technical Option (advanced)	3
Total	16

#### SENIOR YEAR

FALL	HOURS
ELET 4940, Electrical Power Generation and Transmission	3
MEET 3940, Fluid Mechanics Applications	3
NUET 3930, Radiation Biology and Safety	4
NUET 4050, Nuclear Reactor Theory	3
Technical Option (advanced)	3
Total	16

#### SENIOR YEAR

SPRING	HOURS
ELET 4950, Automatic Control Systems	4
NUET 4790, Senior Design	2
NUET 4930, Reactor Engineering Design and Operation	4
Technical Option	3
Visual and Performing Arts*	3
Total	16

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