SPRING	HOURS
EENG 1920, Project II – Introduction to	
Electrical Engineering	2
EENG 2620, Signals and Systems	3
EENG 2920, Project IV - Analog Circuit	
Design	2
EENG 3410, Engineering Electromagnet	ics 3
EENG 3510, Electronics I	3
Total	13
SUMMER	HOURS
EENG 3910, Project V - DSP System Des	sign 2
ENGR 2060, Professional Presentations	<u>3</u>
Total	5
FIFTH YEAR (UNT)	
FALL	HOURS
EENG 3520, Electronics II	3
EENG 3710, Computer Organization	3
EENG 3810, Communication Systems	3
EENG 3920, Project VI - Modern	
Communication System Design	2
MGMT 3850, Entrepreneurship	3
Total	14
SPRING	HOURS
EENG 4010, Topics in Electrical Enginee	
EENG 4010, Topics in Electrical Enginee	
EENG 4010, Topics in Electrical Enginee EENG 4710, VLSI Design	3 3
EENG 4710, VESI Design EENG 4810, Computer Networks	3
EENG 4910, Computer Networks EENG 4910, Project VII - Senior Design	
Total	1 5
SUMMER	HOURS
EENG 4990, Project VIII - Senior Design	
Total	3

\*See the Texas Woman's University catalog for degree requirements for the Bachelor of Science with a major in mathematics.

Actual degree plans may vary depending on availability of courses in a given semester. Some courses may require prerequisites not listed.

# **Graduate Degrees**

The Department of Electrical Engineering offers a degree program leading to the Master of Science. For information, consult the *Graduate Catalog*.

#### **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.

# Department of Engineering Technology

Main Departmental Office Discovery Park 3940 N. Elm Street, Suite F115 Denton, TX 76207-7102 940-565-2022 Fax: 940-565-2666 E-mail: etec@unt.edu Web site: www.etec.unt.edu Nourredine Boubekri, Chair

#### **Faculty**

Anaya, Arnold, Boubekri, Foster, Grubbs, Hayes, Huang, Kougianos, Kozak, Mirshams, Nasrazadani, Nouri, Plummer, Vaidyanathan, Wang, Yu, Zhang

#### 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 integrated design and 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.

#### Vision

The Department of Engineering Technology is committed to leadership — in education and research — in contemporary and innovative engineering and technology areas, locally, nationally and internationally.

#### Mission

The Department of Engineering Technology is committed to excellence in teaching, conducting research, and preparing engineering and engineering technology professionals.

## **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, electrical engineering technology, mechanical engineering technology and nuclear engineering technology, and
- Master of Science with a major in engineering systems and concentrations in construction management, electronics engineering management, engineering management and mechanical engineering management.

A concentration in manufacturing engineering technology is available under the major in mechanical engineering technology.

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

#### **Construction Engineering Technology (CNET)**

This program is not currently accepting students.

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. The development of technical communication and presentation skills is a requirement throughout the curriculum.

#### **Electrical Engineering Technology (ELET)**

The electrical engineering technology major is designed to develop the technical and personal knowledge and skill necessary to compete successfully in today's electrical industries. 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 electrical 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 majors. The development of technical communication and presentation skills is a requirement throughout the curriculum.

Electrical engineering technology is accredited by the Technology Accreditation Commission of ABET (111 Market Place, Suite 1050, Baltimore, MD 21202; 410-347-7700).

#### Mechanical Engineering Technology (MEET)

The mechanical engineering technology major is built upon a strong foundation of science, mathematics and technical course work designed to meet the diverse needs of the mechanical engineer. 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, fluid and thermal sciences and quality assurance provide the student with a broad range of applications for the pursuit of a career in mechanical engineering technology.

Mechanical engineering technology is accredited by the Technology Accreditation Commission of ABET (111 Market Place, Suite 1050, Baltimore, MD 21202; 410-347-7700).

#### Manufacturing Engineering Technology (MFET) as a Concentration under Mechanical Engineering Technology

The manufacturing engineering technology as a concentration prepares students for professional careers in the manufacturing environment. Manufacturing engineering technologists apply scientific and engineering knowledge and methods in support of engineering activities. Manufacturing engineering technologists share much of the mathematics and science background of engineers. Their academic preparation emphasizes technical skills and product/process manufacturing applications. The major thrust of the manufacturing engineering technology curriculum is that of product/process design and factory automation. Graduates also take positions in research and development, reliability/quality assurance and process support functions.

Manufacturing engineering technology is accredited by the Technology Accreditation Commission of ABET (111 Market Place, Suite 1050, Baltimore, MD 21202; 410-347-7700).

#### Nuclear Engineering Technology (NUET)

The nuclear engineering technology major is designed to provide breadth of training for engineers and related technical personnel at the

Luminant 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 design, electric power generation and automatic control systems augment the curriculum. The program enhances the reactor operator training provided by Luminant by stressing the fundamentals of underlying physical and engineering principles behind many plant operating procedures.

Nuclear engineering technology is accredited by the Technology Accreditation Commission of ABET (111 Market Place, Suite 1050, Baltimore, MD 21202; 410-347-7700).

# Bachelor of Science in Engineering Technology

#### **Degree Requirements**

- 1. Hours Required and General/College Requirements: A minimum of 124 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:** 70–73 hours from one of five majors listed below, chosen with the advice of an academic advisor within the department.

Major in Construction Engineering Technology (73 hours): BUSI 1340; CNET 1160, CNET 2180, CNET 2300, CNET 3150, CNET 3160, CNET 3190, CNET 3410, CNET 3430, CNET 3440, CNET 3460, CNET 3480, CNET 4170, CNET 4180, CNET 4620, CNET 4780 CNET and CNET 4790; CSCE 1020; ENGR 2301 and ENGR 2332; ACCT 2010; BLAW 3430, BLAW 4770; ECON 1100.

Major in Electrical Engineering Technology (70 Hours): ELET 3700, ELET 3720, ELET 3740, ELET 3750, ELET 3760, ELET 4710, ELET 4720, ELET 4730, ELET 4770, ELET 4780 and ELET 4790; ENGR 2405, ENGR 2720 and ENGR 2750; MFET 4190; plus 12 hours of technical electives and 3 advanced hours of technical options.

Major in Mechanical Engineering Technology (70 Hours): MEET 3650, MEET 3940, MEET 3990, MEET 4050, MEET 4350, MEET 4360, MEET 4780 and MEET 4790; ENGR 1304, ENGR 2301, ENGR 2302, ENGR 2332, ENGR 2405, ENGR 3340, ENGR 3450/3451, ENGR 3880; MFET 3110, MFET 4190, MFET 4200 and MFET 4210; ELET 3980, CSCE 1020; plus 3 hours of technical electives and 3 hours of advanced technical options.

Major in Mechanical Engineering Technology with a Concentration in Manufacturing Engineering Technology (70 Hours): MFET 2100, MFET 3110, MFET 3250, MFET 3520, MFET 4190, MFET 4200, MFET 4210, MFET 4230, MFET 4780 and MFET 4790; ENGR 1304, ENGR 2301, ENGR 2332, ENGR 2405, ENGR 3450/3451; MEET 3650, MEET 3660, MEET 4360; ELET 3970; MGMT 3830; CSCE 1020; plus 5 hours of technical electives.

Major in Nuclear Engineering Technology (70 Hours): NUET 3910, NUET 3920, NUET 3930, NUET 4050, NUET 4780, NUET 4790, NUET 4930 and NUET 4940; ENGR 2301, ENGR 2405; ELET 3970; MEET 3940 and MEET 3990; MFET 4190; MATH 1680; CSCE 1020; plus 3 hours of technical elective and

17 hours (6 advanced) of technical options approved by advisor.

- 3. Other Course Requirements: MATH 1710 and MATH 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. ENGR 1030 (may be used to satisfy the Social and Behavioral Sciences requirement of the University Core Curriculum).
  - b. ENGR 2060 (may be used to satisfy a portion of the Understanding the Human Community requirement of the University Core Curriculum and College of Engineering Foundation Requirements).
  - c. CSCE 4010, Engineering Ethics (required for all majors except mechanical engineering technology).
  - d. PHYS 1710/1730 and PHYS 2220/2240 and CHEM 1410/1430 (may be used to satisfy the Natural Sciences requirement of the University Core Curriculum).
  - e. TECM 2700 is required instead of ENGL 1320 (satisfies College of Engineering Core requirement).
  - f. A 2.5 GPA is required for engineering technology courses in the major.
  - g. Courses taken to satisfy the technical options in each major must be approved by the academic advisor

# BS in Engineering Technology Major in Construction Engineering Technology

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

FALL CHEM 1410, General Chemistry for Science Majors** CHEM 1430, General Chemistry Laboratory** Laboratory**  CNET 1160, Construction Methods and Materials ENGL 1310, College Writing I* ENGR 1030, Technological Systems (may be used to satisfy Social and Behavioral Science requirement*)  SPRING HOURS CNET 2180, Construction Methods and Surveying ECON 1100, Microeconomics MATH 1720, Calculus II** Total  SPHYS 1710, Mechanics** 3 PHYS 1730, Laboratory in Mechanics** 1 Total  SOPHOMORE YEAR FALL SCE 1020, Program Development TECM 2700, Technical Writing* ENGR 2301, Statics HIST 2610, United States History to 1865* 3 Total  SPRING BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement)** ENGR 2302, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement)** ENGR 2332, Mechanics of Materials HIST 2620, United States History Since 1865* 3 PHYS 2220, Electricity and Magnetism PHYS 2220, Electricity and Magnetism PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics  Total  Total Time Hours  Total Service Magnetism and Optics  A Community Requirement (may be used to satisfy a portion of Understanding the Human Community requirement)**  ENGR 2332, Mechanics of Materials A HIST 2620, United States History Since 1865* 3 PHYS 2220, Electricity and Magnetism PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics		
Science Majors** CHEM 1430, General Chemistry Laboratory** Laboratory** CNET 1160, Construction Methods and Materials ENGL 1310, College Writing I* ENGR 1030, Technological Systems (may be used to satisfy Social and Behavioral Science requirement*)  MATH 1710, Calculus I Total  SPRING HOURS CNET 2180, Construction Methods and Surveying 4 ECON 1100, Microeconomics MATH 1720, Calculus II** 3 PHYS 1710, Mechanics** 3 PHYS 1730, Laboratory in Mechanics** Total  SOPHOMORE YEAR FALL ACCT 2010, Accounting Principles I CNET 2300, Architectural Drawing CSCE 1020, Program Development TECM 2700, Technical Writing* ENGR 2301, Statics HIST 2610, United States History to 1865* Total  SPRING BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement)** ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement**)  ENGR 2332, Mechanics of Materials HIST 2620, United States History Since 1865* 3 PHYS 2220, Electricity and Magnetism PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics  1		HOURS
CHEM 1430, General Chemistry Laboratory** 1 CNET 1160, Construction Methods and Materials 3 ENGL 1310, College Writing I* 3 ENGR 1030, Technological Systems (may be used to satisfy Social and Behavioral Science requirement*) 3 MATH 1710, Calculus I 4 Total 17  SPRING HOURS CNET 2180, Construction Methods and Surveying 4 ECON 1100, Microeconomics 3 MATH 1720, Calculus II** 3 PHYS 1710, Mechanics** 3 PHYS 1730, Laboratory in Mechanics** 1 Total 14  SOPHOMORE YEAR FALL HOURS ACCT 2010, Accounting Principles I 3 CNET 2300, Architectural Drawing 2 CSCE 1020, Program Development 4 TECM 2700, Technical Writing* 3 ENGR 2301, Statics 3 HIST 2610, United States History to 1865* 3 Total 18  SPRING HOURS BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement)** 3 ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement)** 3 ENGR 2332, Mechanics of Materials 4 HIST 2620, United States History Since 1865* 3 PHYS 2220, Electricity and Magnetism 3 PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics 1		
Laboratory**  CNET 1160, Construction Methods and Materials  ENGL 1310, College Writing I*  ENGR 1030, Technological Systems (may be used to satisfy Social and Behavioral Science requirement*)  3 MATH 1710, Calculus I  Total  Total  Total  CNET 2180, Construction Methods and Surveying  ECON 1100, Microeconomics  MATH 1720, Calculus II**  3 PHYS 1710, Mechanics**  3 PHYS 1730, Laboratory in Mechanics**  Total  CNET 2300, Architectural Drawing  CSCE 1020, Program Development  TECM 2700, Technical Writing*  ENGR 2301, Statics  HIST 2610, United States History to 1865*  Total  SPRING  BUSI 1340, Free Enterprise System on  Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement)**  ENGR 2600, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement)**  ENGR 2332, Mechanics of Materials  HIST 2620, United States History Since 1865*  3 PHYS 2220, Electricity and Magnetism  PHYS 2240, Laboratory in Wave Motion,  Electricity, Magnetism and Optics  1	Science Majors**	3
CNET 1160, Construction Methods and Materials 3  ENGL 1310, College Writing I* 3  ENGR 1030, Technological Systems (may be used to satisfy Social and Behavioral Science requirement*) 3  MATH 1710, Calculus I 4  Total 17  SPRING HOURS  CNET 2180, Construction Methods and Surveying 4  ECON 1100, Microeconomics 3  MATH 1720, Calculus II** 3  PHYS 1710, Mechanics** 3  PHYS 1730, Laboratory in Mechanics** 1  Total 14  SOPHOMORE YEAR  FALL HOURS  ACCT 2010, Accounting Principles I 3  CNET 2300, Architectural Drawing 2  CSCE 1020, Program Development 4  TECM 2700, Technical Writing* 3  ENGR 2301, Statics 3  HIST 2610, United States History to 1865* 3  Total 18  SPRING HOURS  BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement)** 3  ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement)** 3  ENGR 2332, Mechanics of Materials 4  HIST 2620, United States History Since 1865* 3  PHYS 2220, Electricity and Magnetism 9  HYS 2220, Electricity and Magnetism 9  HYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics 1		
Materials ENGL 1310, College Writing I* ENGR 1030, Technological Systems (may be used to satisfy Social and Behavioral Science requirement*)  MATH 1710, Calculus I Total  Total  SPRING  CNET 2180, Construction Methods and Surveying 4 ECON 1100, Microeconomics MATH 1720, Calculus II** 3 PHYS 1710, Mechanics** 3 PHYS 1730, Laboratory in Mechanics** 1 Total  SOPHOMORE YEAR FALL  HOURS  ACCT 2010, Accounting Principles I CNET 2300, Architectural Drawing CSCE 1020, Program Development 4 TECM 2700, Technical Writing* ENGR 2301, Statics HIST 2610, United States History to 1865* 3 Total  SPRING  BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement)**  ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement)**  ENGR 2332, Mechanics of Materials HIST 2620, United States History Since 1865* 3 PHYS 2220, Electricity and Magnetism PHYS 2220, Electricity and Magnetism PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics  1		1
ENGL 1310, College Writing I* ENGR 1030, Technological Systems (may be used to satisfy Social and Behavioral Science requirement*)  MATH 1710, Calculus I  Total  SPRING  CNET 2180, Construction Methods and Surveying  ECON 1100, Microeconomics  MATH 1720, Calculus II**  3  HYS 1710, Mechanics**  3  HYS 1710, Mechanics**  1  Total  SOPHOMORE YEAR  FALL  FALL  HOURS  ACCT 2010, Accounting Principles I  CNET 2300, Architectural Drawing  CSCE 1020, Program Development  TECM 2700, Technical Writing*  ENGR 2301, Statics  HIST 2610, United States History to 1865* 3  Total  SPRING  BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement)**  ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement)**  ENGR 2332, Mechanics of Materials  HIST 2620, United States History Since 1865*  PHYS 2220, Electricity and Magnetism  PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics  1		_
ENGR 1030, Technological Systems (may be used to satisfy Social and Behavioral Science requirement*)  MATH 1710, Calculus I Total  SPRING  CNET 2180, Construction Methods and Surveying  ECON 1100, Microeconomics  MATH 1720, Calculus II**  PHYS 1710, Mechanics**  PHYS 1730, Laboratory in Mechanics**  Total  SOPHOMORE YEAR  FALL  HOURS  ACCT 2010, Accounting Principles I CNET 2300, Architectural Drawing CSCE 1020, Program Development TECM 2700, Technical Writing*  ENGR 2301, Statics HIST 2610, United States History to 1865* Total  SPRING  BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement)**  ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement**)  ENGR 2332, Mechanics of Materials HIST 2620, United States History Since 1865* PHYS 2220, Electricity and Magnetism PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics  1	1,14,011410	
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SPRING HOURS  CNET 2180, Construction Methods and Surveying 4 ECON 1100, Microeconomics 3 MATH 1720, Calculus II** 3 PHYS 1710, Mechanics** 3 PHYS 1730, Laboratory in Mechanics** 1 Total 14  SOPHOMORE YEAR FALL HOURS ACCT 2010, Accounting Principles I 3 CNET 2300, Architectural Drawing 2 CSCE 1020, Program Development 4 TECM 2700, Technical Writing* 3 ENGR 2301, Statics 3 HIST 2610, United States History to 1865* 3 Total 18  SPRING HOURS BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement)** 3 ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement)** 3 ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement)** 3 ENGR 2332, Mechanics of Materials 4 HIST 2620, United States History Since 1865* 3 PHYS 2220, Electricity and Magnetism 9HYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics 1		
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ECON 1100, Microeconomics  MATH 1720, Calculus II**  PHYS 1710, Mechanics**  PHYS 1730, Laboratory in Mechanics**  Total  SOPHOMORE YEAR  FALL  HOURS  ACCT 2010, Accounting Principles I  CNET 2300, Architectural Drawing  CSCE 1020, Program Development  TECM 2700, Technical Writing*  ENGR 2301, Statics  HIST 2610, United States History to 1865*  Total  SPRING  BUSI 1340, Free Enterprise System on  Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement)**  ENGR 2060, Professional Presentations  (may be used to satisfy a portion of Understanding the Human Community requirement)**  ENGR 2332, Mechanics of Materials  HIST 2620, United States History Since 1865*  PHYS 2220, Electricity and Magnetism  PHYS 2240, Laboratory in Wave Motion,  Electricity, Magnetism and Optics  1	CNET 2180, Construction Methods	
MATH 1720, Calculus II**  PHYS 1710, Mechanics**  Total  SOPHOMORE YEAR  FALL  FALL  ACCT 2010, Accounting Principles I  CNET 2300, Architectural Drawing  CSCE 1020, Program Development  TECM 2700, Technical Writing*  ENGR 2301, Statics  HIST 2610, United States History to 1865*  Total  SPRING  BUSI 1340, Free Enterprise System on  Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement)**  ENGR 2060, Professional Presentations  (may be used to satisfy a portion of Understanding the Human Community requirement)**  ENGR 2332, Mechanics of Materials  HIST 2620, United States History Since 1865*  PHYS 2220, Electricity and Magnetism  PHYS 2240, Laboratory in Wave Motion,  Electricity, Magnetism and Optics  1		4
PHYS 1710, Mechanics** 3 PHYS 1730, Laboratory in Mechanics** 1 Total 14  SOPHOMORE YEAR  FALL HOURS  ACCT 2010, Accounting Principles I 3 CNET 2300, Architectural Drawing 2 CSCE 1020, Program Development 4 TECM 2700, Technical Writing* 3 ENGR 2301, Statics 3 HIST 2610, United States History to 1865* 3 Total 18  SPRING HOURS  BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement)** 3 ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement)** 3 ENGR 2032, Mechanics of Materials 4 HIST 2620, United States History Since 1865* 3 PHYS 2220, Electricity and Magnetism 9 HYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics 1		
PHYS 1730, Laboratory in Mechanics** 1 Total 14  SOPHOMORE YEAR  FALL HOURS  ACCT 2010, Accounting Principles I 3 CNET 2300, Architectural Drawing 2 CSCE 1020, Program Development 4 TECM 2700, Technical Writing* 3 ENGR 2301, Statics 3 HIST 2610, United States History to 1865* 3 Total 18  SPRING HOURS  BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement)** 3 ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement)** 3 ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement**) 3 ENGR 2332, Mechanics of Materials 4 HIST 2620, United States History Since 1865* 3 PHYS 2220, Electricity and Magnetism 9 HYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics 1		
Total HOURS  SOPHOMORE YEAR  FALL HOURS  ACCT 2010, Accounting Principles I 3 CNET 2300, Architectural Drawing 2 CSCE 1020, Program Development 4 TECM 2700, Technical Writing* 3 ENGR 2301, Statics 3 HIST 2610, United States History to 1865* 3 Total 18  SPRING HOURS  BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement)** 3 ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement)** 3 ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement)** 3 ENGR 2332, Mechanics of Materials 4 HIST 2620, United States History Since 1865* 3 PHYS 2220, Electricity and Magnetism 9 HYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics 1		
FALL HOURS  ACCT 2010, Accounting Principles I 3 CNET 2300, Architectural Drawing 2 CSCE 1020, Program Development 4 TECM 2700, Technical Writing* 3 ENGR 2301, Statics 3 HIST 2610, United States History to 1865* 3 Total 18  SPRING HOURS BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement)** 3 ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement**) 3 ENGR 2332, Mechanics of Materials 4 HIST 2620, United States History Since 1865* 3 PHYS 2220, Electricity and Magnetism 9HYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics 1	•	_
FALL HOURS  ACCT 2010, Accounting Principles I 3 CNET 2300, Architectural Drawing 2 CSCE 1020, Program Development 4 TECM 2700, Technical Writing* 3 ENGR 2301, Statics 3 HIST 2610, United States History to 1865* 3 Total 18  SPRING HOURS  BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement)** 3 ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement)** 3 ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement**) 3 ENGR 2332, Mechanics of Materials 4 HIST 2620, United States History Since 1865* 3 PHYS 2220, Electricity and Magnetism 3 PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics 1	Total	14
ACCT 2010, Accounting Principles I 3 CNET 2300, Architectural Drawing 2 CSCE 1020, Program Development 4 TECM 2700, Technical Writing* 3 ENGR 2301, Statics 3 HIST 2610, United States History to 1865* 3 Total 18  SPRING HOURS BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement)** 3 ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement)** 3 ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement**) 3 ENGR 2332, Mechanics of Materials 4 HIST 2620, United States History Since 1865* 3 PHYS 2220, Electricity and Magnetism 9 HYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics 1	SOPHOMORE YEAR	
CNET 2300, Architectural Drawing CSCE 1020, Program Development TECM 2700, Technical Writing* ENGR 2301, Statics HIST 2610, United States History to 1865* Total  SPRING HOURS BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement)** ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement**)  ENGR 2332, Mechanics of Materials HIST 2620, United States History Since 1865* PHYS 2220, Electricity and Magnetism PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics  1		
CSCE 1020, Program Development  TECM 2700, Technical Writing*  ENGR 2301, Statics  HIST 2610, United States History to 1865*  Total  SPRING  BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement)**  ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement**)  ENGR 2332, Mechanics of Materials  HIST 2620, United States History Since 1865*  PHYS 2220, Electricity and Magnetism PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics  1	ACCT 2010, Accounting Principles I	
TECM 2700, Technical Writing*  ENGR 2301, Statics  HIST 2610, United States History to 1865*  Total  SPRING  BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement)**  ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement**)  ENGR 2332, Mechanics of Materials  HIST 2620, United States History Since 1865*  PHYS 2220, Electricity and Magnetism PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics  1	CNET 2300 Architectural Drawing	
ENGR 2301, Statics  HIST 2610, United States History to 1865*  Total  SPRING  BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement)**  ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement**)  ENGR 2332, Mechanics of Materials HIST 2620, United States History Since 1865*  PHYS 2220, Electricity and Magnetism PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics  1		
HIST 2610, United States History to 1865* Total  SPRING  BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement)**  ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement**)  ENGR 2332, Mechanics of Materials HIST 2620, United States History Since 1865* PHYS 2220, Electricity and Magnetism PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics  1	CSCE 1020, Program Development	4
Total HOURS  SPRING HOURS  BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement)** 3  ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement**) 3  ENGR 2332, Mechanics of Materials 4  HIST 2620, United States History Since 1865* 3  PHYS 2220, Electricity and Magnetism 3  PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics 1	CSCE 1020, Program Development TECM 2700, Technical Writing*	4 3
SPRING BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement)**  ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement**)  ENGR 2332, Mechanics of Materials 4 HIST 2620, United States History Since 1865* 3 PHYS 2220, Electricity and Magnetism PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics  1	CSCE 1020, Program Development TECM 2700, Technical Writing* ENGR 2301, Statics	4 3 3
BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement)** 3 ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement**) 3 ENGR 2332, Mechanics of Materials 4 HIST 2620, United States History Since 1865* 3 PHYS 2220, Electricity and Magnetism 3 PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics 1	CSCE 1020, Program Development TECM 2700, Technical Writing* ENGR 2301, Statics HIST 2610, United States History to 186.	4 3 3 5* <u>3</u>
Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement)** 3  ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement**) 3  ENGR 2332, Mechanics of Materials 4  HIST 2620, United States History Since 1865* 3  PHYS 2220, Electricity and Magnetism 3  PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics 1	CSCE 1020, Program Development TECM 2700, Technical Writing* ENGR 2301, Statics HIST 2610, United States History to 186.	4 3 3 5* <u>3</u>
to satisfy a portion of Understanding the Human Community requirement)** 3  ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement**) 3  ENGR 2332, Mechanics of Materials 4  HIST 2620, United States History Since 1865* 3  PHYS 2220, Electricity and Magnetism 3  PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics 1	CSCE 1020, Program Development TECM 2700, Technical Writing* ENGR 2301, Statics HIST 2610, United States History to 186 Total	4 3 3 5* <u>3</u> 18
the Human Community requirement)** 3  ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement**) 3  ENGR 2332, Mechanics of Materials 4  HIST 2620, United States History Since 1865* 3  PHYS 2220, Electricity and Magnetism 3  PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics 1	CSCE 1020, Program Development TECM 2700, Technical Writing* ENGR 2301, Statics HIST 2610, United States History to 186. Total  SPRING BUSI 1340, Free Enterprise System on	4 3 3 5* <u>3</u> 18
ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement**)  ENGR 2332, Mechanics of Materials 4 HIST 2620, United States History Since 1865* PHYS 2220, Electricity and Magnetism PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics  1	CSCE 1020, Program Development TECM 2700, Technical Writing* ENGR 2301, Statics HIST 2610, United States History to 186. Total  SPRING BUSI 1340, Free Enterprise System on Global Environment (may be used	4 3 3 5* <u>3</u> 18
(may be used to satisfy a portion of Understanding the Human Community requirement**) 3 ENGR 2332, Mechanics of Materials 4 HIST 2620, United States History Since 1865* 3 PHYS 2220, Electricity and Magnetism 3 PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics 1	CSCE 1020, Program Development TECM 2700, Technical Writing* ENGR 2301, Statics HIST 2610, United States History to 186. Total  SPRING BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding	4 3 3 5* 3 18 HOURS
Understanding the Human Community requirement**) 3 ENGR 2332, Mechanics of Materials 4 HIST 2620, United States History Since 1865* 3 PHYS 2220, Electricity and Magnetism 3 PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics 1	CSCE 1020, Program Development TECM 2700, Technical Writing* ENGR 2301, Statics HIST 2610, United States History to 186. Total  SPRING BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement	4 3 3 5* 3 18 HOURS
requirement**) 3 ENGR 2332, Mechanics of Materials 4 HIST 2620, United States History Since 1865* 3 PHYS 2220, Electricity and Magnetism 3 PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics 1	CSCE 1020, Program Development TECM 2700, Technical Writing* ENGR 2301, Statics HIST 2610, United States History to 186. Total  SPRING BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement ENGR 2060, Professional Presentations	4 3 3 5* 3 18 HOURS
ENGR 2332, Mechanics of Materials 4 HIST 2620, United States History Since 1865* 3 PHYS 2220, Electricity and Magnetism 3 PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics 1	CSCE 1020, Program Development TECM 2700, Technical Writing* ENGR 2301, Statics HIST 2610, United States History to 186. Total  SPRING BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement ENGR 2060, Professional Presentations (may be used to satisfy a portion of	4 3 3 5* <u>3</u> 18 HOURS
HIST 2620, United States History Since 1865* 3 PHYS 2220, Electricity and Magnetism 3 PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics 1	CSCE 1020, Program Development TECM 2700, Technical Writing* ENGR 2301, Statics HIST 2610, United States History to 186. Total  SPRING BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Commun	4 3 3 5* <u>3</u> 18 <b>HOURS</b> )** 3
PHYS 2220, Electricity and Magnetism PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics  1	CSCE 1020, Program Development TECM 2700, Technical Writing* ENGR 2301, Statics HIST 2610, United States History to 186. Total  SPRING BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Commun requirement**)	4 3 3 5* 3 18  HOURS  **  3 ity 3
PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics <u>1</u>	CSCE 1020, Program Development TECM 2700, Technical Writing* ENGR 2301, Statics HIST 2610, United States History to 186. Total  SPRING BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Commun requirement**) ENGR 2332, Mechanics of Materials	4 3 3 5* 3 18  HOURS  **  3 ity 3 4
Electricity, Magnetism and Optics <u>1</u>	CSCE 1020, Program Development TECM 2700, Technical Writing* ENGR 2301, Statics HIST 2610, United States History to 186. Total  SPRING BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Commun requirement**) ENGR 2332, Mechanics of Materials HIST 2620, United States History Since 1	4 3 3 5* 3 18  HOURS  **  3 ity 3 4 1865* 3
	CSCE 1020, Program Development TECM 2700, Technical Writing* ENGR 2301, Statics HIST 2610, United States History to 186. Total  SPRING BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Commun requirement**) ENGR 2332, Mechanics of Materials HIST 2620, United States History Since 1 PHYS 2220, Electricity and Magnetism	4 3 3 5* 3 18  HOURS   ity 3 4 1865* 3 3
Total 17	CSCE 1020, Program Development TECM 2700, Technical Writing* ENGR 2301, Statics HIST 2610, United States History to 186. Total  SPRING BUSI 1340, Free Enterprise System on Global Environment (may be used to satisfy a portion of Understanding the Human Community requirement ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Commun requirement**) ENGR 2332, Mechanics of Materials HIST 2620, United States History Since PHYS 2220, Electricity and Magnetism PHYS 2240, Laboratory in Wave Motion	4 3 3 5* 2 18  HOURS  **  3 ity 3 4 1865* 3 3

JUNIOR YEAR	
FALL	<b>HOURS</b>
CNET 3150, Construction Contract	
Documents	2
CNET 3160, Construction Cost Estimatin	g 3
CNET 3410, Occupational Safety and Liab	oility 3
CNET 3430, Structural Analysis	3
PSCI 1040, American Government I*	3
Humanities*	_3
Total	17
SPRING H	HOURS
CNET 3190, Construction Scheduling	3
CNET 3440, Steel Structures	3
CNET 3460, Soils and Foundations	3
PSCI 1050, American Government II*	3
Visual and Performing Arts*	3
Total	15
SENIOR YEAR	
FALL	<b>HOURS</b>
BLAW 3430, Legal and Ethical Environme	ent
of Business	3
CNET 3480, Structural Design with Conc	rete,
Timber and other Materials	3
CNET 4170, Construction Management	3
CNET 4780, Senior Design I	2
CSCE 4010, Engineering Ethics	2
Total	13
SPRING H	HOURS
BLAW 4770, Real Estate Law and Contrac	ets 3
CNET 4180, Problems in Project Manager	ment 3
CNET 4620, Advanced Design in	
Cold-Formed Steel Structures	3
CNET 4790, Senior Design II	2
Technical Elective	_2
Total	13
*See the University Core Curriculum section o catalog for approved list of course options.	f this

\*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.

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

Some courses may require prerequisites not listed.

BS in Engineering Technology  Major in Electrical Engineering Technology	SPRING HOURS ELET 3740, Electronics II 4 ELET 3760, Design of DSP Systems 4
Following is one suggested four-year degree plan. Students are encouraged to see their advisor each semester for help with program decisions and enrollment. Students are responsible for meeting all course prerequisites.	Technical Elective 2 Technical Elective 3 Technical Option (advanced) 3 Total 16 SENIOR YEAR
FRESHMAN YEAR FALL CHEM 1410, General Chemistry for Science Majors** CHEM 1430, General Chemistry Laboratory** 1 ENGL 1310, College Writing I* HIST 2610, United States History to 1865* 3 MATH 1710, Calculus I 4 PSCI 1040, American Government I* 3 Total 17  SPRING HOURS TECM 2700, Technical Writing* 3 HIST 2620, United States History Since 1865* 3	FALL ELET 4710, High Frequency Systems I ELET 4720, Control Systems 4 ELET 4730, Analog and Mixed Signal Electronics 4 ELET 4780, Senior Design I 2 Total 14  SPRING HOURS CSCE 4010, Engineering Ethics ELET 4770, High Frequency Systems II ELET 4790, Senior Design II 2 MFET 4190, Quality Assurance 3 Total 11
MATH 1720, Calculus II**  Humanities* 3 Technical Elective 4 Total  SOPHOMORE YEAR FALL ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community	*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.  Actual degree plans may vary depending on availability of courses in a given semester.  Some courses may require prerequisites not listed.
requirement**) 3  ENGR 2405, Fundamentals of Electrical Engineering 4  ENGR 2720, Digital Logic 4  PHYS 1710, Mechanics** 3  PHYS 1730, Laboratory in Mechanics** 1  Understanding the Human Community* 3  Total 18  SPRING HOURS	BS in Engineering Technology Major in Mechanical Engineering Technology  Following is one suggested four-year degree plan. Students are encouraged to see their advisor each semester for help with program decisions and enrollment. Students are responsible for meeting all course prerequisites.
ENGR 1030, Technological Systems (may be used to satisfy the Social and Behavioral Sciences requirement*) 3 ENGR 2750, Introduction to Microprocessors 4 PHYS 2220, Electricity and Magnetism 3 PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics* 1 PSCI 1050, American Government* 3 Visual and Performing Arts* 3 Total 17  JUNIOR YEAR FALL HOURS ELET 3700, Circuit Analysis 4 ELET 3720, Electronics I 4 ELET 3750, Digital Systems 4	FRESHMAN YEAR FALL CHEM 1410, General Chemistry for Science Majors**  CHEM 1430, General Chemistry Laboratory**  ENGL 1310, College Writing I* ENGR 1304, Engineering Graphics MATH 1710, Calculus I**  PSCI 1040, American Government* Total  SPRING TECM 2700, Technical Writing* ENGR 1030, Technological Systems (may be used to satisfy Social and
FALL HOURS ELET 3700, Circuit Analysis 4 ELET 3720, Electronics I 4	TECM 2700, Technical Writing* ENGR 1030, Technological Systems

MATH 1720, Calculus II** PHYS 1710, Mechanics** PHYS 1730, Laboratory in Mechanics** Humanities* Total	3 1 3 16	SPRINGHOURSCSCE 4010, Engineering Ethics2MEET 4360, Experimental Thermal Sciences2MEET 4790, Senior Design II2Technical Option (advanced)3Total9
SOPHOMORE YEAR		Total 9
FALL CSCE 1020, Program Development ENGR 2060, Professional Presentations (may be used to satisfy a portion of Understanding the Human Community requirement**) ENGR 2301, Statics ENGR 2405, Fundamentals of Electrical Engineering	Y 3 3 4	*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.  Actual degree plans may vary depending on availability of courses in a given semester.  Some courses may require prerequisites not listed.
HIST 2610, United States History to 1865	<u>3</u>	Some courses may require prerequisites not listed.
Total	17	BS in Engineering Technology
	OURS	Major in Nuclear Engineering Technology
ENGR 2302, Dynamics ENGR 2332, Mechanics of Materials MFET 2100, Manufacturing Processes and Materials PHYS 2220, Electricity and Magnetism**	3 4 3 3	Following is one suggested four-year degree plan. Students are encouraged to see their advisor each semester for help with program decisions and enrollment. Students are responsible for meeting all course prerequisites.
PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics**	1	FRESHMAN YEAR
Technical Elective	<u>3</u>	FALL HOURS
Total	17	CSCE 1020, Program Development 4
JUNIOR YEAR		ENGL 1310, College Writing I* 3
	OURS	HIST 2610, United States History to 1865* 3
ENGR 3450, Engineering Materials	3	MATH 1710, Calculus I <u>4</u>
ENGR 3451, Engineering Materials Labora		Total 14
HIST 2620, United States History Since 18		SPRING HOURS
MEET 3940, Fluid Mechanics Applications		CHEM 1410, General Chemistry for
MFET 3110, Machining Principles and		Science Majors**
Processes	4	CHEM 1430, General Chemistry Laboratory** 1
Understanding the Human Community*	3	TECM 2700, Technical Writing* 3
Total	17	HIST 2620, United States History Since 1865* 3
SPRING H	OURS	MATH 1720, Calculus II** 3
ELET 3970, Electronic Devices and Contro		Understanding the Human Community* 3
MEET 3650, Design of Mechanical		Total 16
Components	3	SOPHOMORE YEAR
MEET 3990, Applied Thermodynamics	3	FALL HOURS
MFET 4190, Quality Assurance	3	ENGR 1030, Technological Systems
MFET 4210, CAD/CAM System Operation		(may be used to satisfy Social and Behavioral Sciences requirement*) 3
PSCI 1050, American Government*	3	Behavioral Sciences requirement*) 3 ENGR 2060, Professional Presentations
Total	18	(may be used to satisfy a portion of
SENIOR YEAR		Understanding the Human Community
	OURS	requirement**) 3
MEET 4050, Mechanical Design	3	PHYS 1710, Mechanics** 3
MEET 4350, Heat Transfer Applications	3	PHYS 1730, Laboratory in Mechanics** 1
MEET 4780, Senior Design I	2	
MFET 4200, Engineering Cost Analysis Visual and Performing Arts*	2	Humanities* 3 Visual and Performing Arts* 3
Total	<u>3</u> 13	Total 16
	10	

SPRING	HOURS
ENGR 2301, Statics	3
MATH 1680, Elementary Probability	_
and Statistics	3
PHYS 2220, Electricity and Magnetism*	
PHYS 2240, Laboratory in Wave Motion	
Electricity, Magnetism and Optics**	1 3
PSCI 1040, American Government*	-
Technical Elective Total	<u>3</u> 16
	10
JUNIOR YEAR	******
FALL	HOURS
ENGR 2405, Fundamentals of Electrical	
Engineering	4
MFET 4190, Quality Assurance	3
NUET 3910, Principles of Nuclear Technical Option	nology 3
Technical Option	<u>4</u>
Total	17
Total	17
SPRING	HOURS
ELET 3970, Electronic Devices and Con	
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
MEET 3940, Fluid Mechanics Application	
NUET 3930, Radiation Biology and Safe	
NUET 4050, Nuclear Reactor Theory NUET 4780, Senior Design I	3 2.
NUET 4780, Semon Design 1 NUET 4940, Electrical Power Generatio	_
and Transmission	3
Total	15
10tui	13
SPRING	HOURS
CSCE 4010, Engineering Ethics	2
NUET 4790, Senior Design II	2

\*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.

NUET 4930, Reactor Engineering Design

and Operation Technical Option (advanced)

Technical Option

Total

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

Some courses may require prerequisites not listed.

#### Minor

# **General Engineering Technology**

The minor in general engineering technology requires 18 semester hours (6 advanced), chosen with approval of the engineering technology department chair.

# **Scholarships**

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

## **Graduate Degrees**

The Master of Science with a major in engineering systems and concentrations in mechanical engineering technology, electronics engineering technology, construction management and engineering management is available at the graduate level. Prospective students should consult with the graduate departmental advisor prior to initial enrollment.

#### **Courses of Instruction**

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

#### **Course and Subject Guide**

3

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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.