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In addition to UNT admissions requirements, you must also meet requirements for admission into your desired degree program (major) within the College of Engineering.

**Freshman Applicants:**
Must meet one of the following criteria:
- Top 25% of high school graduating class - MATH SAT score of 570 or better and a total SAT score of 1070 or better; or a MATH ACT score of 23 or better and a cumulative ACT score of 23 or better.
- Top 50% of high school graduating class - MATH SAT score of 600 or better and a total SAT score of 1100 or better; or a MATH ACT score of 24 or better and a cumulative ACT score of 24 or better.
- 51% or lower high school graduating class - MATH SAT of 630 or better and a total SAT score of 1180 or better; or a MATH ACT score of 26 or better and a cumulative ACT of 26 or better.
- No high school rank (GED or homeschooled) or international high school - MATH SAT score of 600 or better and a total SAT score of 1100 or better; or a MATH ACT score of 24 or better and a cumulative ACT score of 24 or better.

If you do not meet the criteria above, you may be admitted if you meet eligibility to enroll in MATH 1710, Calculus I, by completion of proper prerequisite(s) and/or testing. Please refer to page 31 of this guidebook for more information.

**Transfer & 2nd Bachelor’s Degree Applicants:**
Must be eligible to enroll in Math 1710 (Calculus I) by completion of proper prerequisite(s) and/or testing. Please refer to page 31 of this guidebook for more information.

If you meet the above requirements, admission will be granted into your desired degree program (major) within the College of Engineering. A degree audit must be created for you in order to progress toward graduation. The degree audit is an official document that lists all the courses & requirements you need to complete your degree. It also shows the application of completed courses, credits, & requirements toward graduation. Your degree audit will be created & emailed to your UNT email account after orientation. Please contact the Advising Office (contact information below) for any questions or concerns regarding your degree audit.

If you do not meet the above requirements, you must seek entry into a degree program (major) within another college or pursue Pre-Professional Engineering (PREP) in the College of Public Affairs & Community Service. You may be eligible for admissions into engineering when you are in academic good standing (minimum 2.0 cumulative UNT GPA) and when you are eligible to enter MATH 1710 via completion of (1) MATH 1650, Pre-Calculus with a grade of C or better; or (2) MATH 1610, Functions, Graphs & Applications, with a grade of C or better; or (3) earn a minimum score of 70 on ALEKS testing; or (4) earn a minimum score of 70 on Pearson’s MyMathTest, or (5) earn a minimum score of 101 on Accuplacer math placement testing. You will need to contact the College of Engineering Advising Office to seek admissions.

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**College of Engineering Advising Office**
The Advising Office exists to aid engineering students realize & achieve their academic goals. The office is open Monday through Friday from 8:30 A.M. to 5:00 P.M. Advising is available by appointment only. Please allow at least 3 weeks for an available appointment opening. You should meet with an advisor every semester.

Advisors/Counselors: Lauren Hill, Kimberly Srader, Rachel Smith, Adrian Stephens, Nancy Van Hoy

Contact information: North Texas Discovery Park A-101, (940) 565-4201
- engineering.unt.edu/advising
- “UNT College of Engineering Advising Office” on Facebook
- “@UNTCPENGAdvising” on Twitter
- “UNTCPENGAdvising” on Instagram and Pinterest

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Courses

All UNT courses are documented using a four letter subject abbreviation & four digit number.

Abbreviations: ENGL for English Numbers: Freshman 1000
HIST for History Sophomore 2000
MATH for Mathematics Junior 3000

Different types of courses at UNT:

• Prerequisite or “Prereq”: course that must be completed to move onto another course in a sequence.
• Corequisite or “Coreq”: course that must be taken in the same semester as another course.
• Recitation or “Rec”: extra, required meeting time to cover homework, answer questions, etc..
• Laboratory or “Lab”: required time that’s an application of the information that you learn in class.
• Advanced course: junior or senior level course.
• Internet course or “INET”: course in which the majority of instruction, assignments, & work is online.
• Blended course: course in which a portion of the instruction, assignments, & work is online.

Different semester or term offerings of courses at UNT:

• Fall: August to December
• Spring: January to May
• 3 Week: May
• 8 Week: May to July
• 10 week: June to August
• 5 week I: June to July
• 5 week II: July to August

Classification

Your classification is based on the number of earned credit hours after semester/term grade/credit posting; not the number of semesters or years you have been attending university. Classification dictates your registration appointment time each semester & may impact your eligibility for scholarships, financial aid, internships, etc.

Freshman: 0 - 29 hours
Sophomore: 30 - 59 hours
Junior: 60 - 89 hours
Senior: 90+ hours

Please note that UNT does not offer winter-mester

Degree Requirements

The structure of engineering bachelor’s degrees consists of 3 categories of requirements:

• University Core Curriculum: set of general education requirements common to all degrees at UNT.
• Engineering Foundations: set of requirements unique to engineering degrees.
• Major: set of requirements common to a primary area of study.

You may choose to pursue a Minor or a Certificate in addition to your degree requirements. A Minor or a Certificate is an optional set of requirements for a secondary area of study. It is similar to a “mini-major”.

North Texas Discovery Park (NTDP)

North Texas Discovery Park (NTDP) is a 2nd campus located 4 miles north of the main campus. It is the location of all College of Engineering offices, classes, & labs. NTDP also offers a cafeteria, library, computer access labs, specialty engineering labs, an engineering student organization office, an advising office, & a career services office.

Information on free bus transportation routes/times & available student parking passes/locations can be found at unt.edu/transit.
Grade Point Average (GPA)

Grades have a point value & courses are worth a certain amount of credit hours. GPA is calculated by dividing the number of grade points earned by the number of attempted hours. Attempted credit hours are used in calculating GPA. Credit hours earned by AP, CLEP, or IB & courses dropped “W” don’t count as attempted hours & don’t average into your GPA! Grades of “F” & “WF” are still attempted hours & count heavily against your GPA!

How do grades convert to grade points?

• A = 4 points x # of credit hours course is worth
• B = 3 points x # of credit hours course is worth
• C = 2 points x # of credit hours course is worth
• D = 1 points x # of credit hours course is worth
• F = 0 points x # of credit hours course is worth

How to Calculate Your GPA:

• Determine grade points for each course using the conversion above
• Total your number of grade points
• Total your number of attempted hours
• Divide total grade points by total attempted hours
• Number that results = your GPA

Different types of GPAs:

• Semester or Term GPA: the GPA you earned for the semester just enrolled.
• UNT GPA: the cumulative GPA you earn in all UNT courses. A minimum 2.0 GPA is required.
• Overall GPA: GPA you earn in all courses (UNT & transfer). A minimum 2.0 GPA is required.
• Engineering Foundations GPA: GPA you earn in foundations courses. A minimum 2.5 GPA is required.
• Major GPA: the GPA you earn in courses in your major.

You can access a GPA calculator at advising.unt.edu/about-your-gpa/calculate-your-gpa.
Grade Point Average (GPA): Honors

**Semester Honors:**

Semester honors is determined from your fall or spring semester GPA & is documented on your UNT transcript. You must complete at least 12 hours to be recognized for honors. Summer GPA is not recognized for honors. Candidates for a 2nd bachelor’s degree are not eligible for semester honors.

- President’s List: 4.000
- Dean’s List: 3.500 – 3.999

**Graduation with Honors:**

Graduation with honors is determined by your overall (UNT & transfer) GPA & is documented on your UNT transcript. Candidates for a 2nd bachelor’s degree are not eligible for graduation honors.

- Cum laude: 3.500 – 3.699
- Magna cum laude: 3.700 – 3.899
- Summa cum laude: 3.900 – 4.000

Grade Point Average (GPA): Academic Status

**Academic Good Standing:**

Standing if you earn at least a cumulative 2.0 UNT GPA. A 1.8 UNT GPA is acceptable during your 1st semester at UNT but it must be increased to at least a 2.0 after your 1st semester.

**Academic Alert:**

Standing if you are a freshmen & your UNT GPA falls below 1.8 during the 1st semester or falls below 2.0 during the 2nd semester. You can only be placed on alert once. You must raise your UNT GPA to 2.0 or higher during the alert semester or you will be placed on probation.

**Academic Probation:**

Standing if you are not eligible for alert & your UNT GPA falls below 1.8 during the 1st semester or falls below 2.0 during any following semester. You must raise your UNT GPA to 2.0 to return to good standing or earn a semester GPA of at least 2.25 to remain on probation.

**Academic Suspension:**

Standing if you fail to raise your UNT GPA to a 2.0 or earn a 2.25 semester GPA while on probation. A 1st suspension is for 1 long semester, a 2nd suspension is for 2 long semesters, & a 3rd suspension is for 4 long semesters. You may be allowed to return to UNT after completing your suspension period.

**Incompletes**

An “I” or “Incomplete” grade is a pending grade on your record which does not affect your GPA. An “I” may be granted by the professor if you meet all the following conditions:

- The final drop & withdraw deadlines for the semester/term have passed.
- You experience an emergency situation that prohibits you from completing remaining work.
- You have been earning a passing grade to the point of the emergency situation.
- You can complete & submit outstanding work within one year after the grade of “I” is granted.

Professors are not required to grant an “I” even if you meet the conditions. Each professor may use his or her discretion when deciding whether or not to grant an “I”. Incompletes must be completed within 12 months or an automatic grade of “F” will be posted on your transcript.
Pass/No Pass Grading Option

You may elect to take miscellaneous elective courses which are not needed for your degree plan or graduation under the Pass/No Pass Grading Option. Certain criteria must be met & you must obtain approval from your advisor after you have enrolled in the course. A “grade” of “P” or “NP” will be recorded on your transcript. This “grade” is not calculated into your GPA so your “grade” performance will not have a positive or negative impact on your GPA.

Refer to catalog.unt.edu for more information & unt.edu/registration for deadlines.

Retaking Courses: Course Duplications

If your transcript(s) contains the same course with an earned grade more than once, the 1st course/grade will be treated as a duplication & deleted from your GPA. Any additional courses/grades will be calculated into the GPA. This includes transfer courses/grades.

Course duplication will impact your GPA & your academic status (alert, probation, suspension, or good standing).

Please note there is a 2 attempt limit on engineering & major required courses that require a grade of C or better. Also, note that only the last attempt/grade will be used in certifying eligibility for graduation. Contact your advisor to confirm how your GPA or graduation eligibility will be affected if you take a course more than once.

Dropping or Withdrawing

Dropping refers to removing yourself from one or more courses for the semester/term (but you remain in at least one course for the semester/term). You can drop yourself via the MyUNT registration system before or shortly after the semester/term begins. The MyUNT drop functionality usually expires on the 1st day of summer semesters/terms or approximately 5 days into the fall/spring semesters/terms. After the MyUNT drop functionality expires, you may still be able to drop via approval of your course’s instructor. Please see drop procedures & deadlines listed at unt.edu/registration. A “W” or “WF” may be recorded on your transcript.

Only 6 drops are allowed during your academic career unless you began college before the fall semester of 2007. Once the 6 drop limit is reached, no additional drops are approved.

Withdrawing refers to dropping all courses for the semester/term. You are not allowed to withdraw (drop all courses) via the MyUNT registration system. You must follow the procedures & deadlines listed at unt.edu/registration. A “W” or “WF” may be recorded on your transcript.

Remember that a “WF” is calculated as a “F” grade on your GPA.

Dropping or withdrawing may affect your financial aid. Check with the Financial Aid Office!

Taking Courses at Another Institution: Concurrent Enrollment

You may take courses at another institution to apply at UNT if you meet the following conditions:

• You have been preapproved by your advisor.
• The course(s) you plan to enroll in have been preapproved by your advisor.
• You meet course load approval & residency requirements at UNT.
• You are not graduating the same semester/term in which you will be concurrently enrolled.

Enrollment in course(s) at another institution during your last/graduating semester will result in postponement of your graduation. This applies to summer enrollment as well as fall or spring enrollment.
Registration

You will be using MyUNT located at my.unt.edu to register for classes each semester/term. MyUNT is your personal database for all your information connected with UNT. You will need your EUID & password to log on. Instructional guides for using MyUNT are available on the login page under the myHelp link. MyUNT contains your:

- UNT transcript (shows your grades)
- Degree audit (degree plan which shows all requirements to earn your degree)
- Current Schedule
- Account Balance
- Financial Aid
- Registration/enrollment dates & holds
- Contact information registered with UNT

The ultimate information resource to UNT is the University Catalog. You can locate it at catalog.unt.edu. The catalog contains information on:

- Majors, Minors, Certificates offered
- Course descriptions (including prerequisites and corequisites)
- Options for core categories
- University policies (academic, financial, registration, behavior, etc.)
- Resources & contact information

Information on registration issues, problems, or concerns can be located at the following: unt.edu/registration.

You must register during open enrollment periods & pay by the deadline listed in MyUNT or unt.edu/registration. Failure to pay will result in the cancellation of your entire schedule of classes.

If you are having difficulty adding a course to your schedule, contact the department that teaches the course. Common difficulties include full course sections, prerequisite errors, corequisite errors & restricted section errors. Below are department contacts for some common course subject abbreviations:

<table>
<thead>
<tr>
<th>Subject Abbreviation</th>
<th>Department &amp; Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT</td>
<td>Accounting Department: BLB 213 or (940) 565-3080</td>
</tr>
<tr>
<td>BCIS</td>
<td>Info. Tech. &amp; Decision Science Department: BLB 208 or (940) 565-3110</td>
</tr>
<tr>
<td>BIOL</td>
<td>Biological Sciences Department: BIOL 210 or (940) 565-2011</td>
</tr>
<tr>
<td>BLAW</td>
<td>Finance, Insurance, Real Estate, Law Depart.: BLB 212 or (940) 565-3050</td>
</tr>
<tr>
<td>BMEN</td>
<td>Biomedical Engineering Department: DP A-160 or (940) 565-3338</td>
</tr>
<tr>
<td>CHEM</td>
<td>Chemistry Department: CHEM 101 or (940) 565-2713</td>
</tr>
<tr>
<td>CNET</td>
<td>Engineering Technology Department: DP F-115 or (940) 565-2022</td>
</tr>
<tr>
<td>CSCE</td>
<td>Computer Science &amp; Engineering Department: DP F-201 or (940) 565-2767</td>
</tr>
<tr>
<td>EENG</td>
<td>Electrical Engineering Department: DP B-270 or (940) 891-6872</td>
</tr>
<tr>
<td>ELET</td>
<td>Engineering Technology Department: DP F-115 or (940) 565-2022</td>
</tr>
<tr>
<td>ENGR</td>
<td>Engineering Technology Department: DP F-115 or (940) 565-2022</td>
</tr>
<tr>
<td>LTEC</td>
<td>Learning Technologies Department: DP G-150 or (940) 565-2057</td>
</tr>
<tr>
<td>MATH</td>
<td>Mathematics Department: GAB 435 or (940) 565-2155</td>
</tr>
<tr>
<td>MEEN</td>
<td>Mechanical &amp; Energy Engineering Department: DP F-101 or (940) 565-2400</td>
</tr>
<tr>
<td>MEET</td>
<td>Engineering Technology Department: DP F-115 or (940) 565-2022</td>
</tr>
<tr>
<td>MFET</td>
<td>Engineering Technology Department: DP F-115 or (940) 565-2022</td>
</tr>
<tr>
<td>MGMT</td>
<td>Management Department: BLB 207 or (940) 565-4234</td>
</tr>
<tr>
<td>MTSE</td>
<td>Materials Science &amp; Engineering Department: DP E-132 or (940) 565-3260</td>
</tr>
<tr>
<td>PHYS</td>
<td>Physics Department: PHYS 110 or (940) 565-2626</td>
</tr>
<tr>
<td>TECM</td>
<td>Technical Communications Department: AUDB 317 or (940) 565-4458</td>
</tr>
<tr>
<td>Any other courses</td>
<td>UNT Directory: (940) 565-2000 &amp; ask to be transferred to the appropriate department that teaches the course in question.</td>
</tr>
</tbody>
</table>
Graduation
You must make an appointment with the Advising Office the semester before you plan to graduate to confirm that you are on track for graduation. Also, you must obtain & complete a graduation application at the beginning of your final semester. Refer to registrar.unt.edu for more information & the application deadline. Failure to complete & submit a graduation application by the deadline listed in your final semester will result in your failure to graduate or earn your degree.

Graduation Ceremony
Commencement is UNT’s formal graduation ceremony. UNT offers 1 commencement each year for students who graduated in December, May, or August. Commencement is always held in May. In addition to commencement, the College of Engineering offers a college recognition ceremony in December & May for engineering students who graduated in December, May or August. In order to attend commencement and/or the college recognition ceremony, you must have applied for & been approved for graduation at the beginning of your final semester. Refer to unt.edu/commencement for more information.
BIOMEDICAL ENGINEERING
Bachelor of Science (B.S.) degree with a major in Biomedical Engineering offered through the Department of Biomedical Engineering
Discovery Park B-131; (940) 565-3338
www.biomedical.engineering.unt.edu
Faculty Advisor: Dr. Vijay Vaidyanathan

*This degree and major is only available to incoming first time in college students*

COMMUNICATION
- 3 Hours approved course
  Grade of “C” or better is required.

AMERICAN HISTORY
- HIST 2610, U.S. History To 1865 (3 Hours)
- HIST 2620, U.S. History From 1865 (3 Hours)
Honors equivalents, HIST 4700, or advanced US-Topic History course(s) may substitute for the courses above.

GOVERNMENT/POLITICAL SCIENCE
- PSCI 1040, Government: Laws & Institutions (3 Hours)
- PSCI 1050, Government: Processes & Policies (3 Hours)
If you are transferring credit for either PSCI course, check with your advisor about the application of course(s) taken elsewhere.

CREATIVE ARTS
- 3 Hours approved course

LANGUAGE, PHILOSOPHY, & CULTURE
- 3 Hours approved course

SOCIAL & BEHAVIORAL SCIENCE
- 3 Hours approved course

DISCOVERY
- Should be fulfilled by BMEN 1300, Discover Biomed.

CAPSTONE
- Should be fulfilled by BMEN 4222, Senior Design II

Engineering Foundations
Grades of C or better. Needs 2.5 GPA.

- MATH 1710, Calculus I (4 Hours)
- CHEM 1410, General Chemistry I (3 Hours) & CHEM 1430, General Chemistry I Lab (1 Hour)
  or
  CHEM 1415, Chemistry for Engineers (3 Hours) & CHEM 1435, Chemistry for Engineers Lab (1 Hour)
- PHYS 1710, Mechanics (3 Hours) & PHYS 1730, Mechanics Lab (1 Hour)
- TECM 2700, Technical Writing (3 Hours)

MATHMATICS & SCIENCE
- PHYS 2220, Electricity & Magnetism (3 Hours) & PHYS 2240 Electricity & Magnetism Lab (1 Hour)
- MATH 1720, Calculus II (3 Hours)
- MATH 2700, Linear Algebra & Vector Geometry (3 Hours)
- MATH 2730, Multivariable Calculus (3 Hours)
- MATH 3410, Differential Equations I (3 Hours)
- MATH 3680, Applied Statistics (3 Hours)

Please note that completion of the above UNT Math courses will earn a minor in Mathematics.

BIOMEDICAL ENGINEERING
- BMEN 1300, Discover Biomedical Engineering (3 Hours)
- BMEN 2320, Biomedical Instrumentation I (4 Hours)
- BMEN 3310, Anatomy and Physiology for Engineers (3 Hours)
- BMEN 3311, Biomedical Signal Analysis (3 Hours)
- BMEN 3312, Introduction to Biomechanics (3 Hours)
- BMEN 3321, Biomaterials (3 Hours)
- BMEN 4310, Biomedical Modeling (3 Hours)
- BMEN 4212, Senior Design I (1 Hours)
- BMEN 4222, Senior Design II (3 Hours)
- BMEN 4311, Advanced Topic in BMEN (3 Hours)
- BMEN 4321, Advanced Topic in BMEN (3 Hours)
- CSCE 1030, Computer Science I (4 Hours)
- EENG 2610, Circuit Analysis (3 Hours)
- EENG 2710, Logic Design (3 Hours)
- BMEN 2980, Biomed DAQ Practices (2 Hours)

BIOMEDICAL ENGINEERING ELECTIVE TRACK
Choose an elective track & complete 4 courses from the approved options below:

- Track Elective (3 Hours)
- Track Elective (3 Hours)

Biomedical Instrumentation Elective Track:
See BMEN Booklet for specific courses and options.

Biomechanics Elective Track:
See BMEN Booklet for specific courses and options.

Bioinformatics Elective Track:
See BMEN Booklet for specific courses and options.

Biomaterials Elective Track:
See BMEN Booklet for specific courses and options.

Biotechnology (Pre-Medical) Elective Track:
See BMEN Booklet for specific courses and options.

This is an unofficial simplified checklist effective Fall 2015. Degree requirements may change. You may need elective courses to help reach a minimum of 120 Total Hours & 36 Advanced Hours. Check with an advisor.
# BIOMEDICAL ENGINEERING

Sample Four-Year Schedule

*This degree and major is only available to incoming first time in college students*

## FRESHMAN YEAR

<table>
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<tr>
<th>FALL</th>
<th></th>
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<tbody>
<tr>
<td>MATH 1710, Calculus I (see note 1)</td>
<td>4</td>
<td>MATH 1720, Calculus II (MATH 1710)</td>
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<tr>
<td>CHEM 1410 or 1415, Chemistry (see note 2)</td>
<td>3</td>
<td>PHYS 1710, Mechanics (MATH 1710)</td>
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<tr>
<td>CHEM 1430 or 1435, Chemistry Lab (see note 2)</td>
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<td>PHYS 1730, Mechanics Lab (MATH 1710)</td>
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<tr>
<td>BMEN 1300, Discover BMEN (MATH 1650)</td>
<td>3</td>
<td>CSCE 1030, Computer Science I (see note 3)</td>
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<tr>
<td>Communication Core course</td>
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<td>TECM 2700, Tech. Writing (Communication Core)</td>
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<tr>
<td>University Core course</td>
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<td>University Core course</td>
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## SOPHOMORE YEAR

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<tr>
<td>MATH 2730, Multivariable Calculus (MATH 1720)</td>
<td>3</td>
<td>MATH 2700, Linear Algebra (MATH 1720)</td>
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<tr>
<td>PHYS 2220, E. &amp; M. (MATH 1720, PHYS 1710, 1730)</td>
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<td>BMEN 2320, Biomed.Instrum. I (BMEN 1300, EENG 2610)</td>
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<tr>
<td>PHYS 2240, E. &amp; M. Lab (MATH 1720, PHYS 1710, 1730)</td>
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<td>EENG 2710, Logic Design</td>
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<td>Elective Track Course (see note 6)</td>
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<td>Elective Track Course (see note 6)</td>
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<tr>
<td>EENG 2610, Circuits (see note 4)</td>
<td>3</td>
<td>BMEN 2980, Biomed DAQ Practices (see note 5)</td>
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<td><strong>Total Hours</strong></td>
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<td><strong>Total Hours</strong></td>
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## JUNIOR YEAR

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<tr>
<td>MATH 3410, Differential Equations (MATH 1720)</td>
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<td>MATH 3680, Statistics and Probability (MATH 1720)</td>
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<tr>
<td>BMEN 3311, Biomedical Signal Analysis (BMEN 2320)</td>
<td>3</td>
<td>BMEN 3321, Biomaterials (BMEN 3312)</td>
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<tr>
<td>BMEN 3310, Anatomy and Physiology (see note 5)</td>
<td>3</td>
<td>Elective Track course (see note 6)</td>
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<tr>
<td>BMEN 3312, Introduction to Biomechanics (see note 5)</td>
<td>3</td>
<td>University Core course</td>
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<td>Elective Track course (see note 6)</td>
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<td>University Core course</td>
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## SENIOR YEAR

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<tbody>
<tr>
<td>BMEN 4310, Biomedical Modeling (see note 5)</td>
<td>3</td>
<td>BMEN 4321, Advanced Topic in BMEN (see note 5)</td>
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<tr>
<td>BMEN 4212, Senior Design I (see note 5)</td>
<td>1</td>
<td>BMEN 4222, Senior Design II (BMEN 4212)</td>
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<tr>
<td>BMEN 4311, Advanced Topic in BMEN (see note 5)</td>
<td>3</td>
<td>Elective Track course (see track 6)</td>
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<td>Elective Track course (see note 6)</td>
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</table>

Required prerequisite(s) indicated in parentheses.

Note 1: MATH 1710 requires one of the following as prerequisite: completion of MATH 1650 with a grade of “C” or higher; or completion of MATH 1610 with a grade of “C” or higher; or Freshman Math Group Level 3; or approval authorized by score via mathematics testing; or earned credit for a math course at or above the MATH 1710 level.

Note 2: CHEM 1410 & 1430 requires MATH 1100, College Algebra (or higher) as prerequisite. CHEM 1415 & 1435 requires MATH 1650, Pre-Calculus (or higher) as prerequisite.

Note 3: CSCE 1030 requires completion of or co-enrollment in MATH 1710, Calculus I (or higher) as prerequisite. AP Computer Science A score of 4 or 5 earns credit for CSCE 1030. AP Computer Science AB score of 4 or 5 earns credit for CSCE 1030 & 1040. IB Computer Science earns credit for CSCE 1030 & 1040.

Note 4: EENG 2610 and ENGR 2415 requires completion of MATH 1720 and either completion of or co-enrollment in PHYS 2220 & 2240.

Note 5: Prerequisite(s) for this course have not been established yet. Please check with an advisor.

Note 6: Elective Track Courses depend on your chosen BMEN track. See BMEN Booklet or advisor for options.

Must earn at least a grade of “C” in each course above except for most University Core courses. Must earn at least a 2.5 GPA in Engineering Foundations courses.

This is an unofficial sample schedule. Requirements, prerequisites, etc. may change. Students should meet with an advisor each semester for individual scheduling, program decisions, etc. Engineering admissions requirements must be met & a degree audit must be created in order to progress in the program to a timely graduation.
COMPUTER ENGINEERING

Bachelor of Science (B.S.) degree with a major in Computer Engineering offered through the Department of Computer Science & Engineering
Discovery Park F-201; (940) 565-2767
www.cse.unt.edu
Faculty Advisors: Dr. Ryan Garlick & Mr. David Keathly

University Core

COMMUNICATON
- 3 Hours approved course
Grade of “C” or better is required.

AMERICAN HISTORY
- HIST 2610, U.S. History To 1865 (3 Hours)
- HIST 2620, U.S. History From 1865 (3 Hours)
Honors equivalents, HIST 4700, or advanced US-Topic History course(s) may substitute for the courses above.

GOVERNMENT/POLITICAL SCIENCE
- PSCI 1040, Government: Laws & Institutions (3 Hours)
- PSCI 1050, Government: Processes & Policies (3 Hours)
If you are transferring credit for either PSCI course, check with your advisor about the application of course(s) taken elsewhere.

CREATIVE ARTS
- 3 Hours approved course

LANGUAGE, PHILOSOPHY, & CULTURE
- 3 Hours approved course

SOCIAL & BEHAVIORAL SCIENCE
- 3 Hours approved course

DISCOVERY
- 3 Hours approved course

CAPSTONE
- Fulfilled by CSCE 4011, Engineering Ethics

Major Requirements: Computer Engineering

Grades of C or better. Needs a 2.75 GPA in CSCE courses.

MATHMATICS & SCIENCE
- PHYS 2220, Electricity & Magnetism (3 Hours) & PHYS 2240, Electricity & Magnetism Lab (1 Hour)
- MATH 1720, Calculus II (3 Hours)
- MATH 1780, Probability Models (3 Hours)
- MATH 2700, Linear Algebra & Vector Geometry (3 Hours)
- MATH 2730, Multivariable Calculus (3 Hours)
- Advanced Math or Science Elective course (3 Hours). Check with your advisor for approved options.

ELECTRICAL ENGINEERING
- EENG 2610 or ENGR 2405, Circuit Analysis (3 Hours) & ENGR 2415, Circuit Analysis Lab (1 Hour)
- EENG 2710 or ENGR 2720, Digital Logic Design (3 Hours) & ENGR 2730, Digital Logic Lab (1 Hour)
- EENG 3510, Electronics I (3 Hours)

COMPUTER SCIENCE and ENGINEERING
- CSCE 1030, Computer Science I (4 Hours)
- CSCE 1040, Computer Science II (3 Hours)
- CSCE 2100, Computing Foundations I (3 Hours)
- CSCE 2110, Computing Foundations II (3 Hours)
- CSCE 2610, Assembly Lang. & Computer Organization (3 Hours)
- CSCE 3010, Signals & Systems (3 Hours)
- CSCE 3020, Communications Systems (3 Hours)
- CSCE 3600, Principles of Systems Programming (3 Hours)
- CSCE 3612, Embedded Systems Design (3 Hours)
- CSCE 3730, Reconfigurable Logic (3 Hours)
- CSCE 4011, Engineering Ethics (3 Hours)
- CSCE 4910, Senior Design I (3 Hours)
- CSCE 4915, Senior Design II (3 Hours)

SPECIALTY AREA
Choose a specialty area & complete 3 courses from the approved options below:
- Specialty Elective (3 Hours)
- Specialty Elective (3 Hours)
- Specialty Elective (3 Hours)

Real-time & Embedded Systems Specialty Area (Choose 3 courses):
ELET 3750, CSCE 4440, 4444, 4600, 4610, 4620, 4730, 4890

VLSI & Electronics Specialty Area: (Choose 3 courses)
ELET 3750, 4300, 4340, PHYS 4500, CSCE 4610, 4730, 4890

Communications & Networks Specialty Area (Choose 3 courses):
CSCE 3420, 3530, 4510, 4520, 4530, 4550, 4560, 4890

Computer Systems Specialty Area (Choose 3 courses):
CSCE 3030, 4050, 4240, 4600, 4610, 4620, 4650, 4730, 4890

- MATH 1710, Calculus I (4 Hours)
- CHEM 1410, General Chemistry I (3 Hours) & CHEM 1430, General Chemistry I Lab (1 Hour)
or
- CHEM 1415, Chemistry for Engineers (3 Hours) & CHEM 1435, Chemistry for Engineers Lab (1 Hour)
- PHYS 1710, Mechanics (3 Hours) & PHYS 1730, Mechanics Lab (1 Hour)
- TECM 2700, Technical Writing (3 Hours)

This is an unofficial simplified checklist effective Fall 2015. Degree requirements may change. You may need elective courses to help reach a minimum of 121 Total Hours & 42 Advanced Hours. Check with an advisor.
# COMPUTER ENGINEERING
## Sample Four-Year Schedule

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>FALL</th>
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<tbody>
<tr>
<td>MATH 1710, Calculus I (see note 1)</td>
<td>MATH 1720, Calculus II (MATH 1710)</td>
</tr>
<tr>
<td>CHEM 1410 or 1415, Chemistry (see note 2)</td>
<td>PHYS 1710, Mechanics (MATH 1710)</td>
</tr>
<tr>
<td>CHEM 1430 or 1435, Chemistry Lab (see note 2)</td>
<td>PHYS 1730, Mechanics Lab (MATH 1710)</td>
</tr>
<tr>
<td>CSCE 1030, Computer Science I (see note 3)</td>
<td>CSCE 1040, Comp. Science II (CSCE 1030, MATH 1710)</td>
</tr>
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<td>Communication Core course</td>
<td>TECM 2700, Tech. Writing (Communication Core)</td>
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<tr>
<td><strong>Total Hours</strong></td>
<td><strong>Total Hours</strong></td>
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### SOPHOMORE YEAR

<table>
<thead>
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<tbody>
<tr>
<td>MATH 2730, Multivariable Calculus (MATH 1720)</td>
<td>MATH 1780, Probability Models (MATH 1710)</td>
</tr>
<tr>
<td>PHYS 2220, E. &amp; M. (MATH 1720, PHYS 1710, 1730)</td>
<td>MATH 2700, Linear Algebra (MATH 1720)</td>
</tr>
<tr>
<td>PHYS 2240, E. &amp; M. Lab (MATH 1720, PHYS 1710, 1730)</td>
<td>CSCE 2110, Computing Foundations II (CSCE 2100)</td>
</tr>
<tr>
<td>CSCE 2100, Computing Foundations I (CSCE 1040)</td>
<td>CSCE 2610, Assembly &amp; Org. (CSCE 2100, EENG 2710)</td>
</tr>
<tr>
<td>EENG 2710 or ENGR 2720, Digital Logic</td>
<td>EENG 2610 or ENGR 2405, Circuit Analysis (see note 4)</td>
</tr>
<tr>
<td>ENGR 2730, Digital Logic Lab</td>
<td>ENGR 2415, Circuit Analysis Lab (see note 4)</td>
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### JUNIOR YEAR

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<tr>
<td>EENG 3510, Electronics I (EENG 2610)</td>
<td>CSCE 3020, Comm. (CSCE 3010)</td>
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<tr>
<td>CSCE 3010, Signals &amp; Systems (ENGR 2405, MATH 2730)</td>
<td>CSCE 3612, Embed. Sys. Design (ENGR 2720, CSCE 2610)</td>
</tr>
<tr>
<td>CSCE 3600, Systems Programming (CSCE 2100)</td>
<td>CSCE Specialty Area Elective course (see note 5)</td>
</tr>
<tr>
<td>CSCE 3730, Reconfigurable Logic (CSCE 2610)</td>
<td>Advanced Math or Science Elective</td>
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<td>University Core course</td>
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### SENIOR YEAR

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<th>FALL</th>
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<tbody>
<tr>
<td>CSCE 4910, Design I (CSCE 3612, EENG 3510)</td>
<td>CSCE 4915, Design II (CSCE 4910)</td>
</tr>
<tr>
<td>CSCE Specialty Area Elective course (see note 5)</td>
<td>CSCE 4011, Engineering Ethics (junior classification)</td>
</tr>
<tr>
<td>CSCE Specialty Area Elective course (see note 5)</td>
<td>University Core course</td>
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<td>University Core course</td>
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</table>

Required prerequisite(s) indicated in parentheses.

Note 1: MATH 1710 requires one of the following as prerequisite: completion of MATH 1650 with a grade of “C” or higher; or completion of MATH 1610 with a grade of “C” or higher; or Freshman Math Group Level 3; or approval authorized by score via mathematics testing; or earned credit for a math course at or above the MATH 1710 level.

Note 2: CHEM 1410 & 1430 requires MATH 1100, College Algebra (or higher) as prerequisite. CHEM 1415 & 1435 requires MATH 1650, Pre-Calculus (or higher) as prerequisite.

Note 3: CSCE 1030 requires completion of or co-enrollment in MATH 1710, Calculus I (or higher) as prerequisite. AP Computer Science A score of 4 or 5 earns credit for CSCE 1030. AP Computer Science AB score of 4 or 5 earns credit for CSCE 1030 & 1040. IB Computer Science earns credit for CSCE 1030 & 1040.

Note 4: EENG 2610 or ENGR 2405 & ENGR 2415 lab requires completion of MATH 1720 and either completion of or co-enrollment in PHYS 2220 & 2240 as prerequisite.

Note 5: Must complete prerequisite(s) for each CSCE Specialty Area Elective course.

Note 6: Advanced level general elective may be needed to reach 42 total advanced hours. Please check with an advisor.

Must earn at least a grade of “C” in each course above except for most University Core courses. Must earn at least a 2.5 GPA in Engineering Foundations courses & at least a 2.75 in advanced CSCE courses.

This is an unofficial sample schedule. Requirements, prerequisites, etc. may change. Students should meet with an advisor each semester for individual scheduling, program decisions, etc. Engineering admissions requirements must be met & a degree audit must be created in order to progress in the program to a timely graduation.
COMPUTER SCIENCE
Bachelor of Science (B.S.) degree with a major in Computer Engineering offered through the Department of Computer Science & Engineering
Discovery Park F-201; (940) 565-2767
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Faculty Advisor: Dr. Ryan Garlick & Mr. David Keathly

Major Requirements: Computer Science
Grades of C or better. Needs a 2.75 GPA in CSCE courses.

Technical Communication
1 course chosen from:
- TECM 4100, Writing Grants & Proposals (3 Hours)
- TECM 4180, Advanced Technical Writing (3 Hours)
- TECM 4190, Technical Editing (3 Hours)
- TECM 4200, Research Methods (3 Hours)
- TECM 4250, Writing Procedures & Manuals (3 Hours)
- TECM 4700, Writing in the Sciences (3 Hours)

Mathematics & Sciences
- PHYS 2220, Electricity & Magnetism (3 Hours) & PHYS 2240 Electricity & Magnetism Lab (1 Hour)
- Lab science (4 Hours) approved by an advisor
- MATH 1720, Calculus II (3 Hours)
- MATH 1780, Probability Models (3 Hours)
- MATH 2700, Linear Algebra & Vector Geometry (3 Hours)

Electrical Engineering
- EENG 2710, Digital Logic Design (3 Hours)

Computer Science and Engineering
- CSCE 1030, Computer Science I (4 Hours)
- CSCE 1040, Computer Science II (3 Hours)
- CSCE 2100, Computing Foundations I (3 Hours)
- CSCE 2110, Computing Foundations II (3 Hours)
- CSCE 2610, Assembly Lang. & Computer Organization (3 Hours)
- CSCE 3110, Data Structures (3 Hours)
- CSCE 3600, Principles of Systems Programming (3 Hours)
- CSCE 4010, Social Issues in Computing (3 Hours)
- CSCE 4110, Algorithms (3 Hours)
- CSCE 4444, Software Engineering (3 Hours)
- CSCE 4901, Computer Science Capstone (3 Hours) or CSCE 4999, Senior Thesis (3 Hours)

2 CSCE Core/Depth Elective Courses (6 Hours) chosen from:
- CSCE 4115, Formal Lang., Automata & Computability (3 Hours)
- CSCE 4430, Programming Languages (3 Hours)
- CSCE 4660, Introduction to Operating Systems (3 Hours)
- CSCE 4610, Computer Architecture (3 Hours)
- CSCE 4650, Introduction to Compilation Techniques (3 Hours)

2 CSCE Breadth Elective Courses (6 Hours) chosen from:
- CSCE 3530, Introduction to Computer Networks (3 Hours)
- CSCE 4210, Game Programming I (3 Hours)
- CSCE 4230, Introduction to Computer Graphics (3 Hours)
- CSCE 4310, Introduction to Artificial Intelligence (3 Hours)
- CSCE 4350, Intro. to Database Systems Design (3 Hours)

3 CSCE Elective Courses (9 Hours) chosen from any 3*** &/or 4*** CSCE courses not already applied to other requirements listed above:
- CSCE 3*** or 4*** (3 Hours)
- CSCE 3*** or 4*** (3 Hours)
- CSCE 3*** or 4*** (3 Hours)

Maximum of 6 hours may be applied from CSCE 4890, 4920, 4940, or 4950. Consult your advisor.

University Core

Communication
- 3 Hours approved course
  Grade of “C” or better is required.

American History
- HIST 2610, U.S. History To 1865 (3 Hours)
- HIST 2620, U.S. History From 1865 (3 Hours)

Honors equivalents, HIST 4700, or advanced US-Topic History course(s) may substitute for the courses above.

Government/Political Science
- PSCI 1040, Government: Laws & Institutions (3 Hours)
- PSCI 1050, Government: Processes & Policies (3 Hours)

If you are transferring credit for either PSCI course, check with your advisor about the application of course(s) taken elsewhere.

Creative Arts
- 3 Hours approved course

Language, Philosophy, & Culture
- 3 Hours approved course

Social & Behavioral Science
- 3 Hours approved course

Discovery
- 3 Hours approved course

Capstone
- Fulfilled by CSCE 4010, Social Issues in Computing

Engineering Foundations
Grades of C or better. Needs a 2.5 GPA.

- MATH 1710, Calculus I (4 Hours)
- CHEM 1410, General Chemistry I (3 Hours) & CHEM 1430, General Chemistry I Lab (1 Hour) or CHEM 1415, Chemistry for Engineers (3 Hours) & CHEM 1435, Chemistry for Engineers Lab (1 Hour)
- PHYS 1710, Mechanics (3 Hours) & PHYS 1730, Mechanics Lab (1 Hour)
- TECM 2700, Technical Writing (3 Hours)

This is an unofficial simplified checklist effective Fall 2015. Degree requirements may change. You may need elective courses to help reach a minimum of 120 Total Hours & 42 Advanced Hours. Check with an advisor.
# COMPUTER SCIENCE
Sample Four-Year Schedule

## FRESHMAN YEAR

<table>
<thead>
<tr>
<th>FALL</th>
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<tbody>
<tr>
<td>MATH 1710, Calculus I (see note 1)</td>
<td>MATH 1720, Calculus II (MATH 1710)</td>
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<tr>
<td>CHEM 1410 or 1415, Chemistry (see note 4)</td>
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<td>CHEM 1430 or 1435, Chemistry Lab (see note 4)</td>
<td>CSCE 1040, Comp. Science II (CSCE 1030, MATH 1710)</td>
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<tr>
<td>CSCE 1030, Computer Science I (see note 3)</td>
<td>TECM 2700, Tech. Writing (Communication Core)</td>
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## SOPHOMORE YEAR

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<tbody>
<tr>
<td>MATH 2700, Linear Algebra (MATH 1720)</td>
<td>MATH 1780, Probability Models (MATH 1710)</td>
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<td>PHYS 1710, Mechanics (MATH 1710)</td>
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<td>PHYS 1730, Mechanics Lab (MATH 1710)</td>
<td>PHYS 2240, E. &amp; M. (MATH 1720, PHYS 1710, 1730)</td>
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<tr>
<td>CSCE 2100, Computing Foundations I (CSCE 1040)</td>
<td>CSCE 2110, Computing Foundations II (CSCE 2100)</td>
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<td>EENG 2710, Digital Logic Design</td>
<td>CSCE 2610, Assembly &amp; Org. (CSCE 2100, EENG 2710)</td>
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## JUNIOR YEAR

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<tr>
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<tbody>
<tr>
<td>CSCE 3110, Data Structures (CSCE 2110)</td>
<td>CSCE 4010, Social Issues (junior classification)</td>
</tr>
<tr>
<td>CSCE 3600, Systems Programming (CSCE 2100)</td>
<td>CSCE Elective course (see note 5)</td>
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<td>CSCE Elective course (see note 5)</td>
<td>CSCE Elective course (see note 5)</td>
</tr>
<tr>
<td>TECM course (TECM 2700)</td>
<td>CSCE Elective course (see note 5)</td>
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<td>Lab science course (See note 2)</td>
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## SENIOR YEAR

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<tbody>
<tr>
<td>CSCE 4110, Analysis of Algorithms (CSCE 3110)</td>
<td>CSCE 4901, Capstone, or CSCE 4999, Thesis</td>
</tr>
<tr>
<td>CSCE 4444 (CSCE 2110)</td>
<td>CSCE Elective course (see note 5)</td>
</tr>
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<td>CSCE Elective course (see note 5)</td>
<td>CSCE Elective course (see note 5)</td>
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### Required prerequisite(s) indicated in parentheses.

Note 1: MATH 1710 requires one of the following as prerequisite: completion of MATH 1650 with a grade of “C” or higher; or completion of MATH 1610 with a grade of “C” or higher; or Freshman Math Group Level 3; or approval authorized by score via mathematics testing; or earned credit for a math course at or above the MATH 1710 level.

Note 2: AP Biology score of 4 or 5 earns credit for BIOL 1710, 1730, 1720 & 1740. CLEP Biology earns credit for BIOL 1710, 1730, 1720, 1740. AP Biology earns credit for BIOL 1710, 1730, 1720 & 1740. AP Chemistry score of 5 earns credit for CHEM 1410-1430, 1420-1440. CLEP Chemistry earns credit for CHEM 1410, CHEM 1420. IB Chemistry earns credit for CHEM 1410-1430, 1420-1440. Aforementioned credits fulfills lab science.

Note 3: CSCE 1030 requires completion of or co-enrollment in MATH 1710, Calculus I (or higher) as prerequisite. AP Computer Science A score of 4 or 5 earns credit for CSCE 1030. AP Computer Science AB score of 4 or 5 earns credit for CSCE 1030 & 1040. IB Computer Science earns credit for CSCE 1030 & 1040.

Note 4: CHEM 1410 & 1430 requires MATH 1100, College Algebra (or higher) as prerequisite. CHEM 1415 & 1435 requires MATH 1650, Pre-Calculus (or higher) as prerequisite.

Note 5: Must complete prerequisite(s) for each CSCE Elective course.

Must earn at least a grade of “C” in each course above except for most University Core courses. Must earn at least a 2.5 GPA in Engineering Foundations courses & at least a 2.75 in advanced CSCE courses.

This is an unofficial sample schedule. Requirements, prerequisites, etc. may change. Students should meet with an advisor each semester for individual scheduling, program decisions, etc. Engineering admissions requirements must be met & a degree audit must be created in order to progress in the program to a timely graduation.
CONSTRUCTION ENGINEERING TECHNOLOGY

Bachelor of Science in Engineering Technology (B.S.E.T) degree with a major in Construction Engineering Technology offered through the Department of Engineering Technology

Discovery Park F-115; (940) 565-2022
www.etec.unt.edu
Faculty Advisor: Dr. Michael Shenoda

University Core

COMMUNICATION
- 3 Hours approved course
Grade of “C” or better required.

AMERICAN HISTORY
- HIST 2610, U.S. History to 1865 (3 Hours)
- HIST 2620, U.S. History from 1865 (3 Hours)

Honors equivalents, HIST 4700, or advanced US-Topic History course(s) may substitute for the courses above.

GOVERNMENT/POLITICAL SCIENCE
- PSCI 1040, Government: Laws & Institutions (3 Hours)
- PSCI 1050, Government: Processes & Policies (3 Hours)

If you are transferring credit for either PSCI course, check with your advisor. Do not make an assumption about the application of course(s) taken elsewhere.

CREATIVE ARTS
- 3 Hours approved course

LANGUAGE, PHILOSOPHY, & CULTURE
- 3 Hours approved course

SOCIAL & BEHAVIORAL SCIENCE
- Fulfilled by ECON 1100, Microeconomics

DISCOVERY
- Fulfilled by ENGR 1030, Technological Systems

CAPSTONE
- Fulfilled by CNET 4790, Senior Design II

Major Requirements: Construction Engr. Tech.
Grades of C or better.

MATHEMATICS & SCIENCE
- PHYS 2220, Electricity & Magnetism (3 Hours) & PHYS 2240, Electricity & Magnetism Lab (1 hour)
- MATH 1720, Calculus II (3 Hours)

CONSTRUCTION ENGINEERING TECHNOLOGY
- CNET 1160, Construction Methods & Materials (3 Hours)
- CNET 2180, Construction Methods & Surveying (4 Hours)
- CNET 2300, Architectural Drawing (2 Hours)
- CNET 3150, Construction Contract Documents (2 Hours)
- CNET 3160, Construction Cost Estimating (3 Hours)
- CNET 3190, Construction Scheduling (3 Hours)
- CNET 3410, Occupational Safety & Liability (3 Hours)
- CNET 3430, Structural Analysis (3 Hours)
- CNET 3440, Steel Structures (3 Hours)
- CNET 3460, Soils & Foundations (3 Hours)
- CNET 3480, Structural Design w/ Concrete, Timber, etc. (3 Hours)
- CNET 4170, Construction Management (3 Hours)
- CNET 4180, Problems in Project Management (3 Hours)
- CNET 4620, Adv. Design in Cold-Formed Steel Structures (3 Hours)
- CNET 4780, Senior Design I (1 Hours)
- CNET 4790, Senior Design II (3 Hours)
- ENGR 1030, Technical Systems (3 Hours)
- ENGR 1060, Communications & Ethics (3 Hours)
- ENGR 2301, Statics (3 Hours)
- ENGR 2332, Mechanics of Materials (4 Hours)
- ACCT 2010, Accounting Principles I (3 Hours)
- BCIS 3610, Basic Information Systems (3 Hours)
- BLAW 3430, Legal & Ethical Environment of Business (3 Hours)
- BLAW 4770, Real Estate Law & Contracts (3 Hours)
- ECON 1100, Microeconomics (3 Hours)
- MGMT 3830, Operations Management (3 Hours)

TECHNICAL ELECTIVES
- Any level course chosen from appropriate elective options (3 Hours)
- Any level course chosen from appropriate elective options (2 Hours)

Electives must be chosen from the subjects of business, engineering, mathematics, and science. Check with an advisor for appropriate technical elective course options.

This is an unofficial simplified checklist effective Fall 2015. Degree requirements may change. You may need elective courses to help reach a minimum of 124 Total Hours & 42 Advanced Hours. Check with an advisor.
## CONSTRUCTION ENGINEERING TECHNOLOGY

Sample Four-Year Schedule

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>FALL</th>
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<tbody>
<tr>
<td>MATH 1710, Calculus I (see note 1)</td>
<td>MATH 1720, Calculus II (MATH 1710)</td>
</tr>
<tr>
<td>CHEM 1410 or 1415, Chemistry (see note 2)</td>
<td>PHYS 1710, Mechanics (MATH 1710)</td>
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<tr>
<td>CHEM 1430 or 1435, Chemistry Lab (see note 2)</td>
<td>PHYS 1730, Mechanics Lab (MATH 1710)</td>
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<tr>
<td>CNET 1160, Const. Methods &amp; Materials</td>
<td>CNET 2180, Const. Methods &amp; Surveying (CNET 1160)</td>
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<tr>
<td>ENGR 1030, Technological Systems</td>
<td>ENGR 1060, Comm. &amp; Ethics (English Composition)</td>
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<td>TECM 2700, Technical Writing (Communication Core)</td>
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### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>FALL</th>
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<tbody>
<tr>
<td>PHYS 2220, E. &amp; M. (MATH 1720, PHYS 1710, 1730)</td>
<td>ACCT 2010, Accounting Principles I (ECON 1100)</td>
</tr>
<tr>
<td>PHYS 2240, E. &amp; M. Lab (MATH 1720, PHYS 1710, 1730)</td>
<td>BCIS 3610, Basic Information Systems</td>
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<tr>
<td>CNET 2300, Arch. Drawing (CNET 1160)</td>
<td>ENGR 2332, Mechanics of Materials (ENGR 2301)</td>
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<tr>
<td>ENGR 2301, Statics (MATH 1710, PHYS 1710, 1730)</td>
<td>MGMT 3830, Operations Management</td>
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<tr>
<td>ECON 1100, Microeconomics</td>
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### JUNIOR YEAR

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<tbody>
<tr>
<td>CNET 3150, Const. Contract Doc. (CNET 2180)</td>
<td>CNET 3190, Const. Scheduling (CNET 3160)</td>
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<tr>
<td>CNET 3160, Const. Cost Estimating (CNET 1160, 2300)</td>
<td>CNET 3440, Steel Structures (CNET 3430)</td>
</tr>
<tr>
<td>CNET 3410, Occupational Safety &amp; Liability</td>
<td>CNET 3460, Soils &amp; Foundations (CNET 2180, ENGR 2332)</td>
</tr>
<tr>
<td>CNET 3430, Structural Analysis (ENGR 2332)</td>
<td>BLAW 3430, Legal &amp; Ethical Env. (PSCI 1040, PSCI 1050)</td>
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### SENIOR YEAR

<table>
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<tr>
<th>FALL</th>
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<tbody>
<tr>
<td>CNET 3480, Structural Design (CNET 2180, CNET 3430)</td>
<td>CNET 4180, Problems in Project Mgmt. (CNET 4170)</td>
</tr>
<tr>
<td>CNET 4170, Const. Management (CNET 3160)</td>
<td>CNET 4620, Adv. Design (CNET 3440)</td>
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<tr>
<td>CNET 4780, Senior Design I (see note 3)</td>
<td>CNET 4790, Senior Design II (CNET 4780)</td>
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<tr>
<td>BLAW 4770, Real Estate Law &amp; Contracts</td>
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<td>University Core course</td>
<td>Technical elective course (see note 4)</td>
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**Required prerequisite(s) indicated in parentheses.**

1. MATH 1710 requires one of the following as prerequisite: completion of MATH 1650 with a grade of “C” or higher; or completion of MATH 1610 with a grade of “C” or higher; or Freshman Math Group Level 3; or approval authorized by score via mathematics testing; or earned credit for a math course at or above the MATH 1710 level.

2. CHEM 1410 & 1430 requires MATH 1100, College Algebra (or higher) as prerequisite. CHEM 1415 & 1435 requires MATH 1650, Pre-Calculus (or higher) as prerequisite.

3. CNET 4780 requires senior classification & completion of CNET 3190, CNET 3440, and CNET 3460 as prerequisite.

4. Must complete 5 hours of technical elective credit. Completion of MATH 1650, Pre-Calculus as prerequisites for MATH 1710 will count toward technical elective hours. Please meet with an advisor to discuss electives.

**Must earn at least a grade of “C” in each course above except for most University Core courses.**

**Must earn at least a 2.5 GPA in Engineering Foundations courses.**

This is an unofficial sample schedule. Requirements, prerequisites, etc. may change. Students should meet with an advisor each semester for individual scheduling, program decisions, etc. Engineering admissions requirements must be met & a degree audit must be created in order to progress in the program to a timely graduation.
ELECTRICAL ENGINEERING

Bachelor of Science (B.S.) degree with a major in Electrical Engineering is offered through the Department of Electrical Engineering
Discovery Park B-252; (940) 891-6872
www.ee.unt.edu
Faculty Advisor: Dr. Gayatri Mehta

University Core

COMMUNICATION
- 3 Hours approved course
Grade of “C” or better is required.

AMERICAN HISTORY
- HIST 2610, U.S. History To 1865 (3 Hours)
- HIST 2620, U.S. History From 1865 (3 Hours)
Honors equivalents, HIST 4700, or advanced US-Topic History course(s) may substitute for the courses above.

GOVERNMENT/POLITICAL SCIENCE
- PSCI 1040, Government: Laws & Institutions (3 Hours)
- PSCI 1050, Government: Processes & Policies (3 Hours)
If you are transferring credit for either PSCI course, check with your advisor about the application of course(s) taken elsewhere.

CREATIVE ARTS
- 3 Hours approved course

LANGUAGE, PHILOSOPHY, & CULTURE
- 3 Hours approved course

SOCIAL & BEHAVIORAL SCIENCE
- 3 Hours approved course

DISCOVERY
- Fulfilled by EENG 1910, Learning to Learn

CAPSTONE
- Fulfilled by EENG 4990, Senior Design II

Major Requirements: Electrical Engineering
Grades of C or better

MATH 1710, Calculus I (4 Hours)
CHEM 1410, General Chemistry I (3 Hours) & CHEM 1430, General Chemistry I Lab (1 Hour)
or CHEM 1415, Chemistry for Engineers (3 Hours) & CHEM 1435, Chemistry for Engineers Lab (1 Hour)
PHYS 1710, Mechanics (3 Hours) & PHYS 1730, Mechanics Lab (1 Hour)
TECM 2700, Technical Writing (3 Hours)

ENGINEERING FOUNDATIONS
Grades of C or better, Needs 2.5 GPA.

- MATH 1710, Calculus I (4 Hours)
- CHEM 1410, General Chemistry I (3 Hours) & CHEM 1430, General Chemistry I Lab (1 Hour)
or CHEM 1415, Chemistry for Engineers (3 Hours) & CHEM 1435, Chemistry for Engineers Lab (1 Hour)
- PHYS 1710, Mechanics (3 Hours) & PHYS 1730, Mechanics Lab (1 Hour)
- TECM 2700, Technical Writing (3 Hours)

4 ELECTRICAL ENGINEERING ELECTIVES
- EENG 4**** (3 Hours)
- EENG 4**** (3 Hours)
- EENG 4**** (3 Hours)
- EENG 4**** (3 Hours)

Electives may be chosen any 4*** level EENG courses. Examples Include 4010, 4310, 4330, 4340, 4350, 4410, 4710, 4760, 4810, 4850, & 4900, EENG 4010 is a topics course & the content of 4010 varies for each section for each semester. EENG 4010 may be repeated for credit if you do not retake the exact same topic the 2nd time. EENG 4920 & 4951 cannot be taken as electives.

BUSINESS COURSES
- MGMT 3830, Operations Management (3 Hours)
- MGMT 3850, Entrepreneurship (3 Hours)
A minor in Business Foundations (General Business Track) will fulfill the credit for MGMT 3830 or MGMT 3850.

Please note that completion of the above UNT Math courses will earn a minor in Mathematics.

This is an unofficial simplified checklist effective Fall 2015. Degree requirements may change. You may need elective courses to help reach a minimum of 128 Total Hours & 42 Advanced Hours. Check with an advisor.
# FRESHMAN YEAR

<table>
<thead>
<tr>
<th>FALL</th>
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<tbody>
<tr>
<td>MATH 1710, Calculus I (see note 1)</td>
<td>MATH 1720, Calculus II (MATH 1710)</td>
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<tr>
<td>CHEM 1410 or 1415, Chemistry (see note 2)</td>
<td>PHYS 1710, Mechanics (MATH 1710)</td>
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<tr>
<td>CHEM 1430 or 1435, Chemistry Lab (see note 2)</td>
<td>PHYS 1730, Mechanics Lab (MATH 1710)</td>
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<td>EENG 1910, Project I (see note 3)</td>
<td>EENG 1920, Intro. to EE (EENG 1910, MATH 1710)</td>
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<td>Communication Core course</td>
<td>EENG 2710, Digital Logic</td>
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<td>CSCE 1030, Computer Science 1 (MATH 1650)</td>
<td>TECM 2700, Tech. Writing (Communication Core)</td>
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# SOPHOMORE YEAR

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<tbody>
<tr>
<td>MATH 2730, Multivariable Calculus (MATH 1720)</td>
<td>MATH 2700, Linear Algebra (MATH 1720)</td>
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<td>PHYS 2220, E. &amp; M. (MATH 1720, PHYS 1710, 1730)</td>
<td>MATH 3410, Differential Equations (MATH 1720)</td>
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<tr>
<td>PHYS 2240, E. &amp; M. Lab (MATH 1720, PHYS 1710, 1730)</td>
<td>EENG 2620, Signals &amp; Systems (EENG 2610, MATH 2730)</td>
</tr>
<tr>
<td>EENG 2610, Circ. (MATH 1720, coreq PHYS 2220, 2240)</td>
<td>EENG 2920, Analog Circ. Des. (EENG 1920, EENG 2610)</td>
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<tr>
<td>EENG 2910, Digital System (EENG 2710)</td>
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# JUNIOR YEAR

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<thead>
<tr>
<th>FALL</th>
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<tbody>
<tr>
<td>MATH 3680, Statistics (MATH 1710, coreq MATH 1720)</td>
<td>EENG 3520, Electronics II (EENG 3510)</td>
</tr>
<tr>
<td>EENG 3410, Electromagnetics (EENG 2610, MATH 3410)</td>
<td>EENG 3710, Computer Org. (EENG 2710, CSCE 1020)</td>
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<tr>
<td>EENG 3510, Electronics I (EENG 2610)</td>
<td>EENG 3810, Comm. Sys. (EENG 2620, 3510, MATH 3680)</td>
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<tr>
<td>EENG 3910, DSP System Design (EENG 2620)</td>
<td>EENG 3920, Modern Comm. Sys. (coreq EENG 3520)</td>
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# SENIOR YEAR

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<tbody>
<tr>
<td>EENG Elective (see note 4)</td>
<td>EENG Elective (see note 4)</td>
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<tr>
<td>EENG Elective (see note 4)</td>
<td>EENG Elective (see note 4)</td>
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<tr>
<td>EENG 4910, Senior Design I (EENG 3810, 3910, 3920)</td>
<td>EENG 4990, Senior Design II (EENG 4910)</td>
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<tr>
<td>MGMT 3830, Operations Management</td>
<td>MGMT 3850, Entrepreneurship</td>
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**Required prerequisite(s) indicated in parentheses.**

Note 1: MATH 1710 requires one of the following as prerequisite: completion of MATH 1650 with a grade of “C” or higher; or completion of MATH 1610 with a grade of “C” or higher; or Freshman Math Group Level 3; or approval authorized by score via mathematics testing; or earned credit for a math course at or above the MATH 1710 level.

Note 2: CHEM 1410 & 1430 requires MATH 1100, College Algebra (or higher) as prerequisite. CHEM 1415 & 1435 requires MATH 1650, Pre-Calculus (or higher) as prerequisite.

Note 3: EENG 1910 requires a major classification as prerequisite. Pre-Engineering students cannot enroll in this course until MATH 1650, Pre-Calculus is completed with a minimum grade of “C” and earn a minimum UNT GPA of 2.0.

Note 4: Must complete prerequisite(s) for each EENG Elective course.

Must earn at least a grade of “C” in each course above except for most University Core courses.

This is an unofficial sample schedule. Requirements, prerequisites, etc. may change. Students should meet with an advisor each semester for individual scheduling, program decisions, etc. Engineering admissions requirements must be met & a degree audit must be created in order to progress in the program to a timely graduation.
ELECTRICAL ENGINEERING TECHNOLOGY
Bachelor of Science in Engineering Technology (B.S.E.T.) degree with a major in Electrical Engineering Technology offered through the Department of Engineering Technology
Discovery Park F-115; (940) 565-2022
www.etec.unt.edu
Faculty Advisor: Dr. Robert Hayes

University Core

COMMUNICATION
- 3 Hours approved course
- Grade of “C” or better required.

AMERICAN HISTORY
- HIST 2610, U.S. History to 1865 (3 Hours)
- HIST 2620, U.S. History from 1865 (3 Hours)
Honors equivalents, HIST 4700, or advanced US-Topic History course(s) may substitute for the courses above.

GOVERNMENT/POLITICAL SCIENCE
- PSCI 1040, Government: Laws & Institutions (3 Hours)
- PSCI 1050, Government: Processes & Policies (3 Hours)
If you are transferring credit for either PSCI course, check with your advisor. Do not make an assumption about the application of course(s) taken elsewhere.

CREATIVE ARTS
- 3 Hours approved course

LANGUAGE, PHILOSOPHY, & CULTURE
- 3 Hours approved course

SOCIAL & BEHAVIORAL SCIENCE
- 3 Hours approved course

DISCOVERY
- Fulfilled by ENGR 1030, Technological Systems

CAPSTONE
- Fulfilled by ELET 4790, Senior Design II

Engineering Foundations
Grades of C or better. Needs 2.5 GPA.

- MATH 1710, Calculus I (4 Hours)
- CHEM 1410, General Chemistry I (3 Hours) & CHEM 1430, General Chemistry I Lab (1 Hour)
  or
  CHEM 1415, Chemistry for Engineers (3 Hours) & CHEM 1435, Chemistry for Engineers Lab (1 Hour)
- PHYS 1710, Mechanics (3 Hours) & PHYS 1730, Mechanics Lab (1 Hour)
- TECM 2700, Technical Writing (3 Hours)

Grades of C or better

MATHEMATICS & SCIENCE
- PHYS 2220, Electricity & Magnetism (3 Hours) & PHYS 2240, Electricity & Magnetism Lab (1 Hour)
- MATH 1720, Calculus II (3 Hours)

ELECTRICAL ENGINEERING TECHNOLOGY
- ENGR 1030, Technological Systems (3 Hours)
- ENGR 1060, Communication and Ethics (3 Hours)
- ENGR 2405, Circuit Analysis (3 Hours) & ENGR 2415, Circuit Analysis Lab (1 Hour)
- ENGR 2720, Logic Design (3 Hours) & ENGR 2730, Logic Design Lab (1 Hour)
- ENGR 2750, Introduction to Microprocessors (4 Hours)
- ELET 1720, Introduction to Electronics (3 Hours)
- ELET 2740, Special Electronic Devices (4 Hours)
- ELET 3700, Advanced Circuit Analysis (4 Hours)
- ELET 3750, Embedded C-Programming (4 Hours)
- ELET 3760, Design of DSP Systems (4 Hours)
- ELET 3980, Digital Control of Industrial Processes (3 Hours)
- ELET 4300, Embedded System Organization (3 Hours)
- ELET 4320, Electronic Communications II (3 Hours)
- ELET 4330, Instrumentation System Design (3 Hours)
- ELET 4340, Digital Logic Design Techniques (3 Hours)
- ELET 4710 (4 Hours), Electronic Communications I (4 Hours)
- ELET 4720 (4 Hours), Control Systems (4 Hours)
- ELET 4780 (4 Hours), Senior Design I (1 Hour)
- ELET 4790, Senior Design II (3 Hours)

TECHNICAL ELECTIVES
- Advanced level (3*** or 4*** level) course chosen from appropriate elective options (3 Hours)
  ELET 3220 is recommended for all students for this elective.
- Any level course chosen from appropriate elective options (3 Hours)
- Any level course chosen from appropriate elective options (3 Hours)
- Any level course chosen from appropriate elective options (3 Hours)

Electives must be chosen from the subjects of business, engineering, mathematics, and science. Check with an advisor for appropriate technical elective course options.

This is an unofficial simplified checklist effective Fall 2015. Degree requirements may change. You may need elective courses to help reach a minimum of 120 Total Hours & 36 Advanced Hours. Check with an advisor.
# ELECTRICAL ENGINEERING TECHNOLOGY

## Sample Four-Year Schedule

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>FALL</th>
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<tbody>
<tr>
<td>MATH 1710, Calculus I (see note 1)</td>
<td>MATH 1720, Calculus II (MATH 1710)</td>
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<tr>
<td>CHEM 1410 or 1415, Chemistry (see note 2)</td>
<td>PHYS 1710, Mechanics (MATH 1710)</td>
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<td>CHEM 1430 or 1435, Chemistry Lab (see note 2)</td>
<td>PHYS 1730, Mechanics Lab (MATH 1710)</td>
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<td>ELET 1720, Intro. to Electronics (see note 3)</td>
<td>ELET 2740, Elect. Devices (ELET 1720, coreq MATH 1710)</td>
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<td>ENGR 1030, Technological Systems</td>
<td>ENGR 2720, Logic Design</td>
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<td>ENGR 2730, Logic Design Lab</td>
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### SOPHOMORE YEAR

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<tbody>
<tr>
<td>PHYS 2220, E. &amp; M. (MATH 1720, PHYS 1710, 1730)</td>
<td>ENGR 1060, Comm. &amp; Ethics (English Composition)</td>
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<tr>
<td>PHYS 2240, E. &amp; M. Lab (MATH 1720, PHYS 1710, 1730)</td>
<td>ELET 3980, Dig. Control (MATH 1650 or higher)</td>
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<tr>
<td>ENGR 2405, Circuits (MATH 1720, co/pre PHYS 2220)</td>
<td>TECM 2700, Technical Writing (Communication Core)</td>
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<td>ENGR 2415, Circuits Lab (see above)</td>
<td>University Core course</td>
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<tr>
<td>ENGR 2750, Intro to Microprocessors (ENGR 2720, 2730)</td>
<td>University Core course</td>
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### JUNIOR YEAR

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<tbody>
<tr>
<td>ELET 3700, Adv. Circuit Analysis (ENGR 2405, 2415)</td>
<td>ELET 3220, Intro. to Power Sys. Analysis (ENGR 2405)</td>
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<tr>
<td>ELET 3750, Embedded C-Prog. (ENGR 2750)</td>
<td>ELET 3760, Design of DSP Systems (ELET 3700, ELET 3750)</td>
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<tr>
<td>University Core course</td>
<td>ELET 4340, Digital Logic Design Tech. (ELET 3750)</td>
</tr>
<tr>
<td>University Core course</td>
<td>Technical Elective (see note 3)</td>
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<td>Technical Elective (see note 3)</td>
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### SENIOR YEAR

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<tbody>
<tr>
<td>ELET 4300, Embedded System Org. (ELET 4340)</td>
<td>ELET 4320, Electronic Comm II (ELET 4710)</td>
</tr>
<tr>
<td>ELET 4710, Electronic Comm I (ELET 3700)</td>
<td>ELET 4330, Instrumentation Sys. Design (ELET 3760)</td>
</tr>
<tr>
<td>ELET 4720, Control Systems (ELET 3700)</td>
<td>ELET 4790, Senior Design II (ELET 4780)</td>
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<tr>
<td>ELET 4780, Senior Design I (ELET 3760, Senior Standing)</td>
<td>Advance Technical Elective (see note 3)</td>
</tr>
<tr>
<td>Technical Elective (see note 3)</td>
<td>University Core course</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
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Required prerequisite(s) indicated in parentheses.

Note 1: MATH 1710 requires one of the following as prerequisite: completion of MATH 1650 with a grade of “C” or higher; or completion of MATH 1610 with a grade of “C” or higher; or Freshman Math Group Level 3; or approval authorized by score via mathematics testing; or earned credit for a math course at or above the MATH 1710 level.

Note 2: CHEM 1410 & 1430 requires MATH 1100, College Algebra (or higher) as prerequisite. CHEM 1415 & 1435 requires MATH 1650, Pre-Calculus (or higher) as prerequisite.

Note 3: ELET 1720 requires MATH 1100, College Algebra, or a higher MATH course as prerequisite.

Must earn at least a grade of “C” in each course above except for most University Core courses.

Must earn at least a 2.5 GPA in Engineering Foundations courses.

This is an unofficial sample schedule. Requirements, prerequisites, etc. may change. Students should meet with an advisor each semester for individual scheduling, program decisions, etc. Engineering admissions requirements must be met & a degree audit must be created in order to progress in the program to a timely graduation.
Bachelor of Arts (B.A.) degree with a major in Information Technology is offered through the Department of Computer Science & Engineering.

INFORMATION TECHNOLOGY

Discovery Park F-201; (940) 565-2767
www.cse.unt.edu

Faculty Advisor: Dr. Ryan Garlick & Mr. David Keathly

**COMMUNICATION**
- 3 Hours approved course
  Grade of “C” or better is required.

**AMERICAN HISTORY**
- HIST 2610, U.S. History To 1865 (3 Hours)
- HIST 2620, U.S. History From 1865 (3 Hours)

Honors equivalents, HIST 4700, or advanced US-Topic History course(s) may substitute for the courses above.

**GOVERNMENT/POLITICAL SCIENCE**
- PSCI 1040, Government: Laws & Institutions (3 Hours)
- PSCI 1050, Government: Processes & Policies (3 Hours)

If you are transferring credit for either PSCI course, check with your advisor about the application of course(s) taken elsewhere.

**CREATIVE ARTS**
- 3 Hours approved course

**LANGUAGE, PHILOSOPHY, & CULTURE**
- 3 Hours approved course

**SOCIAL & BEHAVIORAL SCIENCE**
- 3 Hours approved course

**DISCOVERY**
- 3 Hours approved course

**CAPSTONE**
- Fulfilled by CSCE 4010, Social Issues in Computing

---

**University Core**

**ENGINEERING FOUNDATIONS**
- Grades of C or better. Needs 2.5 GPA.

- MATH 1710, Calculus I (4 Hours)
- CHEM 1410, General Chemistry I (3 Hours) & CHEM 1430, General Chemistry I Lab (1 Hour)
  or
- CHEM 1415, Chemistry for Engineers (3 Hours) & CHEM 1435, Chemistry for Engineers Lab (1 Hour)
- PHYS 1710, Mechanics (3 Hours) & PHYS 1730, Mechanics Lab (1 Hour)
- TECM 2700, Technical Writing (3 Hours)

**Major Requirements: Information Tech.**

Grades of C or better. Needs 2.75 GPA in advanced CSCE

**MATHEMATICS**
- MATH 1680 or MATH 1780, Probability (3 Hours)

**COMPUTER SCIENCE and ENGINEERING**
- CSCE 1030, Computer Science I (4 Hours)
- CSCE 1040, Computer Science II (3 Hours)
- CSCE 2100, Computing Foundations I (3 Hours)
- CSCE 2110, Computing Foundations II (3 Hours)
- CSCE 3055, IT Project Management (3 Hours)
- CSCE 3220, Human Computer Interfaces (3 Hours)
- CSCE 3420, Internet Programming (3 Hours)
- CSCE 3530, Introduction to Computer Networks (3 Hours)
- CSCE 3600, Principles of Systems Programming (3 Hours)
- CSCE 4010, Social Issues in Computing (3 Hours)
- CSCE 4350, Introduction to Database Systems Design (3 Hours)
- CSCE 4444, Software Engineering (3 Hours)
- CSCE 4550, Introduction to Computer Security (3 Hours)
- CSCE 4905, Information Technology Capstone I (3 Hours)
- CSCE 4925, Information Technology Capstone II (3 Hours)

**CONCENTRATION AREA ELECTIVES**
- CSCE 3*** or 4*** Level Course (3 Hours)

**SUPPORTING AREA**
- Course approved by an advisor (3 Hours)

**COMMUNICATION**
- 3 Hours approved course
  Grade of “C” or better is required.

**AMERICAN HISTORY**
- HIST 2610, U.S. History To 1865 (3 Hours)
- HIST 2620, U.S. History From 1865 (3 Hours)

Honors equivalents, HIST 4700, or advanced US-Topic History course(s) may substitute for the courses above.

**GOVERNMENT/POLITICAL SCIENCE**
- PSCI 1040, Government: Laws & Institutions (3 Hours)
- PSCI 1050, Government: Processes & Policies (3 Hours)

If you are transferring credit for either PSCI course, check with your advisor about the application of course(s) taken elsewhere.

**CREATIVE ARTS**
- 3 Hours approved course

**LANGUAGE, PHILOSOPHY, & CULTURE**
- 3 Hours approved course

**SOCIAL & BEHAVIORAL SCIENCE**
- 3 Hours approved course

**DISCOVERY**
- 3 Hours approved course

**CAPSTONE**
- Fulfilled by CSCE 4010, Social Issues in Computing

---

This is an unofficial simplified checklist effective Fall 2015. Degree requirements may change. You may need elective courses to help reach a minimum of 121 Total Hours & 42 Advanced Hours. Check with an advisor.
# INFORMATION TECHNOLOGY

## Sample Four-Year Schedule

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>FALL</th>
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<tbody>
<tr>
<td>MATH 1710, Calculus I (see note 1)</td>
<td>MATH 1680 or MATH 1780, Probability (MATH 1710)</td>
</tr>
<tr>
<td>CHEM 1410 or 1415, Chemistry (see note 2)</td>
<td>PHYS 1710, Mechanics (MATH 1710)</td>
</tr>
<tr>
<td>CHEM 1430 or 1435, Chemistry Lab (see note 2)</td>
<td>PHYS 1730, Mechanics Lab (MATH 1710)</td>
</tr>
<tr>
<td>CSCE 1030, Computer Science I (see note 3)</td>
<td>CSCE 1040, Comp. Science II (CSCE 1030, MATH 1710)</td>
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<td>Communication Core course</td>
<td>TECM 2700, Technical Writing (Communication Core)</td>
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<tr>
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<tbody>
<tr>
<td>CSCE 2100, Computing Foundations I (CSCE 1040)</td>
<td>CSCE 2110, Computing Foundations II (CSCE 2100)</td>
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<td>Supporting Area course (see note 4)</td>
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### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>FALL</th>
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<tbody>
<tr>
<td>CSCE 3055, IT Project Management (CSCE 2100)</td>
<td>CSCE 4010, Engineering Ethics (junior classification)</td>
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<tr>
<td>CSCE 3220, Human Computer Interfaces (CSCE 2110)</td>
<td>CSCE Concentration Area Elective (see note 5)</td>
</tr>
<tr>
<td>CSCE 3420, Internet Programming (CSCE 2110)</td>
<td>CSCE Concentration Area Elective (see note 5)</td>
</tr>
<tr>
<td>CSCE 3530, Computer Networks (CSCE 3600)</td>
<td>CSCE 4350, Database Systems (CSCE 2110)</td>
</tr>
<tr>
<td>Supporting Area course (see note 4)</td>
<td>University Core course</td>
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<td>Total Hours</td>
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### JUNIOR YEAR

<table>
<thead>
<tr>
<th>FALL</th>
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<tbody>
<tr>
<td>CSCE 4444, Software Engineering (CSCE 2110)</td>
<td>CSCE 4925, Capstone II (CSCE 4905)</td>
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<tr>
<td>CSCE 4550, Computer Security (CSCE 3600)</td>
<td>CSCE Concentration Area Elective (see note 5)</td>
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<tr>
<td>CSCE 4905, Capstone I (CSCE 3055)</td>
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### SENIOR YEAR

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<tr>
<td>CSCE 4444, Software Engineering (CSCE 2110)</td>
<td>CSCE 4925, Capstone II (CSCE 4905)</td>
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<tr>
<td>CSCE 4550, Computer Security (CSCE 3600)</td>
<td>CSCE Concentration Area Elective (see note 5)</td>
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<tr>
<td>CSCE 4905, Capstone I (CSCE 3055)</td>
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</tbody>
</table>

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**Required prerequisite(s) indicated in parentheses.**

- **Note 1:** MATH 1710 requires one of the following as prerequisite: completion of MATH 1650 with a grade of “C” or higher; or completion of MATH 1610 with a grade of “C” or higher; or Freshman Math Group Level 3; or approval authorized by score via mathematics testing; or earned credit for a math course at or above the MATH 1710 level.
- **Note 2:** CHEM 1410 & 1430 requires MATH 1100, College Algebra (or higher) as prerequisite. CHEM 1415 & 1435 requires MATH 1650, Pre-Calculus (or higher) as prerequisite.
- **Note 3:** CSCE 1030 requires completion of or co-enrollment in MATH 1710, Calculus I (or higher) as prerequisite. AP Computer Science A score of 4 or 5 earns credit for CSCE 1030. AP Computer Science AB score of 4 or 5 earns credit for CSCE 1030 & 1040. IB Computer Science earns credit for CSCE 1030 & 1040.
- **Note 4:** Must enroll in Supporting Area courses approved by an advisor & complete prerequisite(s) for approved courses.
- **Note 5:** Must enroll in 3*** or 4*** level CSCE courses & complete prerequisite(s) for chosen courses.

Must earn at least a grade of “C” in each course above except for most University Core courses. Must earn at least a 2.5 GPA in Engineering Foundations courses & at least a 2.75 in advanced CSCE courses.

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This is an unofficial sample schedule. Requirements, prerequisites, etc. may change. Students should meet with an advisor each semester for individual scheduling, program decisions, etc. Engineering admissions requirements must be met & a degree audit must be created in order to progress in the program to a timely graduation.
MATERIALS SCIENCE & ENGINEERING
Bachelor of Science (B.S.) degree with a major in Materials Science & Engineering offered through the Department of Materials Science & Engineering
Discovery Park E-132; (940) 565-3260
www.mtse.unt.edu
Faculty Advisor: Dr. Marcus Young

University Core

COMMUNICATION
- 3 Hours approved course
- Grade of “C” or better is required.

AMERICAN HISTORY
- HIST 2610, U.S. History To 1865 (3 Hours)
- HIST 2620, U.S. History From 1865 (3 Hours)

Honors equivalents, HIST 4700, or advanced US-Topic History course[s] may substitute for the courses above.

GOVERNMENT/POLITICAL SCIENCE
- PSCI 1040, Government: Laws & Institutions (3 Hours)
- PSCI 1050, Government: Processes & Policies (3 Hours)

If you are transferring credit for either PSCI course, check with your advisor about the application of course[s] taken elsewhere.

CREATIVE ARTS
- 3 Hours approved course

LANGUAGE, PHILOSOPHY, & CULTURE
- 3 Hours approved course

SOCIAL & BEHAVIORAL SCIENCE
- 3 Hours approved course

DISCOVERY
- 3 Hours approved course, MTSE 1100 recommended

CAPSTONE
- Fulfilled by MTSE 4100, Senior Research Project II

This is an unofficial simplified checklist effective Fall 2015. Degree requirements may change. You may need elective courses to help reach a minimum of 120 Total Hours & 42 Advanced Hours. Check with an advisor.

Major Requirements: Materials Sci. & Engr.
Grades of C or better

MATH & SCIENCE
- CHEM 1420, General Chemistry II (3 Hours)
- PHYS 2220, Electricity & Magnetism (3 Hours) & PHYS 2240, Electricity & Magnetism Lab (1 Hour)
- PHYS 3010, Modern Physics (3 Hours)
- MATH 1720, Calculus II (3 Hours)
- MATH 2700, Linear Algebra & Vector Geometry (3 Hours)
- MATH 3410, Differential Equations (3 Hours)

MATHEMATICS & SCIENCE
- ENGR 2301, Statics (3 Hours)
- ENGR 2332, Mechanics of Materials (4 Hours)
- ENGR 3450, Engineering Materials (3 Hours)
- MTSE 3010, Bonding & Structure (3 Hours)
- MTSE 3020, Microstructure & Characterization (3 Hours)
- MTSE 3030, Thermodynamics & Phase Diagrams (3 Hours)
- MTSE 3040, Transport Phenomena (3 Hours)
- MTSE 3050, Mechanical Properties (3 Hours)
- MTSE 3060, Phase Transformations (3 Hours)
- MTSE 3070, Electrical, Optical, & Magnetic Properties (3 Hours)
- MTSE 3080, Materials Processing (3 Hours)
- MTSE 3090, Laboratory I (1 Hour)
- MTSE 3100, Laboratory II (1 Hour)
- MTSE 4010, Physical Metallurgy Principles (3 Hours)
- MTSE 4030, Ceramic Science & Engineering (3 Hours)
- MTSE 4050, Polymer Science & Engineering (3 Hours)
- MTSE 4060, Materials Selection & Performance (3 Hours)
- MTSE 4090, Senior Research Project I (2 Hours)
- MTSE 4100, Senior Research Project II (3 Hours)

Advanced Level MTSE Elective courses
- MTSE Elective course (3 Hours)
- MTSE Elective course (3 Hours)

ENGINEERING FOUNDATIONS
Grades of C or better. Needs 2.5 GPA.

- MATH 1710, Calculus I (4 Hours)
- CHEM 1410, General Chemistry I (3 Hours) & CHEM 1430, General Chemistry I Lab (1 Hour)
- PHYS 1710, Mechanics (3 Hours) & PHYS 1730, Mechanics Lab (1 Hour)
- TECM 2700, Technical Writing (3 Hours)
# MATERIALS SCIENCE & ENGINEERING
## Sample Four-Year Schedule

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>MATH 1710, Calculus I (see note 1)</td>
<td>MATH 1720, Calculus II (MATH 1710)</td>
</tr>
<tr>
<td>CHEM 1410, General Chemistry I (see note 2)</td>
<td>CHEM 1420, General Chemistry II (CHEM 1410, 1430)</td>
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<td>CHEM 1430, General Chemistry I Lab (see note 2)</td>
<td>PHYS 1710, Mechanics (MATH 1710)</td>
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<tr>
<td>Communication Core</td>
<td>PHYS 1730, Mechanics Lab (MATH 1710)</td>
</tr>
<tr>
<td>MTSE 1100, Discover How &amp; Why Materials Matter</td>
<td>TECM 2700, Tech. Writing (Communication Core)</td>
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### SOPHOMORE YEAR

<table>
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<tr>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>MATH 2700, Linear Algebra (MATH 1720)</td>
<td>MATH 3410, Differential Equations (MATH 1720)</td>
</tr>
<tr>
<td>PHYS 2220, E. &amp; M. (MATH 1720, PHYS 1710, 1730)</td>
<td>PHYS 3010, Modern Physics (PHYS 2220, 2240)</td>
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<tr>
<td>PHYS 2240, E. &amp; M. Lab (MATH 1720, PHYS 1710, 1730)</td>
<td>ENGR 2332, Mechanics of Materials (ENGR 2301)</td>
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<tr>
<td>ENGR 2301, Statics (MATH 1710, PHYS 1710, 1730)</td>
<td>ENGR 3450, Engineering Materials (see note 3)</td>
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### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
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<tbody>
<tr>
<td>MTSE 3010, Bonding &amp; Structure (ENGR 3450)</td>
<td>MTSE 3050, Mechanical Properties (ENGR 3450)</td>
</tr>
<tr>
<td>MTSE 3020, Micro &amp; Characterization (ENGR 3450)</td>
<td>MTSE 3060, Phase Transform. (MTSE 3010, 3030, 3040)</td>
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<tr>
<td>MTSE 3030, Thermo &amp; Phase Diagrams (ENGR 3450)</td>
<td>MTSE 3070, Elect., Opt., &amp; Mag, Properties (ENGR 3450)</td>
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<tr>
<td>MTSE 3040, Transport Phen. (ENGR 3450, MATH 3410)</td>
<td>MTSE 3080, Materials Processing (MTSE 3040)</td>
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<tr>
<td>MTSE 3090, Laboratory I (ENGR 3450)</td>
<td>MTSE 3100, Laboratory II (MTSE 3090)</td>
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### SENIOR YEAR

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTSE 4010, Phys. Metallurgy Prin. (MTSE 3010, 3030, 3040)</td>
<td>MTSE Advanced Level MTSE Elective (see note 5)</td>
</tr>
<tr>
<td>MTSE 4030, Ceramic Sci. &amp; Engr. (MTSE 3010, 3020, 3040)</td>
<td>MTSE Advanced Level MTSE Elective (see note 5)</td>
</tr>
<tr>
<td>MTSE 4050, Polymer Sci. &amp; Engr. (ENGR 3450)</td>
<td>MTSE 4060, Selection &amp; Perform. (MTSE 3030, 3040, 3050)</td>
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<td>MTSE 4090, Senior Research Project I (see note 4)</td>
<td>MTSE 4100, Senior Research Project II (MTSE 4090)</td>
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<td>Total Hours</td>
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**Required prerequisite(s) indicated in parentheses.**

Note 1: MATH 1710 requires one of the following as prerequisite: completion of MATH 1650 with a grade of “C” or higher; or completion of MATH 1610 with a grade of “C” or higher; or Freshman Math Group Level 3; or approval authorized by score via mathematics testing; or earned credit for a math course at or above the MATH 1710 level.

Note 2: CHEM 1410 & 1430 requires MATH 1100, College Algebra, or placement into a higher level math course as prerequisite.

Note 3: ENGR 3450 requires completion of MATH 1710, CHEM 1410, 1430, PHYS 1710, 1730 as prerequisite.

Note 4: MTSE 4090 requires completion of MTSE 3010, 3020, 3030, 3040, 3050, 3070, 3080 as prerequisite.

Note 5: Must complete prerequisite(s) for each Advanced Elective MTSE course. See your advisor for approved course options.

Must earn at least a grade of “C” in each course above except for most University Core courses.

Must earn at least a 2.5 GPA in Engineering Foundations courses.

---

This is an unofficial sample schedule. Requirements, prerequisites, etc. may change. Students should meet with an advisor each semester for individual scheduling, program decisions, etc. Engineering admissions requirements must be met & a degree audit must be created in order to progress in the program to a timely graduation.
MECHANICAL & ENERGY ENGINEERING

Bachelor of Science (B.S.) degree with a major in Mechanical & Energy Engineering offered through the Department of Mechanical & Energy Engineering

Discovery Park F-101; (940) 565-2400
www.mee.unt.edu
Faculty Advisors: Dr. Xiaohua Li & Dr. Cherish Qualis

COMMUNICATION
- 3 Hours approved course

Grade of “C” or better is required.

AMERICAN HISTORY
- HIST 2610, U.S. History To 1865 (3 Hours)
- HIST 2620, U.S. History From 1865 (3 Hours)

Honors equivalents, HIST 4700, or advanced US-Topic History course(s) may substitute for the courses above.

GOVERNMENT/POLITICAL SCIENCE
- PSCI 1040, Government: Laws & Institutions (3 Hours)
- PSCI 1050, Government: Processes & Policies (3 Hours)

If you are transferring credit for either PSCI course, check with your advisor about the application of course(s) taken elsewhere.

CREATIVE ARTS
- 3 Hours approved course

LANGUANGE, PHILOSOPHY, & CULTURE
- 3 Hours approved course

SOCIAL & BEHAVIORAL SCIENCE
- 3 Hours approved course

DISCOVERY
- Fulfilled by MEEN 1000, Discover Mechanical & Energy

CAPSTONE
- Fulfilled by MEEN 4250, Capstone Design

Engineering Foundations
Grades of C or better. Needs 2.5 GPA.

- MATH 1710, Calculus I (4 Hours)
- CHEM 1410, General Chemistry I (3 Hours) & CHEM 1430, General Chemistry I Lab (1 Hour)
  or
- CHEM 1415, Chemistry for Engineers (3 Hours) & CHEM 1435, Chemistry for Engineers Lab (1 Hour)
- PHYS 1710, Mechanics (3 Hours) & PHYS 1730, Mechanics Lab (1 Hour)
- TECM 2700, Technical Writing (3 Hours)

Major Requirements: Mechanical & Energy Engr.
Grades of C or better

MATHMATICS & SCIENCE
- PHYS 2220, Electricity & Magnetism (3 Hours) & PHYS 2240, Electricity & Magnetism Lab (1 Hour)
- MATH 1720, Calculus II (3 Hours)
- MATH 2700, Linear Algebra & Vector Geometry (3 Hours)
- MATH 2730, Multivariable Calculus (3 Hours)
- MATH 3410, Differential Equations (3 Hours)

MECHANICAL & ENERGY ENGINEERING
- MEEN 1000, Discover Mechanical & Energy (3 Hours)
- MEEN 2110, Engineering Data Analysis (3 Hours)
- MEEN 2210, Thermodynamics I (3 Hours)
- MEEN 2240, Programming for Mechanical Engr. (3 Hours)
- MEEN 2301, Mechanics I (3 Hours)
- MEEN 2302, Mechanics II (3 Hours)
- MEEN 2332, Mechanics III (3 Hours)
- MEEN 3100, Manufacturing Processes (3 Hours)
- MEEN 3110, Thermodynamics II (3 Hours)
- MEEN 3120, Fluid Mechanics (3 Hours)
- MEEN 3130, Machine Elements (3 Hours)
- MEEN 3210, Heat Transfer (3 Hours)
- MEEN 3230, System Dynamics & Controls (3 Hours)
- MEEN 3240, Laboratory I (2 Hours)
- MEEN 3242, Laboratory II (1 Hour)
- MEEN 3250, Analytical Methods (3 Hours)
- MEEN 4150, Design I (3 Hours)
- MEEN 4250, Capstone Design (3 Hours)
- ENGR 1304, Engineering Graphics (3 Hours)
- ENGR 2405, Circuit Analysis (3 Hours)
  or
- EENG 2610, Circuit Analysis (3 Hours)
- ENGR 3450, Engineering Materials (3 Hours) & ENGR 3451, Engineering Materials Lab (1 Hour)

MECHANICAL & ENERGY ELECTIVES
- MEEN Energy Elective course (3 hours)
- MEEN Energy Elective course (3 Hours)

  Mechanical & Energy Elective course options:
  MEEN 3125, 4110, 4112, 4300, 4310, 4315, 4320, 4330, 4332, 4335, 4340, 4350, 4410, or 4810

TECHNICAL ELECTIVES
- MEEN Technical Elective course (3 Hours)
- MEEN Technical Elective course (3 Hours)

  Technical Elective course options:
  MEEN 4120, 4130, 4140, 4151, 4152, 4160, 4415, 4488, 4510, 4800, 4930, or MFET 4190

Detailed information about energy & technical elective course options is located at www.mee.unt.edu

This is an unofficial simplified checklist effective Fall 2015. Degree requirements may change. You may need elective courses to help reach a minimum of 127 Total Hours & 42 Advanced Hours. Check with an advisor.
# MECHANICAL & ENERGY ENGINEERING

## Sample Four-Year Schedule

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>FALL</th>
<th>SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1710, Calculus I (see note 1)</td>
<td>MATH 1720, Calculus II (MATH 1710)</td>
</tr>
<tr>
<td>CHEM 1410 or 1415, Chemistry (see note 2)</td>
<td>PHYS 1710, Mechanics (MATH 1710)</td>
</tr>
<tr>
<td>CHEM 1430 or 1435, Chemistry Lab (see note 2)</td>
<td>PHYS 1730, Mechanics Lab (MATH 1710)</td>
</tr>
<tr>
<td>MEEN 1000, Discover Mech. &amp; Energy (see note 3)</td>
<td>ENGR 1304, Engineering Graphics</td>
</tr>
<tr>
<td>Communication Core course</td>
<td>TECM 2700, Tech Writing (Communication Core)</td>
</tr>
<tr>
<td>University Core course</td>
<td>University Core course</td>
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<tr>
<td>Total Hours</td>
<td>Total Hours</td>
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<tr>
<td>17</td>
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### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>FALL</th>
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</thead>
<tbody>
<tr>
<td>MATH 2730, Multivariable Calculus (MATH 1720)</td>
<td>MATH 3410, Differential Equations (MATH 1720)</td>
</tr>
<tr>
<td>PHYS 2220, E.&amp; M. (MATH 1720, PHYS 1710, 1730)</td>
<td>MEEN 2210, Thermodynamics I (MATH 1720, PHYS 1710)</td>
</tr>
<tr>
<td>PHYS 2240, E. &amp; M. Lab (MATH 1720, PHYS 1710, 1730)</td>
<td>MEEN 2302, Mech II (MEEN 2301, MATH 1720)</td>
</tr>
<tr>
<td>MEEN 2301, Mech I (MATH 1710, PHYS 1710, 1730)</td>
<td>MEEN 2332, Mech III (MEEN 2301)</td>
</tr>
<tr>
<td>MEEN 2110, Engr. Data Analysis (MATH 1710)</td>
<td>EENG 2610 or ENGR 2405, Circuit Analysis (see note 4)</td>
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<tr>
<td>MATH 2700, Linear Algebra (MATH 1720)</td>
<td>MEEN 2240, Program. for Mech. Engr. (MATH 2700)</td>
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### JUNIOR YEAR

<table>
<thead>
<tr>
<th>FALL</th>
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<tbody>
<tr>
<td>MEEN 3110, Thermodynamics II (MEEN 2210)</td>
<td>University Core course</td>
</tr>
<tr>
<td>MEEN 3120, Fluids (MATH 2730, MATH 3410)</td>
<td>MEEN 3130, Machine Elements (MEEN 1000, MEEN 2332)</td>
</tr>
<tr>
<td>MEEN 3240, Laboratory I (MEEN 2210, MATH 3410)</td>
<td>MEEN 3210, Heat Transfer (MEEN 3120)</td>
</tr>
<tr>
<td>MEEN 3250, Analy. (ENGR 1304, MEEN 2240, MATH 3410)</td>
<td>MEEN 3230, Dyna. &amp; Controls (MEEN 2302, MATH 3410)</td>
</tr>
<tr>
<td>ENGR 3450, Materials (CHEM 1415, 1435, PHYS 1710)</td>
<td>MEEN 3242, Laboratory II (MEEN 3240)</td>
</tr>
<tr>
<td>ENGR 3451, Materials Lab (CHEM 1415, 1435, PHYS 1710)</td>
<td>University Core course</td>
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<tr>
<td>Total Hours</td>
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<tr>
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### SENIOR YEAR

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>MEEN 3100, Manufacturing (MEEN 2332, 3450, 3451)</td>
<td>MEEN 4250, Capstone Design (MEEN 4150)</td>
</tr>
<tr>
<td>MEEN 4150, Design I (see note 5)</td>
<td>MEEN Advanced Level Energy Elective (see note 6)</td>
</tr>
<tr>
<td>MEEN Advanced Level Energy Elective (see note 6)</td>
<td>MEEN Advanced Level Technical Elective (see note 6)</td>
</tr>
<tr>
<td>MEEN Advanced Level Technical Elective (see note 6)</td>
<td>University Core course</td>
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<tr>
<td>University Core course</td>
<td>University Core course</td>
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<tr>
<td>15</td>
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**Required prerequisite(s) indicated in parentheses.**

Note 1: MATH 1710 requires one of the following as prerequisite: completion of MATH 1650 with a grade of “C” or higher; or completion of MATH 1610 with a grade of “C” or higher; or Freshman Math Group Level 3; or approval authorized by score via mathematics testing; or earned credit for a math course at or above the MATH 1710 level.

Note 2: CHEM 1410 & 1430 requires MATH 1100, College Algebra, or placement into a higher level math course as prerequisite. CHEM 1415 & 1435 requires MATH 1650, Pre-Calculus, or placement into a higher level math course as prerequisite.

Note 3: MEEN 1000 requires MATH 1650, Pre-Calculus, or placement into a higher level math course as prerequisite.

Note 4: EENG 2610 or ENGR 2405 require MATH 1720 as prerequisite and PHYS 2220, 2240 as prerequisite or corequisite.

Note 5: MEEN 4150 requires EENG 2610 or ENGR 2405, MEEN 3130, MEEN 3210, & MEEN 3230 as prerequisite.

Note 6: Must complete prerequisite(s) for each Advanced Level Energy & Advanced Level Technical Elective course. Please check with an advisor.

Must earn at least a grade of “C” in each course above except for most University Core courses. Must earn at least a 2.5 GPA in Engineering Foundations courses.

This is an unofficial sample schedule. Requirements, prerequisites, etc. may change. Students should meet with an advisor each semester for individual scheduling, program decisions, etc. Engineering admissions requirements must be met & a degree audit must be created in order to progress in the program to a timely graduation.
COMMUNICATION
- 3 Hours approved course
- Grade of “C” or better required.

AMERICAN HISTORY
- HIST 2610, U.S. History to 1865 (3 Hours)
- HIST 2620, U.S. History from 1865 (3 Hours)

Honors equivalents, HIST 4700, or advanced US-Topic History course(s) may substitute for the courses above.

GOVERNMENT/POLITICAL SCIENCE
- PSCI 1040, Government: Laws & Institutions (3 Hours)
- PSCI 1050, Government: Processes & Policies (3 Hours)

If you are transferring credit for either PSCI course, check with your advisor. Do not make an assumption about the application of course(s) taken elsewhere.

CREATIVE ARTS
- 3 Hours approved course

LANGUAGE, PHILOSOPHY, & CULTURE
- 3 Hours approved course

SOCIAL & BEHAVIORAL SCIENCE
- 3 Hours approved course

DISCOVERY
- Fulfilled by ENGR 1030, Technological Systems

CAPSTONE
- Fulfilled by MEET 4790, Senior Design II

Engineering Foundations
- Grades of C or better. Needs 2.5 GPA.

MATH 1710, Calculus I (4 Hours)
- CHEM 1410, General Chemistry I (3 Hours) & CHEM 1430, General Chemistry I Lab (1 Hour)
  or CHEM 1415, Chemistry for Engineers (3 Hours) & CHEM 1435, Chemistry for Engineers Lab (1 Hour)
- PHYS 1710, Mechanics (3 Hours) & PHYS 1730, Mechanics Lab (1 Hour)
- TECM 2700, Technical Writing (3 Hours)

This is an unofficial simplified checklist effective Fall 2015. Degree requirements may change. You may need elective courses to help reach a minimum of 124 Total Hours & 42 Advanced Hours. Check with an advisor.
# MECHANICAL ENGINEERING TECHNOLOGY

## Sample Four-Year Schedule

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>FALL</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MATH 1710, Calculus I (see note 1)</td>
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<tr>
<td>CHEM 1410 or 1415, Chemistry (see note 2)</td>
<td>3</td>
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<tr>
<td>CHEM 1430 or 1435, Chemistry Lab (see note 2)</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 1030, Technological Systems</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 1304, Engineering Graphics</td>
<td>3</td>
</tr>
<tr>
<td>Communication Core course</td>
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<td>Total Hours</td>
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<td>MATH 1720, Calculus II (MATH 1710)</td>
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<tr>
<td>PHYS 1710, Mechanics (MATH 1710)</td>
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<tr>
<td>PHYS 1730, Mechanics Lab (MATH 1710)</td>
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<tr>
<td>ENGR 1060, Comm. &amp; Ethics (English Composition)</td>
<td>3</td>
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<tr>
<td>TECM 2700, Tech. Writing (Communication Core)</td>
<td>3</td>
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<tr>
<td>University Core course</td>
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<td>Total Hours</td>
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### SOPHOMORE YEAR

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<tr>
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<tbody>
<tr>
<td>PHYS 2220, E. &amp; M. (MATH 1720, PHYS 2220, 2240)</td>
<td>3</td>
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<tr>
<td>PHYS 2240, E. &amp; M. Lab (MATH 1720, PHYS 2220, 2240)</td>
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<tr>
<td>ENGR 2301, Statics (MATH 1710, PHYS 1710, 1730)</td>
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<td>CSCE 1030, Computer Science I (MATH 1650)</td>
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<tr>
<td>University Core course</td>
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<tr>
<td>University Core course</td>
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<td>Total Hours</td>
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<tbody>
<tr>
<td>ENGR 2302, Dynamics (ENGR 2301)</td>
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</tr>
<tr>
<td>ENGR 2332, Mechanics of Materials (ENGR 2301)</td>
<td>4</td>
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<tr>
<td>ENGR 2405, Circuit (MATH 1720, PHYS 2220, 2240)</td>
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<tr>
<td>ENGR 2415, Circuit Lab (MATH 1720, PHYS 2220, 2240)</td>
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<tr>
<td>University Core course</td>
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<tr>
<td>University Core course</td>
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<td>Total Hours</td>
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### JUNIOR YEAR

<table>
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<tr>
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<tbody>
<tr>
<td>ENGR 3450, Materials (PHYS 1710, CHEM Reqt.)</td>
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<tr>
<td>ENGR 3451, Materials Lab (PHYS 1710, CHEM Reqt.)</td>
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<tr>
<td>MEET 3940, Fluid Mechanics (ENGR 2302, MATH 1720)</td>
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<tr>
<td>MEET 3990, Thermo. (ENGR 2332, CHEM Reqt.)</td>
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<tr>
<td>MFET 3110, Mach. Principles &amp; Processes</td>
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<td>Total Hours</td>
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<tr>
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<tbody>
<tr>
<td>ELET 3980, Digital Controls (MATH 1650 or higher)</td>
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<tr>
<td>MEET 3650, Design of Mech. Components (ENGR 2332)</td>
<td>3</td>
</tr>
<tr>
<td>MFET 4190, Quality Assurance (MATH 1720)</td>
<td>3</td>
</tr>
<tr>
<td>MFET 4210, CAD/CAM System Operations (see note 3)</td>
<td>3</td>
</tr>
<tr>
<td>Technical Elective</td>
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<tr>
<td>Total Hours</td>
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### SENIOR YEAR

<table>
<thead>
<tr>
<th>FALL</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MEET 4050, Mechanical Design (MEET 3650)</td>
<td>3</td>
</tr>
<tr>
<td>MEET 4350, Heat Transfer Appl (MEET 3940, 3990)</td>
<td>3</td>
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<tr>
<td>MEET 4780, Senior Design I (see note 4)</td>
<td>1</td>
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<tr>
<td>MFET 4200, Engineering Costs Analysis (MATH 1720)</td>
<td>2</td>
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<tr>
<td>Advanced Technical Elective</td>
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</tr>
<tr>
<td>University Core course</td>
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<tr>
<td>Total Hours</td>
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<table>
<thead>
<tr>
<th>SPRING</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MEET 4790, Senior Design II (MEET 4780)</td>
<td>3</td>
</tr>
<tr>
<td>MEET 4360, Exper. Thermal Sci. (MEET 3940, 3990, 4350)</td>
<td>2</td>
</tr>
<tr>
<td>Advanced Technical Elective</td>
<td>3</td>
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<tr>
<td>Advanced Technical Elective</td>
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<tr>
<td>University Core course</td>
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<td>Total Hours</td>
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Required prerequisite(s) indicated in parentheses.

Note 1: MATH 1710 requires one of the following as prerequisite: completion of MATH 1650 with a grade of “C” or higher; or completion of MATH 1610 with a grade of “C” or higher; or Freshman Math Group Level 3; or approval authorized by score via mathematics testing; or earned credit for a math course at or above the MATH 1710 level.

Note 2: CHEM 1410 or 1430 requires MATH 1100, College Algebra, or placement into a higher level math course as prerequisite.

CHEM 1415 or 1435 requires MATH 1650, Pre-Calculus, or placement into a higher level math course as prerequisite.

Note 3: MFET 4210 requires MFET 3110, ENGR 1304, & completion of all MATH, PHYS, & CHEM requirements as prerequisite.

Note 4: MEET 4780 requires completion of or concurrent enrollment in MEET 4050 and MEET 4350.

Must earn at least a grade of “C” in each course above except for most University Core courses.

Must earn at least a 2.5 GPA in Engineering Foundations courses.

This is an unofficial sample schedule. Requirements, prerequisites, etc. may change. Students should meet with an advisor each semester for individual scheduling, program decisions, etc. Engineering admissions requirements must be met & a degree audit must be created in order to progress in the program to a timely graduation.
### COMMUNICATION (3 Hours)
- **ENGL 1310**, College Writing I  
- **ENGL 1311**, Honors College Writing I  
- **ENGL 1315**, Writing about Literature I  
- **TECM 1312**, Intro. to Writing For International Students  
- **TECM 1700**, Intro. to Professional, Science, & Tech. Writing

AP English Language & Composition score of 4 or 5 fulfills this category

### AMERICAN HISTORY (6 Hours)
- **HIST 2610**, US to 1865 or  
- **HIST 2675**, Honors US History to 1865  
- **HIST 2620**, US from 1865 or  
- **HIST 2685**, Honors US History from 1865

AP U.S. History score of 3, 4 or 5  
CLEP History of United States I  
CLEP History of United Stated II fulfills this category

### GOVT./POLITICAL SCIENCE (6 Hours)
- **PSCI 1040**, American Government or  
- **PSCI 1041**, Honors Am. Government  
- **PSCI 1050**, American Government or  
- **PSCI 1051**, Honors Am. Government

AP U.S. Government & Politics score of 3, 4 or 5  
CLEP American Government fulfills PSCI 1050 or PSCI 1051

### CREATIVE ARTS (3 Hours)
- **ART 1300**, Art Appreciation  
- **ART 1301**, Honors Art Appreciation  
- **ART 2350**, Art History Survey II  
- **COMM 2060**, Performance of Literature

### DISCOVERY (3 Hours)
- **AGER 2250**, Aging in Film & Literature  
- **ANTH 1100**, World Cultures  
- **ANTH 1150**, World Cultures Through Film  
- **ANTH 2070**, Intro. to Race & Ethnic Studies  
- **ANTH 2200**, Gender Across Cultures  
- **BCIS 3615**, Visual Display of Business Info.  
- **BIOL 1000**, Discover Life Science  
- **BIOL 1750/1755**, Intro. Research Lab I & II  
- **BMEN 1300**, Discover Biomedical Engr.  
- **BUSI 1340**, Managing Business Enterprise  
- **CHEM 1400**, Discover Chemistry  
- **COMM 1010**, Intro. to Communication  
- **COMM 1440**, Honors Classical Argument  
- **COMM 2040**, Public Speaking  
- **COMM 2140**, Rhetoric & Argument  
- **COUN 2620**, Diversity & Cultural Awareness  
- **DANC 1100**, Stress Reduct. Thru Movement  
- **DANC 2033**, Parenting in Diverse Families  
- **DANC 3423**, Family, Schools, Communities  
- **EDNG 1910**, Learning to Learn  
- **ENGL 2500**, Literary Analysis & Interpretation  
- **ENGR 1030**, Technological Systems  
- **FREN 1610**, French Influence in North Am.  
- **FREN 1620**, French Language in Canada  
- **GEOG 1500**, Geography of DFW Metroplex  
- **HMGT 1450**, Principles of Nutrition  
- **HRNS 1100**, The Good Society  
- **HRNS 1500**, Intro. to Research  
- **INST 2100**, Intro. to International Studies  
- **ITAL 1610**, Italian Influece in the U.S.  
- **LANG 1610**, World Ling. Landscapes  
- **LING 2050**, Language of Now  
- **MATH 2000**, Discrete Mathematics  
- **MDSE 2750**, Consumers in a Global Market  
- **Mgmt 3350**, Communicating in Business  
- **MKTG 3010**, Professional Selling  
- **MTSE 1100**, Discover Materials  
- **PHED 1000**, Health Related Fitness  
- **PHIL 1800**, Philosophy of Self  
- **PHIL 2400**, Religion in American Society  
- **PHIL 2500**, Contemp. Environmental Issues  
- **PSCI 1010**, Politics and Pop Culture  
- **PSYC 1500**, Mythbusting  
- **RHAB 3000**, Microcounseling  
- **SOCI 2070**, Race & Ethnic Relations  
- **SOWK 4540**, Human Diversity  
- **TECM 1500**, New Media for College Career  
- **WMST 2100**, Women & Society

### LANGUAGE, PHIL. & CULTURE (3 Hours)
- **ENGL 2210**, World Literature I  
- **ENGL 2211**, Honors World Literature I  
- **ENGL 2220**, World Literature II  
- **ENGL 2221**, Honors World Literature  
- **FREN 3040**, Adv. Reading French Culture  
- **FREN 4060**, Studies in French Literature  
- **FREN 4310**, French Civilization & Culture  
- **GERM 3040**, Topics in German Culture  
- **GERM 3050**, Topics in German Literature  
- **GERM 4310**, Topics Adv. German Culture  
- **HIST 1050**, World History to 16th Century  
- **HIST 1060**, World History from 16th Century  
- **ITAL 3040**, Topics in Italian Culture  
- **ITAL 3050**, Italian Culture Thru Film  
- **ITAL 3070**, Intro. to Italian Literature  
- **JAPN 3020**, Advanced Japanese I  
- **JAPN 3030**, Advanced Japanese II  
- **MUET 3030**, Music Cultures of the World  
- **PHIL 1050**, Introduction to Philosophy  
- **PHIL 1400**, Contemporary Moral Issues  
- **PHIL 2050**, Introduction to Logic  
- **PHIL 2070**, Great Religions  
- **PHIL 2100**, Intro. to Judaism  
- **PHIL 2310**, Intro. to Ancient Philosophy  
- **PHIL 2400**, Religion in American Society  
- **PHIL 2600**, Ethics in Science

AP English Language & Composition score of 4 or 5 fulfills this category  
AP World History score of 3, 4 or 5  
IB History score of 4 or higher fulfills this category

### SOCIAL & BEHAVIORAL SCIENCE (3 Hours)
- **AGER 4560**, Minority Aging  
- **AGER 4800**, Social Context of Aging  
- **ANTH 1010**, Intro. to Anthropology  
- **ANTH 2300**, Culture and Society  
- **BEHV 2300**, Behavior Principles I  
- **CMJS 2100**, Crime and Justice in the U.S.  
- **DSTF 1013**, Human Development  
- **EAP 4050**, Special Pop. in Disasters  
- **ECON 1100**, Microeconomics  
- **ECON 1110**, Macroeconomics  
- **ECON 1200**, Global Societies  
- **HLTH 2200**, Family Life & Human Sexuality  
- **JOUR 1210**, Mass Comm. & Society  
- **MDSE 2750**, Consumers in Global Market  
- **MDSE 3370**, Fashion Theory & Trend Analysis  
- **MKTG 2650**, Princ. of Global Marketing  
- **PADM 2100**, Diversity in Urban Gover.  
- **PSYC 1630**, General Psychology I  
- **PSYC 1650**, General Psychology II  
- **RHAB 3100**, Disability & Society  
- **SOCI 1510**, Individuals in Society  
- **SOCI 2100**, Crime & Justice in the U.S.

AP Macroeconomics score of 3, 4 or 5  
AP Microeconomics score of 3, 4 or 5  
AP Psychology score of 4 or 5  
IB Economics score of 4 or higher  
IB Geography score of 4 or higher  
IB Psychology score of 4 or higher  
CLEP Macroeconomics  
CLEP Microeconomics  
CLEP Human Growth & Development  
CLEP Introductory Psychology  
CLEP Introductory Sociology 

### CAPSTONE (3 Hours)
Fulfilled by a required course in your major

*Completion of IB program, earned IB Diploma, & minimum score of 4 or completion of IB program without the earned diploma & minimum score of 5, 6 or 7.*
Mathematics & Engineering Foundations Information

**PREREQUISITE MATHEMATICS COURSES**
- MATH 1100, College Algebra, Minimum C grade
- MATH 1650, Pre-Calculus, Minimum C grade
- MATH 1710, Calculus I
  - or
- MATH 1100, College Algebra, Minimum C grade
- MATH 1600, Trigonometry, Minimum C grade
- MATH 1610, Functions, Graphs, Appls, Minimum C grade
- MATH 1710, Calculus I

**MATH DEPARTMENT PRE-PLACEMENT FOR NEW STUDENTS**
If you have not earned credit for math courses via AP, IB, CLEP, or transfer credit, you must begin math courses based on your Math Group Level assigned by the Math Department:
- Math Level 1 or No Math Level: MATH 1100
- Math Level 2: MATH 1600 or 1650
- Math Level 3: MATH 1710

**MATH PLACEMENT TESTING OPTIONS**
If you feel that you are capable of beginning your math courses at a higher level than your Math Group Level or qualification based on earned math credit, you can seek approval into a higher math course via 3 options:
- **Pearson MyMathTest** – free online test that can be taken by freshmen prior to orientation. Must score a minimum of 70 to enter MATH 1710. Must score a minimum 10 to enter MATH 1650.
- **Accuplacer** – free on campus test. The test is available Mondays through Fridays from 8:30 A.M. to 3:00 P.M. in the General Academic Building (GAB) 443. Must score a minimum of 101 to enter MATH 1710. Must score a minimum of 86 to enter MATH 1650.
- **ALEKS** – online test which requires a small fee & completion of a 6 week long tutorial. Must score a minimum of 70 to enter MATH 1710. Must score a minimum of 50 to enter MATH 1650.

Please see math.unt.edu or contact the Math Department at (940) 565-2155 or General Academic Building (GAB) 440 for more testing information.

**TEXAS SUCCESS INITIATIVE (TSI)**
TSI is a program legislated by the State of Texas to improve the success of students in college. Students must prove they are TSI complete in reading, writing, & mathematics via exemptions, SAT, ACT, or transfer credit. If a student is not TSI complete, testing must be completed prior to enrollment in UNT courses. Successful TSI mathematics testing will allow entry into MATH 1100. Meet with the Learning Center in Sage Hall for more information.

**CALCULUS (4 Hours)**
- MATH 1710, Calculus I (4 Hours)
  - AP Statistics score of 3, 4, 5: MATH 1680 (prereq for MATH 1100)
  - AP Calculus AB score of 3, 4, 5: MATH 1710
  - AP Calculus BC score of 3, 4, 5: MATH 1710, 1720
  - AP Calculus AB Subscore of BC Exam score 3, 4, or 5: MATH 1710
  - CLEP Mathematics: Elective
    - CLEP College Algebra: MATH 1100
    - CLEP Trigonometry: MATH 1600
    - CLEP Pre-calculus: MATH 1650
    - CLEP Calculus with Elementary Functions: MATH 1710
    - IB Mathematical Studies: Elective
    - IB Mathematics: MATH 1710
  - Transfer Remedial or Intermediate Algebra (prereq for MATH 1100 if TSI complete in Mathematics)
    - Transfer College Algebra: MATH 1100
  - Transfer Statistics: MATH 1680 (prerequisite for MATH 1100)
    - Transfer Trigonometry credit: MATH 1600
    - Transfer Business Calculus: MATH 1190 (prereq for MATH 1600 or 1650)

**CHEMISTRY (4 Hours)**
- CHEM 1410, General Chemistry I (3 Hours) &
  - CHEM 1430, General Chemistry Lab (1 Hour)
  - or
- CHEM 1415, Chemistry for Engineers (3 Hours)
- CHEM 1435, Chemistry for Engineering Lab (1 Hour)
  - AP Chemistry score of 4: CHEM 1410-1430
  - AP Chemistry score of 5: CHEM 1410-1430, 1420-1440
  - CLEP Chemistry: CHEM 1410, CHEM 1420
  - IB Chemistry: CHEM 1410-1430, 1420-1440

**PHYSICS (4 Hours)**
- PHYS 1710, Mechanics (3 Hours) &
  - PHYS 1730, Mechanics Lab (1 Hour)
  - AP Physics C (Mechanics) score 4 or 5: PHYS 1710-1730
  - AP Physics C (Electricity & Magnetism score of 4 or 5: PHYS 2220-2240

**TECHNICAL COMMUNICATION (3 Hours)**
- TECM 2700, Technical Writing (3 Hours)

Grades of C or better is required in each course.
Minor Information

**BUSINESS FOUNDATIONS GENERAL TRACK MINOR** (18 Hours)
ACCT 2010, Accounting Principles I (3 Hours)
ACCT 2020, Accounting Principles II (3 Hours)
FINA 3770, Finance (3 Hours)
MKTG 3650, Foundations of Marketing (3 Hours)
MGMT 3780, Organizational Behavior, (3 Hours)

**BUSINESS FOUNDATIONS MBA PREP TRACK MINOR** (18 Hours)
ACCT 2010, Accounting Principles I (3 Hours)
ACCT 2020, Accounting Principles II (3 Hours)
Plus 12 advanced hours (4 courses) chosen from:
BCIS 3610, Basic Information Systems (3 Hours)
BLAW 3430, Legal & Ethical Environment (3 Hours)
DSCI 3710, Business Statistics (3 Hours)
FINA 3770, Finance (3 Hours)
MGMT 3830, Operations Management (3 Hours)
MKTG 3650, Foundations of Marketing (3 Hours)

**CHEMISTRY MINOR** (20 Hours)
CHEM 1410, General Chemistry I (3 Hours)
CHEM 1430, General Chemistry I Lab (1 Hour)
CHEM 1420, General Chemistry II (3 Hours)
CHEM 1440, General Chemistry II Lab (1 Hour)
CHEM 2370, Organic Chemistry I (3 Hours)
CHEM 2380, Organic Chemistry II (3 Hours)
CHEM 3210, Organic Chemistry I Lab (1 Hour)
CHEM 3220, Organic Chemistry II Lab (1 Hour)
Plus 4 hours chosen from a list of options available in the UNT catalog located at catalog.unt.edu

**COMPUTER SCIENCE & ENGINEERING MINOR** (19 Hours)
CSCE 1030, Computer Science I (3 Hours)
CSCE 1040, Computer Science II (3 Hours)
CSCE 2100, Computing Foundations I (3 Hours)
CSCE 2110, Computing Foundations II (3 Hours)
CSCE 3*** or 4***, CSCE advanced level course (3 Hours)
CSCE 3*** or 4***, CSCE advanced level course (3 Hours)

**ELECTRICAL ENGINEERING MINOR** (18 Hours)
EENG 2610, Circuit Analysis (3 Hours)
EENG 2620, Signals & Systems (3 Hours)
EENG 2710, Digital Logic Design (3 Hours)
EENG 2910, Digital System Design (3 Hours)

**FOREIGN LANGUAGE MINORS** (18-21 Hours)
Minors are offered in Arabic, Chinese, French, German, Italian, Japanese, Latin, Russian, and Spanish. Some languages require 18 hours (6 hours) and some require 21 hours (7 courses). Specific course requirements are located in the UNT catalog located at catalog.unt.edu.

**GENERAL ENGINEERING TECHNOLOGY MINOR** (18 Hours)
6 courses (12 Hours) including 2 advanced level courses (6 Hours) chosen from the Department of Engineering Technology. Courses from this department are coded as CNET, ELET, ENGR, MEET, or MFET.

**MATHEMATICS MINOR** (19 Hours)
MATH 1710, Calculus I (4 Hours)
MATH 1720, Calculus II (3 Hours)
MATH 2730, Multivariable Calculus (3 Hours)
MATH 1780, Probability Models (3 Hours)

**MATERIALS SCIENCE & ENGINEERING MINOR** (18 Hours)
ENGR 3450, Engineering Materials (3 Hours)
6 advanced hours (2 courses chosen from
MTSE 3010, Bonding & Structure (3 Hours)
MTSE 3030, Thermodynamics & Phase Diagrams (3 Hours)
MTSE 3050, Mechanical Properties of Materials
MTSE 3070, Electrical, Optic, & Magnetic Properties (3 Hours)

**MINOR REQUIREMENTS**
Must complete appropriate prerequisites in order to enroll in courses. Please check with an advisor.

**STATISTICS MINOR** (19 Hours)
MATH 1710, Calculus I (4 Hours)
MATH 1720, Calculus II (3 Hours)
MATH 2730, Multivariable Calculus (3 Hours)
MATH 3680, Applied Statistics (3 Hours)
MATH 4610, Probability (3 Hours)
MATH 4650, Statistics (3 Hours)

**STATISTICS MINOR** (19 Hours)
MATH 1710, Calculus I (4 Hours)
MATH 1720, Calculus II (3 Hours)
MATH 2730, Multivariable Calculus (3 Hours)
MATH 3680, Applied Statistics (3 Hours)
MATH 4610, Probability (3 Hours)
MATH 4650, Statistics (3 Hours)

**MINOR REQUIREMENTS**
Must complete appropriate prerequisites in order to enroll in courses. Please check with an advisor.

Minors are not required in order to graduate with a degree from the College of Engineering at UNT.

UNT offers many more minors than those listed on this page. Information on all available minor options & requirements can be found in the UNT catalog located at catalog.unt.edu.
CRIMINALISTICS CERTIFICATE (18 Hours)
- CJUS 3110, Survey of Forensic Investigation (3 Hours)
- CJUS 3330, Intro. to Criminalistics (3 Hours)
- CJUS 4390, Crime Science Investigation Theory (3 Hours)
- CJUS 4370, Advanced Criminalistics I (3 Hours)
  or
- CJUS 4380, Advanced Criminalistics II (3 Hours)
Plus 6 hours (2 courses) chosen from
- BIOL 3331, Biomedical Criminalistics (3 Hours)
- CJUS 3340, Computer Crime (3 Hours)
- CJUS 4360, Criminal Investigation (3 Hours)
- CJUS 4370, Advanced Criminalistics I (3 Hours)
- CJUS 4380, Advanced Criminalistics II (3 Hours)
- CJUS 4860, Studies in Criminal Justice (3 Hours)

Must complete appropriate prerequisites.

ENERGY ASSESSMENT OF BUILDINGS CERTIFICATE (15 Hours)
- MEEN 3220, Mechanical Energy Engr. Projects (3 Hours)
- MEEN 4320, Mechanical Systems of Buildings (3 Hours)
- MEEN 4335, Computational Simulation of Building Energy Systems (3 Hours)
- MEEN 4340, Energy Efficiencies & Green Building Design for Commercial Buildings (3 Hours)
- MEEN 4350, Energy Efficiencies & Green Building Design for Residential Buildings (3 Hours)

Must complete appropriate prerequisites.

ENTREPRENEURSHIP CERTIFICATE (12 Hours)
- MGMT 3850, Entrepreneurship (3 Hours)
Plus 9 advanced hours (3 courses) chosen from
- MGMT 3810, Principles of Family Business (3 Hours)
- MGMT 3915, Creativity & Opportunity Dev. (3 Hours)
- MGMT 4210, E-Management (3 Hours)
- MGMT 4220, Advanced Entrepreneurship (3 Hours)
- MGMT 4235, Social Entrepreneurship (3 Hours)
- MGMT 4335, Technology & Innovation Mgmt. (3 Hours)
- MGMT 4560, Topics in Entrepreneurship (3 Hours)

Must complete appropriate prerequisites.

FORENSIC SCIENCE CERTIFICATE (19 Hours)
- CJUS 4360, Criminal Investigation (3 Hours)
- BIOL 3331, Biomedical Criminalistics (3 Hours)
- BIOL 4240, Forensic Microscopy (3 Hours)
- BIOL 4590, Forensic Molecular Biology Lab (3 Hours)
- CHEM 4351, Forensic Chemistry (3 Hours)
- CHEM 4631, Instrumental Analysis (3 Hours)
- CHEM 4632, Instrumental Analysis Lab (1 Hour)
Plus completion of the Forensic Science Aptitude Test offered through the American Board of Criminalistics.

Must complete appropriate prerequisites.

GEOGRAPHIC INFORMATION SYSTEMS CERTIFICATE (18 Hours)
- GEOF 3500, Intro. to Geographic Info. Systems (3 Hours)
- GEOF 4520, Intermediate Geographic Info. Systems (3 Hours)
- GEOF 4550, Advanced Geographic Info. Systems (3 Hours)
- GEOF 4560, Introduction to GIS Programming (3 Hours)
- GEOF 4570, Special Topics in GIS (3 Hours)
- GEOF 4590, Advanced GIS Programming (3 Hours)

Must complete appropriate prerequisites.

GAME PROGRAMMING CERTIFICATE (12 Hours)
- CSCE 4210, Game Programming I (3 Hours)
- CSCE 4215, Programming Math & Physics for Games (3 Hours)
- CSCE 4220, Game Programming II (3 Hours)
- CSCE 4250, Topics in Game Development (3 Hours)

Must complete appropriate prerequisites.

MANUFACTURING ENGINEERING TECHNOLOGY CERTIFICATE (15 Hours)
- MFET 3110, Machining Principles and Processes (4 Hours)
- MFET 4190, Quality Assurance (3 Hours)
- MFET 4200, Engineering Cost Analysis (2 Hours)
- MFET 4210, CAD/CAM System Operations (3 Hours)
- MFET4220, CNC Programming and Operation (3 Hours)

Must complete appropriate prerequisites.

MATHEMATICS OF SCIENTIFIC COMPUTATION CERTIFICATE (18 Hours)
- CSCE 1020, Program Development (4 Hours)
  or
- CSCE 1030, Computer Science I (4 Hours)
- MATH 3350, Introduction to Numerical Analysis (3 Hours)
- MATH 3410, Differential Equations (3 Hours)
Plus 9 advanced hours (3 courses) courses chosen from a specific list of options which is located in the UNT catalog at catalog.unt.edu.

Must complete appropriate prerequisites.

SECURITY CERTIFICATE (18 Hours)
- CSCE 1030, Computer Science I (4 Hours)
- CSCE 1040, Computer Science II (3 Hours)
- CSCE 2610, Assembly Language & Computer Organization (3 Hours)
- CSCE 3550, Intro. to Computer Networks (3 Hours)
- CSCE 4550, Intro. to Computer Security (3 hours)
- CSCE 4560, Secure Electronic Commerce (3 Hours)

Must complete appropriate prerequisites.

STATISTICS CERTIFICATE (12 Hours)
- MATH 3680, Applied Statistics (3 Hours)
- MATH 4610, Probability (3 Hours)
- MATH 4650, Statistics (3 Hours)
Plus 3 advanced hours (1 course) chosen from a specific list of options which is located in the UNT catalog at catalog.unt.edu.

Must complete appropriate prerequisites.

TECHNICAL WRITING CERTIFICATE (12 Hours)
- TECM 2700, Technical Writing (3 Hours)
- TECM 4180, Advanced Technical Writing (3 Hours)
- TECM 4190, Technical Editing (3 Hours)
- TECM 4200, Writing Technical Procedures & Manuals (3 Hours)
  or
- TECM 4215, Writing Technical Procedures & Manuals (3 Hours)
  or
- TECM 4700, Writing in the Sciences (3 Hours)

Grades of “B” or better required for each course.

Certificates are not required in order to graduate with a degree from the College of Engineering at UNT.

UNT offers many more certificates than those listed on this page. Information on all available certificate options & requirements can be found in the UNT catalog located at catalog.unt.edu.
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<td>Advising</td>
<td>engineering.unt.edu/advising &amp; (940) 565-4201 &amp; NTDP A-101</td>
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<td>Catalog</td>
<td>catalog.unt.edu</td>
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<td>Computer Access Labs</td>
<td>gacl.unt.edu</td>
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<td>Deadlines (Registration, Drop, Withdrawal, Payment, etc.)</td>
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<td>Dean of Students (Withdrawal Process, Complaints, etc.)</td>
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<td>eagleconnect.unt.edu or unt.edu/helpdesk</td>
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<td>Career Center</td>
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<td>internmatch.com</td>
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<td>Financial Aid &amp; Scholarships Office</td>
<td>financialaid.unt.edu</td>
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<td>Student Accounting</td>
<td>essc.unt.edu/saucs</td>
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<td>Money Management Center</td>
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<td>Student Activities &amp; Organizations</td>
<td>studentactivities.unt.edu</td>
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<td>Student Government Association</td>
<td>sga.unt.edu</td>
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<td>Student Legal Services</td>
<td>studentlegal.unt.edu</td>
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<td>Texas Success Initiative: Learning Center</td>
<td>learningcenter.unt.edu</td>
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<td>Chemistry Resource Center (CRC)</td>
<td>chemistry.unt.edu</td>
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<td>cse.unt.edu</td>
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<td>Khan Academy (online math, science, etc.)</td>
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<td>Mathway (online calculations)</td>
<td>mathway.com</td>
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<td>Physics Instructional Center (PIC)</td>
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<td>Quizlet (online math, science, etc.)</td>
<td>quizlet.com</td>
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<td>That Tutor Guy (online math)</td>
<td>thattutorguy.com</td>
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<td>Thinkwell (online math, science, etc.)</td>
<td>thinkwell.com</td>
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<td>Wolf Ram Alpha (online math, science, etc.)</td>
<td>wolframalpha.com</td>
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<td>Writing Lab</td>
<td>ltc.unt.edu/labs</td>
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<td>veteranscenter.unt.edu or unt.edu/veterans &amp; registrar.unt.edu</td>
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For Additional Help or Information Visit: www.unt.edu