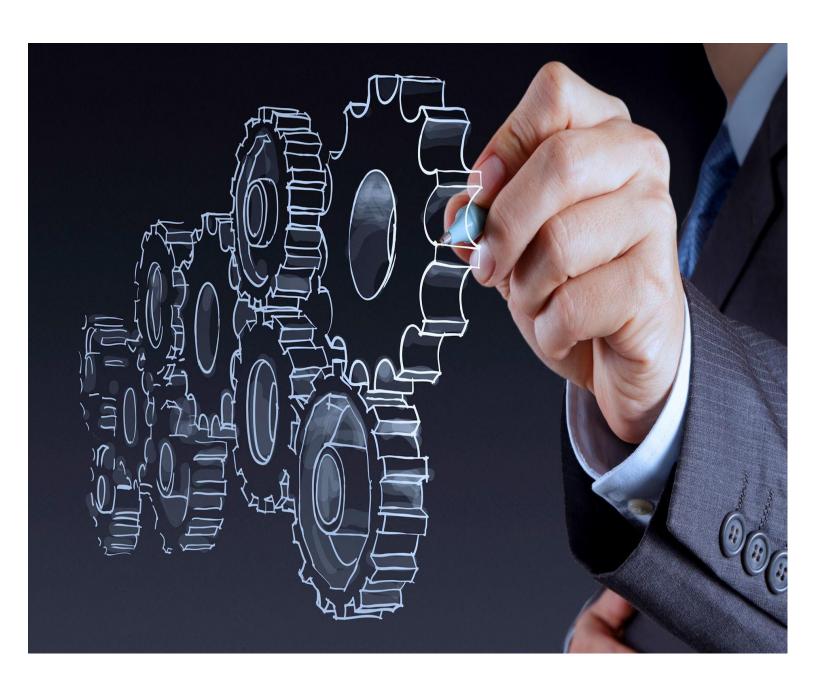


Undergraduate Academic Guidebook 2022-2023



Engineering Admissions

Students are admitted as a pre-major and can be changed to a full-major once criteria below is fulfilled.

First Time in College/Freshman Applicants

- Top 25% of high school graduating class
 - o MATH SAT score of 590 or better and a total SAT score of 1140 or better
 - o MATH ACT score of 23 or better and a composite ACT score of 23 or better
- Top 50% of high school graduating class or unranked (including GED and homeschooled)
 - o MATH SAT score of 620 or better and a total SAT score of 1170 or better
 - o MATH ACT score of 24 or better and a composite ACT score of 24 or better
- 51% or lower high school graduating class
 - o MATH SAT score of 650 or better and a total SAT score of 1250 or better
 - MATH ACT score of 26 or better and a composite ACT score of 26 or better
- Completion of Pre-Calculus or higher with a minimum grade of "C" or placement into Calculus I

Construction Engineering Technology majors or Mechanical Engineering Technology majors can be admitted as full-major with a MATH SAT score of 570 or better or a MATH ACT score of 22 or better regardless of rank.

Construction Management majors can be admitted as full-major regardless of rank, scores, etc.

Transfer, 2nd Bachelor's, Major Changer Applicants

- Minimum 2.0 GPA
- Completion of Pre-Calculus or higher with a minimum grade of "C" or placement into Calculus I

Construction Management majors can be admitted as full-major regardless of GPA or math eligibility

Continuing or Returning Engineering Students

- Minimum 2.0 GPA
- Completion of Pre-Calculus or higher with a minimum grade of "C" or placement into Calculus I

Construction Management majors can be admitted as full-major regardless of GPA or math eligibility

Mathematics Readiness

Engineering majors require enrollment in a high-level math course in the 1st semester to attempt a timely graduation. Entry into math courses is dependent on TSI completion and either (1) entry via a placement test, or (2) completion of college level math prerequisite courses. College level math courses earned via AP, IB, CLEP, DC, and/or transfer is listed on pages 58.

<u>Prerequisite Sequence for Beginning Math Courses:</u>

MATH 340 (Pre-Beginning Algebra – if TSI Required) or MATH 350 (Beginning Algebra - If TSI required) → MATH 1100 (College Algebra) → MATH 1650 (Pre-Calculus) → MATH 1710 (Calculus I)

<u>Pre-Placement for First Time in College/Freshmen:</u>

TSI math complete students (without earned college level math credit) are assigned a Math Group Level based on SAT/ACT and high school rank:

- Math Level 1 or Blank Math Level: MATH 1100 (College Algebra)
- Math Level 2: MATH 1650 (Pre-Calculus)

Placement Testing Options:

TSI math complete students can test to attempt clearance into a higher math course. Options are:

- Canvas Math Placement
 - Free online test
 - o Must score a minimum of 50 to enter MATH 1650 (Pre-Calculus)
 - o Must score a minimum of 70 to place into MATH 1710 (Calculus I)
- ALEKS
 - o Online test which requires a small fee and completion of a 6 weeklong tutorial.
 - o Must score a minimum of 50 to enter MATH 1650 (Pre-Calculus)
 - o Must score a minimum of 70 to place into MATH 1710 (Calculus I)

Refer to math.unt.edu/academics/mathematics-placement to access tests and review test rules/guidelines

Course Types

UNT offers many course types and/or formats. Below are common ones:

- Prerequisite or "Prereq"
 - Course that must be completed to move onto another course in a sequence. Prereqs are never waived or ignored.
- Corequisite or "Coreq"
 - o Course that must be taken in the same semester as another course. Coreas are never waived or ignored.
- Recitation or "Rec"
 - Extra required meeting time to cover homework, take tests, answer questions, etc.
- Laboratory or "Lab"
 - Required time that is an application of the information that you learn in class.
- Advanced course
 - High level courses as indicated by a 3*** or 4*** numbering. Normally requires completion of multiple prereqs and/or coreqs before you can take the course.
- Restricted
 - o Course or a section time of a course that limited to certain students
 - o Examples include restrictions for TAMS, Honors, Out of State, Dual Credit.

Course Locations

UNT offers courses via various delivery types/locations Below are common ones:

- UNT Internet Course
 - o Instruction, assignments, and work is all online.
- Collin Higher Education Center (CHEC)
 - o Campus located in McKinney, TX.
 - o Limited course options are available at this campus.
- Discovery Park (NTDP)
 - o Campus located in north Denton, TX
 - o Majority of all engineering courses are taught at this campus.
- Frisco Landing (FRLD)
 - Campus located in Frisco, TX.
 - o Limited core, math, writing, and computing course options are available at this campus.
- Inspire Park (FRIP):
 - o Campus located in Frisco, TX.
 - o Limited science options are available at this campus.

Course Semester Offerings

Fall semester/session offerings:

- Fall Regular: August December
- Fall 8 Week I: August October
- Fall 8 Week 2: October December

Spring semester/session offerings:

- Spring 3 Week (winter): December January
- Spring Regular: January May
- Spring 8 Week I: January March
- Spring 8 Week 2: March May

<u>Summer semester/session offerings:</u>

- Summer 3 Week: May
- Summer 5 Week 1: May June
- Summer 10 Week: May July
- Summer 8 Week: June July
- Summer 5 Week 2: June July

Not every course is offered every semester or session

Credit Hours

Number of units assigned to each course. Also referred to as "credits" or "hours". It indicates approximately how many hours per week you'll be in class and how many hours per week that you will need to study for that course. It's also used in the calculation of your GPA.

How many hours do I earn for each course?

Depends on the course. Usually 3 – 4 hours but courses can range from 1 – 5 hours.

How many credits is full-time?

12 hours (approximately 4 courses).

How many hours can I take each semester?

19 hours in the fall/spring and 18 hours in the summer. This applies to credits enrolled at UNT and another institution (concurrent enrollment). You may receive overload approval to take more hours if you meet certain GPA criteria.

Do I have to be a full-time student?

No, not unless you are an international student, athlete, scholarship receipt or receiving maximum financial aid. To attempt a timely graduation, you should plan to take 15-16 hours unless you work. Your number of work hours will impact the number of credit hours you should attempt each semester. Please consult with your advisor to determine the proper balance of work and school.

Classification

Your classification is based on the number of earned credit hours after semester grade posting; not the number of years you have been in school. Classification dictates your registration appointment time each semester and 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

Grade Point Average (GPA)

Grades have a point value and courses are worth an amount of credit hours. GPA is calculated by dividing grade points earned by the number of attempted hours. Grades of "CR" (AP, CLEP, IB credits) and "W" don't count as attempted hours in GPA calculations. Grades of "F" are attempted hours and 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 and 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/term 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 and transfer). A minimum 2.0 GPA is required.
- Major GPA: the GPA you earn in courses in your major. A minimum 2.0 GPA is required

You can access a GPA calculator at advising.unt.edu/about-your-gpa/calculate-your-gpa

Grade Point Average (GPA): Academic Status

Your cumulative UNT grades are used to calculate academic status. Grades earned in transfer are considered in calculation of Graduation with Honors and fulfillment of degree requirements but are not considered with determination of 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 freshman and 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 will be required to participate in academic coaching sessions via the Learning Center during your alert semester. You must raise your UNT GPA to 2.0 or higher during your alert semester or you will be placed on probation.

Academic Probation:

Standing if you are not eligible for alert and 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. You will be required to participate in academic coaching session via the Learning Center during your probation semester.

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. You are prohibited from attending UNT for 1 long semester for a 1st suspension or 2 long semesters for a 2nd suspension. You must petition for approval to re-enter the College of Engineering after completing the suspension period. You will be dismissed permanently from the College of Engineering if you are suspended a 3rd time.

Grade Point Average (GPA): Honors

Semester Honors:

Semester honors is based on your fall or spring semester GPA and 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: 4.000Dean's List: 3.500-3.999

Graduation with Honors:

Graduation with honors is based on your overall (UNT and transfer) GPA and 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

Cancelling, Dropping or Withdrawing

Cancelling:

This refers to removing yourself from one, some, or all of your courses before the semester has started. You can do this via MyUNT. Refer to **registrar.unt.edu** for information and deadlines.

Dropping:

This refers to removing yourself from one or some courses (but remaining in at least one course) after the semester has started. You can do this via MyUNT. Refer to **registrar.unt.edu** for information and deadlines. Only 6 drops are allowed during your academic career. **Once the 6 drop limit is reached, no additional drops are approved.**

Withdrawing:

This refers to removing all of your courses after the semester has started. You are not allowed to withdraw via MyUNT. You may withdraw via the procedures and deadlines listed online. Refer to **registrar.unt.edu**.

Dropping or withdrawing may affect your financial aid and/or excessive hours.

Retaking Courses: Course Duplications

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

Engineering major required courses must be completed with a grade of "C" or better. Only the last grade will be used in fulfilling prerequisite, corequisite, full-major eligibility, and graduation eligibility. Contact your advisor to confirm how you will be affected if you take a course more than once.

Incomplete Grade

An Incomplete ("I") grade is a pending grade. A professor may grant an "I" if you meet all of these conditions:

- The final drop and withdraw deadlines for the semester 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 and submit outstanding work within 12 months after the grade of "I" is granted.

Professors are not required to grant an "I" even if you meet the conditions. An "I" grade does not impact your GPA but it will automatically convert to a "F" grade if you do not complete the "I" within 12 months.

Pass/No Pass Grading Option

You may elect to take a course under the Pass/No Pass grading option if it is not a prerequisite or required for your degree plan. Certain criteria must be met and you must obtain approval from your advisor after you have enrolled in the course. A "P" or "NP" will be recorded on your transcript and is not calculated in your GPA.

Taking Courses at another Institution: Concurrent Enrollment

Courses taken outside of UNT will not be applied to your degree audit unless you meet all of the following criteria:

- The course you plan to take has been pre-approved by your advisor.
- You do not violate the maximum semester credit hour limit or residency requirements at UNT.
- You are not attempting to graduate the same semester in which you are concurrently enrolled.
- You submit the official transcript for the course to the Registrar's Office within one month of completion.

Your department reserves the right to reject online courses and/or courses at certain institutions.

Concurrent enrollment in your last semester will delay graduation. You will not graduate or earn your degree until the following semester.

Registration and Payment

You will use MyUNT to register for courses each semester/term. Information on registration enrollment periods, payment deadlines, etc. can be located at registration.unt.edu.

You must arrange payment prior to the payment deadline listed in MyUNT or online. Failure to pay by the deadline listed will result in the cancellation of your entire schedule of classes. You must elect a tuition plan before your 1st semester/term payment deadline. Information on plans is located at **sfs.unt.edu**. You have numerous options available to pay. Refer to **registration.unt.edu/cost-funding** for information. If you have been awarded financial aid, refer to **financialaid.unt.edu** for information.

Canvas

This is where professors can post course syllabi, announcements, deadlines, assignments, grades, etc. Also, through Canvas, you can communicate with your professor and classmates in each course. After registration, your enrolled courses will be added to Canvas.

Registration Tips

Holds:

Holds are items that you need to complete prior to registration. Your holds are listed on your "Tasks" tile in MyUNT. If you have an "Advising Required" hold, you must meet with an advisor before you can register for courses in the upcoming semester.

Full Courses/Waitlist:

If a course is full, add yourself to the waitlist. Seats are allotted in position order as fully enrolled students vacate the course. The waitlist does not guarantee a seat in the course. You can waitlist for a maximum of 3 courses per semester/term. The waitlist option ends once add/drop closes for the semester/term.

Visual Schedule Builder:

This tool in MyUNT will allow you to graphically view schedule options based on the course time offerings that works best for you. This tool can be problematic because (1) it will include courses that are full (closed/waitlisted), (2) it does not list course location to allow commute time between main campus, Discovery Park, or the campuses in Frisco, TX. and McKinney, TX. and (3) it does not always include lab times or recitations times.

Error Messages:

Read the message to learn why you received it and to determine if you are eligible to enroll in the course. Common errors refer to prerequisite, corequisite, and restricted sections.

Overrides:

Contact the department that teaches the course if you received an error message by mistake and you need to enroll in the open course. Below are department contacts for some common courses:

- BIOL: Submit request at https://biology.unt.edu/undergraduate/advising
- BMEN: Contact Whitney Smith at Whitney.Smith2@unt.edu
- CHEM: Contact Heather Vidaurri at heather.vidaurri@unt.edu
- CNET: Submit request at mechanical.engineering.unt.edu/override-form
- CSCE: Submit request at computerscience.engineering.unt.edu/overrides
- EENG: Contact Jason Mieritz at jason.mieritz@unt.edu
- ENGR: Submit request at mechanical.engineering.unt.edu/override-form
- MATH: Contact Rita Sears at rita.sears@unt.edu
- MEEN: Submit request at mechanical.engineering.unt.edu/override-form
- MEET: Submit request at mechanical.engineering.unt.edu/override-form
- MFET: Submit request at mechanical.engineering.unt.edu/override-form
- MTSE: Contact Lisa Dunlop at Lisa.Dunlop@unt.edu
- PHYS: Submit request at physics.unt.edu/forms/physics-course-override-request
- TECM: Contact tcoffice@unt.edu

Be prepared to provide your name, ID number, and the course/section you are wanting to enroll in.

Tuition Increases

Repeated Course Tuition Increase:

If you pay under the Texas resident tuition rate and you attempt courses more than twice, you are subject to pay an additional tuition rate per semester credit hour for the repeated course. Refer to information at **sfs.unt.edu**.

Excessive Hours Tuition:

If you pay under the Texas resident tuition rate, you may be subject to a higher tuition rate once you exceed more than 30 credit hours above the number of hours required for your degree plan. Additional hours are considered excessive and will result in additional tuition charges. Refer to information at **sfs.unt.edu**.

Maximum Hours - Financial Aid:

If you receive financial aid and maintain Satisfactory Academic Progress (SAP) and Pace of Progression (POP), your aid eligibility continues until you attempt 150% of the minimum credit hours required for your degree plan. For most students, once they attempt approximately 180 credit hours, their aid is discontinued.

Degree Audit (Plan)

The degree audit is the official document that lists all the requirements you need to complete to earn your degree. It tracks the application of completed requirements each semester/term. You can view your degree audit at **mydegreeaudit.unt.edu**. Please contact the Engineering Advising Office for any questions or concerns.

Graduation

Graduation can usually be achieved 4 years after you are enrolled in Calculus I (MATH 1710), enrolled in the entry level engineering course(s) for your major, follow the correct requisite sequencing, follow the correct semester scheduling path, earn passing grades each semester/term, and complete approximately 30 degree required credits per year. Please note that graduation often occurs within 5-6 years for most students.

You must apply for graduation before the beginning of your final semester via MyUNT. Refer to **registrar.unt.edu** for more information and the application deadline. Failure to apply by the deadline will result in your failure to graduate or earn your degree even if you complete all of your degree audit requirements.

You cannot enroll in another institution during your final semester/term or else your graduation will be delayed. You must meet with your academic advisor for a graduation check the semester before you plan to graduate.

Commencement

Commencement is the name of the graduation ceremony. Commencement is offered in December for students who earn their degree in fall or in May for students who earn their degree in spring. Students who earn their degree in summer can choose to attend the December or May commencement.

In order to attend commencement, you must apply for graduation before the beginning of your final semester and be approved by your academic advisor. You cannot attend commencement for a semester in which you are not graduating. Refer to **unt.edu/commencement** for more information.

Advising

Academic Advisors:

Located in Discovery Park A-101, these advisors counsel you on academic goals and requirements in order to earn your degree. You should meet with your advisor each semester. Use **navigate.unt.edu** to schedule your appointment. Allow 3 weeks for an available opening and note that you will lose your appointment if you are late. Appointments are offered in-person and online (via zoom). The office phone number is 940-565-4201 & the office e-mail is **engineering.advisor@unt.edu**.

Engineering Faculty Advisors:

Located in each department at Discovery Park, these professors assist with advising. They can help you with choosing the proper elective, specialization, track, or supporting area courses to prepare you to enter industry after graduation. Contact information is located on the following curriculum pages.

Career Advisors:

Located in Discovery Park, these advisors help you with career planning/selection, resume writing, interviewing skills, internships, and full-time employment. You can schedule an appointment via **navigate.unt.edu**.

International Advisors:

Located in Marquis Hall, these advisors help you if you are an international student to discuss policies, restrictions, and responsibilities based on your VISA type and/or sponsored scholarship type.

BIOMEDICAL ENGINEERING (STEM Tracks)

Bachelor of Science (B.S.) degree with a major in Biomedical Engineering Biomedical Engineering Department, Discovery Park (NTDP) K-220; (940) 565-3338

University Core

COMMUNICATION

1 Course (3 Hours) – see mydegreeaudit.unt.edu
 Grade of "C" or better is required

AMERICAN HISTORY I

□ 1 Course (3 Hours) chosen from HIST 2610 or HIST 2675

AMERICAN HISTORY II

□ 1 Course (3 Hours) chosen from HIST 2620 or HIST 2685

FEDERAL GOVERNMENT/POLITICAL SCIENCE

□ 1 Course (3 Hours) chosen from PSCI 2305 or PSCI 2315

STATE GOVERNMENT/POLITICAL SCIENCE

□ 1 Course (3 Hours) chosen from PSCI 2306 or PSCI 2316

CREATIVE ARTS

□ 1 Course (3 Hours) – see mydegreeaudit.unt.edu

LANGUAGE, PHILOSOPHY, AND CULTURE

1 Course (3 Hours) – see mydegreeaudit.unt.edu

SOCIAL AND BEHAVIORAL SCIENCES

☐ 1 Course (3 Hours) – see mydegreeaudit.unt.edu

Major Requirements

Minimum 2.0 GPA

TECHNICAL COMMUNICATIONS

□ TECM 2700, Technical Writing (3 Hours)

MATHEMATICS

- MATH 1710, Calculus I (4 Hours)
- MATH 1720, Calculus II (3 Hours)
- MATH 2700, Linear Algebra (3 Hours)
- MATH 2730, Multivariable Calculus (3 Hours) or MATH 3350, Numerical Analysis (3 Hours)
- ☐ MATH 3410, Differential Equations (3 Hours)
- MATH 3680, Applied Statistics (3 Hours)

Completion of the above courses will earn a Mathematics minor.

SCIENCES

- 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)
- 1 Lab science and lab chosen from: BIOL 2301, Human Anatomy & Physiology (3 Hours) & BIOL 2311, Human Anatomy & Physiology Lab (1 Hour) or CHEM 1420, General Chemistry II (3 Hours) & CHEM 1440, General Chemistry II Lab (1 Hour) or PHYS 2220, Electricity & Magnetism (3 Hours) & PHYS 2240, Electricity & Magnetism Lab (1 Hour)

Major Requirements

Minimum 2.0 GPA

BIOMEDICAL ENGINEERING

- BMEN 1300, Discover Biomedical Engineering (3 Hours)
- BMEN 1400, Software for Biomedical Engineers (4 Hours)
- BMEN 2210, DAQ Practices (3 Hours)
- BMEN 2320, Biomedical Instrumentation (3 Hours)
- BMEN 3310, Engr. Measurements from Human Systems (3 Hours)
- BMEN 3311, Biomedical Signal Analysis (3 Hours)
- BMEN 3312, Introduction to Biomechanics (3 Hours)
- BMEN 3321, Biomaterials (3 Hours)
- BMEN 3350, Biomedical Transport Phenomena (3 Hours)
- BMEN 4212, Senior Design I (1 Hour)
- BMEN 4222, Senior Design II (3 Hours)
- BMEN 4***, Advanced Elective (3 Hours)

BIOMEDICAL ENGINEERING ELECTIVE TRACK

Choose an elective track and complete a minimum of 6 courses (18 Hours) from the approved options below:

- □ Track Elective (3 Hours)
 □ Track Elective (3 Hours)
- ☐ Track Elective (3 Hours) ☐ Track Elective (3 Hours)
- ☐ Track Elective (3 Hours) ☐ Track Elective (3 Hours)

Comprehensive Biomedical Engineering:

BMEN 3600, 4000, 4100, 4200, 4310, and 4312

Biomedical Instrumentation Elective Track:

EENG 2610/2611, 2620/2621, 2710/2711, 3510, & 4*** level course.

Biomechanics Elective Track:

ENGR 2301, 2302, 2332, MEEN 2210, & two MEEN 3*** and/or 4*** level courses. See advisor for specific course choices.

Biocomputing Elective Track:

CSCE 1030, 1040, 2100, 2110, & two CSCE 3*** and/or 4*** level courses.

Biomaterials Elective Track:

MTSE 3000, two courses from 3010, 3030, 3050, 3070, plus 3 MTSE 3*** or 4*** level courses. MTSE 3001 is strongly recommended.

Computational Epidemiology Track:

CSCE 1035, CSCE 1045, CSCE 2100, CSCE 2110, CSCE 3850, and CSCE 4820

Pre-Medical Elective Track:

BIOL 1710, 1720, 1760, 2041/2042, CHEM 2370/3210, BIOL 3451/3452, and 1 class/lab chosen from BIOL 3770/4580 or BIOC 3621/3622

Additional courses are required for admissions into medical school.

Completion of one of the tracks above can potentially earn a minor. Consult academic advisor for more information.

Biomedical Engineering (STEM Tracks) - Calculus I

2022-2023 Catalog: Sample Four-Year Schedule

Semester Hours Offered Semester Hours Su. 1720 Pre-reg. MATH 1300 or 1est Placement 4 F., Sp., Lab Lab Science Lecture 3 F. Sp. Lab Lab Science Lecture Su. Science Must complete only necessary pre-regs. Hours Su. Science Corresponding Lab 1 F. Sp., Lab Lab Science Lecture Corresponding Lab 1 F. Sp., Lab Lab Science Lecture Corresponding Lab 1 F. Sp., Lab Lab Science Corresponding Lab 1 F. Sp., Lab Lab Science Lecture Corresponding Lab 1 F. Sp., Lab Lab Science Lecture Corresponding Lab 1 F. Sp., Lab Lab Science Lecture Corresponding Lab 1 F. Sp., Lab Lab Science Lecture Corresponding Lab 1 F. Sp., Lab Lab Science Lecture Corresponding Lab 1 F. Sp., Lab Lab Science Lecture Corresponding Lab		F-11				Dui-rear scr	T	013	T (.)
MATH		Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
CHEM General Chemistry 1 3 F., Sp. Lab Lab Science Lecture 3 F.			Calculus I	-			Calculus II		F., Sp.,
1410 Per-reg: MATH 1100 or higher Su. Science Must complete ony necessary pre-regs. 1		1710	Pre-req: MATH 1650 or Test Placement		Su.	1720	Pre-req: MATH 1710		Su.
CHEM General Chemistry Lab 1 F., Sp. Lab Lab Science Corresponding Lab 1 F.		CHEM	General Chemistry I	3	F., Sp.,	Lab	Lab Science Lecture	3	F., Sp.,
1430 Corprese; CHEM 1410 Su. Science Corprese; Lab Science Lecture 15		1410	Pre-req: MATH 1100 or higher		Su.	Science	Must complete any necessary pre-reqs.		Su.
BMEN Solution for BMEN 3 F. BMEN Solution for BMEN 4 1 1 1 1 1 1 1 1 1	Je		General Chemistry I Lab	1	F., Sp.,	Lab	Lab Science Corresponding Lab	1	F., Sp.,
Comm. Core	ō	1430	Co/Pre-req: CHEM 1410		Su.	Science	Co/Pre-req: Lab Science Lecture		Su.
Comm. Core	ar	BMEN	Discover BMEN	3	F.	BMEN	Software for BMEN	4	Sp.
Core Su. 2700 Pre-reg: Communication Core 14	×	1300				1400	, ,		
University Options on mydegreeaudit.unt.edu 3 F., Sp. Total Total			Options on mydegreeaudit.unt.edu	3	-			3	F., Sp.,
Nath Core Su. Hours							Pre-req: Communication Core		Su.
Total Hours Hour		•	Options on mydegreeaudit.unt.edu	3					
Hours					Su.	Hours		14	
MATH Linear Algebra Su. 3410 Pre-req: MATH 1720 Su. 2320 Pre-req: MATH 1720 Su. 2320 Pre-req: MATH 1720 Su. 2320 Pre-req: MATH 1720 Su. Colpre-req: MATH 1720 Su. Colpre-req: MATH 1720 Su. Course Must complete any necessary pre-reqs. Su. University Core Core Must complete any necessary pre-reqs. Su. University Core Su. Hours Su. Core Co				17					
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2700 Pre-reg: MATH 1720 Su. 3410 Pre-reg: Math 1300, 2210 3 Pre-reg: Math 1300, 2210 3 Pre-reg: Math 1300, 2210 3 Pre-reg: Math 1720 Su. Options on mydegreeaudit.unt.edu 3 F. University Options on mydegreeaudit.unt.edu 3 F. Core Options on mydegreeaudit.unt.edu 3 F. Su. Options on mydegreeaudit.unt.edu Su. Options on mydegreeaud		MATH	Linear Algebra	3	F., Sp.,	MATH	Differential Equations	3	F., Sp.,
PHYS Mechanics 3 F., Sp., BMEN 2320 Biomedical Instrumentation			_	1	-		•		Su.
1710		PHYS	Mechanics	3	F., Sp.,	BMEN	Biomedical Instrumentation		
PHYS		1710	Pre-req: MATH 1710			2320	Pre-reqs: BMEN 1300, 2210	3	Sp.
1730 Co/Pre-reg: PHYS 1710 Su. Course Must complete any necessary pre-regs.							Co/Pre-req: BMEN 1400		
Elective Course Must complete any necessary pre-regs. University Core University Core Total Hours MATH 2730 or MATH 2730 Pre-reg: MATH 1720 BMEN 3310 Pre-reg: BMEN 1300, 2320 BMEN 3311 Pre-reg: BMEN 1300, MATH 3410, PHYS 1710, CHEM 1410 Elective Course Must complete any necessary pre-regs. BMEN BMEN Senior Design I Hours Sunior Varies University Core Total Hours Applied Statistics Co/Pre-reg: MATH 1720 Sunior MATH Applied Statistics Co/Pre-reg: MATH 1720 Sunior MATH Coverage Must complete any necessary pre-regs. Sunior Math Coverage Must complete any necessary pre-regs. Sunior Math Coverage Must complete any necessary pre-regs. Sunior Design I Hours F. BMEN Senior Design I Sunior Design II F. BMEN Senior Design II Sunior Design II	0	PHYS	Mechanics Lab	1	F., Sp.,	Elective	Elective Track Course	3	Varies
Elective Course Must complete any necessary pre-regs. University Core University Core Total Hours MATH 2730 or MATH 2730 Pre-reg: MATH 1720 BMEN 3310 Pre-reg: BMEN 1300, 2320 BMEN 3311 Pre-reg: BMEN 1300, MATH 3410, PHYS 1710, CHEM 1410 Elective Course Must complete any necessary pre-regs. BMEN BMEN Senior Design I Hours Sunior Varies University Core Total Hours Applied Statistics Co/Pre-reg: MATH 1720 Sunior MATH Applied Statistics Co/Pre-reg: MATH 1720 Sunior MATH Coverage Must complete any necessary pre-regs. Sunior Math Coverage Must complete any necessary pre-regs. Sunior Math Coverage Must complete any necessary pre-regs. Sunior Design I Hours F. BMEN Senior Design I Sunior Design II F. BMEN Senior Design II Sunior Design II	Ž	1730	Co/Pre-req: PHYS 1710		Su.	Course	Must complete any necessary pre-reqs.		
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Elective Course Must complete any necessary pre-regs. University Core University Core Total Hours MATH Core Total Hours Transport Phenomena Transport Phen	Υe								Su.
University Core Total Hours MATH 2730 or MATH 2730 Pre-req: MATH 1720 3350 MATH 3350 Pre-req: MATH 2700 and Prog. BMEN Human Systems 3310 Pre-reqs: BMEN 1300, 2320 BMEN 3311 Pre-reqs: BMEN 1300, 2320 BMEN Transport Phenomena 3350 Pre-reqs: BMEN 1300, MATH 3410, PHYS 1710, CHEM 1410 Elective Elective Track Course Course Must complete any necessary pre-reqs. BMEN Total Hours BMEN Senior Design I F. BMEN Senior Design II F. BMEN BMEN Advanced Elective Senior Design II F. BMEN BMEN Advanced Elective Senior Design II BMEN Senior Design II F. BMEN BMEN Advanced Elective Senior Design II BMEN BMEN BMEN Advanced Elective Senior Design II BMEN BMEN B	-			3	Varies	-	Options on mydegreeaudit.unt.edu	3	F., Sp.,
Core Total Hours MATH Multi. Calculus or Numerical Analysis 3 F., Sp., MATH Applied Statistics 3 F., Sp., MATH 2730 or MATH 2730 Pre-reg: MATH 1720 3350 MATH 3750 Pre-reg: MATH 2700 and Prog. 3350 MATH 3350 Pre-reg: MATH 2700 and Prog. 3310 Pre-regs: BMEN 1300, 2320 3 F. BMEN Biomaterials 3311 Pre-reg: BMEN 1300, 2320 3312 Pre-regs: BMEN 3310, PHYS 1710 3 3 5 Pre-reg: BMEN 3310, PHYS 1710 3 3 5 Pre-reg: BMEN 3310, PHYS 1710 3 3 5 Pre-reg: BMEN 3310, PHYS 1710, CHEM 1410 3 Pre-reg: BMEN 3350 Pre-reg: BMEN 1300, MATH 3410, PHYS 3 F. Course Must complete any necessary pre-regs. 3 Varies Course Must complete any necessary pre-regs. 3 Varies Course Must complete any necessary pre-regs. 15 Hours 15 Hours 15 Hours 15 Pre-regs: BMEN 4212 Pre-regs: BMEN 4212 Pre-regs: BMEN 4212 Pre-regs: BMEN 4212 Pre-regs: BMEN Advanced Elective 3 F., Sp. BMEN BMEN Advanced Elective 3 F. Sp. Elective 3 F. Sp. BMEN BMEN Advanced Elective 3 F. Sp. Elective 4 F. Sp. Elective 5 F. Sp. Elective									Su.
Total Hours MATH Multi. Calculus or Numerical Analysis 3 F., Sp., MATH Applied Statistics 3 F., Sp., MATH 2730 or MATH 2730 Pre-req: MATH 1720 Su. 3680 Co/Pre-req: BMEN 3310, PHYS 1710 Su. 3680 Su. 3680 Co/Pre-req: BMEN 3310, PHYS 1710 Su. 3680 Co/Pre-req: BMEN 3310, PHYS 1710 Su. 3680 Su. 3680 Co/Pre-req: BMEN 3310, PHYS 1710 Su. 3680 Su		•	Options on mydegreeaudit.unt.edu	3				4.5	
Hours Hour					Su.	Hours		15	
2730 or 3350 MATH 2730 Pre-req: MATH 1720 Su. 3680 Co/Pre-req: MATH 1720 Su. 3680 Su. 3680 Co/Pre-req: MATH 1720 Su. 3680 Su. 3680 Co/Pre-req: MATH 1720 Su. 3680 Su				16					
2730 or MATH 2730 Pre-req: MATH 1720 Su. 3680 Co/Pre-req: MATH 1720 Su. 3680 Su. 3680 Co/Pre-req: MATH 1720 Su. 3680 Su. 4680 Su. 4					I .				1
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BMEN Human Systems 3 F. BMEN Introduction to Biomechanics 3 St. Signal Analysis 3311 Pre-reqs: BMEN 2320 3321 Pre-reqs: BMEN 3310, PHYS 1710 3 St. Signal Analysis 3311 Pre-req: BMEN 2320 3321 Pre-reqs: BMEN 3310, PHYS 1710, CHEM 1410 St. St. Course Must complete any necessary pre-reqs. 3 Varies University Core Course Must complete any necessary pre-reqs. Total Hours St. Hours St. St.					Su.	3680	Co/Pre-req: MATH 1720		Su.
3310 Pre-reqs: BMEN 1300, 2320 BMEN Signal Analysis 3 F. BMEN Biomaterials 3 3 321 Pre-reqs: BMEN 3310, PHYS 1710 BMEN Transport Phenomena 3350 Pre-reqs: BMEN 1300, MATH 3410, PHYS 3 F. Course Must complete any necessary pre-reqs. 3 Varies University Core Total Hours BMEN Senior Design I F. BMEN Senior Design I Pre-reqs: BMEN 3*** Requirements BMEN BMEN Senior Design I Pre-reqs: BMEN 3*** Requirements BMEN BMEN Advanced Elective 3 F., Sp. BMEN BMEN Advanced Elective 3 F.				_	_			_	_
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Elective Elective Track Course Course Must complete any necessary pre-reqs. Total Hours 15 Hours 16 Hours 17 Hours 17 Hours 17 Hours 18 H	يو			2	-			2	C
Elective Elective Track Course Course Must complete any necessary pre-reqs. Total Hours BMEN Senior Design I Pre-reqs: BMEN 3*** Requirements BMEN BMEN Advanced Elective BMEN BMEN Advanced Elective Total Hours 1 F. BMEN Senior Design I Pre-reqs: BMEN 4212 BMEN BMEN Advanced Elective 3 F., Sp. BMEN BMEN Advanced Elective 3 F., Sp. BMEN BMEN Advanced Elective 3 F., Sp. BMEN BMEN Advanced Elective 3 F.	ıre		,	3	F.			3	Sp.
Elective Elective Track Course Course Must complete any necessary pre-reqs. Total Hours BMEN Senior Design I Pre-reqs: BMEN 3*** Requirements BMEN BMEN Advanced Elective BMEN BMEN Advanced Elective Total Hours 1 F. BMEN Senior Design I Pre-reqs: BMEN 4212 BMEN BMEN Advanced Elective 3 F., Sp. BMEN BMEN Advanced Elective 3 F., Sp. BMEN BMEN Advanced Elective 3 F., Sp. BMEN BMEN Advanced Elective 3 F.	Ė						, , , , , , , , , , , , , , , , , , , ,		
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Course Must complete any necessary pre-reqs. Core 1 Total Hours 15 Total Hours 15 BMEN Senior Design I 4212 Pre-reqs: BMEN 3*** Requirements 1 F. BMEN BMEN Advanced Elective 3 F., Sp. BMEN BMEN Advanced Elective 3 F.		Elective	**	3	Varies	University	Ontions on mydegreeaudit unt edu	3	F., Sp.,
Total Hours 15							options on injugate authorized		Su.
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4212 Pre-reqs: BMEN 3*** Requirements 4222 Pre-reqs: BMEN 4212 BMEN BMEN Advanced Elective 3 F., Sp. BMEN BMEN Advanced Elective 3 F.		Hours		15		Hours		15	
4212 Pre-reqs: BMEN 3*** Requirements 4222 Pre-reqs: BMEN 4212 BMEN BMEN Advanced Elective 3 F., Sp. BMEN BMEN Advanced Elective 3 F.		DNAFNI	Carrier Design /	1	-	DAAFAI	Camian Dasias II	1 2	د ~
BMEN BMEN Advanced Elective 3 F., Sp. BMEN BMEN Advanced Elective 3 F.			_	1	F.			3	Sp.
Single Dividity Advanced Elective Single Dividity Advanced Elective Single				3	F Sn			3	F., Sp.
4*** Pre-reqs: BMEN 3*** Requirements 4*** Pre-reqs: BMEN 3*** Requirements		4***		3	1., 3p.	4***			1., 3p.
The regal biller of the regal billies of the regal biller of the r	=			3	F., Sp.		·	3	F., Sp.
BMEN Advanced Elective 4*** Pre-reqs: BMEN 3*** Requirements 4*** Pre-reqs: BMEN 3*** Requirements Elective Elective Track Course Course Must complete any necessary pre-reqs. BMEN Advanced Elective 4*** Pre-reqs: BMEN 3*** Requirements Pre-reqs: BMEN 3*** Requirements State Pre-reqs: BMEN	<u> ب</u>				., .,				.,, .,
Elective Elective Track Course 3 Varies Elective Elective Track Course 3 Varies	ar	Elective		3	Varies			3	Varies
Course Must complete any necessary pre-regs.	Ϋ́е								
		University		3	F., Sp.,	University		3	F., Sp.,
			, , , , , , , , , , , , , , , , , , , ,	1		-	, , , , , , , , , , , , , , , , , , , ,		Su.
Total Total		Total				Total			
Hours 13 Hours 15		Hours		13		Hours		15	

ENGL, TECM, MATH, CHEM, BIOL, PHYS, BMEN and Elective track courses require minimum grade of "C" for completion and/or prerequisite. This is an unofficial sample schedule. Requirements, prerequisites, corequisites, and term offerings may change. You should check your degree audit at mydegreeaudit.unt.edu each term. You should meet with your advisor each term to discuss individual scheduling, program decisions, etc.

Biomedical Engineering (STEM Tracks) - Pre-Calculus

2022-2023 Catalog: Sample Four-Year Schedule

	Fall	Course Title	Credit	Term(s)	Spring	Course Title	Credit	Term(s)
	Semester		Hours	Offered	Semester		Hours	Offered
	MATH	Pre-Calculus	5	F., Sp.,	MATH	Calculus I	4	F., Sp.,
	1650	Pre-req: MATH 1100 or Test Placement		Su.	1710	Pre-req: MATH 1650 or Test Placement		Su.
	CHEM	General Chemistry I	3	F., Sp.,	Lab	Lab Science Lecture	3	F., Sp.,
Je	1410	Pre-req: MATH 1100 or higher		Su.	Science	Must complete any necessary pre-reqs.		Su.
Year One	CHEM	General Chemistry I Lab	1	F., Sp.,	Lab	Lab Science Corresponding Lab	1	F., Sp.,
ar	1430	Co/Pre-reg: CHEM 1410		Su.	Science	Co/Pre-req: Lab Science Lecture		Su.
Υe	BMEN	Discover BMEN	3	F.	BMEN	Software for BMEN	4	Sp.
•	1300				1400	Pre-req: MATH 1650 or higher		
	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	Total			
	Core	, , , , ,		Su.	Hours		12	
	Total							ı
	Hours		15					
	I.							
	MATH	Calculus II	4	F., Sp.,	MATH	Linear Algebra	3	F., Sp.,
	1720	Pre-reg: MATH 1710		Su.	2700	Pre-req: MATH 1720		Su.
	PHYS	Mechanics	3	F., Sp.,	TECM	Technical Writing	3	F., Sp.,
	1710	Pre-reg: MATH 1710		Su.	2700	Pre-req: Communication Core		Su.
0	PHYS	Mechanics Lab	1	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
.≥	1730	Co/Pre-reg: PHYS 1710		Su.	Core			Su.
Year Two	Comm.	Options on mydegreeaudit.unt.edu	3	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
ēa	Core			Su.	Core			Su.
>	Elective	Elective Track Course	3	Varies	Total			
	Course	Must complete any necessary pre-regs.		Varies	Hours		12	
	Total	mase compresse any necessary pre requi						1
	Hours		14					
				l .	ı			
	MATH	Differential Equations	3	F., Sp.,	MATH	Multi. Calculus or Numerical Analysis	3	F., Sp.,
	3410	Pre-reg: MATH 1720		Su.	2730 or	MATH 2730 Pre-reg: MATH 1720		Su.
					3350	MATH 3350 Pre-req: MATH 2700 & Prog.		
	BMEN	DAQ Practices	3	F.	BMEN	Biomedical Instrumentation	3	Sp.
ø	2210	Pre-reg: MATH 1720			2320	Pre-regs: BMEN 1300, 2210 Co/Pre-reg:		Sp.
Fe	2210	776 769. WATT 1720			2320	BMEN 1400		
Year Three	Elective	Elective Track Course	3	Varies	Elective	Elective Track Course	3	Varies
ar	Course	Must complete any necessary pre-regs.		7 01105	Course	Must complete any necessary pre-regs.		14.165
۶	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	Core	options on mydegreeddalaidianaedd		Su.	Core	options on my degreed during interest		Su.
	Total			54.	Total			54.
	Hours		12		Hours		12	
					1104.5			I.
	MATH	Applied Statistics	3	F., Sp.,	BMEN	Introduction to Biomechanics	3	Sp.
	3680	Co/Pre-reg: MATH 1720		Su.	3312	Pre-regs: BMEN 3310, PHYS 1710		٠,
	BMEN	Human Systems	3	F.	BMEN	Biomaterials	3	Sp.
	3310	Pre-regs: BMEN 1300, 2320			3321	Pre-regs: BMEN 3310, PHYS 1710, CHEM		Sp.
_	3310	776 7643. BIVIEW 1300, 2320			3321	1410		
Year Four	BMEN	Signal Analysis	3	F.	Elective	Elective Track Course	3	Varies
ī	3311	Pre-reg: BMEN 2320			Course	Must complete any necessary pre-reqs.		
ea	BMEN	Transport Phenomena	3	F.	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
>	3350	Pre-regs: BMEN 1300, MATH 3410, PHYS			Core	options on mydegreedddit.dnt.edd		Su.
	3330	1710, CHEM 1410			2510			Ju.
	Total				Total		+	
	Hours		12		Hours		12	
		1		i.				<u>i</u>
	BMEN	Senior Design I	1	F.	BMEN	Senior Design II	3	Sp.
	4212	Pre-regs: BMEN 3*** Requirements			4222	Pre-regs: BMEN 4212		
	BMEN	BMEN Advanced Elective	3	F., Sp.	BMEN	BMEN Advanced Elective	3	F., Sp.
	4***	Pre-regs: BMEN 3*** Requirements		,	4***	Pre-regs: BMEN 3*** Requirements		,
a	BMEN	BMEN Advanced Elective	3	F., Sp.	BMEN	BMEN Advanced Elective	3	F., Sp.
Year Five	4***	Pre-regs: BMEN 3*** Requirements		,	4***	Pre-regs: BMEN 3*** Requirements		,
Ξ	Elective	Elective Track Course	3	Varies	Elective	Elective Track Course	3	Varies
ē	Course	Must complete any necessary pre-reqs.			Course	Must complete any necessary pre-regs.		
>	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	Total		1	
	Core	- p.s.s.s, aegreeadamanicad		Su.	Hours		12	
	Total							I
	Hours		13					
	110013	ĺ	1 13	Ī.				

ENGL, TECM, MATH, CHEM, BIOL, PHYS, BMEN and Elective track courses require minimum grade of "C" for completion and/or prerequisite. This is an unofficial sample schedule. Requirements, prerequisites, corequisites, and term offerings may change. You should check your degree audit at mydegreeaudit.unt.edu each term. You should meet with your advisor each term to discuss individual scheduling, program decisions, etc.

Biomedical Engineering (STEM Tracks) - College Algebra

2022-2023 Catalog: Sample Four-Year Schedule

	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
	MATH	College Algebra	3	F., Sp.,	MATH	Pre-Calculus	5	F., Sp.,
	1100	Pre-req: TSI Completion		Su.	1650	Pre-req: MATH 1100 or Test Placement		Su.
One	BMEN 1300	Discover BMEN	3	F., Sp.,	CHEM	General Chemistry I Pre-req: MATH 1100 or higher	3	F., Sp., Su.
Year One	Comm.	Options on mydegreeaudit.unt.edu	3	Su. F., Sp.,	1410 CHEM	General Chemistry I Lab	1	F., Sp.,
Ž	Core	, ,		Su.	1430	Co/Pre-reg: CHEM 1410		Su.
	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	TECM	Technical Writing	3	F., Sp.,
	Core Total			Su.	2700 Total	Pre-req: Communication Core		Su.
	Hours		12		Hours		12	
	MATH	Calculus I	4	F., Sp.,	MATH	Calculus II	3	F., Sp.,
	1710	Pre-req: MATH 1650 or Test Placement		Su.	1720	Pre-req: MATH 1710		Su.
	Lab	Lab Science Lecture	3	F., Sp.,	BMEN	Software for BMEN	4	Sp.
8	Science Lab	Must complete any necessary pre-reqs. Lab Science Corresponding Lab	1	Su. F., Sp.,	1400 PHYS	Pre-req: MATH 1650 or higher Mechanics	3	F., Sp.,
Year Two	Science	Co/Pre-req: Lab Science Lecture	1	F., Sp., Su.	1710	Pre-reg: MATH 1710	3	F., 3p., Su.
Yea	Elective	Elective Track Course	3	Varies	PHYS	Mechanics Lab	1	F., Sp.,
-	Course	Must complete any necessary pre-reqs.			1730	Co/Pre-req: PHYS 1710	<u> </u>	Su.
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	Total				Total			
	Hours		14		Hours		14	
	MATH	Linear Algebra	3	F., Sp.,	MATH	Differential Equations	3	F., Sp.,
	2700	Pre-req: MATH 1720	3	Su. F.	3410	Pre-req: MATH 1720	3	Su.
Year Three	BMEN 2210	DAQ Practices Pre-req: MATH 1720	3	F.	BMEN 2320	Biomedical Instrumentation Pre-regs: BMEN 1300, 2210 Co/Pre-req: BMEN 1400	3	Sp.
	Elective	Elective Track Course	3	Varies	Elective	Elective Track Course	3	Varies
	Course University	Must complete any necessary pre-reqs. Options on mydegreeaudit.unt.edu	3	F., Sp.,	Course University	Must complete any necessary pre-reqs. Options on mydegreeaudit.unt.edu	3	F., Sp.,
	Core	Options on mydegreeaddit.unc.edd		Su.	Core	Options on mydegreeaddit.unc.edd		Su.
	Total				Total			
	Hours		12		Hours		12	
	MATH	Multi. Calculus or Numerical Analysis	3	F., Sp.,	MATH	Applied Statistics	3	F., Sp.,
	2730 or	MATH 2730 Pre-req: MATH 1720		Su.	3680	Co/Pre-req: MATH 1720		Su.
	3350	MATH 3350 Pre-req: MATH 2700 & Prog.						
	BMEN 3310	Human Systems Pre-regs: BMEN 1300, 2320	3	F.	BMEN 3312	Introduction to Biomechanics Pre-reqs: BMEN 3310, PHYS 1710	3	Sp.
Ž	BMEN	Signal Analysis	3	F.	BMEN	Biomaterials	3	Sp.
Year Fo	3311	Pre-req: BMEN 2320			3321	Pre-regs: BMEN 3310, PHYS 1710, CHEM 1410		op.
×	BMEN	Transport Phenomena	3	F.	Elective	Elective Track Course	3	Varies
	3350	Pre-reqs: BMEN 1300, MATH 3410, PHYS 1710, CHEM 1410			Course	Must complete any necessary pre-reqs.		
	Total	1710, 0.12.1111			Elective	Elective Track Course	3	Varies
	Hours		12		Course	Must complete any necessary pre-reqs.		
					Total Hours		15	
	BMEN	Senior Design I	1	F.	BMEN	Senior Design II	3	Sp.
		Pre-regs: BMEN 3*** Requirements			4222	Pre-reqs: BMEN 4212		·
	4212		3	F., Sp.	BMEN	BMEN Advanced Elective Pre-reqs: BMEN 3*** Requirements	3	F., Sp.
	BMEN	BMEN Advanced Elective	3		4***			
ive		BMEN Advanced Elective Pre-reqs: BMEN 3*** Requirements BMEN Advanced Elective	3	F., Sp.	4*** BMEN	BMEN Advanced Elective	3	F., Sp.
ar Five	BMEN 4*** BMEN 4***	BMEN Advanced Elective Pre-reqs: BMEN 3*** Requirements BMEN Advanced Elective Pre-reqs: BMEN 3*** Requirements	3		BMEN 4***	BMEN Advanced Elective Pre-regs: BMEN 3*** Requirements		
Year Five	BMEN 4*** BMEN	BMEN Advanced Elective Pre-reqs: BMEN 3*** Requirements BMEN Advanced Elective Pre-reqs: BMEN 3*** Requirements Elective Track Course		F., Sp. F.	BMEN	BMEN Advanced Elective	3	F., Sp. F., Sp., Su.
Year Five	BMEN 4*** BMEN 4*** Elective Course University	BMEN Advanced Elective Pre-reqs: BMEN 3*** Requirements BMEN Advanced Elective Pre-reqs: BMEN 3*** Requirements	3	F. F., Sp.,	BMEN 4*** University Core Total	BMEN Advanced Elective Pre-regs: BMEN 3*** Requirements	3	F., Sp.,
Year Five	BMEN 4*** BMEN 4*** Elective Course	BMEN Advanced Elective Pre-reqs: BMEN 3*** Requirements BMEN Advanced Elective Pre-reqs: BMEN 3*** Requirements Elective Track Course Must complete any necessary pre-reqs.	3	F.	BMEN 4*** University Core	BMEN Advanced Elective Pre-regs: BMEN 3*** Requirements		F., Sp.,

BIOMEDICAL ENGINEERING (Business Tracks)

Bachelor of Science (B.S.) degree with a major in Biomedical Engineering Biomedical Engineering Department, Discovery Park (NTDP) K-220; (940) 565-3338

University Core

COMMUNICATION

1 Course (3 Hours) – see mydegreeaudit.unt.edu
 Grade of "C" or better is required

AMERICAN HISTORY I

□ 1 Course (3 Hours) chosen from HIST 2610 or HIST 2675

AMERICAN HISTORY II

□ 1 Course (3 Hours) chosen from HIST 2620 or HIST 2685

FEDERAL GOVERNMENT/POLITICAL SCIENCE

☐ 1 Course (3 Hours) chosen from PSCI 2305 or PSCI 2315

STATE GOVERNMENT/POLITICAL SCIENCE

□ 1 Course (3 Hours) chosen from PSCI 2306 or PSCI 2316

CREATIVE ARTS

□ 1 Course (3 Hours) – see mydegreeaudit.unt.edu

LANGUAGE, PHILOSOPHY, AND CULTURE

□ 1 Course (3 Hours) – see mydegreeaudit.unt.edu

SOCIAL AND BEHAVIORAL SCIENCES

1 Course (3 Hours) – see mydegreeaudit.unt.edu

Major Requirements

Minimum 2.0 GPA

TECHNICAL COMMUNICATIONS

■ TECM 2700, Technical Writing (3 Hours)

MATHEMATICS

- MATH 1710, Calculus I (4 Hours)
- MATH 1720, Calculus II (3 Hours)
- MATH 2700, Linear Algebra (3 Hours)
- MATH 2730, Multivariable Calculus (3 Hours) or MATH 3350, Numerical Analysis (3 Hours)
- MATH 3410, Differential Equations (3 Hours)
- MATH 3680, Applied Statistics (3 Hours)

Completion of the above courses will earn a Mathematics minor.

SCIENCES

- 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)
- 1 Lab science and lab chosen from:
 BIOL 2301, Human Anatomy & Physiology (3 Hours) &
 BIOL 2311, Human Anatomy & Physiology Lab (1 Hour) or
 CHEM 1420, General Chemistry II (3 Hours) &
 CHEM 1440, General Chemistry II Lab (1 Hour) or
 PHYS 2220, Electricity & Magnetism (3 Hours) &
 PHYS 2240, Electricity & Magnetism Lab (1 Hour)

Major Requirements

Minimum 2.0 GPA

BIOMEDICAL ENGINEERING

- BMEN 1300, Discover Biomedical Engineering (3 Hours)
- BMEN 1400, Software for Biomedical Engineers (4 Hours)
- BMEN 2210, DAQ Practices (3 Hours)
- BMEN 2320, Biomedical Instrumentation (3 Hours)
- BMEN 3310, Engr. Measurements from Human Systems (3 Hours)
- BMEN 3311, Biomedical Signal Analysis (3 Hours)
- BMEN 3312, Introduction to Biomechanics (3 Hours)
- BMEN 3321, Biomaterials (3 Hours)
- BMEN 3350, Biomedical Transport Phenomena (3 Hours)
- BMEN 4212, Senior Design I (1 Hour)
- BMEN 4222, Senior Design II (3 Hours)
- BMEN 4***, Advanced Elective (3 Hours)

BIOMEDICAL ENGINEERING ELECTIVE TRACK

Choose an elective track and complete a minimum of 4 courses (12 Hours) from the approved options below:

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

Business Foundations Track:

ACCT 2010*, ACCT 2020, MKTG 3650 or MKTG 3651, MGMT 3720 or MGMT 3721 or MGMT 3820, FINA 3770, and a 3*** or 4*** level Business course

*ACCT 2010 requires ECON 1100 as Pre/Co-requisite. ECON 1100 also applies towards Social and Behavioral Sciences Core requirement.

Entrepreneurship and Enterprise Management Track

MGMT 3820, MGMT 3850, plus 12 hours (four courses at 3 credit hours each) from appropriate selections in catalog.

Management Track

MGMT 3720 plus 15 hours (five courses at 3 credit hours each) from appropriate selections in catalog.

Marketing Track

MKTG 3650 plus 15 hours (five courses at 3 credit hours each) from appropriate selections in catalog.

Only four courses from a track is required for degree completion. Listed above are the requirements to earn a minor if you would like.

This is an unofficial simplified checklist effective fall 2022. Degree requirements may change. You may need elective courses to help reach a minimum of 120 Total Hours and 36 Advanced Hours. Check with an advisor.

Biomedical Engineering (Business Tracks) – Calculus I

2022-2023 Catalog: Sample Four-Year Schedule

	Fall	Course Title	Credit	Term(s)	Spring	Course Title	Credit	Term(s)
	Semester		Hours	Offered	Semester		Hours	Offered
	MATH	Calculus I	4	F., Sp.,	MATH	Calculus II	3	F., Sp.,
	1710	Pre-req: MATH 1650 or Test Placement		Su.	1720	Pre-req: MATH 1710		Su.
	CHEM	General Chemistry I	3	F., Sp.,	Lab	Lab Science Lecture	3	F., Sp.,
	1410	Pre-reg: MATH 1100 or higher		Su.	Science	Must complete any necessary pre-regs.		Su.
a)	CHEM	General Chemistry I Lab	1	F., Sp.,	Lab	Lab Science Corresponding Lab	1	F., Sp.,
One	1430	Co/Pre-req: CHEM 1410		Su.	Science	Co/Pre-reg: Lab Science Lecture		Su.
, E	BMEN	Discover BMEN	3	F.	BMEN	Software for BMEN	4	Sp.
Year	1300	DISCOVEL BIVIEN			1400	Pre-reg: MATH 1650 or higher		Sp.
	Comm.	Options on mydegreeaudit.unt.edu	3	F., Sp.,	TECM	Technical Writing	3	F., Sp.,
	Core	Options on mydegreeaddit.unt.edd		Su.	2700	Pre-reg: Communication Core		Su.
	University	Outions on mondomeson dit cost ode.	3	F., Sp.,	Total	Pre-reg. Communication Core		Ju.
	Core	Options on mydegreeaudit.unt.edu		Su.	Hours		14	
	Total			Ju.	Hours		17	
	Hours		17					
	Hours			1	1		1	
	MATH	Linear Algebra	3	F., Sp.,	MATH	Differential Equations	3	F., Sp.,
ł	2700	Pre-reg: MATH 1720		Su.	3410	Pre-reg: MATH 1720		Su.
	PHYS	Mechanics	3	F., Sp.,	BMEN	Biomedical Instrumentation		
	1710	Pre-reg: MATH 1710		Su.	2320	Pre-regs: BMEN 1300, 2210	3	Sp.
	27.20	Tre-reg. MATT 1710			2020	Co/Pre-req: BMEN 1400		op.
	PHYS	Mechanics Lab	1	F., Sp.,	Business	Elective Track Course	3	Varies
٧o	1730	Co/Pre-reg: PHYS 1710	1	Su.	Elective	Must complete any necessary pre-reqs.		Varies
Year Two	BMEN	DAQ Practices	3	F.	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
ar	2210	Pre-reg: MATH 1720	3	'.	Core	Options on mydegreeaudit.unt.edu		Su.
Ϋ́		·	3	F., Sp.,	University	Ontions on mondomesonality and ode	3	F., Sp.,
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
		Outile and a second and a second it was to also	3		Total		-	Ju.
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	Hours		15	
	Total			Ju.	Hours		13	
	Hours		16					
	110015		10	1	1		1	
	MATH	Multi. Calculus or Numerical Analysis	3	F., Sp.,	MATH	Applied Statistics	3	F., Sp.,
	2730 or	MATH 2730 Pre-reg: MATH 1720		Su.	3680	Co/Pre-reg: MATH 1720		Su.
	3350	MATH 3350 Pre-req: MATH 2700 and Prog.						
	BMEN	Human Systems	3	F.	BMEN	Introduction to Biomechanics	3	Sp.
	3310	Pre-reqs: BMEN 1300, 2320			3312	Pre-regs: BMEN 3310, PHYS 1710		
ee	BMEN	Signal Analysis	3	F.	BMEN	Biomaterials	3	Sp.
عّ	3311	Pre-reg: BMEN 2320			3321	Pre-regs: BMEN 3310, PHYS 1710, CHEM 1410		, op.
Year Three	BMEN	Transport Phenomena			Business	Elective Track Course		
ea	3350	Pre-regs: BMEN 1300, MATH 3410, PHYS	3	F.	Elective	Must complete any necessary pre-regs.	3	Varies
>		1710, CHEM 1410				with the complete any necessary pre-regs.		
	Business	Elective Track Course	3	Varies	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	Elective	Must complete any necessary pre-regs.		Varies	Core	Options on mydegreeaudit.unt.edu		Su.
	Total	wast complete any necessary pre regs.			Total			
	Hours		15		Hours		15	
1				1		1		1
	BMEN	Senior Design I	1	F.	BMEN	Senior Design II	3	Sp.
	4212	Pre-reqs: BMEN 3*** Requirements			4222	Pre-regs: BMEN 4212		
	BMEN	BMEN Advanced Elective	3	F., Sp.	BMEN	BMEN Advanced Elective	3	F., Sp.
	4***	Pre-regs: BMEN 3*** Requirements			4***	Pre-reqs: BMEN 3*** Requirements		
'n	BMEN	BMEN Advanced Elective	3	F., Sp.	BMEN	BMEN Advanced Elective	3	F., Sp.
Year Four	4***	Pre-regs: BMEN 3*** Requirements		· .	4***	Pre-regs: BMEN 3*** Requirements		
ar	BMEN	BMEN Advanced Elective	3	F., Sp.	BMEN	BMEN Advanced Elective	3	F., Sp.
ĕ	4***	Pre-reqs: BMEN 3*** Requirements		, -	4***	Pre-regs: BMEN 3*** Requirements	1	, -
	Business	Elective Track Course	3	Varies	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	Elective	Must complete any necessary pre-regs.			Core	Spans on mydegreedddiadiaedd		Su.
	Total		+		Total		†	
	Hours		13		Hours		15	
		<u> </u>		1		1		l

ENGL, TECM, MATH, CHEM, BIOL, PHYS, BMEN and Business track courses require minimum grade of "C" for completion and/or prerequisite. This is an unofficial sample schedule. Requirements, prerequisites, corequisites, and term offerings may change. You should check your degree audit at mydegreeaudit.unt.edu each term. You should meet with your advisor each term to discuss individual scheduling, program decisions, etc.

Biomedical Engineering (Business Tracks) – Pre-Calculus

2022-2023 Catalog: Sample Four-Year Schedule

	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
	MATH	Pre-Calculus	5	F., Sp.,	MATH	Calculus I	4	F., Sp.,
	1650	Pre-req: MATH 1100 or Test Placement	,	Γ., 3μ., Su.	1710	Pre-reg: MATH 1650 or Test Placement	"	Su.
o	CHEM	General Chemistry I	3	F., Sp.,	Lab	Lab Science Lecture	3	F., Sp.,
Year One	1410	Pre-req: MATH 1100 or higher	3	Su.	Science	Must complete any necessary pre-regs.		Su.
<u> </u>	CHEM	General Chemistry I Lab	1	F., Sp.,	Lab	Lab Science Corresponding Lab	1	F., Sp.,
ě	1430	Co/Pre-reg: CHEM 1410	1 -	ν., 3ρ., Su.	Science	Co/Pre-reg: Lab Science Lecture	_	Su.
_	BMEN	Discover BMEN	3	F.	BMEN	Software for BMEN	4	Sp.
	1300	DISCOVET DIVILIV		'.	1400	Pre-req: MATH 1650 or higher	7	Эρ.
	Total				Total	Tre-req. WATTI 1030 of Higher		
	Hours		12		Hours		12	
						T	1 .	
	MATH 1720	Calculus II Pre-reg: MATH 1710	4	F., Sp., Su.	MATH 2700	Linear Algebra Pre-req: MATH 1720	3	F., Sp., Su.
	PHYS	Mechanics	3	F., Sp.,	TECM	Technical Writing	3	F., Sp.,
	1710	Pre-req: MATH 1710	3	Γ., 3μ., Su.	2700	Pre-reg: Communication Core	3	Su.
9	PHYS	Mechanics Lab	1	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
I ≥	1730	Co/Pre-req: PHYS 1710	1	Γ., 3μ., Su.	Core	Options on mydegreeaddit.unt.edd	3	F., Sp., Su.
ā	Comm.	Options on mydegreeaudit.unt.edu	3	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
Year Two	Core	Options on mydegreeaddit.unt.edd	3	Γ., 3μ., Su.	Core	Options on mydegreeaddit.dift.edd	3	F., Sp., Su.
	Elective	Elective Track Course	2		Total		+	ou.
			3	Varies			12	
	Course	Must complete any necessary pre-reqs.			Hours		12	
	Total		14					
	Hours		14					
	MATH	Differential Equations	3	F., Sp.,	MATH	Multi. Calculus or Numerical Analysis	3	F., Sp.,
	3410	Pre-reg: MATH 1720	3	Su.	2730 or	MATH 2730 Pre-reg: MATH 1720		Su.
	3110	776 76q. WW. 117 1720		Ju.	3350	MATH 3350 Pre-reg: MATH 2700 and		Ju.
					3330	Prog.		
a)	BMEN	DAQ Practices	3	F.	BMEN	Biomedical Instrumentation	3	Sp.
ě	2210	Pre-reg: MATH 1720		١	2320	Pre-regs: BMEN 1300, 2210 Co/Pre-reg:		Эρ.
드	2210	776 769. WATT 1720			2320	BMEN 1400		
Year Three	Elective	Elective Track Course	3	Varies	Elective	Elective Track Course	3	Varies
ĕ	Course	Must complete any necessary pre-regs.	3	varies	Course	Must complete any necessary pre-regs.		varies
_	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	Core	Options on mydegreedudicancedd	3	Su.	Core	Options on mydegreeddalt.ant.edd		Su.
	Total				Total			
	Hours		12		Hours		12	
	110015				110015			l
	MATH	Applied Statistics	3	F., Sp.,	BMEN	Introduction to Biomechanics	3	Sp.
	3680	Co/Pre-req: MATH 1720		Su.	3312	Pre-regs: BMEN 3310, PHYS 1710		
	BMEN	Human Systems	3	F.	BMEN	Biomaterials	3	Sp.
_	3310	Pre-regs: BMEN 1300, 2320			3321	Pre-regs: BMEN 3310, PHYS 1710, CHEM		
l n						1410		
Year Four	BMEN	Signal Analysis	3	F.	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
eal	3311	Pre-req: BMEN 2320			Core		<u> </u>	Su.
>	BMEN	Transport Phenomena	3	F.	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	3350	Pre-regs: BMEN 1300, MATH 3410, PHYS			Core		1	Su.
		1710, CHEM 1410					<u> </u>	
	Total				Total		1	
	Hours		12		Hours		12	
	DNATNI	Senior Design I	1		DNATNI	Senior Design II	1 2	C.~
	BMEN 4212	Pre-regs: BMEN 3*** Requirements	1	F.	BMEN 4222	Pre-regs: BMEN 4212	3	Sp.
	BMEN	BMEN Advanced Elective	3	F., Sp.	BMEN	BMEN Advanced Elective	3	F., Sp.
	4***	Pre-reqs: BMEN 3*** Requirements		1 ., Jp.	4***	Pre-regs: BMEN 3*** Requirements		ι., υμ.
Ve	BMEN	BMEN Advanced Elective	3	F., Sp.	BMEN	BMEN Advanced Elective	3	F., Sp.
Year Five	4***	Pre-regs: BMEN 3*** Requirements		,	4***	Pre-regs: BMEN 3*** Requirements		,
, a	Elective	Elective Track Course	3	Varies	BMEN	BMEN Advanced Elective	3	F., Sp.
Ϋ́e	Course	Must complete any necessary pre-reqs.			4***	Pre-regs: BMEN 3*** Requirements		,
	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	Total		1	
	Core	,		Su.	Hours		12	
	Total					ı		I.
	Hours		13					

ENGL, TECM, MATH, CHEM, BIOL, PHYS, BMEN and Business track courses require minimum grade of "C" for completion and/or prerequisite. This is an unofficial sample schedule. Requirements, prerequisites, corequisites, and term offerings may change. You should check your degree audit at mydegreeaudit.unt.edu each term. You should meet with your advisor each term to discuss individual scheduling, program decisions, etc.

Biomedical Engineering (Business Tracks) - College Algebra

2022-2023 Catalog: Sample Four-Year Schedule

	Fall	Course Title	Credit	Term(s)	Spring	Course Title	Credit	Term(s)
	Semester		Hours	Offered	Semester		Hours	Offered
	MATH	College Algebra	3	F., Sp.,	MATH	Pre-Calculus	5	F., Sp.,
	1100	Pre-req: TSI Completion		Su.	1650	Pre-req: MATH 1100 or Test Placement		Su.
One	BMEN	Discover BMEN	3	F., Sp.,	CHEM	General Chemistry I	3	F., Sp.,
Ó	1300			Su.	1410	Pre-req: MATH 1100 or higher		Su.
Year	Comm.	Options on mydegreeaudit.unt.edu	3	F., Sp.,	CHEM	General Chemistry I Lab	1	F., Sp.,
۶	Core			Su.	1430	Co/Pre-req: CHEM 1410		Su.
	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	TECM	Technical Writing	3	F., Sp.,
	Core			Su.	2700	Pre-req: Communication Core		Su.
	Total				Total			
	Hours		12		Hours		12	
	MATH	Calculus I	4	F., Sp.,	MATH	Calculus II	3	F., Sp.,
	1710	Pre-reg: MATH 1650 or Test Placement	7	Su.	1720	Pre-reg: MATH 1710		Su.
	Lab	Lab Science Lecture	3	F., Sp.,	BMEN	Software for BMEN	4	
	Science		3	Γ., 3μ., Su.	1400	Pre-req: MATH 1650 or higher	4	Sp.
9	-	Must complete any necessary pre-reqs.	1				3	Г С-
_≥	Lab	Lab Science Corresponding Lab	1	F., Sp.,	PHYS	Mechanics	3	F., Sp.,
a	Science	Co/Pre-req: Lab Science Lecture	3	Su.	1710 PHYS	Pre-req: MATH 1710 Mechanics Lab	1	Su.
Year Two	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	1730	Co/Pre-reg: PHYS 1710	1	F., Sp., Su.
		Outions on modernoon dit and od.	-			Options on mydegreeaudit.unt.edu	3	
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	Total		+	Su.	Total			Su.
	Hours		14		Hours		14	
	Hours	<u> </u>	14		110013		14	
	MATH	Linear Algebra	3	F., Sp.,	MATH	Differential Equations	3	F., Sp.,
	2700	Pre-req: MATH 1720		Su.	3410	Pre-reg: MATH 1720		Su.
	BMEN	DAQ Practices	3	F.	BMEN	Biomedical Instrumentation	3	Sp.
a	2210	Pre-reg: MATH 1720		١	2320	Pre-regs: BMEN 1300, 2210 Co/Pre-reg:		Sp.
ē	2210	776 76q. WATTI 1720			2320	BMEN 1400		
누	Elective	Elective Track Course	3	Varies	Elective	Elective Track Course	3	Varies
Year Three	Course	Must complete any necessary pre-reqs.		Varies	Course	Must complete any necessary pre-reqs.		Varies
Υe	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	Core	options on mydegreedadicancedd		Su.	Core	options on mydegreeddattantiedd		Su.
	Total				Total			
	Hours		12		Hours		12	
			•	•	_			•
	MATH	Multi. Calculus or Numerical Analysis	3	F., Sp.,	MATH	Applied Statistics	3	F., Sp.,
	2730 or	MATH 2730 Pre-req: MATH 1720		Su.	3680	Co/Pre-req: MATH 1720		Su.
	3350	MATH 3350 Pre-req: MATH 2700 & Prog.						
	BMEN	Human Systems	3	F.	BMEN	Introduction to Biomechanics	3	Sp.
≒	3310	Pre-regs: BMEN 1300, 2320			3312	Pre-regs: BMEN 3310, PHYS 1710		
Ē	BMEN	Signal Analysis	3	F.	BMEN	Biomaterials	3	Sp.
Ē	3311	Pre-req: BMEN 2320			3321	Pre-regs: BMEN 3310, PHYS 1710, CHEM		
Year Four						1410		
-	BMEN	Transport Phenomena	3	F.	Elective	Elective Track Course	3	Varies
	3350	Pre-reqs: BMEN 1300, MATH 3410, PHYS			Course	Must complete any necessary pre-reqs.		
		1710, CHEM 1410						
	Total				Elective	Elective Track Course	3	Varies
	Hours		12		Course	Must complete any necessary pre-reqs.		
					Total		1 -	
					Hours		15	
	BMEN	Senior Design I	1	F.	BMEN	Senior Design II	3	Sp.
	4212	Pre-reqs: BMEN 3*** Requirements	1	'.	4222	Pre-regs: BMEN 4212	,	<i>υ</i> ρ.
	BMEN	BMEN Advanced Elective	3	F., Sp.	BMEN	BMEN Advanced Elective	3	F., Sp.
ø	4***	Pre-regs: BMEN 3*** Requirements		, 50.	4***	Pre-regs: BMEN 3*** Requirements		, Jp.
.≥	BMEN	BMEN Advanced Elective	3	F., Sp.	BMEN	BMEN Advanced Elective	3	F., Sp.
Year Five	4***	Pre-regs: BMEN 3*** Requirements		., - [4***	Pre-reqs: BMEN 3*** Requirements		,
(ea	BMEN	Elective Track Course	3	F.	BMEN	BMEN Advanced Elective	3	F., Sp.
	4***	Must complete any necessary pre-reqs.			4***	Pre-reqs: BMEN 3*** Requirements		,
	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	Total			
	Core			Su.	Hours		12	
	Total							
	Hours		13					
						· · · · · · · · · · · · · · · · · · ·		

Computer Engineering

Bachelor of Science (B.S.) degree with a major in Computer Engineering
Department of Computer Science and Engineering, Discovery Park (NTDP) F-201; (940) 565-2767

University Core

COMMUNICATION

☐ 1 Course (3 Hours) – see mydegreeaudit.unt.edu Grade of "C" or better is required

AMERICAN HISTORY I

□ 1 Course (3 Hours) chosen from HIST 2610 or HIST 2675

AMERICAN HISTORY II

□ 1 Course (3 Hours) chosen from HIST 2620 or HIST 2685

FEDERAL GOVERNMENT/POLITICAL SCIENCE

□ 1 Course (3 Hours) chosen from PSCI 2305 or PSCI 2315

STATE GOVERNMENT/POLITICAL SCIENCE

□ 1 Course (3 Hours) chosen from PSCI 2306 or PSCI 2316

CREATIVE ARTS

□ 1 Course (3 Hours) – see mydegreeaudit.unt.edu

LANGUAGE, PHILOSOPHY, AND CULTURE

□ 1 Course (3 Hours) – see mydegreeaudit.unt.edu

SOCIAL AND BEHAVIORAL SCIENCES

□ 1 Course (3 Hours) – see mydegreeaudit.unt.edu

Major Requirements

Grades of C or better

TECHNICAL COMMUNICATIONS

■ TECM 2700, Technical Writing (3 Hours)

MATHEMATICS

- MATH 1710, Calculus I (4 Hours)
- MATH 1720, Calculus II (3 Hours)
- ☐ MATH 1780, Probability Models (3 Hours)
- MATH 2700, Linear Algebra (3 Hours)
- ☐ MATH 2730, Multivariable Calculus (3 Hours)

SCIENCES

- 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)
- PHYS 2220, Electricity & Magnetism (3 Hours) & PHYS 2240, Electricity & Magnetism Lab (1 Hour)

MISC. Elective

1 course (3 Hours) may be required to reach 121 total hours (check with advisor)

Major Requirements

Grades of C or better

ELECTRICAL ENGINEERING

- EENG 2610, Circuit Analysis (3 Hours) & EENG 2611, Circuit Analysis Lab (1 Hour)
- ☐ EENG 2710, Digital Logic Design (3 Hours) & EENG 2711, 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, Foundations of Computing (3 Hours)
- □ CSCE 2110, Foundations of Data Structures (3 Hours)
- □ CSCE 2610, Assembly Lang. & Computer Organization (3 Hours)
- □ CSCE 3010, Signals & Systems (3 Hours)
- □ CSCE 3020, Communication Systems (3 Hours)
- □ CSCE 3600, Principles of Systems Programming (3 Hours)
- □ CSCE 3610, Introduction to Computer Architecture (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 and complete 3 courses from the approved options below:

- Specialty Elective (3 Hours)
- □ Specialty Elective (3 Hours)
- Specialty Elective (3 Hours)

Artificial Intelligence and Machine Learning (Choose 3 courses):

CSCE 3110, 4200, 4201, 4205, 4290, 4380, 4890

Real-time & Embedded Systems Specialty Area (Choose 3 courses):

ELET 3750, CSCE 3444, 4440, 4600, 4610, 4620, 4730, 4890

VLSI & Electronics Specialty Area (Choose 3 courses):

ELET 3750, 4300, 4340, CSCE 4610, 4730, 4890, PHYS 4500

Communications & Networks Specialty Area (Choose 3 courses):

CSCE 3420, 3530, 3550, 4510, 4520, 4530, 4560, 4890

Computer Systems Specialty Area (Choose 3 courses):

CSCE 3030, 4050, 4240, 4600, 4610, 4620, 4650, 4730, 4890

Maximum of 6 hours may be taken from CSCE 4890, 4920, 4930, 4940, or 4950.

Computer Engineering – Calculus I

2022-2023 Catalog: Sample Four-Year Schedule

	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
	MATH 1710	Calculus I Pre-reg: MATH 1650 or Test Placement	4	F., Sp., Su.	MATH 1720	Calculus II Pre-reg: MATH 1710	3	F., Sp., Su.
	CHEM 1410	General Chemistry I Pre-req: MATH 1100 or higher Co-req: CHEM 1430	3	F., Sp., Su.	CSCE 1040	Computer Science II Pre-req: CSCE 1030 Co/Pre-req: MATH 1710	3	F., Sp., Su.
Year One	CHEM 1430	General Chemistry Lab Co/Pre-reg: CHEM 1410	1	F., Sp., Su.	TECM 2700	Technical Writing Pre-reg: Communication Core	3	F., Sp., Su.
Year	CSCE 1030	Computer Science I Pre-req: MATH 1650 or Co-req: MATH 1710	4	F., Sp.	PHYS 1710	Mechanics Pre-req: MATH 1710. Co-req: PHYS 1730	3	F., Sp., Su.
	Comm. Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	PHYS 1730	Mechanics Lab Co/Pre-req: PHYS 1710	1	F., Sp., Su.
	Total Hours		15		University Core	Options on mydegreeaudit.unt.edu	3	
					Total Hours		16	
	MATH 2730	Multivariable Calculus Pre-req: MATH 1720	3	F., Sp., Su.	MATH 1780	Probability Models Pre-req: MATH 1710	3	F., Sp., Su.
	PHYS 2220	Electricity & Magnetism Pre-reqs: MATH 1720 & PHYS 1710, 1730 Co-req: PHYS 2240	3	F., Sp., Su.	MATH 2700	Linear Algebra Pre-req: MATH 1720	3	F., Sp., Su.
o	PHYS 2240	Electricity & Magnetism Lab Co/Pre-req: PHYS 2220	1	F., Sp., Su.	CSCE 2110	Foundations of Data Structures Pre-req: CSCE 1040	3	F., Sp., Su.
Year Two	CSCE 2100	Foundations of Computing Pre-req: CSCE 1040	3	F., Sp., Su.	CSCE 2610	Assembly Lang. & Computer Org. Pre-req: CSCE 2100 Co/Pre-req: EENG 2710, 2711	3	F., Sp., Su.
	EENG 2710	Digital Logic Co-req: EENG 2711	3	F., Sp., Su.	EENG 2610	Circuit Analysis Pre-req: MATH 1720 Co/pre-req: PHYS 2220, 2240, EENG 2611	3	F., Sp., Su.
	EENG 2711	Digital Logic Lab Co-req: EENG 2710	1	F., Sp., Su.	EENG 2611	Circuit Analysis Lab Co/pre-req: EENG 2610	1	F., Sp., Su.
	Total Hours		14		Total Hours		16	
	CSCE 3010	Signals and Systems Pre-regs: EENG 2610, 2611, MATH 2730 or 3410	3	F.	CSCE 3020	Communications Systems Pre-reg: CSCE 3010	3	Sp.
	CSCE 3600	Systems Programming Pre-regs: CSCE 2100	3	F., Sp.	CSCE 3610	Intro to Computer Architecture Pre-regs: CSCE 2610 and CSCE 3730	3	Sp.
Three	CSCE 3730	Reconfigurable Logic Pre-req: CSCE 2610	3	F.	CSCE 3612	Embedded Systems Pre-regs: CSCE 2610, EENG 2710, 2711	3	Sp.
Year	EENG 3510	Electronics I Pre-req: EENG 2610, 2611	3	F., Sp. Su.	CSCE Specialty	Options at mydegreeaudit.unt.edu Must complete pre-regs	3	F., Sp.
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	Total Hours		15		Total Hours		15	
	CSCE 4910	SENIOR Design I Pre-reqs: CSCE 3612, EENG 3510	3	F.	CSCE 4915	Senior Design II Pre-req: CSCE 4910	3	Sp.
	CSCE Specialty	Options at mydegreeaudit.unt.edu Must complete pre-regs	3	F., Sp.	CSCE 4011	Engineering Ethics Pre-req: CSCE 3600	3	F., Sp.
Year Four	CSCE Specialty	Options at mydegreeaudit.unt.edu Must complete pre-regs	3	F., Sp.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
Year	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	MISC Elective	MISC. Elective to reach 121 Hours (If needed)	3	Varies
	Total Hours		15		Total Hours		15	

ENGL, TECM, MATH, CHEM, PHYS, EENG, and CSCE courses require minimum grade of "C" for completion and/or prerequisite. This is an unofficial sample schedule.

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You should meet with your advisor each term to discuss individual scheduling, program decisions, etc.

Computer Engineering – Pre-Calculus

2022-2023 Catalog: Sample Four-Year Schedule

	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
	MATH	Pre-Calculus	5	F., Sp.,	MATH	Calculus I	4	F., Sp.,
	1650	Pre-req: MATH 1100 or Test Placement		Su.	1710	Pre-req: MATH 1650 or Test Placement		Su.
	CHEM	General Chemistry I	3	F., Sp.,	CSCE	Computer Science I	4	F., Sp.,
	1410	Pre-req: MATH 1100 or higher		Su.	1030	Pre-req: MATH 1650 or Co-req: MATH 1710		Su.
ne	CHEM	General Chemistry I Lab	1	F., Sp.,	TECM	Technical Writing	3	F., Sp.,
Ō	1430	Co/Pre-req: CHEM 1410		Su.	2700	Pre-req: Communication Core		Su.
Year One	Comm. Core	Options on mydegreeaudit.unt.edu	3	F., Sp.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	Total Hours		17	
	Total			54.	110013			
	Hours		18					
	MATH	Calculus II	3	F., Sp.,	MATH	Multivariable Calculus	3	F., Sp.,
	1720	Pre-req: MATH 1710		Su.	2730	Pre-req: MATH 1720		Su.
	PHYS	Mechanics	3	F., Sp.,	PHYS	Electricity & Magnetism	3	F., Sp.,
	1710	Pre-req: MATH 1710		Su.	2220	Pre-reqs: MATH 1720 & PHYS 1710, 1730 Co-req: PHYS 2240		Su.
	PHYS	Mechanics Lab	1	F., Sp.,	PHYS	Electricity & Magnetism Lab	1	F., Sp.,
0	1730	Co/Pre-req: PHYS 1710		Su.	2240	Co/Pre-req: PHYS 2220		Su.
≥	CSCE	Computer Science II	3	F., Sp.,	CSCE	Foundations of Computing	3	F., Sp.,
Year Two	1040	Pre-req: CSCE 1030 Co/Pre-req: MATH 1710		Su.	2100	Pre-req: CSCE 1040		Su.
>	EENG	Digital Logic	3	F., Sp.,	EENG	Circuit Analysis	3	F., Sp.,
	2710	Co-req: EENG 2711		Su.	2610	Pre-req: MATH 1720 Co/pre-req: PHYS 2220, 2240, EENG 2611		Su.
	EENG	Digital Logic Lab	1	F., Sp.,	EENG	Circuit Analysis Lab	1	F., Sp.,
	2711	Co-req: EENG 2710		Su.	2611	Co/pre-req: EENG 2610		Su.
	Total Hours		14		Total Hours		14	
	Tiours		14		110013		14	
	MATH	Linear Algebra	3	F., Sp.,	MATH	Probability Models	3	F., Sp.,
	2700	Pre-req: MATH 1720		Su.	1780	Pre-req: MATH 1710		Su.
	CSCE	Foundations of Data Structures	3	F., Sp.,	CSCE	Systems Programming	3	F., Sp.
a)	2110	Pre-req: CSCE 1040		Su.	3600	Pre-reqs: CSCE 2100		
ē	CSCE	Assembly Lang. & Computer Org.	3	F., Sp.,	CSCE	Embedded Systems	3	Sp.
두	2610	Pre-reqs: CSCE 2100, Co/Pre-req: EENG 2710		Su.	3612	Pre-regs: CSCE 2610, EENG 2710, 2711	_	
Year Three	EENG	Electronics I	3	F., Sp.	CSCE	Options at mydegreeaudit.unt.edu	3	F., Sp.
¥	3510 University	Pre-req: EENG 2610, 2611 Options on mydegreeaudit.unt.edu	3	Su. F., Sp.,	Specialty	Must complete pre-reqs Options on mydegreeaudit.unt.edu	3	F., Sp.,
	Core	Options on mydegreeaddit.unt.edd	3	F., Sp., Su.	University Core	Options on mydegreeaddit.unt.edd	3	r., sμ., Su.
	Total Hours		15		Total Hours		15	
	Hours		1 13	1	Hours	<u> </u>	1.0	1
	CSCE 3010	Signals and Systems Pre-regs: EENG 2610, 2611, MATH 2730 or 3410	3	F.	CSCE 3020	Communications Systems Pre-req: CSCE 3010	3	Sp.
	CSCE 3730	Reconfigurable Logic Pre-req: CSCE 2610	3	F.	CSCE 3610	Intro to Computer Architecture Pre-regs: CSCE 2610 and CSCE 3730	3	Sp.
ž	CSCE	SENIOR Design I	3	F.	CSCE	Engineering Ethics	3	F., Sp.
P _O	4910	Pre-reqs: CSCE 3612, EENG 3510			4011	Pre-req: CSCE 3600		
Year Four	CSCE Specialty	Options at mydegreeaudit.unt.edu Must complete pre-reqs	3	F., Sp.	CSCE 4915	Senior Design II Pre-req: CSCE 4910	3	Sp.
	University	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	CSCE Specialty	Options at mydegreeaudit.unt.edu Must complete pre-regs	3	F., Sp.
	Total				Total	p p		
1	Hours		15	1	Hours		15	1

ENGL, TECM, MATH, CHEM, PHYS, EENG, and CSCE courses require minimum grade of "C" for completion and/or prerequisite. This is an unofficial sample schedule.

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Computer Engineering – College Algebra

2022-2023 Catalog: Sample Four-Year Schedule

	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
•	MATH	College Algebra	3	F., Sp.,	MATH	Pre-Calculus	5	F., Sp.,
	1100	Pre-req: TSI Completion		Su.	1650	Pre-req: MATH 1100 or Test Placement		Su.
Year One	Comm.	Options on mydegreeaudit.unt.edu	3	F., Sp.,	CHEM	General Chemistry I	3	F., Sp.,
ō	Core	Onting an anademan with out adv	2	Su.	1410	Pre-req: MATH 1100 or higher Technical Writing	1	Su.
ea	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	CHEM 1430	Pre-req: Communication Core	1	F., Sp., Su.
>	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	TECM	Technical Writing	3	F., Sp.,
	Core	options on mydegreeddalt.ant.edd		Su.	2700	Pre-reg: Communication Core		Su.
	Total				Total			
	Hours		12		Hours		12	
	MATH	Calculus I	4	F., Sp.,	MATH	Calculus II	3	F., Sp.,
	1710	Pre-req: MATH 1650 or Test Placement	·	Su.	1720	Pre-req: MATH 1710		Su.
	CSCE	Computer Science I	4	F., Sp.,	CSCE	Computer Science II	3	F., Sp.,
	1030	Pre-req: MATH 1650 or Co-req: MATH 1710		Su.	1040	Pre-req: CSCE 1030		Su.
0						Co/Pre-req: MATH 1710		
Year Two	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	PHYS	Mechanics	3	F., Sp.,
r	Core			Su.	1710	Pre-req: MATH 1710		Su.
ζes	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	PHYS	Mechanics Lab	1	F., Sp.,
	Core			Su.	1730	Co/Pre-req: PHYS 1710	_	Su.
	Total		12		University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	Hours		13		Core Total		-	Su.
					Hours		13	
				T = -		T	T _	
	MATH	Multivariable Calculus	3	F., Sp.,	MATH	Linear Algebra	3	F., Sp., Su.
	2730 PHYS	Pre-req: MATH 1720	3	Su.	2700	Pre-req: MATH 1720 Foundations of Data Structures	3	
	2220	Electricity & Magnetism Pre-regs: MATH 1720 & PHYS 1710, 1730	3	F., Sp., Su.	CSCE 2110	Pre-reg: CSCE 1040	3	F., Sp., Su.
	2220	Co-reg: PHYS 2240		Ju.	2110	116-164. CSCL 1040		ou.
	PHYS	Electricity & Magnetism Lab	1	F., Sp.,	CSCE	Assembly Lang. & Computer Org.	3	F., Sp.,
əə	2240	Co/Pre-req: PHYS 2220		Su.	2610	Pre-regs: CSCE 2100, Co/Pre-reg: EENG 2710		Su.
Year Three	CSCE	Foundations of Computing	3	F., Sp.,	EENG	Circuit Analysis	3	F., Sp.,
]r	2100	Pre-req: CSCE 1040		Su.	2610	Pre-req: MATH 1720		Su.
Ye						Co/pre-req: PHYS 2220, 2240, EENG 2611		
	EENG	Digital Logic	3	F., Sp.,	EENG	Circuit Analysis Lab	1	F., Sp.,
	2710	Co-req: EENG 2711		Su.	2611	Co/pre-req: EENG 2610		Su.
	EENG	Digital Logic Lab	1	F., Sp.,	Total		10	
	2711	Co-req: EENG 2710		Su.	Hours		13	
	Total Hours		14					
	110013		14					
	MATH	Probability Models	3	F., Sp.,	CSCE	Communications Systems	3	Sp.
	1780	Pre-req: MATH 1710		Su.	3020	Pre-reg: CSCE 3010		
	CSCE	Signals and Systems	3	F.	CSCE	Systems Programming	3	F., Sp.
ŭ	3010	Pre-reqs: EENG 2610, 2611, MATH 2730 or 3410			3600	Pre-regs: CSCE 2100		
Ĭ.	CSCE	Reconfigurable Logic	3	F.	CSCE	Intro to Computer Architecture	3	Sp.
Year Four	3730	Pre-reg: CSCE 2610		-	3610	Pre-regs: CSCE 2610 and CSCE 3730		
× ×	EENG 2510	Electronics I	3	F., Sp.	CSCE	Embedded Systems	3	Sp.
	3510 Total	Pre-req: EENG 2610, 2611		Su.	3612 Total	Pre-reqs: CSCE 2610, EENG 2710, 2711		
	Hours		12		Hours		12	
				•				
	CSCE	SENIOR Design I	3	F.	CSCE	Engineering Ethics	3	F., Sp.
	4910	Pre-regs: CSCE 3612, EENG 3510	_		4011	Pre-req: CSCE 3600		
۵.	CSCE	Options at mydegreeaudit.unt.edu	3	F., Sp.	CSCE	Senior Design II	3	Sp.
ķ	Specialty	Must complete pre-regs	2	L C-	4915	Pre-reg: CSCE 4910	-	r c-
Year Five	CSCE	Options at mydegreeaudit.unt.edu Must complete pre-regs	3	F., Sp.	CSCE Specialty	Options at mydegreeaudit.unt.edu Must complete pre-regs	3	F., Sp.
ea	Specialty University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
_	Core	Options on mydegreeaddit.dift.edd	3	F., Sp., Su.	Core	Options on mydegreeaddit.unt.edd	3	r., sp., Su.
	Total				Total			
	Hours		12		Hours		12	
	<u>i </u>		l	1	I		1	

ENGL, TECM, MATH, CHEM, PHYS, EENG, and CSCE courses require minimum grade of "C" for completion and/or prerequisite. This is an unofficial sample schedule.

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Computer Science

Bachelor of Science (B.S.) degree with a major in Computer Science
Department of Computer Science and Engineering, Discovery Park (NTDP) F-201; (940) 565-2767

University Core

COMMUNICATION

1 Course (3 Hours) – see mydegreeaudit.unt.edu
Grade of "C" or better is required

AMERICAN HISTORY I

☐ 1 Course (3 Hours) chosen from HIST 2610 or HIST 2675

AMERICAN HISTORY II

☐ 1 Course (3 Hours) chosen from HIST 2620 or HIST 2685

FEDERAL GOVERNMENT/POLITICAL SCIENCE

□ 1 Course (3 Hours) chosen from PSCI 2305 or PSCI 2315

STATE GOVERNMENT/POLITICAL SCIENCE

□ 1 Course (3 Hours) chosen from PSCI 2306 or PSCI 2316

CREATIVE ARTS

☐ 1 Course (3 Hours) – see mydegreeaudit.unt.edu

LANGUAGE, PHILOSOPHY, AND CULTURE

□ 1 Course (3 Hours) – see mydegreeaudit.unt.edu

SOCIAL AND BEHAVIORAL SCIENCES

□ 1 Course (3 Hours) – see mydegreeaudit.unt.edu

Major Requirements

Grades of C or better

TECHNICAL COMMUNICATIONS

- ☐ TECM 2700, Technical Writing (3 Hours)
- ☐ 1 Advanced TECM course chosen from:

TECM 4180, Advanced Technical Writing (3 Hours)

TECM 4190, Technical Editing

TECM 4200, Research Methods (3 Hours)

TECM 4250, Writing Procedures and Manuals (3 Hours)

TECM 4700, Writing in the Sciences (3 Hours)

MATHEMATICS

- ☐ MATH 1710, Calculus I (4 Hours)
- MATH 1720, Calculus II (3 Hours)
- MATH 1780, Probability Models (3 Hours)
- MATH 2700, Linear Algebra (3 Hours)

SCIENCES - PHYSICS

- PHYS 1710, Mechanics (3 Hours) &
 - PHYS 1730 Mechanics Lab (1 Hour)
- PHYS 2220, Electricity & Magnetism (3 Hours) & PHYS 2240, Electricity & Magnetism Lab (1 Hour)

SCIENCES - BIOLOGY AND/OR CHEMISTRY

- 1 Lab science and lab chosen from list options below
- 1 Lab science and lab chosen from list options below

CHEM 1410, General Chemistry I (3 Hours) ${f and}$

CHEM 1430, General Chemistry I Lab (1 Hour)

CHEM 1420, General Chemistry II (3 Hours) and

CHEM 1440, General Chemistry II Lab (1 Hour) BIOL 1710, Biology I (3 Hours)

BIOL 1720, Biology II (3 Hours)

BIOL 1760, Biology Lab (2 Hours)

Major Requirements

Grades of C or better

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, Foundations of Computing (3 Hours)
- □ CSCE 2110, Foundations of Data Structures (3 Hours)
- ☐ CSCE 2610, Assembly Lang. & Computer Organization (3 Hours)
- ☐ CSCE 3110, Data Structures (3 Hours)
- □ CSCE 3444, Software Engineering (3 Hours)
- ☐ CSCE 3600, Principles of Systems Programming (3 Hours)
- ☐ CSCE 4010, Social Issues in Computing (3 Hours)
- ☐ CSCE 4110, Algorithms (3 Hours)
- □ CSCE 4901, Capstone I (3 Hours) *
- □ CSCE 4902, Capstone II (3 Hours) *

COMPUTER SCIENCE AND ENGINEERING CORE ELECTIVES

- □ 1 CSCE Core course (3 Hours) chose from list options below
- ☐ 1 CSCE Core course (3 Hours) chose from list options below

CSCE 3530, Introduction to Computer Networks (3 Hours)

CSCE 4115, Formal Lang., Automata and Compatibility (3 Hours)

CSCE 4430, Programming Languages (3 Hours)

CSCE 4600, Introduction to Operating Systems (3 Hours)

CSCE 4650, Introduction to Compilation Techniques (3 Hours)

COMPUTER SCIENCE AND ENGINEERING BREADTH ELECTIVES

- □ 1 CSCE Breadth course (3 Hours) chose from list options below
- $f \square$ 1 CSCE Breadth course (3 Hours) chose from list options below

CSCE 3550, Foundations of Computer Security (3 Hours)

CSCE 4201, Introduction to Artificial Intelligence (3 Hours)

CSCE 4210, Game Programming I (3 Hours)

CSCE 4230, Introduction to Computer Graphics (3 Hours)

CSCE 4240, Introduction to Digital Image Processing (3 Hours)

CSCE 4290, Introduction to Natural Language Processing (3 Hours)

CSCE 4350, Fundamentals of Database Systems (3 Hours)

CSCE 4460, Software Testing and Empirical Methodologies (3 Hours)

COMPUTER SCIENCE AND ENGINEERING FREE ELECTIVES:

- □ CSCE 3*** or 4*** (3 Hours) course not already applied above
- □ CSCE 3*** or 4*** (3 Hours) course not already applied above

Maximum of 6 hours may be taken from CSCE 4890, 4920, 4930, 4940, and 4950.

*CSCE 4999, Senior Thesis (3 Hours) may replace Capstones with an addition of a CSCE 3*** or 4*** (3 Hour) elective course

Computer Science – Calculus I

2022-2023 Catalog: Sample Four-Year Schedule

	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
	MATH 1710	Calculus I Pre-reg: MATH 1650 or Test Placement	4	F., Sp., Su.	MATH 1720	Calculus II Pre-reg: MATH 1710	3	F., Sp., Su.
ne	CHEM 1410	General Chemistry I Pre-req: MATH 1100 or higher	3	F., Sp., Su.	CSCE 1040	Computer Science II Pre-req: CSCE 1030 Co/Pre-req: MATH 1710	3	F., Sp., Su.
Year One	CHEM 1430	General Chemistry I Lab Co/Pre-req: CHEM 1410	1	F., Sp., Su.	TECM 2700	Technical Writing Pre-reg: Communication Core	3	F., Sp., Su.
>	CSCE 1030	Computer Science I Pre-req: MATH 1650 or Co-req: MATH 1710	4	F., Sp.	BIOL 1710	Biology I	3	F., Sp., Su.
	Comm. Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	BIOL 1760	BIOL Lab Co/Pre-req: BIOL 1710	2	F., Sp., Su.
	Total Hours		15		Total Hours		14	
	MATH 2700	Linear Algebra Pre-reg: MATH 1720	3	F., Sp., Su.	MATH 1780	Probability Models Pre-reg: MATH 1710	3	F., Sp., Su.
	PHYS 1710	Mechanics Pre-reg: MATH 1710	3	F., Sp., Su.	PHYS 2220	Electricity & Magnetism Pre-regs: MATH 1720 & PHYS 1710/1730	3	F., Sp., Su.
0	PHYS 1730	Mechanics Lab Co/Pre-reg: PHYS 1710	1	F., Sp., Su.	PHYS 2240	Electricity & Magnetism Lab Co/Pre-req: PHYS 2220	1	F., Sp., Su.
Year Two	CSCE 2100	Foundations of Computing Pre-req: CSCE 1040	3	F., Sp., Su.	CSCE 2110	Foundations of Data Structures Pre-req: CSCE 1040	3	F., Sp., Su.
Yea	EENG 2710	Digital Logic Design	3	F., Sp., Su.	CSCE 2610	Assembly Lang. & Computer Org. Pre-regs: CSCE 2100 Co/Pre-reg: EENG 2710	3	F., Sp., Su.
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	Total Hours		16		Total Hours		16	
	CSCE 3110	Data Structures Pre-reg: CSCE 2100, 2110	3	F., Sp., Su.	CSCE 3444	Software Engineering Pre-regs: CSCE 3110	3	F., Sp., Su.
	CSCE 3600	Systems Programming Pre-regs: CSCE 2100	3	F., Sp.	CSCE 4110	Analysis of Algorithms Pre-regs: CSCE 3110	3	F., Sp., Su.
hree	CSCE Elective	Options at mydegreeaudit.unt.edu Must complete pre-regs	3	F., Sp., Su.	CSCE Elective	Options at mydegreeaudit.unt.edu Must complete pre-regs	3	F., Sp., Su.
Year Three	TECM 4***	Options at mydegreeaudit.unt.edu Must complete pre-regs	3	F., Sp.	CSCE Elective	Options at mydegreeaudit.unt.edu Must complete pre-regs	3	F., Sp.
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	Total Hours		15		Total Hours		15	
	CSCE 4010	Social Issues	3	F., Sp., Su.	CSCE 4902	Capstone II Pre-reg: CSCE 4901	3	Sp.
	CSCE 4901	Pre-reqs: CSCE 3600 Capstone I Pre-reqs: TECM 2700, CSCE 3444 Co/Pre-req: CSCE 4110	3	F.	CSCE Elective	Options at mydegreeaudit.unt.edu Must complete pre-reqs	3	F., Sp.
Year Four	CSCE Elective	Options at mydegreeaudit.unt.edu Must complete pre-regs	3	F., Sp.	CSCE Elective	Options at mydegreeaudit.unt.edu Must complete pre-reqs	3	F., Sp., Su.
Year	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp.
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	Misc. Elective	Misc. Elective to reach 120 hours (if needed)	3	F., Sp., Su.
	Total Hours		15		Total Hours		15	

ENGL, TECM, MATH, CHEM, PHYS, BIOL, EENG, and CSCE require minimum grade of "C" for completion and/or prerequisite. This is an unofficial sample schedule.

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Computer Science – Pre-Calculus

2022-2023 Catalog: Sample Four-Year Schedule

	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
	MATH	Pre-Calculus	5	F., Sp.,	MATH	Calculus I	4	F., Sp.,
	1650	Pre-reg: MATH 1100 or Test Placement		Su.	1710	Pre-req: MATH 1650 or Test Placement		Su.
	CHEM	General Chemistry I	3	F., Sp.,	CSCE	Computer Science I	4	F., Sp.,
e e	1410	Pre-req: MATH 1100 or higher		Su.	1030	Pre-req: MATH 1650 or Co-req: MATH 1710		Su.
Year One	CHEM	General Chemistry I Lab	1	F., Sp.,	TECM	Technical Writing	3	F., Sp.,
ar	1430	Co/Pre-req: CHEM 1410		Su.	2700	Pre-req: Communication Core		Su.
Ϋ́	Comm. Core	Options on mydegreeaudit.unt.edu	3	F., Sp.	BIOL 1710	Biology I	3	F., Sp., Su.
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	BIOL 1760	BIOL Lab Co/Pre-reg: BIOL 1710	2	F., Sp., Su.
	Total				Total	, ,		
	Hours		15		Hours		16	
			•		•		•	•
	MATH	Calculus II	3	F., Sp.,	MATH	Probability Models	3	F., Sp.,
	1720	Pre-req: MATH 1710		Su.	1780	Pre-req: MATH 1710		Su.
	PHYS	Mechanics	3	F., Sp.,	PHYS	Electricity & Magnetism	3	F., Sp.,
	1710	Pre-req: MATH 1710		Su.	2220	Pre-regs: MATH 1720 & PHYS 1710/1730		Su.
	PHYS	Mechanics Lab	1	F., Sp.,	PHYS	Electricity & Magnetism Lab	1	F., Sp.,
0	1730	Co/Pre-req: PHYS 1710		Su.	2240	Co/Pre-req: PHYS 2220		Su.
≥	CSCE	Computer Science II	3	F., Sp.,	CSCE	Foundations of Computing	3	F., Sp.,
Year Two	1040	Pre-req: CSCE 1030		Su.	2100	Pre-req: CSCE 1040		Su.
ĕ		Co/Pre-req: MATH 1710						
	EENG 2710	Digital Logic Design	3	F., Sp., Su.	CSCE 2110	Foundations of Data Structures Pre-req: CSCE 1040	3	F., Sp., Su.
	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	Core			Su.	Core			Su.
	Total				Total			
	Hours		16		Hours		16	
	NAATU		1 2	Г С-	CCCE			F C
	MATH 2700	Linear Algebra	3	F., Sp., Su.	CSCE 3444	Software Engineering	3	F., Sp., Su.
		Pre-req: MATH 1720	3			Pre-regs: CSCE 3110	3	
	CSCE 2610	Assembly Lang. & Computer Org. Pre-regs: CSCE 2100, Co/Pre-reg: EENG 2710	3	F., Sp.	CSCE 4110	Analysis of Algorithms	3	F., Sp., Su.
o o	CSCE		3	L C2	CSCE	Pre-regs: CSCE 3110	3	F., Sp.,
Year Three	3110	Data Structures	3	F., Sp., Su.	Elective	Options at mydegreeaudit.unt.edu	3	F., Sp., Su.
È		Pre-req: CSCE 2100, 2110				Must complete pre-regs		
ar	CSCE 3600	Systems Programming	3	F., Sp.	CSCE Elective	Options at mydegreeaudit.unt.edu	3	F., Sp.
۶		Pre-regs: CSCE 2100				Must complete pre-reqs		
	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	CSCE	Options at mydegreeaudit.unt.edu	3	F., Sp.,
	Core			Su.	Elective	Must complete pre-reqs		Su.
	Total				Total			
	Hours		15		Hours		15	
	CCCE	Capial Issues	1 2	L C-	CCCE	Constant II	1 2	C
	CSCE 4010	Social Issues	3	F., Sp., Su.	CSCE 4902	Capstone II Pre-reg: CSCE 4901	3	Sp.
	CSCE	Pre-regs: CSCE 3600	3	F.	CSCE	<u> </u>	3	F., Sp.
	4901	Capstone I Pre-regs: TECM 2700, CSCE 3444	3	г.	Elective	Options at mydegreeaudit.unt.edu	3	r., sp.
	4301	· · · · · · · · · · · · · · · · · · ·			Liective	Must complete pre-reqs		
5	CSCE	Co/Pre-req: CSCE 4110	3	F., Sp.	CSCE	Onting at more designation with a div	3	F., Sp.,
P	Elective	Options at mydegreeaudit.unt.edu	3	ι., ομ.	Elective	Options at mydegreeaudit.unt.edu	3	Γ., 3ρ., Su.
Year Four	TECM	Must complete pre-reqs	3	E C~		Must complete pre-regs	2	
Ye	4***	Options at mydegreeaudit.unt.edu Must complete pre-reqs	3	F., Sp.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp.
	University Core	Options at mydegreeaudit.unt.edu	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
i .	Tatal				Total		1	Ì
	Total				Total			

ENGL, TECM, MATH, CHEM, PHYS, BIOL, EENG, and CSCE require minimum grade of "C" for completion and/or prerequisite. This is an unofficial sample schedule.

Requirements, prerequisites, corequisites, and term offerings may change. You should check your degree audit at mydegreeaudit.unt.edu each term.

You should meet with your advisor each term to discuss individual scheduling, program decisions, etc.

Computer Science – College Algebra

2022-2023 Catalog: Sample Five-Year Schedule

	Fall	Course Title	Credit	Term(s)	Spring	Course Title	Credit	Term(s)
	Semester MATH	College Algebra	Hours 3	Offered F., Sp.,	Semester MATH	Pre-Calculus	Hours 5	Offered F., Sp.,
	1100	Pre-reg: TSI Completion	3	Γ., 3ρ., Su.	1650	Pre-reg: MATH 1100 or Test Placement		Γ., 3ρ., Su.
e	Comm.	Options on mydegreeaudit.unt.edu	3	F., Sp.,	CHEM	General Chemistry I	3	F., Sp.,
One	Core			Su.	1410	Pre-req: MATH 1100 or higher		Su.
Year	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	CHEM	General Chemistry I Lab	1	F., Sp.,
×	Core			Su.	1430	Co/Pre-req: CHEM 1410		Su.
	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	TECM	Technical Writing	3	F., Sp.,
	Core			Su.	2700	Pre-req: Communication Core		Su.
	Total Hours		12		Total Hours		12	
			l					l
	MATH	Calculus I	4	F., Sp.,	MATH	Calculus II	3	F., Sp.,
	1710	Pre-req: MATH 1650 or Test Placement		Su.	1720	Pre-req: MATH 1710		Su.
	CSCE	Computer Science I	4	F., Sp.,	CSCE	Computer Science II	3	F., Sp.,
	1030	Pre-req: MATH 1650 or Co-req: MATH 1710		Su.	1040	Pre-req: CSCE 1030, Co/Pre-req: MATH 1710		Su.
8	BIOL	Biology I	3	F., Sp.,	PHYS	Mechanics	3	F., Sp.,
Year Two	1710	Biology 1		Su.	1710	Pre-reg: MATH 1710		Su.
ear	BIOL	BIOL Lab	2	F., Sp.,	PHYS	Mechanics Lab	1	F., Sp.,
>	1760	Co/Pre-req: BIOL 1710		Su.	1730	Co/Pre-req: PHYS 1710		Su.
	Total				University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	Hours		13		Core			Su.
					Total			
					Hours		13	
	MATH	Linear Algebra	3	F., Sp.,	MATH	Probability Models	3	F., Sp.,
	2700	Pre-reg: MATH 1720		Su.	1780	Pre-regs: MATH 1710		Su.
	CSCE	Foundations of Computing	3	F., Sp.	CSCE	Foundations of Data Structures	3	F., Sp.,
	2100	Pre-regs: CSCE 1040		•	2110	Pre-regs: CSCE 1040		Su.
e e	EENG	Digital Logic Design	3	F., Sp.,	CSCE	Assembly Lang. & Computer Org.	3	F., Sp.,
يّ	2710			Su.	2610	Pre-reqs: CSCE 2100, Co/Pre-req: EENG		Su.
Year Three	DLIVC	Flacturate Q Manageticas	2	Г.С.	I latina valtor	2710	3	Г С-
l ea	PHYS 2220	Electricity & Magnetism Pre-regs: MATH 1720 & PHYS 1710/1730	3	F., Sp.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp.
	PHYS	Electricity & Magnetism Lab	1	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	2240	Co/Pre-reg: PHYS 2220	_	Su.	Core	options on mydeg, codddinantiaedd		Su.
	Total				Total			
	Hours		1		Hours		15	
	T	T						
	CSCE 3110	Data Structures Pre-reg: CSCE 2100, 2110	3	F., Sp.,	CSCE 3444	Software Engineering Pre-regs: CSCE 3110	3	F., Sp.
	CSCE	Systems Programming	3	Su. F., Sp.,	CSCE	Social Issues	3	F., Sp.
Ξ.	3600	Pre-reqs: CSCE 2100	,	Su.	4010	Pre-reqs: CSCE 3600		i ., Jp.
Year Four	CSCE	Options at mydegreeaudit.unt.edu	3	F., Sp.	CSCE	Analysis of Algorithms	3	F., Sp.,
a	Elective	Must complete pre-reqs		<u></u> '	4110	Pre-regs: CSCE 3110	<u> </u>	Su.
Υe	TECM	Options at mydegreeaudit.unt.edu	3	F., Sp.	CSCE	Options on mydegreeaudit.unt.edu	3	F., Sp.
	4***	Must complete pre-reqs		1	Elective			
	Total		4.2		Total		12	
	Hours		12		Hours		12	
	CSCE	Capstone I	3	F.	CSCE	Capstone II	3	Sp.
	4901	Pre-regs: TECM 2700, CSCE 3444		•	4902	Pre-req: CSCE 4901		- 14.
		Co/Pre-req: CSCE 4110				•		
a	CSCE	Options at mydegreeaudit.unt.edu	3	F., Sp.,	CSCE	Options at mydegreeaudit.unt.edu Must	3	F., Sp.
ΙŽ	Elective	Must complete pre-reqs		Su.	Elective	complete pre-reqs		
Year Five	CSCE	Options at mydegreeaudit.unt.edu	3	F., Sp.	University	Options at mydegreeaudit.unt.edu	3	F., Sp.,
Υe	Elective	Must complete pre-reqs	1	Г С-	Core	Ontions on mudographicality and adv	-	Su.
	CSCE Elective	Options at mydegreeaudit.unt.edu Must complete pre-regs	3	F., Sp.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp.
	Total	Musi complete pre-regs	+ -		Total		+	
	Hours		12		Hours		12	
			1 -			1		

Construction Engineering Technology

Bachelor of Science in Engineering Technology (B.S.E.T) degree with a major in Construction Engineering Technology Department of Mechanical Engineering, Discovery Park (NTDP) F-115; (940) 565-2400

University Core

COMMUNICATION

☐ 1 Course (3 Hours) – see mydegreeaudit.unt.edu Grade of "C" or better is required

AMERICAN HISTORY I

□ 1 Course (3 Hours) chosen from HIST 2610 or HIST 2675

AMERICAN HISTORY II

□ 1 Course (3 Hours) chosen from HIST 2620 or HIST 2685

FEDERAL GOVERNMENT/POLITICAL SCIENCE

□ 1 Course (3 Hours) chosen from PSCI 2305 or PSCI 2315

STATE GOVERNMENT/POLITICAL SCIENCE

□ 1 Course (3 Hours) chosen from PSCI 2306 or PSCI 2316

CREATIVE ARTS

□ 1 Course (3 Hours) – see mydegreeaudit.unt.edu

LANGUAGE, PHILOSOPHY, AND CULTURE

□ 1 Course (3 Hours) – see mydegreeaudit.unt.edu

SOCIAL AND BEHAVIORAL SCIENCES

□ ECON 1100 (3 Hours) – see mydegreeaudit.unt.edu

Major Requirements

Grades of C or better

TECHNICAL COMMUNICATIONS

■ TECM 2700, Technical Writing (3 Hours)

MATHEMATICS

- MATH 1710, Calculus I (4 Hours)
- MATH 1720, Calculus II (3 Hours)

SCIENCES

- PHYS 1710, Mechanics (3 Hours) & PHYS 1730 Mechanics Lab (1 Hour)
- PHYS 2220, Electricity & Magnetism (3 Hours) & PHYS 2240, Electricity & Magnetism Lab (1 Hour)
- □ CHEM 1410, General Chemistry I (3 Hours) & CHEM 1430, General Chemistry I Lab (1 Hour)

MISC. Elective

 1 course (3 Hours) may be required to reach 123 total hours (check with advisor)

Major Requirements

Grades of C or better

CONSTRUCTION ENGINEERING TECHNOLOGY

- □ CNET 1160, Construction Methods and Materials (3 Hours)
- CNET 2180, Building Construction Techniques (3 Hours)
- ☐ CNET 2300, Construction Graphics and Modeling (3 Hours
- □ CNET 3150, Construction Contract Documents (3 Hours)
- □ CNET 3160, Construction Cost Estimating (3 Hours)
- □ CNET 3190, Construction Scheduling (3 Hours)
- ☐ CNET 3410, Occupational Safety and Liability (3 Hours)
- ☐ CNET 3430, Structural Analysis (3 Hours)
- ☐ CNET 3440, Steel Structures (3 Hours)
- □ CNET 3460, Soils and Foundations (3 Hours)
- CNET 3480, Structural Design with Concrete, Timber, etc. (3 Hours)
- CNET 4170, Construction Management (3 Hours)
- ☐ CNET 4180, Problems in Project Management (3 Hours)
- ☐ CNET 4190, Quality Management in Construction (3 Hours)
- □ CNET 4620, Adv. Design in Cold-Formed Steel Structures (3 Hours)
- ☐ CNET 4780, Senior Design I (1 Hour)
- □ CNET 4790, Senior Design II (3 Hours)
- ENGR 1030, Technical Systems (3 Hours)
- ENGR 2301, Statics (3 Hours)
- ENGR 2332, Mechanics of Materials (4 Hours)

BUSINESS

- □ ACCT 2010, Accounting Principles I (3 Hours)
- BLAW 3430, Legal and Ethical Environment of Business (3 Hours)
- ☐ BLAW 4770, Real Estate Law and Contracts (3 Hours)
- □ ECON 1100, Microeconomics (3 Hours)
- □ DSCI 2710, Data Analysis with Spreadsheets (3 Hours)

TECHNICAL ELECTIVES

☐ Any level course chosen from appropriate elective options (4 Hours)

Electives must be chosen from the subjects of business, engineering, mathematics, and science. Check with an advisor for appropriate technical elective course options. Suggestions include, but are not limited to:

MATH 1600	CNET 3450	ACCT 2020	CHEM 1420
MATH 1610	CNET 4190	LSCM 3960	PHYS 3010
MATH 1650	CNET 4230	MKTG 3010	
MATH 2700	CSCE 1030	MKTG 3651	
MATH 2730	ENGR 1304	MGMT 3330	
MATH 3410	ENGR 2302	MGMT 3721	
MATH 3680	ENGR 3450	MGMT 3820	
	MFET 3110	MGMT 3850	
		MGMT 4470	

Construction Engineering Technology – Calculus I

2022-2023 Catalog: Sample Four-Year Schedule

	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
	MATH 1710	Calculus I Pre-reg: MATH 1650 or Test Placement	4	F., Sp., Su.	MATH 1720	Calculus II Pre-req: MATH 1710	3	F., Sp., Su.
	CHEM 1410	General Chemistry I Pre-req: MATH 1100 or higher	3	F., Sp., Su.	PHYS 1710	Mechanics Pre-reg: MATH 1710	3	F., Sp., Su.
One	CHEM 1430	General Chemistry I Lab Co/Pre-req: CHEM 1410	1	F., Sp., Su.	PHYS 1730	Mechanics Lab Co/Pre-req: PHYS 1710	1	F., Sp., Su.
Year One	CNET 1160	Construction Methods and Materials	3	F.	CNET 2180	Building Construction Techniques Pre-reg: CNET 1160	3	Sp.
	ENGR 1030	Technological Systems	3	F., Sp.	TECM 2700	Technical Writing Pre-req: Communication Core	3	F., Sp., Su.
	Comm. Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp. Su.
	Total Hours		17		Total Hours		16	
	PHYS 2220	Electricity and Magnetism Pre-regs: MATH 1720, PHYS 1710, 1730	3	F., Sp., Su.	ACCT 2010	Accounting Principles I Pre-reg: ECON 1100	3	F., Sp., Su.
	PHYS 2240	Electricity and Magnetism Lab Co-req/pre-req: PHYS 2220	1	F., Sp., Su.	CNET 4190	Quality Management in Construction Pre-req: CNET 2180	3	Sp.
9	CNET 2300	Construction Graphics and Modeling	3	F.	ENGR 2332	Mechanics and Materials Pre-reg: ENGR 2301	4	F., Sp., Su.
Year Two	ENGR 2301	Statics Pre-regs: PHYS 1710, 1730	3	F., Sp., Su.	DSCI 2710	Data Analysis with Spreadsheets Pre-req: College Math Readiness	4	F., Sp., Su.
¥	ECON 1100	Microeconomics Fulfills Social and Behavioral Science Core	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	Total Hours		16		Total Hours		19	
	CNET 3150	Construction Contract Documents Pre-reg: CNET 2180	3	F.	CNET 3190	Construction Scheduling Pre-reg: CNET 3160	3	Sp.
	CNET 3160	Construction Cost Estimating Pre-reg: CNET 2180	3	F.	CNET 3440	Steel Structures Pre-reg: CNET 3430	3	Sp.
rhree	CNET 3430	Structural Analysis Pre-reg: ENGR 2332	3	F.	CNET 3460	Soils and Foundations Pre-reg: CNET 2180, ENGR 2332	3	Sp.
Year Three	BLAW 3430	Legal and Ethical Environment of BUSI Pre-req: PSCI 2305, 2306	3	F., Sp., Su.	CNET 3410	Occupational Safety and Liability	3	Sp.
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	Total Hours		15		Total Hours		15	
	CNET 3480	Structural Design with Concrete, Timber, etc. Pre-req: CNET 2180, 3430	3	F.	CNET 4180	Problems in Project Management Pre-req: CNET 4170	3	Sp.
	CNET 4170	Construction Management Pre-req: CNET 3160	3	F.	CNET 4620	Adv. Design in Cold-Formed Steel Struc. Pre-req: CNET 3430	3	F., Sp.
Four	CNET 4780	Senior Design I Pre-req: Senior Class., CNET 3190, 3440, 3460	1	F.	CNET 4790	Senior Design II Pre-req: CNET 4780	3	F., Sp.
Year Four	BLAW 4770	Real Estate Law and Contracts	3	F., Sp.	Technical Elective	Options at mydegreeaudit.unt.edu Must complete pre-regs	4	Varies
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	MISC Elective	MISC. Elective to reach 124 Hours (If needed)	3	F., Sp., Su.
	Total Hours		13		Total Hours		16	

ENGL, TECM, MATH, CHEM, PHYS, ENGR, CNET, and Business Courses require a minim grade of "C" for completion and/or prerequisites. This is an unofficial sample schedule. Requirements, prerequisites, corequisites, and term offerings may change. You should check your degree audit at mydegreeaudit.unt.edu each term. You should meet with your advisor each term to discuss individual scheduling, program decisions, etc.

Construction Engineering Technology – Pre-Calculus

2022-2023 Catalog: Sample Five-Year Schedule

	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
	MATH	Pre-Calculus	5	F., Sp.,	MATH	Calculus I	4	F., Sp.,
	1650 CNET	Pre-req: MATH 1100 or Test Placement Construction Methods and Materials	3	Su. F.	1710 CNET	Pre-req: MATH 1650 or Test Placement Building Construction Techniques	3	Su.
ne	1160				2180	Pre-req: CNET 1160		Sp.
Year One	ENGR 1030	Technological Systems	3	F., Sp.	CHEM 1410	General Chemistry I Pre-reg: MATH 1100 or higher	3	F., Sp., Su.
Yea	Comm.	Options on mydegreeaudit.unt.edu	3	F., Sp.,	CHEM	General Chemistry I Lab	1	F., Sp.,
	Core	, ,		Su.	1430	Co/Pre-req: CHEM 1410		Su.
	Total				TECM	Technical Writing	3	F., Sp.,
	Hours		14		2700 Total	Pre-req: Communication Core		Su.
					Hours		14	
	MATH	Calculus II	3	Γ (, ,	TNCD	Station	3	L C2
	1720	Pre-req: MATH 1710	3	F., Sp., Su.	ENGR 2301	Statics Pre-regs: PHYS 1710, 1730	3	F., Sp., Su.
	PHYS	Mechanics	3	F., Sp.,	PHYS	Electricity and Magnetism	3	F., Sp.,
	1710	Pre-req: MATH 1710		Su.	2220	Pre-reqs: MATH 1720, PHYS 1710, 1730		Su.
8	PHYS	Mechanics Lab	1	F.	PHYS	Electricity and Magnetism Lab	1	F., Sp.,
ļ.	1730 CNET	Co/Pre-req: PHYS 1710 Construction Graphics and Modeling	3	F., Sp.,	2240 University	Co-req/pre-req: PHYS 2220 Options on mydegreeaudit.unt.edu	3	Su. F., Sp.,
Year Two	2300	construction Graphics and Wedening		Su.	Core	options on mydegreeddaltiantiedd		Su.
•	ECON	Microeconomics	3	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	1100	Fulfills Social and Behavioral Science Core		Su.	Core			Su.
	Total Hours		13		Total Hours		13	
	110013		13		Hours		13	
	ENGR 2332	Mechanics and Materials	3	F., Sp., Su.	DSCI	Data Analysis with Spreadsheets	4	F., Sp.
	University	Pre-req: ENGR 2301 Options on mydegreeaudit.unt.edu	3	F., Sp.,	2710 CNET	Pre-req: College Math Readiness Occupational Safety and Liability	3	Sp.
ree	Core			Su.	3410	, ,		·
Year Three	ACCT 2010	Accounting Principles I Pre-req: ECON 1100	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
Yea	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	Total				Total			
	Hours		12		Hours		12	
·	CNET	Construction Contract Documents	3	F.	CNET	Construction Scheduling	3	Sp.
	3150	Pre-req: CNET 2180			3190	Pre-req: CNET 3160		
_	CNET	Construction Cost Estimating	3	F.	CNET	Steel Structures	3	F., Sp.
our.	3160 CNET	Pre-req: CNET 2180 Structural Analysis	3	F.	3440 CNET	Pre-req: CNET 3430 Soils and Foundations	3	F., Sp.
Year Fo	3430	Pre-reg: ENGR 2332		٠.	3460	Pre-reg: CNET 2180, ENGR 2332		1., Sp.
Ϋ́	BLAW	Legal and Ethical Environment of BUSI	3	F., Sp.	Technical	Options at mydegreeaudit.unt.edu	3	Varies
	3430	Pre-req: PSCI 2305, 2306			Elective	Must complete pre-reqs		
	Total Hours		12		Total Hours		12	
			II.		•		II.	
	CNET 3480	Structural Design with Concrete, Timber, etc. Pre-req: CNET 2180, 3430	3	F.	CNET 4180	Problems in Project Management Pre-req: CNET 4170	3	Sp.
	CNET	Construction Management	3	F.	CNET	Quality Management in Construction	3	Sp.
a .	4170	Pre-req: CNET 3160			4190	Pre-reg: CNET 2180		
Year Five	CNET 4780	Senior Design I Pre-req: Senior Class., CNET 3190, 3440, 3460	1	F.	CNET 4620	Adv. Design in Cold-Formed Steel Struc. Pre-req: CNET 3430	3	F., Sp.
Year	BLAW 4770	Real Estate Law and Contracts	3	F., Sp.	CNET 4790	Senior Design II Pre-req: CNET 4780	3	F., Sp.
	MISC	MISC. Elective to reach 124 Hours	3	Varies	Total			
	Elective	(If needed)			Hours		12	
	Total		4.3					
	Hours		13					

ENGL, TECM, MATH, CHEM, PHYS, ENGR, CNET, and Business Courses require a minim grade of "C" for completion and/or prerequisite. This is an unofficial sample schedule. Requirements, prerequisites, corequisites, and term offerings may change. You should check your degree audit at mydegreeaudit.unt.edu each term. You should meet with your advisor each term to discuss individual scheduling, program decisions, etc.

Construction Engineering Technology – College Algebra

2022-2023 Catalog: Sample Five-Year Schedule

	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
	MATH	College Algebra	3	F., Sp.,	MATH	Pre-Calculus	5	F., Sp.,
One	1100 CNET 1160	Pre-req: TSI Completion Construction Methods and Materials	3	Su. F.	1650 CNET 2180	Pre-req: MATH 1100 or Test Placement Building Construction Techniques Pre-req: CNET 1160	3	Su. Sp.
Year One	ENGR 1030	Technological Systems	3	F., Sp.	CHEM 1410	General Chemistry I Pre-reg: MATH 1100 or higher	3	F., Sp., Su.
>	Comm.	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	CHEM 1430	General Chemistry I Lab Co/Pre-reg: CHEM 1410	1	F., Sp., Su.
	Total Hours		12	Ju.	Total Hours	Coyric reg. CIEW 1410	12	Ju.
	110013				110013			
	MATH 1710	Calculus I Pre-req: MATH 1650 or Test Placement	4	F., Sp., Su.	MATH 1720	Calculus II Pre-req: MATH 1710	3	F., Sp., Su.
	CNET 2300	Construction Graphics and Modeling	3	F.	PHYS 1710	Mechanics Pre-req: MATH 1710	3	Sp.
Year Two	TECM 2700	Technical Writing: Pre-req: Communication Core	3	F., Sp.	PHYS 1730	Mechanics Lab Co/Pre-req: PHYS 1710	1	F., Sp., Su.
Yea	ECON 1100	Microeconomics Fulfills Social and Behavioral Science Core	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	Total Hours		13		University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
			1		Total Hours		13	
	· · · · · · · · · · · · · · · · · · ·		1		1		1	
	ENGR 2301	Statics Pre-regs: PHYS 1710, 1730	3	F., Sp., Su.	ENGR 2332	Mechanics and Materials Pre-req: ENGR 2301	3	F., Sp., Su.
	PHYS 2220	Electricity and Magnetism Pre-reqs: MATH 1720, PHYS 1710, 1730	3	F., Sp., Su.	ACCT 2010	Accounting Principles I Pre-req: ECON 1100	3	F., Sp., Su.
Three	PHYS 2240	Electricity and Magnetism Lab Co-req/pre-req: PHYS 2220	1	F., Sp., Su.	CNET 3410	Occupational Safety and Liability	3	Sp.
Year Three	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
_	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	Total Hours		12	
	Total Hours		13					
	CNET	Construction Contract Documents	3	F.	CNET	Construction Scheduling	3	Sp.
	3150	Pre-req: CNET 2180			3190	Pre-req: CNET 3160		-
our	CNET 3160	Construction Cost Estimating Pre-req: CNET 2180	3	F.	CNET 3440	Steel Structures Pre-req: CNET 3430	3	F., Sp.
Year Fo	CNET 3430	Structural Analysis Pre-req: ENGR 2332	3	F.	CNET 3460	Soils and Foundations Pre-req: CNET 2180, ENGR 2332	3	F., Sp.
Ye	BLAW 3430	Legal and Ethical Environment of BUSI Pre-req: PSCI 2305, 2306	3	F., Sp., Su.	DSCI 2710	Data Analysis with Spreadsheets Pre-req: College Math Readiness	4	F., Sp.
	Total Hours		13		Total Hours		12	
	CNET	Structural Design with Concrete, Timber, etc.	3	F.	CNET	Problems in Project Management	3	Sp.
	3480 CNET	Pre-req: CNET 2180, 3430 Construction Management	3	F.	4180 CNET	Pre-req: CNET 4170 Quality Management in Construction	3	Sp.
ē	4170 CNET	Pre-req: CNET 3160 Senior Design I	1	F.	4190 CNET	Pre-req: CNET 2180 Adv. Design in Cold-Formed Steel Struc.	3	F., Sp.
Year Five	4780 BLAW	Pre-req: Senior Class., CNET 3190, 3440, 3460 Real Estate Law and Contracts	3	F., Sp.	4620 CNET	Pre-req: CNET 3430 Senior Design II	3	F., Sp.
Ye	4770 University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	4790 MISC	Pre-req: CNET 4780 MISC. Elective to reach 124 Hours	3	Varies
	Core	options on mydegreeaddit.unt.edd	,	Su.	Elective	(If needed)	3	varies
	Total Hours		13		Total Hours		12	

ENGL, TECM, MATH, CHEM, PHYS, ENGR, CNET, and Business Courses require a minim grade of "C" for completion and/or prerequisite. This is an unofficial sample schedule. Requirements, prerequisites, corequisites, and term offerings may change. You should check your degree audit at mydegreeaudit.unt.edu each term. You should meet with your advisor each term to discuss individual scheduling, program decisions, etc.

Construction Management

Bachelor of Science (B.S) degree with a major in Construction Management Department of Mechanical Engineering, Discovery Park (NTDP) F-115; (940) 565-2400

University Core

COMMUNICATION

1 Course (3 Hours) – see mydegreeaudit.unt.edu
 Grade of "C" or better is required

AMERICAN HISTORY I

□ 1 Course (3 Hours) chosen from HIST 2610 or HIST 2675

AMERICAN HISTORY II

□ 1 Course (3 Hours) chosen from HIST 2620 or HIST 2685

FEDERAL GOVERNMENT/POLITICAL SCIENCE

□ 1 Course (3 Hours) chosen from PSCI 2305 or PSCI 2315

STATE GOVERNMENT/POLITICAL SCIENCE

□ 1 Course (3 Hours) chosen from PSCI 2306 or PSCI 2316

CREATIVE ARTS

□ 1 Course (3 Hours) – see mydegreeaudit.unt.edu

LANGUAGE, PHILOSOPHY, AND CULTURE

□ 1 Course (3 Hours) – see mydegreeaudit.unt.edu

SOCIAL AND BEHAVIORAL SCIENCES

■ ECON 1100 (3 Hours) – see mydegreeaudit.unt.edu

Major Requirements

Grades of C or better

WRITING/TECHNICAL COMMUNICATIONS

1 course chosen from list options below TECM 2700, Technical Writing (3 Hours) ENGL 1320, First-Year English Writing II (3 Hours) ENGL 1321, Honors Frist-Year Writing II (3 Hours)

MATHEMATICS

MATH 1710, Calculus I (4 Hours) or MATH 1190, Business Calculus (3 Hours)

SCIENCES

PHYS 1410, General Physics I (3 Hours) &

PHYS 1430, General Physics I Lab (1 Hour) or

PHYS 1710, Mechanics (3 Hours) &

PHYS 1730 Mechanics Lab (1 Hour)

PHYS 1420, General Physics II (3 Hours) &

PHYS 1440, General Physics II Lab (1 Hour) or

PHYS 2220, Electricity & Magnetism (3 Hours) &

PHYS 2240, Electricity & Magnetism Lab (1 Hour)

Major Requirements

Grades of C or better

CONSTRUCTION ENGINEERING TECHNOLOGY

- □ CNET 1160, Construction Methods and Materials (3 Hours)
- CNET 2180, Building Construction Techniques (3 Hours)
- CNET 2200, Surveying for Construction (3 Hours)
- □ CNET 2300, Construction Graphics and Modeling (3 Hours)
- CNET 3150, Construction Contract Documents (3 Hours)
- □ CNET 3160, Construction Cost Estimating (3 Hours)
- □ CNET 3190, Construction Scheduling (3 Hours)
- ☐ CNET 3410, Occupational Safety and Liability (3 Hours)
- CNET 3435, Structural Analysis (3 Hours)
- □ CNET 3465, Soils and Foundations (3 Hours)
- □ CNET 3485, Structural Design with Concrete, Timber, etc. (3 Hours)
- CNET 4170, Construction Management (3 Hours)
- CNET 4180, Problems in Project Management (3 Hours)
- ☐ CNET 4190, Quality Management in Construction (3 Hours)
- ☐ CNET 4630, Construction Management for MEP Systems (3 Hours)
- □ CNET 4785, Senior Design I (1 Hour)
- □ CNET 4795, Senior Design II (3 Hours)
- ☐ CNET 4920, Cooperative Education Internship (1 Hour)
- ENGR 1030, Technical Systems (3 Hours)
- ENGR 2304, Statics and Strengths of Materials (3 Hours)

BUSINESS

- □ ACCT 2010, Accounting Principles I (3 Hours)
- BLAW 3430, Legal and Ethical Environment of Business (3 Hours)
- BLAW 4770, Real Estate Law and Contracts (3 Hours)
- □ ECON 1100, Principles of Microeconomics (3 Hours)
- ☐ MGMT 3820, Management Concepts (3 Hours)
- ☐ MGMT 3850, Foundations of Entrepreneurship (3 Hours)

BUSINESS ELECTIVE

☐ 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 2022. Degree requirements may change. You may need elective courses to help reach a minimum of 120 Total Hours and 42 Advanced Hours. Check with an advisor.

Construction Management

2022-2023 Catalog: Sample Four-Year Schedule

	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
	MATH 1190	Business Calculus Pre-req: MATH 1100 or MATH 1180 or Test Placement 2	3	F., Sp., Su.	PHYS 1420	General Physics II Pre-req: PHYS 1410	3	F., Sp., Su.
	PHYS 1410	General Physics I Pre-req: MATH 1100 or higher	3	F., Sp., Su.	PHYS 1440	General Physics II Lab Co/Pre-req: PHYS 1420	1	F., Sp., Su.
Year One	PHYS 1430	General Physics I Lab Co/Pre-req: PHYS 1410	1	F., Sp., Su.	CNET 2180	Building Construction Techniques Pre-req: CNET 1160	3	Sp.
Yea	CNET 1160	Construction Methods and Materials	3	F.	TECM 2700	Technical Writing Pre-req: Communication Core	3	F., Sp., Su.
	ENGR 1030	Technological Systems	3	F., Sp.	ECON 1100	Microeconomics Fulfills Social and Behavioral Science Core	3	F., Sp., Su.
	Comm. Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp. Su.
	Total Hours		16		Total Hours		16	
	CNET 2300	Construction Graphics and Modeling	3	F.	^CNET 2200	Surveying for Construction	3	Sp.
	^ENGR 2304	Statics and Strength of Materials Pre-reqs: MATH 1190, PHYS 1410	3	F.	MGMT 3850	Foundations of Entrepreneurship	3	F., Sp., Su.
Year Two	MGMT 3820	Management Concepts	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
Year	ACCT 2010	Accounting Principles I Pre-req: ECON 1100 and MATH 1100 or higher	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	Total Hours		15		Total Hours		15	
	CNET 3150	Construction Contract Documents Pre-req: CNET 2180	3	F.	CNET 3190	Construction Scheduling Pre-req: CNET 3160	3	Sp.
	CNET 3160	Construction Cost Estimating Pre-req: CNET 2180	3	F.	CNET 3465	Soils and Foundations Pre-req: CNET 2180, ENGR 2304	3	Sp.
Year Three	CNET 3435	Structural Analysis Pre-req: ENGR 2304	3	F.	CNET 3410	Occupational Safety and Liability	3	Sp.
Year	BLAW 3430	Legal and Ethical Environment of BUSI Pre-req: PSCI 2305, 2306	3	F., Sp., Su.	BLAW 4770	Real Estate Law and Contracts	3	F., Sp.
	Technical Elective	Options at mydegreeaudit.unt.edu Must complete pre-reqs	3	Varies	Total Hours		12	
	Total Hours		15					
	CNET 3485	Structural Design with Concrete, Timber, etc. Pre-req: CNET 2180, 3435	3	F.	CNET 4180	Problems in Project Management Pre-req: CNET 4170	3	Sp.
	CNET 4170	Construction Management Pre-req: CNET 3160	3	F.	CNET 4190	Quality Management in Construction Pre-reg: CNET 2180	3	Sp.
ı,	CNET 4785	Senior Design I Pre-req: Senior Class., CNET 3190, 3445, 3465	1	F.	CNET 4795	Senior Design II Pre-req: CNET 4785	3	Sp.
Year Four	CNET 4630	Construct. Mgmt. for MEP Systems Pre-req: CNET 2180	3	F.	CNET 4920	Cooperative Education Internship Pre-req: Department Consent	1	Sp.
Ye	Business Elective	Options at mydegreeaudit.unt.edu Must complete pre-reqs	3	Varies	Misc. Elective	MISC. Elective to reach 120 Hours (If needed)	3	F., Sp., Su.
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	Misc. Elective	MISC. Elective to reach 120 Hours (If needed)	3	F., Sp., Su.
	Total Hours		16		Total Hours		16	

Courses with Λ = New courses created for Construction Management. Semester offering may change per ME Department's decision.

ENGL, TECM, MATH, PHYS, ENGR, CNET, and Business Courses require a minim grade of "C" for completion and/or prerequisite. This is an unofficial sample schedule. Requirements, prerequisites, corequisites, and term offerings may change. You should check your degree audit at mydegreeaudit.unt.edu each term. You should meet with your advisor each term to discuss individual scheduling, program decisions, etc.

Construction Management – College Algebra

2022-2023 Catalog: Sample Four-Year Schedule

	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
	MATH 1100	College Algebra Pre-req: TSI Completion	3	F., Sp., Su.	MATH 1190	Business Calculus Pre-req: MATH 1100 or MATH 1180 or Test Placement 2	3	F., Sp., Su.
o)	CNET 1160	Construction Methods and Materials	3	F.	CNET 2180	Building Construction Techniques Pre-req: CNET 1160	3	Sp.
Year One	ENGR 1030	Technological Systems	3	F., Sp.	PHYS 1410	General Physics I Pre-req: MATH 1100 or higher	3	F., Sp., Su.
Yea	Comm. Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su	PHYS 1430	General Physics I Lab Co/Pre-reg: PHYS 1410	1	F., Sp., Su.
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp.	TECM 2700	Technical Writing Pre-reg: Communication Core	3	F., Sp., Su.
	Total Hours		15		ECON 1100	Microeconomics Fulfills Social and Behavioral Science Core	3	F., Sp. Su.
					Total Hours		16	
	CNET 2300	Construction Graphics and Modeling	3	F.	^CNET 2200	Surveying for Construction	3	Sp.
	^ENGR 2304	Statics and Strength of Materials Pre-regs: MATH 1190, PHYS 1410	3	F.	MGMT 3820	Management Concepts	3	F., Sp., Su.
•	PHYS 1420	General Physics II Pre-req: PHYS 1410	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
Year Two	PHYS 1440	General Physics II Lab Co/Pre-req: PHYS 1420	1	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
Yea	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	ACCT 2010	Accounting Principles I Pre-req: ECON 1100 and MATH 1100 or higher	3	F., Sp., Su.
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	Total Hours		15	
	Total Hours		16					
	CNET	Construction Contract Documents	3	F.	CNET	Construction Scheduling	3	Sp.
	3150 CNET	Pre-req: CNET 2180 Construction Cost Estimating	3	F.	3190 CNET	Pre-req: CNET 3160 Soils and Foundations Solution CNET 3160 SNCD 3364	3	Sp.
ıree	3160 CNET 3435	Pre-req: CNET 2180 Structural Analysis Pre-req: ENGR 2304	3	F.	3465 CNET 3410	Pre-req: CNET 2180, ENGR 2304 Occupational Safety and Liability	3	Sp.
Year Three	BLAW 3430	Legal and Ethical Environment of BUSI Pre-reg: PSCI 2305, 2306	3	F., Sp., Su.	CNET 4190	Quality Management in Construction Pre-req: CNET 2180	3	Sp.
>	Technical Elective	Options at mydegreeaudit.unt.edu Must complete pre-reqs	3	Varies	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	Total Hours		15		Total Hours		15	
	CNET	Structural Design with Concrete, Timber, etc.	3	F.	CNET	Problems in Project Management	3	Sp.
	3485 CNET	Pre-req: CNET 2180, 3430 Construction Management	3	F.	4180 CNET	Pre-req: CNET 4170 Senior Design II	3	Sp.
	4170 CNET	Pre-req: CNET 3160 Senior Design I	1	F.	4795 CNET	Pre-req: CNET 4785 Cooperative Education Internship	1	Sp.
Year Four	4785 CNET	Pre-req: Senior Class., CNET 3190, 3445, 3465 Construct. Mgmt. for MEP Systems	3	F.	4920 Business	Pre-req: Department Consent Options at mydegreeaudit.unt.edu	3	Varies
Year	4630 BLAW	Pre-req: CNET 2180 Real Estate Law and Contracts	3	F., Sp.	Elective Misc.	Must complete pre-reqs MISC. Elective to reach 120 Hours	3	F., Sp.,
	4770 Total				Misc.	(If needed) MISC. Elective to reach 120 Hours	3	Su. F., Sp.,
	Hours		13		Elective Total	(If needed)		Su.
					Hours		16	

Courses with Λ = New courses created for Construction Management. Semester offering may change per ME Department's decision.

ENGL, TECM, MATH, PHYS, ENGR, CNET, and Business Courses require a minim grade of "C" for completion and/or prerequisite. This is an unofficial sample schedule. Requirements, prerequisites, corequisites, and term offerings may change. You should check your degree audit at mydegreeaudit.unt.edu each term. You should meet with your advisor each term to discuss individual scheduling, program decisions, etc.

Cybersecurity

Bachelor of Science (B.S.) degree with a major in Cybersecurity

Department of Computer Science and Engineering, Discovery Park (NTDP) F-201; (940) 565-2767

University Core

COMMUNICATION

1 Course (3 Hours) – see mydegreeaudit.unt.edu
 Grade of "C" or better is required

AMERICAN HISTORY I

□ 1 Course (3 Hours) chosen from HIST 2610 or HIST 2675

AMERICAN HISTORY II

□ 1 Course (3 Hours) chosen from HIST 2620 or HIST 2685

FEDERAL GOVERNMENT/POLITICAL SCIENCE

☐ 1 Course (3 Hours) chosen from PSCI 2305 or PSCI 2315

STATE GOVERNMENT/POLITICAL SCIENCE

□ 1 Course (3 Hours) chosen from PSCI 2306 or PSCI 2316

CREATIVE ARTS

□ 1 Course (3 Hours) – see mydegreeaudit.unt.edu

LANGUAGE, PHILOSOPHY, AND CULTURE

□ 1 Course (3 Hours) – see mydegreeaudit.unt.edu

SOCIAL AND BEHAVIORAL SCIENCES

□ 1 Course (3 Hours) – see mydegreeaudit.unt.edu

Major Requirements

Grades of C or better

TECHNICAL COMMUNICATIONS

☐ TECM 2700, Technical Writing (3 Hours)

MATHEMATICS

- MATH 1710, Calculus I (4 Hours)
- ☐ MATH 1720, Calculus II (3 Hours)
- MATH 2700, Linear Algebra (3 Hours)
- MATH 3680, Applied Statistics (3 Hours)

SCIENCES - PHYSICS

- PHYS 1710, Mechanics (3 Hours) &
 PHYS 1730 Mechanics Lab (1 Hour)
- PHYS 2220, Electricity & Magnetism (3 Hours) & PHYS 2240, Electricity & Magnetism Lab (1 Hour)

SCIENCES - BIOLOGY AND/OR CHEMISTRY

- 1 Lab science and lab chosen from list options below
- 1 Lab science and lab chosen from list options below

CHEM 1410, General Chemistry I (3 Hours) and

CHEM 1430, General Chemistry I Lab (1 Hour)

CHEM 1420, General Chemistry II (3 Hours) and

CHEM 1440, General Chemistry II Lab (1 Hour)

BIOL 1710, Biology I (3 Hours)

BIOL 1720, Biology II (3 Hours)

BIOL 1760, Biology Lab (2 Hours)

Major Requirements

Grades of C or better

COMPUTER SCIENCE AND ENGINEERING

- CSCE 1035, Computer Programming I (4 Hours)
- CSCE 1045, Computer Programming II (3 Hours)
- □ CSCE 2100, Foundations of Computing (3 Hours)
- □ CSCE 2110, Foundations of Data Structures (3 Hours)
- □ CSCE 3530, Introduction to Computer Networks (3 Hours)
- □ CSCE 3550, Foundations of Computer Security (3 Hours)
- □ CSCE 3560, Computer Systems Security (3 Hours)
- □ CSCE 3600, Principles of Systems Programming (3 Hours)
- □ CSCE 4010, Social Issues in Computing (3 Hours)
- □ CSCE 4535, Introduction to Network Administration (3 Hours)
- □ CSCE 4555, Computer Forensics (3 Hours)
- □ CSCE 4560, Secure Electronic Commerce (3 Hours)
- □ CSCE 4565, Secure Software Systems (3 Hours)
- □ CSCE 4575, Blockchain and Applications (3 Hours)
- □ CSCE 4907, Cybersecurity Capstone I (3 Hours)
- □ CSCE 4927, Cybersecurity Capstone II (3 Hours)

ADVANCED SUPPORTING ELECTIVES

- □ 1 course (3 Hours) chosen from list options below
- □ 1 course (3 Hours) chosen from list options below
- □ 1 course (3 Hours) chosen from list options below
- □ 1 course (3 Hours) chosen from list options below

CSCE 4050, Applications of Cryptography (3 Hours)

CSCE 4350, Fundamentals of Database Systems (3 Hours)

CSCE 4357, Database Systems Security (3 Hours)

CSCE 4520, Wireless Networks and Protocols (3 Hours)

CSCE 4570, Information Privacy (3 Hours)

CSCE 4600, Introduction to Operating Systems (3 Hours)

INFO 4670, Data Analysis and Knowledge Discovery (3 Hours)

INFO 4710, Information Technology Management (3 Hours)

INFO 4745, Information Architecture (3 Hours)

CJUS 3340, Computer Crime (3 Hours)

CJUS 4330, Domestic and International Terrorism (3 Hours)

BCIS 4630, Fundamentals of Info. Technology Security (3 Hours)

BCIS 4720, Web-Based Information Technologies (3 Hours)

BCIS 4740, Administration and Policy in Info. Security (3 Hours)

Cybersecurity – Calculus I

2022-2023 Catalog: Sample Four-Year Schedule

	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
	MATH 1710	Calculus I Pre-req: MATH 1650 or Test Placement	4	F., Sp., Su.	MATH 1720	Calculus II Pre-req: MATH 1710	3	F., Sp., Su.
e e	CHEM 1410	General Chemistry I Pre-req: MATH 1100 or higher	3	F., Sp., Su.	CSCE 1045	Computer Programming II Pre-req: CSCE 1035, Co/Pre-req: MATH 1710	3	F., Sp.
Year One	CHEM 1430	General Chemistry I Lab Co/Pre-req: CHEM 1410	1	F., Sp., Su.	TECM 2700	Technical Writing Pre-req: Communication Core	3	F., Sp., Su.
Ye	CSCE 1035	Computer Programming I Pre-req: MATH 1650 or Co-req: MATH 1710	4	F., Sp.	BIOL 1710	Biology I	3	F., Sp., Su.
	Comm. Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	BIOL 1760	Biology I Lab Co/Pre-req: BIOL 1710	2	F., Sp., Su.
	Total Hours		15		Total Hours		14	

	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
	MATH	Linear Algebra	3	F., Sp.,	MATH	Applied Statistics	3	F., Sp.,
	2700	Pre-req: MATH 1720		Su.	3680	Co/Pre-req: MATH 1720		Su.
	PHYS	Mechanics	3	F., Sp.,	PHYS	Electricity & Magnetism	3	F., Sp.,
	1710	Pre-req: MATH 1710		Su.	2220	Pre-regs: MATH 1720 & PHYS 1710/1730		Su.
9	PHYS	Mechanics Lab	1	F., Sp.,	PHYS	Electricity & Magnetism Lab	1	F., Sp.,
Ě	1730	Co/Pre-req: PHYS 1710		Su.	2240	Co/Pre-req: PHYS 2220		Su.
ear	CSCE	Foundations of Computing	3	F., Sp.,	CSCE	Systems Programming	3	F., Sp.
Υe	2100	Pre-req: CSCE 1045		Su.	3600	Pre-reqs: CSCE 2100 & CSCE 2110		
	CSCE	Foundations of Data Structures	3	F., Sp.,	Supporting	Options at mydegreeaudit.unt.edu	3	Varies
	2110	Pre-req: CSCE 1045		Su.	Elective	Must complete pre-reqs		
	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	Core			Su.	Core			Su.
	Total				Total			
	Hours		16		Hours		16	

	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
	CSCE 3530	Introduction to Computer Networks Pre-req: CSCE 3600	3	F., Sp.	CSCE 3560	Computer Systems Security Pre-req: CSCE 3600	3	Sp.
ee	CSCE 3550	Foundations of Computer Security Pre-req: CSCE 2110	3	F.	CSCE 4560	Secure Electronic Commerce Pre-req: CSCE 2110	3	Sp.
ar Three	CSCE 4010	Social Issues in Computing Pre-req: CSCE 3600	3	F., Sp.	CSCE 4555	Computer Forensics Pre-req: CSCE 2110	3	Sp.
Year	Supporting Elective	Options at mydegreeaudit.unt.edu Must complete pre-reqs	3	Varies	University Core	Options on mydegreeaudit.unt.edu	3	Sp.
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	Total Hours		15		Total Hours		15	

	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
	CSCE 4907	Cybersecurity Capstone I Co-req: CSCE 4565	3	F.	CSCE 4927	Cybersecurity Capstone II Pre-req: CSCE 4907	3	Sp.
'n	CSCE 4565	Secure Software Systems Pre-req: CSCE 3550	3	F.	Supporting Elective	Options at mydegreeaudit.unt.edu Must complete pre-reqs	3	Varies
Year Fou	CSCE 4535	Introduction to Network Admin. Pre-req: CSCE 3530	3	F.	Supporting Elective	Options at mydegreeaudit.unt.edu Must complete pre-regs	3	Varies
Ye	CSCE 4575	Blockchain and Applications Pre-req: CSCE 3600	3	F.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	MISC. Elective	Misc. Elective to reach 120 hours (if needed)	3	F., Sp., Su.
	Total Hours		15		Total Hours		15	

ENGL, TECM, MATH, CHEM, PHYS, BIOL, and CSCE courses require minimum grade of "C" for completion and/or prerequisite. This is an unofficial sample schedule.

Requirements, prerequisites, corequisites, and term offerings may change. You should check your degree audit at mydegreeaudit.unt.edu each term. You should meet with your advisor each term to discuss individual scheduling, program decisions, etc.

Cybersecurity – Pre-Calculus

2022-2023 Catalog: Sample Four-Year Schedule

	Fall	Course Title	Credit	Term(s)	Spring	Course Title	Credit	Term(s)
	Semester		Hours	Offered	Semester		Hours	Offered
	MATH	Pre-Calculus	5	F., Sp.,	MATH	Calculus I	4	F., Sp.,
	1650	Pre-req: MATH 1100 or Test Placement		Su.	1710	Pre-req: MATH 1650 or Test Placement		Su.
	CHEM	General Chemistry I	3	F., Sp.,	CSCE	Computer Programming I	4	F., Sp.
ē	1410	Pre-reg: MATH 1100 or higher		Su.	1035	Pre-req: MATH 1650 or Co-req: MATH 1710		
One	CHEM	General Chemistry I Lab	1	F., Sp.,	TECM	Technical Writing	3	F., Sp.,
Year	1430	Co/Pre-req: CHEM 1410		Su.	2700	Pre-req: Communication Core		Su.
ĕ	Comm.	Options on mydegreeaudit.unt.edu	3	F., Sp.	BIOL	Biology I	3	F., Sp.,
-	Core	Options on mydegreeaddit.unt.edd		т., эр.	1710	Biology		Su.
	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	BIOL	BIOL Lab	2	F., Sp.,
	Core	Options on mydegreeaddit.dnt.edd		Su.	1760	Co/Pre-reg: BIOL 1710	_	Su.
	Total				Total	Coyl re-req. BIOL 1710		
	Hours		15		Hours		16	
	Hours		13		Hours		10	
	MATH	Calculus II	3	F., Sp.,	MATH	Linear Algebra	3	F., Sp.,
	1720		3	Γ., 3μ., Su.	2700	_	3	F., 3p., Su.
		Pre-req: MATH 1710	2			Pre-req: MATH 1720	2	
	PHYS	Mechanics	3	F., Sp.,	PHYS	Electricity & Magnetism	3	F., Sp.,
	1710	Pre-req: MATH 1710		Su.	2220	Pre-regs: MATH 1720 & PHYS 1710/1730	_	Su.
_	PHYS	Mechanics Lab	1	F., Sp.,	PHYS	Electricity & Magnetism Lab	1	F., Sp.,
Ş	1730	Co/Pre-req: PHYS 1710		Su.	2240	Co/Pre-req: PHYS 2220		Su.
Year Two	CSCE	Computer Programming II	3	F., Sp.	CSCE	Foundations of Computing	3	F., Sp.,
ä	1045	Pre-req: CSCE 1035, Co/Pre-req: MATH 1710			2100	Pre-req: CSCE 1040		Su.
٣	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	CSCE	Foundations of Data Structures	3	F., Sp.,
	Core	, ,		Su.	2110	Pre-reg: CSCE 1040		Su.
	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	Core	options on mydegreedddiadiadad		Su.	Core	options on mydegreed date and edu		Su.
	Total				Total			
	Hours		16		Hours		16	
			-					
	MATH	Applied Statistics	3	F., Sp.,	CSCE	Introduction to Computer Networks	3	F., Sp.
	3680	Co/Pre-reg: MATH 1720		Su.	3530	Pre-reg: CSCE 3600		
	CSCE	Foundations of Computer Security	3	F.	CSCE	Computer Systems Security	3	Sp.
	3550	Pre-reg: CSCE 2110			3560	Pre-reg: CSCE 3600		
e	CSCE	Systems Programming	3	F., Sp.	CSCE	Computer Forensics	3	Sp.
hre	3600	Pre-regs: CSCE 2100 & CSCE 2110		, op.	4555	Pre-reg: CSCE 2110		op.
Year Three	Supporting	Options at mydegreeaudit.unt.edu	3	F., Sp.	CSCE	Secure Electronic Commerce	3	Sp.
eai	Elective		3	1., Jp.	4560	Pre-reg: CSCE 2110		эр.
×		Must complete pre-reqs				'		
	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	Supporting	Options at mydegreeaudit.unt.edu	3	F., Sp.
	Core			Su.	Elective	Must complete pre-reqs		
	Total				Total			
	Hours		15		Hours		15	
							ı	
	CSCE	Introduction to Network Admin.	3	F.	CSCE	Social Issues in Computing	3	F., Sp.
	4535	Pre-req: CSCE 3530			4010	Pre-req: CSCE 3600		
	CSCE	Secure Software Systems	3	F.	CSCE	Cybersecurity Capstone II	3	Sp.
	4565	Pre-req: CSCE 3550			4927	Pre-req: CSCE 4907		
Ĭ	CSCE	Blockchain and Applications	3	F.	Supporting	Options at mydegreeaudit.unt.edu	3	F., Sp.
Year Four	4575	Pre-req: CSCE 3600			Elective	Must complete pre-regs		
-E	CSCE	Cybersecurity Capstone I	3	F.	Supporting	Options at mydegreeaudit.unt.edu	3	F., Sp.
ě	4907	Co-req: CSCE 4565			Elective	Must complete pre-regs		, Jp.
			-	F 6				Г С:
	University	Options at mydegreeaudit.unt.edu	3	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	Core			Su.	Core			Su.
	Total				Total			
	Hours		15		Hours		15	

ENGL, TECM, MATH, CHEM, PHYS, BIOL, and CSCE courses require minimum grade of "C" for completion and/or prerequisite. This is an unofficial sample schedule.

Requirements, prerequisites, corequisites, and term offerings may change. You should check your degree audit at mydegreeaudit.unt.edu each term. You should meet with your advisor each term to discuss individual scheduling, program decisions, etc.

Cybersecurity – College Algebra

2022-2023 Catalog: Sample Five-Year Schedule

	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
	MATH	College Algebra	3	F., Sp.,	MATH	Pre-Calculus	5	F., Sp.,
a	1100 Comm.	Pre-req: TSI Completion Options on mydegreeaudit.unt.edu	3	Su. F., Sp.,	1650 CHEM	Pre-req: MATH 1100 or Test Placement General Chemistry I	3	Su. F., Sp.,
Year One	Core	Options on mydegreeaddit.unt.edd		Su.	1410	Pre-req: MATH 1100 or higher		Su.
ar	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	CHEM	General Chemistry I Lab	1	F., Sp.,
Υe	Core	Outilities and a second throat and		Su.	1430	Co/Pre-req: CHEM 1410	2	Su.
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp.	TECM 2700	Technical Writing Pre-req: Communication Core	3	F., Sp., Su.
	Total				Total	The requirement cone		
	Hours		12		Hours		12	
	MATH	Calculus I	4	F., Sp.,	MATH	Calculus II	3	F., Sp.,
	1710	Pre-req: MATH 1650 or Test Placement		Su.	1720	Pre-req: MATH 1710		Su.
	CSCE 1035	Computer Programming I Pre-req: MATH 1650 or Co-req: MATH 1710	4	F., Sp.	CSCE 1045	Computer Programming II Pre-reg: CSCE 1035	3	F., Sp.
_	1033	The-req. WATT 1050 of co-req. WATT 1710			1043	Co/Pre-req: MATH 1710		
Year Two	BIOL	Biology I	3	F., Sp.,	PHYS	Mechanics	3	F., Sp.,
ar J	1710	2001		Su.	1710	Pre-req: MATH 1710		Su.
Ye	BIOL 1760	BIOL Lab Co/Pre-reg: BIOL 1710	2	F., Sp., Su.	PHYS 1730	Mechanics Lab Co/Pre-reg: PHYS 1710	1	F., Sp., Su.
	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	Core			Su.	Core			Su.
	Total				Total			
	Hours		16		Hours		13	
	MATH	Linear Algebra	3	F., Sp.,	MATH	Applied Statistics	3	F., Sp.,
	2700	Pre-req: MATH 1720	2	Su.	3680	Co/Pre-req: MATH 1720		Su.
	CSCE 2100	Foundations of Computing Pre-regs: CSCE 1040	3	F., Sp., Su.	CSCE 3600	Systems Programming Pre-regs: CSCE 2100 & CSCE 2110	3	F., Sp.
ee	CSCE	Foundations of Data Structures	3	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
Year Three	2110	Pre-regs: CSCE 1040		Su.	Core			Su.
ā	PHYS	Electricity & Magnetism	3	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.
Ϋ́	2220 PHYS	Pre-reqs: MATH 1720 & PHYS 1710/1730 Electricity & Magnetism Lab	1	Su. F., Sp.,	Core Total			
	2240	Co/Pre-req: PHYS 2220		Su.	Hours		12	
	Total							
	Hours		13					
	CSCE	Introduction to Computer Networks	3	F., Sp.	CSCE	Computer Systems Security	3	Sp.
	3530	Pre-reg: CSCE 3600	2		3560	Pre-req: CSCE 3600		
_	CSCE 3550	Foundations of Computer Security Pre-reg: CSCE 2110	3	F.	CSCE 4555	Computer Forensics Pre-req: CSCE 2110	3	Sp.
Fot	CSCE	Social Issues in Computing	3	F., Sp.	CSCE	Secure Electronic Commerce	3	Sp.
Year Four	4010	Pre-req: CSCE 3600			4560	Pre-req: CSCE 2110		
Ye	Supporting Elective	Options at mydegreeaudit.unt.edu	3	F., Sp.	Supporting Elective	Options at mydegreeaudit.unt.edu	3	F., Sp.
	Total	Must complete pre-reqs			Total	Must complete pre-reqs		+
	Hours		12		Hours		12	
	CSCE	Capstone I	3	F.	CSCE	Capstone II	3	Sp.
	4535	Pre-reqs: TECM 2700, CSCE 3444			4927	Pre-req: CSCE 4907		- 1-
		Co/Pre-req: CSCE 4110	1 _				_	
Je /	CSCE 4565	Options at mydegreeaudit.unt.edu Must complete pre-reqs	3	F.	Supporting Elective	Options at mydegreeaudit.unt.edu Must complete pre-regs	3	F., Sp.
Ę	CSCE	Options at mydegreeaudit.unt.edu	3	F.	Supporting	Options at mydegreeaudit.unt.edu Must	3	F., Sp.
Year Five	4575	Must complete pre-reqs		•	Elective	complete pre-regs		,
>	CSCE	Options at mydegreeaudit.unt.edu	3	F.	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	4907	Must complete pre-reqs	1		Core			Su.
	Total Hours		12		Total Hours		12	
<u></u>	nours		12		HOUIS		12	

Electrical Engineering

Bachelor of Science (B.S.) degree with a major in Electrical Engineering
Department of Electrical Engineering, Discovery Park (NTDP) B-270; (940) 891-6872

University Core

COMMUNICATION

1 Course (3 Hours) – see mydegreeaudit.unt.edu
 Grade of "C" or better is required

AMERICAN HISTORY I

□ 1 Course (3 Hours) chosen from HIST 2610 or HIST 2675

AMERICAN HISTORY II

□ 1 Course (3 Hours) chosen from HIST 2620 or HIST 2685

FEDERAL GOVERNMENT/POLITICAL SCIENCE

□ 1 Course (3 Hours) chosen from PSCI 2305 or PSCI 2315

STATE GOVERNMENT/POLITICAL SCIENCE

☐ 1 Course (3 Hours) chosen from PSCI 2306 or PSCI 2316

CREATIVE ARTS

□ 1 Course (3 Hours) – see mydegreeaudit.unt.edu

LANGUAGE, PHILOSOPHY, AND CULTURE

□ 1 Course (3 Hours) – see mydegreeaudit.unt.edu

SOCIAL AND BEHAVIORAL SCIENCES

☐ 1 Course (3 Hours) – see mydegreeaudit.unt.edu

Major Requirements

Grades of C or better

TECHNICAL COMMUNICATIONS

→ TECM 2700, Technical Writing (3 Hours)

MATHEMATICS

- MATH 1710, Calculus I (4 Hours)
- MATH 1720, Calculus II (3 Hours)
- MATH 2730, Multivariable Calculus (3 Hours)
- MATH 2700, Linear Algebra (3 Hours)
- MATH 3410, Differential Equations (3 Hours)
- ☐ MATH 3680, Applied Statistics (3 Hours)

Completion of the above courses will earn a Mathematics minor.

SCIENCES

- PHYS 1710, Mechanics (3 Hours) & PHYS 1730 Mechanics Lab (1 Hour)
- PHYS 2220, Electricity & Magnetism (3 Hours) & PHYS 2240, Electricity & Magnetism Lab (1 Hour)
- □ CHEM 1410, General Chemistry I (3 Hours) & CHEM 1430, General Chemistry I Lab (1 Hour)

Major Requirements

Grades of C or better

ELECTRICAL ENGINEERING

- EENG 1910, Introduction to Electrical Engineering (3 Hours)
- EENG 2610, Circuit Analysis, (3 Hours) &
 - EENG 2611, Circuit Analysis Lab (1 Hour)
- EENG 2620, Signals and Systems (3 Hours) & EENG 2621, Signals and Systems Lab (1 Hour)
- EENG 2710, Digital Logic Design (3 Hours) &
- EENG 2711, Digital Logic Design Lab (1 Hour)
- EENG 2920, Analog and Digital Circuit Design (3 Hours)
- EENG 2980, Engineering Tools (3 Hours)
- EENG 3410, Engineering Electromagnetics (3 Hours) & EENG 3411, Engineering Electromagnetics Lab (1 Hour)
- EENG 3510, Electronics I (3 Hours) & EENG 3511, Electronics I Lab (1 Hour)
 - EENG 3520, Electronics II (3 Hours)
- EENG 3710, Computer Organization (3 Hours)
- EENG 3810, Communications Systems (3 Hours) &
 EENG 3811, Communication Systems Lab (1 Hour)
- EENG 3910, DSP System Design (3 Hours)
- EENG 3920, Modern Comm. System Design (3 Hours)
- EENG 4910, Senior Design I (3 Hours)
- EENG 4990, Senior Design II (3 Hours)
- EENG 4*** Elective (3 Hours)

EENG 4*** level elective can be chose from: EENG 4010, 4310, 4330, 4340, 4350, 4410, 4710, 4760, 4810, 4850, and 4900.

EENG 4010 is a topics course and the content of 4010 varies for each semester. EENG 4010 may be repeated for credit if you do not re-take the exact same topic the 2^{nd} time.

EENG 4920 and 4951 cannot be taken as electives.

COMPUTER PROGRAMMING

□ CSCE 1030, Computer Science I (4 Hours)

Electrical Engineering – Calculus I

2022-2023 Catalog: Sample Four-Year Schedule

	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
	MATH 1710	Calculus I Pre-req: MATH 1650 or Test Placement	4	F., Sp., Su.	MATH 1720	Calculus II Pre-req: MATH 1710	3	F., Sp., Su.
	CHEM 1410	General Chemistry I Pre-reg: MATH 1100 or higher	3	F., Sp., Su.	PHYS 1710	Mechanics Pre-reg: MATH 1710	3	F., Sp., Su.
	CHEM	General Chemistry I Lab	1	F., Sp.,	PHYS	Mechanics Lab	1	F., Sp.,
ne	1430	Co/Pre-req: CHEM 1410		Su.	1730	Co/Pre-req: PHYS 1710		Su.
Year One	EENG 1910	Intro to Electrical Engineering	3	F., Sp.	EENG 2710	Digital Logic Design	3	F., Sp., Su.
Ye	CSCE 1030	Computer Science I Pre-req: MATH 1650 or Co-req: MATH 1710	4	F., Sp., Su.	EENG 2711	Digital Logic Design Lab Co/Pre-req: EENG 2710	1	F., Sp., Su.
	Comm. Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	TECM 2700	Technical Writing Pre-req: Communication Core	3	F., Sp., Su.
	Total Hours		18		University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
					Total Hours		17	
	MATH	Linear Algebra	3	F., Sp.,	MATH	Multivariable Calculus	3	F., Sp.,
	2700	Pre-req: MATH 1720		Su.	2730	Pre-req: MATH 1720		Su.
	MATH 3410	Differential Equations Pre-req: MATH 1720	3	F., Sp., Su.	EENG 2620	Signals and Systems Pre-regs: EENG 2610/2611 Co/Pre-reg: MATH 2730 or 3410	3	F., Sp.
Q	PHYS 2220	Electricity & Magnetism Pre-regs: MATH 1720 & PHYS 1710/1730	3	F., Sp., Su.	EENG 2621	Signals and Systems Lab Co/Pre-req: EENG 2620	1	F., Sp.
Year Two	PHYS 2240	Electricity & Magnetism Lab Co/Pre-req: PHYS 2220	1	F., Sp. Su.	EENG 2920	Analog Circuit Design Pre-regs: EENG 1910, EENG 2610/2611, and EENG 2710/2711	3	F., Sp.
•	EENG 2610	Circuit Analysis Co/Pre-regs: PHYS 2220/2240, MATH 3410	3	F., Sp., Su.	EENG 2980	Engineering Tools Pre-regs: TBD	3	F., Sp.
	EENG 2611	Circuit Analysis Lab Co/Pre-regs: EENG 2610	1	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	Total Hours	,	14		Total Hours		16	
	MATH	Applied Statistics	3	F., Sp.,	EENG	Electronics II	3	F., Sp.
	3680	Pre-req: MATH 1710, Co/Pre-req: MATH 1720		Su.	3520	Pre-regs: EENG 3510/3511		
	EENG 3410	Electromagnetics Pre-regs: EENG 2610/2611	3	F., Sp.	EENG 3710	Computer Organization Pre-reqs: EENG 2710/2711, CSCE 1030	3	F., Sp.
	EENG 3411	Electromagnetics Lab Co/Pre-req: EENG 3410	1	F., Sp.	EENG 3810	Communications Systems Pre-regs: EENG 2620, 3510, MATH 3680	3	F., Sp.
hree	EENG 3510	Electronics I Pre-regs: EENG 2610/2611	3	F., Sp., Su.	EENG 3811	Communications Systems Lab Co/Pre-req: EENG 3810	1	F., Sp.
Year Three	EENG 3511	Electronics I Lab Co/Pre-req: EENG 3510	1	F., Sp., Su.	EENG 3920	Modern Communications System Design Pre-req: EENG 2920 Co/Pre-reg: EENG 3520, 3810, 2811	3	F., Sp.
	EENG 3910	DSP System Design Pre-regs: EENG 2620/2621 and EENG 2920	3	F., Sp.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	Total Hours		16	
	Total Hours		17					
	EENG	Senior Design I	3	F., Sp.	EENG	Senior Design II	3	F., Sp.
	4910 EENG	Pre-reqs: EENG 3810/3811, 3910, 3920 Options at mydegreeaudit.unt.edu	3	F., Sp.	4990 EENG	Pre-regs: EENG 4910 Options at mydegreeaudit.unt.edu	3	F., Sp.
ŗ	Elective EENG	Must complete pre-reqs Options at mydegreeaudit.unt.edu	3	F., Sp.	Elective EENG	Must complete pre-reqs Options at mydegreeaudit.unt.edu	3	F., Sp.
Year Four	Elective EENG	Must complete pre-reqs Options at mydegreeaudit.unt.edu	3	F., Sp.	Elective University	Must complete pre-reqs Options on mydegreeaudit.unt.edu	3	F., Sp.,
Ye	Elective University	Must complete pre-reqs Options on mydegreeaudit.unt.edu	3	F., Sp.,	Core University	Options on mydegreeaudit.unt.edu	3	Su. F., Sp.,
	Core Total			Su.	Core Total			Su.
	Hours		15		Hours		15	

Electrical Engineering – Pre-Calculus

2022-2023 Catalog: Sample Four-Year Schedule

	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
	MATH 1650	Pre-Calculus Pre-reg: MATH 1100 or Test Placement	5	F., Sp.,	MATH 1710	Calculus I Pre-reg: MATH 1650 or Test Placement	4	F., Sp., Su.
	CHEM	General Chemistry I	3	Su. F., Sp.,	CSCE	Computer Science I	4	F., Sp.,
	1410	Pre-req: MATH 1100 or higher		Su.	1030	Pre-req: MATH 1650, Co-req: MATH 1710		Su.
Year One	CHEM 1430	General Chemistry I Lab Co/Pre-reg: CHEM 1410	1	F., Sp., Su.	EENG 2710	Digital Logic Design	3	F., Sp., Su.
ar C	EENG	Intro to Electrical Engineering	3	F., Sp.	EENG	Digital Logic Design Lab	1	F., Sp.,
Ϋ́e	1910				2711	Co/Pre-req: EENG 2710		Su.
	Comm. Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	TECM 2700	Technical Writing Pre-req: Communication Core	3	F., Sp., Su.
	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	Core			Su.	Core			Su.
	Total		10		Total		10	
	Hours		18		Hours		18	
	MATH	Calculus II	3	F., Sp.,	MATH	Linear Algebra	3	F., Sp.,
	1720	Pre-req: MATH 1710		Su.	2700	Pre-reg: MATH 1720		Su.
	PHYS 1710	Mechanics Pre-reg: MATH 1710	3	F., Sp., Su.	MATH 3410	Differential Equations Pre-req: MATH 1720	3	F., Sp., Su.
	PHYS	Mechanics Lab	1	F., Sp.,	PHYS	Electricity & Magnetism	3	F., Sp.,
0	1730	Co/Pre-req: PHYS 1710		Su.	2220	Pre-regs: MATH 1720 & PHYS 1710/1730		Su.
Year Two	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	PHYS 2240	Electricity & Magnetism Lab Co/Pre-reg: PHYS 2220	1	F., Sp. Su.
ear	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	EENG	Circuit Analysis	3	F., Sp.,
>	Core			Su.	2610	Co/Pre-reqs: PHYS 2220/2240, MATH 3410		Su.
	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	EENG 2611	Circuit Analysis Lab Co/Pre-regs: EENG 2610	1	F., Sp.,
	Core Total			Su.	University	Options on mydegreeaudit.unt.edu	3	Su. F., Sp.,
	Hours		16		Core	opinion, and a second a second and a second		Su.
					Total		17	
					Hours		1/	
	MATH	Applied Statistics	3	F., Sp.,	MATH	Multivariable Calculus	3	F., Sp.,
	3680 EENG	Pre-req: MATH 1710, Co/Pre-req: MATH 1720 Signals and Systems	3	Su. F., Sp.	2730 EENG	Pre-req: MATH 1720 Electronics II	3	Su. F., Sp.
	2620	Pre-regs: EENG 2610/2611	3	r., sp.	3520	Pre-regs: EENG 3510/3511	3	r., sp.
		Co/Pre-req: MATH 2730 or 3410				·		
	EENG 2621	Signals and Systems Lab Co/Pre-req: EENG 2620	1	F., Sp.	EENG 3810	Communications Systems Pre-regs: EENG 2620, 3510, MATH 3680	3	F., Sp.
e e	EENG	Analog Circuit Design	3	F., Sp.	EENG	Communications Systems Lab	1	F., Sp.
hree	2920	Pre-reqs: EENG 1910, EENG 2610/2611, EENG			3811	Co/Pre-req: EENG 3810		
ı.	EENG	2710/2711 Engineering Tools	3	F., Sp.	EENG	DSP System Design	3	F., Sp.
Year T	2980	Pre-regs: TBD	3	τ., σρ.	3910	Pre-reqs: EENG 2620/2621, EENG 2920		1., 50.
	EENG	Electronics I	3	F., Sp.,	EENG	Modern Communications System Design	3	F., Sp.
	3510	Pre-regs: EENG 2610/2611		Su.	3920	Pre-req: EENG 2920 Co/Pre-reg: EENG 3520, 3810, 2811		
	EENG	Electronics I Lab	1	F., Sp.,	Total	COFFE-FEG. LLING 3320, 3810, 2811		
	3511	Co/Pre-req: EENG 3510		Su.	Hours		16	
	Total		4.7					
	Hours		17					
	EENG	Electromagnetics	3	F., Sp.	EENG	Computer Organization	3	F., Sp.
	3410	Pre-reqs: EENG 2610/2611 Electromagnetics Lab	1	F C-	3710 EENG	Pre-regs: EENG 2710/2711, CSCE 1030	3	F C-
	EENG 3411	Co/Pre-req: EENG 3410	1	F., Sp.	4990	Senior Design II Pre-regs: EENG 4910	3	F., Sp.
_	EENG	Senior Design I	3	F., Sp.	EENG	Options at mydegreeaudit.unt.edu	3	F., Sp.
our	4910	Pre-regs: EENG 3810/3811, 3910, 3920	2	E Cn	Elective	Must complete pre-reqs	2	E Cn
Year Four	EENG Elective	Options at mydegreeaudit.unt.edu Must complete pre-reqs	3	F., Sp.	EENG Elective	Options at mydegreeaudit.unt.edu Must complete pre-reqs	3	F., Sp.
Yea	EENG	Options at mydegreeaudit.unt.edu	3	F., Sp.	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	Elective	Must complete pre-reqs		F 0	Core			Su.
	EENG Elective	Options at mydegreeaudit.unt.edu Must complete pre-reqs	3	F., Sp.	Total Hours		15	
	Total				1.5	1		I.
	Hours		16					

Electrical Engineering – College Algebra

2022-2023 Catalog: Sample Five-Year Schedule

	Fall	2022-2023 (Course Title	Credit	Term(s)	Spring	Course Title	Credit	Term(s)
	Semester	354.55 1145	Hours	Offered	Semester		Hours	Offered
	MATH	College Algebra	3	F., Sp.,	MATH	Pre-Calculus	5	F., Sp.,
a)	1100	Pre-reg: TSI Completion		Su.	1650	Pre-req: MATH 1100 or Test Placement		Su.
Year One	EENG 1910	Intro to Electrical Engineering	3	F., Sp.	CHEM 1410	General Chemistry I Pre-reg: MATH 1100 or higher	3	F., Sp., Su.
ar (Comm.	Options on mydegreeaudit.unt.edu	3	F., Sp.,	CHEM	General Chemistry I Lab	1	F., Sp.,
ζ K	Core	70		Su.	1430	Co/Pre-req: CHEM 1410		Su.
	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	TECM	Technical Writing	3	F., Sp.,
	Core			Su.	2700	Pre-req: Communication Core		Su.
	Total Hours		12		Total Hours		12	
	110013		12		110013		12	
	MATH	Calculus I	4	F., Sp.,	MATH	Calculus II	3	F., Sp.,
	1710	Pre-req: MATH 1650 or Test Placement		Su.	1720	Pre-req: MATH 1710		Su.
	CSCE 1030	Computer Science I Pre-req: MATH 1650 or Co-req: MATH 1710	4	F., Sp., Su.	PHYS 1710	Mechanics Pre-reg: MATH 1710	3	F., Sp., Su.
Year Two	EENG	Digital Logic Design	3	F., Sp.,	PHYS	Mechanics Lab	1	F., Sp.,
֡֝֟֡֟֡֟֡֟ ֡	2710	5.8.00.208.0.2038.1		Su.	1730	Co/Pre-req: PHYS 1710	_	Su.
, e	EENG	Digital Logic Design Lab	1	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	2711	Co/Pre-req: EENG 2710		Su.	Core	0.11	2	Su.
	Total Hours		12		University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	110013	<u> </u>	1 12	I	Total			Ju.
					Hours		13	
		Large		T		Tarin di al		
	MATH 3410	Differential Equations Pre-req: MATH 1720	3	F., Sp., Su.	MATH 2730	Multivariable Calculus Pre-reg: MATH 1720	3	F., Sp., Su.
	PHYS	Electricity & Magnetism	3	F., Sp.,	EENG	Signals and Systems	3	F., Sp.
	2220	Pre-regs: MATH 1720 & PHYS 1710/1730		Su.	2620	Pre-regs: EENG 2610/2611 Co/Pre-req: MATH 2730 or 3410		, 50.
o o	PHYS	Electricity & Magnetism Lab	1	F., Sp.	EENG	Signals and Systems Lab	1	F., Sp.
ıre	2240	Co/Pre-req: PHYS 2220		Su.	2621	Co/Pre-req: EENG 2620		
Year Three	EENG 2610	Circuit Analysis Co/Pre-regs: PHYS 2220/2240, MATH 3410	3	F., Sp., Su.	EENG 2920	Analog Circuit Design Pre-regs: EENG 1910, EENG 2610/2611, and EENG 2710/2711	3	F., Sp.
ear	EENG	Circuit Analysis Lab	1	F., Sp.,	EENG	Engineering Tools	3	F., Sp.
>	2611	Co/Pre-reqs: EENG 2610		Su.	2980	Pre-reqs: TBD		,
	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	Total			
	Core Total			Su.	Hours		13	
	Hours		14					
			1					
	MATH	Applied Statistics	3	F., Sp.,	MATH	Linear Algebra	3	F., Sp.,
	3680	Pre-req: MATH 1710, Co/Pre-req: MATH 1720		Su.	2700	Pre-req: MATH 1720	2	Su.
	EENG 3510	Electronics I Pre-regs: EENG 2610/2611	3	F., Sp., Su.	EENG 3520	Electronics II Pre-regs: EENG 3510/3511	3	F., Sp.
	EENG	Electronics I Lab	1	F., Sp.,	EENG	Communications Systems	3	F., Sp.
'n	3511	Co/Pre-req: EENG 3510		Su.	3810	Pre-reqs: EENG 2620, 3510, MATH 3680		, ,
l F	EENG	DSP System Design	3	F., Sp.	EENG	Communications Systems Lab	1	F., Sp.
Year Fou	3910 University	Pre-reqs: EENG 2620/2621 and EENG 2920 Options on mydegreeaudit.unt.edu	3	F., Sp.,	3811 EENG	Co/Pre-req: EENG 3810 Modern Communications System Design	3	F., Sp.
>	Core	Options on mydegreeaddit.unt.edd	3	r., sμ., Su.	3920	Pre-req: EENG 2920 Co/Pre-reg: EENG 3520, 3810, 2811	5	r., sp.
	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	Core			Su.	Core			Su.
	Total		16		Total		4.6	
	Hours		16		Hours	1	16	
	EENG	Electromagnetics	3	F., Sp.	EENG	Computer Organization	3	F., Sp.
	3410	Pre-reqs: EENG 2610/2611		, - F	3710	Pre-regs: EENG 2710/2711, CSCE 1030		, - F ·
	EENG	Electromagnetics Lab	1	F., Sp.	EENG	Senior Design II	3	F., Sp.
	3411 EENG	Co/Pre-req: EENG 3410 Senior Design I	3	E C~	4990 EENG	Pre-reqs: EENG 4910 Options at mydegreeaudit.unt.edu	3	E C~
ē	4910	Pre-regs: EENG 3810/3811, 3910, 3920	3	F., Sp.	Elective	Must complete pre-regs	3	F., Sp.
Year Five	EENG	Options at mydegreeaudit.unt.edu	3	F., Sp.	EENG	Options at mydegreeaudit.unt.edu	3	F., Sp.
ā	Elective	Must complete pre-reqs			Elective	Must complete pre-reqs		
۲e	EENG	Options at mydegreeaudit.unt.edu	3	F., Sp.	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	Elective	Must complete pre-reqs	_		Core		1	Su.
1	EENG Elective	Options at mydegreeaudit.unt.edu Must complete pre-regs	3	F., Sp.	Total Hours		15	
		I IVIUSE CUITIDIELE DI E-I EUS			 HOUIS 	1	1 13	Ì
	Total					•		•

ENGL, TECM, MATH, CSCE, CHEM, PHYS, and EENG courses require minimum grade of "C" for completion and/or prerequisite. This is an unofficial sample schedule.

Requirements, prerequisites, corequisites, and term offerings may change. You should check your degree audit at mydegreeaudit.unt.edu each term. You should meet with your advisor each term to discuss individual scheduling, program decisions, etc.

Information Technology

Bachelor of Arts (B.A.) degree with a major in Information Technology
Department of Computer Science and Engineering, Discovery Park (NTDP) F-201; (940) 565-2767

University Core

COMMUNICATION

1 Course (3 Hours) – see mydegreeaudit.unt.edu
 Grade of "C" or better is required

AMERICAN HISTORY I

□ 1 Course (3 Hours) chosen from HIST 2610 or HIST 2675

AMERICAN HISTORY II

□ 1 Course (3 Hours) chosen from HIST 2620 or HIST 2685

FEDERAL GOVERNMENT/POLITICAL SCIENCE

☐ 1 Course (3 Hours) chosen from PSCI 2305 or PSCI 2315

STATE GOVERNMENT/POLITICAL SCIENCE

☐ 1 Course (3 Hours) chosen from PSCI 2306 or PSCI 2316

CREATIVE ARTS

□ 1 Course (3 Hours) – see mydegreeaudit.unt.edu

LANGUAGE, PHILOSOPHY, AND CULTURE

□ 1 Course (3 Hours) – see mydegreeaudit.unt.edu

SOCIAL AND BEHAVIORAL SCIENCES

☐ 1 Course (3 Hours) – see mydegreeaudit.unt.edu

Major Requirements

Grades of C or better

TECHNICAL COMMUNICATIONS

☐ TECM 2700, Technical Writing (3 Hours)

MATHEMATICS

- MATH 1710, Calculus I (4 Hours)
- MATH 1680 or MATH 1780, Probability (3 Hours)

SCIENCES

- PHYS 1710, Mechanics (3 Hours) & PHYS 1730 Mechanics Lab (1 Hour)
- CHEM 1410, General Chemistry I (3 Hours) & CHEM 1430, General Chemistry I Lab (1 Hour)

Or

BIOL 1710, Biology I (3 hours) & BIOL 1760, Biology Lab (2 Hours)

Major Requirements

Grades of C or better

COMPUTER SCIENCE AND ENGINEERING

- CSCE 1030, Computer Science I (4 Hours)
- □ CSCE 1040, Computer Science II (3 Hours)
- □ CSCE 2100, Foundations of Computing (3 Hours)
- □ CSCE 2110, Foundations of Data Structures (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 3550, Foundations of Computer Security (3 Hours)
- CSCE 3600, Principles of Systems Programming (3 Hours)
- □ CSCE 3605, Systems Administration (3 Hours)
- □ CSCE 3615, Enterprise Systems Arch., Analysis and Design (3 Hours)
- □ CSCE 4010, Social Issues in Computing (3 Hours)
- ☐ CSCE 4350, Fundamentals of Database Systems (3 Hours)
- □ CSCE 4355, Database Administration (3 Hours)
- □ CSCE 4535, Network Administration (3 Hours)
- □ CSCE 4905, Information Technology Capstone I (3 Hours)
- CSCE 4925, Information Technology Capstone II (3 Hours)

SUPPORTING AREA

- Course approved by an advisor (3 Hours)
- Course approved by an advisor (3 Hours)
- ☐ Course approved by an advisor (3 Hours)
- Course approved by an advisor (3 Hours)
- □ Course approved by an advisor (3 Hours)
- ☐ Course approved by an advisor (3 Hours)
- ☐ Course approved by an advisor (3 Hours)

You must choose a supporting area (21 Hours) and complete approved courses. Check with your advisor concerning approved classes. Suggestions include, but are not limited to:

Security Health Professions

Networking Pre-Med/Pre-Vet/Pre-Dental

Information Systems Pre-Law

Data Science Education/Teach North Texas

Web Development Pre-MBA Business
Game Development General Business
Project Management Management
Technical Communications Marketing

Microsoft/Oracle/Cisco Cert. Logistics/Decision Sciences

Information Science

Graphic/Communications Design Geographic Information Systems (GIS)

Completion of CSCE 2610, CSCE 4560, & CSCE 4600 toward a Supporting Area in Security/Networking also earns a Security Certificate from the National Security Agency/ Department of Homeland Security. CSCE 2610 requires EENG 2710 as prerequisite.

A maximum of 6 hours may be taken for the Supporting Area from CSCE 4890, 4920, 4930, 4940, or 4950.

This is an unofficial simplified checklist effective fall 2022. Degree requirements may change. You may need elective courses to help reach a minimum of 121 Total Hours and 42 Advanced Hours. Check with an advisor.

Information Technology – Calculus I

2022-2023 Catalog: Sample Four-Year Schedule

	Fall	Course Title	Credit	Term(s)	Spring	Course Title	Credit	Term(s)
	Semester		Hours	Offered	Semester		Hours	Offered
	MATH 1710	Calculus I Pre-req: MATH 1650 or Test Placement	4	F., Sp., Su.	CSCE 1040	Computer Science II Pre-req: CSCE 1030 Co/Pre-req: MATH 1710	3	F., Sp., Su.
ne	CHEM 1410 or BIOL 1710	General Chemistry or Biology Pre-req for CHEM 1410: MATH 1100 or higher Pre-req for BIOL 1710: none	3	F., Sp., Su.	MATH 1680 or MATH 1780	Statistics or Probability Models Pre-req for MATH 1680: none Pre-req for MATH 1780: MATH 1710	3	F., Sp., Su.
Year One	CHEM 1430 or BIOL 1760	General Chemistry I Lab or Biology I Lab Co/Pre-req for CHEM 1430: CHEM 1410 Co/Pre-req for BIOL 1760: BIOL 1710	1-2	F., Sp., Su.	TECM 2700	Technical Writing Pre-req: Communication Core	3	F., Sp., Su.
	CSCE 1030	Computer Science I Pre-req: MATH 1650 or Co-req: MATH 1710	4	F., Sp.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	Comm. Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	Total Hours		15-16		Total Hours		15	
	CSCE 2100	Foundations of Computing Pre-reg: CSCE 1040	3	F., Sp., Su.	CSCE 2110	Foundations of Data Structures Pre-reg: CSCE 1040	3	F., Sp., Su.
	PHYS 1710	Mechanics Pre-req: MATH 1710	3	F., Sp., Su.	CSCE 3600	Systems Programming Pre-req: CSCE 2100	3	F., Sp.
WO	PHYS 1730	Mechanics Lab Co/Pre-req: PHYS 1710	1	F., Sp., Su.	Supporting Area	Options via mydegreeaudit.unt.edu or your advisor	3	F., Sp.
Year Two	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
>	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	University	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	University Core Total	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	Total Hours		15	
	Hours		16					
	CSCE 3055	IT Project Management Pre-req: CSCE 2100	3	F.	CSCE 3605	Systems Administration Pre-regs: CSCE 3600	3	Sp.
	CSCE 3220	Human Computer Interfaces Pre-req: CSCE 2100, 2110	3	F.	CSCE 3615	Enterprise Systems Architecture Pre-reqs: CSCE 2100	3	Sp.
ear Three	CSCE 3420	Internet Programming Pre-req: CSCE 2100, 2110	3	F.	CSCE 4010	Social Issues Pre-regs: CSCE 3600	3	F., Sp.
Year	CSCE 3530	Introduction to Computer Networks Pre-req: CSCE 3600	3	F., Sp.	CSCE 4350	Database Systems Pre-req: CSCE 2100, 2110	3	Sp.
	Supporting Area	Options via mydegreeaudit.unt.edu or your advisor	3	F., Sp.	Supporting Area	Options via mydegreeaudit.unt.edu or your advisor	3	F., Sp.
	Total Hours		15		Total Hours		15	
	CSCE 3550	Foundations of Computer Security Pre-req: CSCE 2110	3	F.	CSCE 4925	Capstone II Pre-req: CSCE 4905	3	Sp.
	CSCE 4355	Database Administration Pre-req: CSCE 4350	3	F.	Supporting Area	Options via mydegreeaudit.unt.edu or your advisor	3	F., Sp.
Year Four	CSCE 4535	Network Administration Pre-req: CSCE 3530	3	F.	Supporting Area	Options via mydegreeaudit.unt.edu or your advisor	3	F., Sp.
Year	CSCE 4905	Capstone I Pre-reqs: CSCE 3055, 3615	3	F.	Supporting Area	Options via mydegreeaudit.unt.edu or your advisor	3	F., Sp.
	Supporting Area	Options via mydegreeaudit.unt.edu or your advisor	3	F., Sp.	Misc. Elective	MISC. Elective to reach 121 Hours (If needed)	3	F., Sp., Su.
	Total Hours		15		Total Hours		15	

ENGL, TECM, MATH, CHEM, PHYS, BIOL, CSCE and Supporting Area courses require minimum grade of "C" for completion and/or prerequisite. This is an unofficial sample schedule. Requirements, prerequisites, corequisites, and term offerings may change. You should check your degree audit at mydegreeaudit.unt.edu each term. You should meet with your advisor each term to discuss individual scheduling, program decisions, etc.

Information Technology – Pre-Calculus

2022-2023 Catalog: Sample Four-Year Schedule

	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
	MATH	Pre-Calculus	5	F., Sp.,	MATH	Calculus I	4	F., Sp.,
	1650	Pre-req: MATH 1100 or Test Placement		Su.	1710	Pre-req: MATH 1650 or Test Placement		Su.
	CHEM	General Chemistry I or Biology I	3	F., Sp.,	CSCE	Computer Science I	4	F., Sp.,
	1410 or	Pre-req for CHEM 1410: MATH 1100 or higher		Su.	1030	Pre-req: MATH 1650 or Co-req: MATH		Su.
Year One	BIOL 1710	Pre-req for BIOL 1710: none				1710		
0	CHEM	General Chemistry I Lab or Biology I Lab	1-2	F., Sp.,	TECM	Technical Writing	3	F., Sp.,
ar	1430 or	Co/Pre-req for CHEM 1430: CHEM 1410		Su.	2700	Pre-req: Communication Core		Su.
۶	BIOL 1760	Co/Pre-req for BIOL 1760: BIOL 1710						
	Comm. Core	Options on mydegreeaudit.unt.edu	3	F., Sp.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	Core			Su.	Core			Su.
	Total				Total			
	Hours		15-16		Hours		17	
			•					
	MATH	Statistics or Probability Models	3	F., Sp.,	CSCE	Foundations of Computing	3	F., Sp.,
	1680 or	Pre-req for MATH 1680: none		Su.	2100	Pre-req: CSCE 1040		Su.
	MATH	Pre-req for MATH 1780: MATH 1710						
	1780							
	CSCE	Computer Science II	3	F., Sp.,	CSCE	Foundations of Data Structures	3	F., Sp.,
_	1040	Pre-req: CSCE 1030 Co/Pre-req: MATH 1710		Su.	2110	Pre-req: CSCE 1040		Su.
Š	PHYS	Mechanics	3	F., Sp.,	Supporting	Options via mydegreeaudit.unt.edu or	3	Varies
Ë	1710	Pre-req: MATH 1710		Su.	Area	your advisor		
Year Two	PHYS	Mechanics Lab	1	F., Sp.	University	Options via mydegreeaudit.unt.edu or	3	F., Sp.,
	1730	Co/Pre-req: PHYS 1710			Core	your advisor		Su.
	Supporting Area	Options via mydegreeaudit.unt.edu or your advisor	3	Varies	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su
	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	Total			Ju
	Core	Options on mydegreeaudit.unt.edu	3	r., sp., Su.	Hours		15	
	Total			Ju.	riours		13	
	Hours		16					
	65.65	IT Decises Management	1 2	-	CCCE	Later to discuss Communication National	1 2	F C:
	CSCE	IT Project Management	3	F.	CSCE	Introduction to Computer Networks	3	F., Sp.
	3055	Pre-req: CSCE 2100			3530	Pre-req: CSCE 3600		
	CSCE	Human Computer Interfaces	3	F.	CSCE	Systems Administration	3	Sp.
a	3220	Pre-req: CSCE 2100, 2110			3605	Pre-reqs: CSCE 3600		
ē	CSCE	Internet Programming	3	F.	CSCE	Enterprise Systems Architecture	3	Sp.
Ė	3420	Pre-req: CSCE 2100, 2110			3615	Pre-reqs: CSCE 2100		
Year Three	CSCE	Systems Programming	3	F., Sp.	CSCE	Database Systems	3	Sp.
Υe	3600	Pre-req: CSCE 2100			4350	Pre-req: CSCE 2100, 2110		
	Supporting	Options via mydegreeaudit.unt.edu or your	3	F., Sp.	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	Area	advisor			Core			Su.
	Total				Total		1	
	Hours		15		Hours		15	
		Equipositions of Computer Security		F 1		Social Issues		E C~
	CSCE	Foundations of Computer Security	3	F.	CSCE	Social Issues	3	F., Sp.
	CSCE 3550	Pre-req: CSCE 2110	3		CSCE 4010	Pre-reqs: CSCE 3600	3	
	CSCE 3550 CSCE	Pre-req: CSCE 2110 Database Administration		F. F.	CSCE 4010 CSCE	Pre-reqs: CSCE 3600 Capstone II		F., Sp.
<u>.</u>	CSCE 3550 CSCE 4355	Pre-req: CSCE 2110 Database Administration Pre-req: CSCE 4350	3 3	F.	CSCE 4010 CSCE 4925	Pre-reqs: CSCE 3600 Capstone II Pre-req: CSCE 4905	3	Sp.
our	CSCE 3550 CSCE 4355 CSCE	Pre-req: CSCE 2110 Database Administration Pre-req: CSCE 4350 Network Administration	3		CSCE 4010 CSCE 4925 Supporting	Pre-reqs: CSCE 3600 Capstone II Pre-req: CSCE 4905 Options via mydegreeaudit.unt.edu or	3	
· Four	CSCE 3550 CSCE 4355 CSCE 4535	Pre-req: CSCE 2110 Database Administration Pre-req: CSCE 4350 Network Administration Pre-req: CSCE 3530	3 3	F.	CSCE 4010 CSCE 4925 Supporting Area	Pre-reqs: CSCE 3600 Capstone II Pre-req: CSCE 4905 Options via mydegreeaudit.unt.edu or your advisor	3 3	Sp. F., Sp.
sar Four	CSCE 3550 CSCE 4355 CSCE 4535 CSCE	Pre-req: CSCE 2110 Database Administration Pre-req: CSCE 4350 Network Administration Pre-req: CSCE 3530 Capstone I	3 3	F.	CSCE 4010 CSCE 4925 Supporting Area Supporting	Pre-reqs: CSCE 3600 Capstone II Pre-req: CSCE 4905 Options via mydegreeaudit.unt.edu or your advisor Options via mydegreeaudit.unt.edu or	3	Sp.
Year Four	CSCE 3550 CSCE 4355 CSCE 4535 CSCE 4905	Pre-req: CSCE 2110 Database Administration Pre-req: CSCE 4350 Network Administration Pre-req: CSCE 3530 Capstone I Pre-reqs: CSCE 3055, 3615	3 3 3	F. F.	CSCE 4010 CSCE 4925 Supporting Area Supporting Area	Pre-reqs: CSCE 3600 Capstone II Pre-req: CSCE 4905 Options via mydegreeaudit.unt.edu or your advisor Options via mydegreeaudit.unt.edu or your advisor	3 3 3	Sp. F., Sp. F., Sp.
Year Four	CSCE 3550 CSCE 4355 CSCE 4535 CSCE	Pre-req: CSCE 2110 Database Administration Pre-req: CSCE 4350 Network Administration Pre-req: CSCE 3530 Capstone I	3 3	F.	CSCE 4010 CSCE 4925 Supporting Area Supporting	Pre-reqs: CSCE 3600 Capstone II Pre-req: CSCE 4905 Options via mydegreeaudit.unt.edu or your advisor Options via mydegreeaudit.unt.edu or	3 3	Sp. F., Sp.
Year Four	CSCE 3550 CSCE 4355 CSCE 4535 CSCE 4905 Supporting	Pre-req: CSCE 2110 Database Administration Pre-req: CSCE 4350 Network Administration Pre-req: CSCE 3530 Capstone I Pre-reqs: CSCE 3055, 3615 Options via mydegreeaudit.unt.edu or your	3 3 3	F. F.	CSCE 4010 CSCE 4925 Supporting Area Supporting Area Supporting	Pre-reqs: CSCE 3600 Capstone II Pre-req: CSCE 4905 Options via mydegreeaudit.unt.edu or your advisor Options via mydegreeaudit.unt.edu or your advisor Options via mydegreeaudit.unt.edu or your advisor Options via mydegreeaudit.unt.edu or	3 3 3	Sp. F., Sp. F., Sp. F., Sp.
Year Four	CSCE 3550 CSCE 4355 CSCE 4535 CSCE 4905 Supporting Area	Pre-req: CSCE 2110 Database Administration Pre-req: CSCE 4350 Network Administration Pre-req: CSCE 3530 Capstone I Pre-reqs: CSCE 3055, 3615 Options via mydegreeaudit.unt.edu or your	3 3 3	F. F.	CSCE 4010 CSCE 4925 Supporting Area Supporting Area Supporting Area	Pre-reqs: CSCE 3600 Capstone II Pre-req: CSCE 4905 Options via mydegreeaudit.unt.edu or your advisor	3 3 3 3	Sp. F., Sp. F., Sp.
Year Four	CSCE 3550 CSCE 4355 CSCE 4535 CSCE 4905 Supporting Area	Pre-req: CSCE 2110 Database Administration Pre-req: CSCE 4350 Network Administration Pre-req: CSCE 3530 Capstone I Pre-reqs: CSCE 3055, 3615 Options via mydegreeaudit.unt.edu or your	3 3 3 3	F. F.	CSCE 4010 CSCE 4925 Supporting Area Supporting Area Supporting Area Supporting	Pre-reqs: CSCE 3600 Capstone II Pre-req: CSCE 4905 Options via mydegreeaudit.unt.edu or your advisor Options via mydegreeaudit.unt.edu or	3 3 3 3	Sp. F., Sp. F., Sp. F., Sp.

ENGL, TECM, MATH, CHEM, PHYS, BIOL, CSCE and Supporting Area courses require minimum grade of "C" for completion and/or prerequisite. This is an unofficial sample schedule. Requirements, prerequisites, corequisites, and term offerings may change. You should check your degree audit at mydegreeaudit.unt.edu each term. You should meet with your advisor each term to discuss individual scheduling, program decisions, etc.

Information Technology – College Algebra

2022-2023 Catalog: Sample Five-Year Schedule

	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
	MATH 1100	College Algebra Pre-req: TSI Completion	3	F., Sp., Su.	MATH 1650	Pre-Calculus Pre-reg: MATH 1100 or Test Placement	5	F., Sp., Su.
Year One	Comm. Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	CHEM 1410 or BIOL 1710	General Chemistry I or Biology I Pre-req for CHEM 1410: MATH 1100 or higher Pre-req for BIOL 1710: none	3	F., Sp., Su.
Yea	University Core	Options on mydegreeaudit.unt.edu	1	F., Sp., Su.	CHEM 1430 or BIOL 1760	General Chemistry I Lab or Biology I Lab Co/Pre-req for CHEM 1430: CHEM 1410 Co/Pre-req for BIOL 1760: BIOL 1710	1-2	F., Sp., Su.
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp.	TECM 2700	Technical Writing Pre-req: Communication Core	3	F., Sp., Su.
	Total Hours		12		Total Hours		12-13	
	MATH 1710	Calculus I Pre-req: MATH 1650 or Test Placement	4	F., Sp., Su.	MATH 1680 or MATH 1780	Statistics or Probability Models Pre-req for MATH 1680: none Pre-req for MATH 1780: MATH 1710	3	F., Sp., Su.
9	CSCE 1030	Computer Science I Pre-req: MATH 1650 or Co-req: MATH 1710	4	F., Sp., Su.	CSCE 1040	Computer Science II Pre-req: CSCE 1030 Co/Pre-req: MATH 1710	3	F., Sp., Su.
Year Two	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	PHYS 1710	Mechanics Pre-req: MATH 1710	3	F., Sp., Su.
Ye	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	PHYS 1730	Mechanics Lab Co/Pre-req: PHYS 1710	1	F., Sp., Su.
	Total Hours		14		University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
					Total Hours		13	
	CSCE	Foundations of Computing	3	F., Sp.	CSCE	Foundations of Data Structures	3	F., Sp.,
ee	2100 Supporting Area	Pre-reqs: CSCE 1040 Options via mydegreeaudit.unt.edu or your advisor	3	F., Sp., Su.	2110 CSCE 3600	Pre-reqs: CSCE 1040 Systems Programming Pre-req: CSCE 2100	3	Su. F., Sp., Su.
Year Three	Supporting Area	Options via mydegreeaudit.unt.edu or your advisor	3	F., Sp.	Supporting Area	Options via mydegreeaudit.unt.edu or your advisor	3	F., Sp.
Yea	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	Supporting Area	Options via mydegreeaudit.unt.edu or your advisor	3	F., Sp., Su.
	Total Hours		12		Total Hours		12	
	CSCE 3055	IT Project Management Pre-reg: CSCE 2100	3	F.	CSCE 3605	Systems Administration Pre-regs: CSCE 3600	3	Sp.
	CSCE 3220	Human Computer Interfaces Pre-req: CSCE 2100, 2110	3	F.	CSCE 3615	Enterprise Systems Architecture Pre-regs: CSCE 2100	3	Sp.
Year Four	CSCE 3420	Internet Programming Pre-req: CSCE 2100, 2110	3	F.	CSCE 4010	Social Issues Pre-regs: CSCE 3600	3	F., Sp.
Year	CSCE 3530	Introduction to Computer Networks Pre-req: CSCE 3600	3	F., Sp.	CSCE 4350	Database Systems Pre-req: CSCE 2100, 2110	3	Sp.
	Total Hours		12		University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
					Total Hours		15	
	CSCE 3550	Foundations of Computer Security Pre-rea: CSCE 2110	3	F.	CSCE 4925	Capstone II Pre-reg: CSCE 4905	3	Sp.
ىق	CSCE 4355	Database Administration Pre-req: CSCE 4350	3	F.	Supporting Area	Options via mydegreeaudit.unt.edu or your advisor	3	F., Sp.
Year Five	CSCE 4535	Network Administration Pre-req: CSCE 3530	3	F.	Supporting Area	Options via mydegreeaudit.unt.edu or your advisor	3	F., Sp.
Υe	CSCE 4905	Capstone I Pre-regs: CSCE 3055, 3615	3	F.	Supporting Area	Options via mydegreeaudit.unt.edu or your advisor	3	F., Sp.
	Total Hours		12		Total Hours		12	

ENGL, TECM, MATH, CHEM, PHYS, BIOL, CSCE and Supporting Area courses require minimum grade of "C" for completion and/or prerequisite. This is an unofficial sample schedule. Requirements, prerequisites, corequisites, and term offerings may change. You should check your degree audit at mydegreeaudit.unt.edu each term. You should meet with your advisor each term to discuss individual scheduling, program decisions, etc.

Materials Science and Engineering

Bachelor of Science (B.S.) degree with a major in Materials Science and Engineering Department of Materials Science and Engineering, Discovery Park (NTDP) E-132; (940) 565-3260

University Core

COMMUNICATION

1 Course (3 Hours) – see mydegreeaudit.unt.edu
 Grade of "C" or better is required

AMERICAN HISTORY I

□ 1 Course (3 Hours) chosen from HIST 2610 or HIST 2675

AMERICAN HISTORY II

□ 1 Course (3 Hours) chosen from HIST 2620 or HIST 2685

FEDERAL GOVERNMENT/POLITICAL SCIENCE

□ 1 Course (3 Hours) chosen from PSCI 2305 or PSCI 2315

STATE GOVERNMENT/POLITICAL SCIENCE

□ 1 Course (3 Hours) chosen from PSCI 2306 or PSCI 2316

CREATIVE ARTS

□ 1 Course (3 Hours) – see mydegreeaudit.unt.edu

LANGUAGE, PHILOSOPHY, AND CULTURE

□ 1 Course (3 Hours) – see mydegreeaudit.unt.edu

SOCIAL AND BEHAVIORAL SCIENCES

☐ 1 Course (3 Hours) – see mydegreeaudit.unt.edu

Major Requirements

Grades of C or better

TECHNICAL COMMUNICATIONS

☐ TECM 2700, Technical Writing (3 Hours)

MATHEMATICS

- MATH 1710, Calculus I (4 Hours)
- MATH 1720, Calculus II (3 Hours)
- MATH 2730, Multivariable Calculus (3 Hours)
- MATH 3410, Differential Equations (3 Hours)

Major Requirements

Grades of C or better

SCIENCES

- CHEM 1410, General Chemistry I (3 Hours) &
 - CHEM 1430, General Chemistry I Lab (1 Hour)
- ☐ CHEM 1420, General Chemistry II (3 Hours)
- PHYS 1710, Mechanics (3 Hours) & PHYS 1730 Mechanics Lab (1 Hour)
- PHYS 2220, Electricity & Magnetism (3 Hours) & PHYS 2240, Electricity & Magnetism Lab (1 Hour)
- □ PHYS 3010, Modern Physics (3 Hours)

MATERIALS SCIENCE AND ENGINEERING

- ENGR 2301, Statics (3 Hours)
- ☐ MTSE 1100, Discover How and Why Materials Matter (3 Hours)
- ☐ MTSE 3000, Fundamentals of Materials Science and Engr. I (3 Hours)
- MTSE 3001, Fundamentals of Materials Science and Engr. II (3 Hours)
- ☐ MTSE 3010, Bonding and Structure (3 Hours)
- MTSE 3020, Microstructure and Characterization (3 Hours)
- ☐ MTSE 3030, Thermodynamics and 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, and 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 and Engineering (3 Hours)
- ☐ MTSE 4050, Polymer Science and Engineering (3 Hours)
- MTSE 4060, Materials Selection and Performance (3 Hours)
- MTSE 4100, Senior Design II (3 Hours)

MATERIALS SCIENCE AND ENGINEERING ELECTIVES

- □ 1 MTSE 4*** elective (3 Hours) chosen from list options below
- ☐ 1 MTSE 4*** elective (3 Hours) chosen from list options below

MTSE 4020, Materials in Medicine (3 Hours)

MTSE 4040, Computational Materials Science (3 Hours)

MTSE 4070, Electronic Materials (3 Hours)

Materials Science and Engineering – Calculus I

2022-2023 Catalog: Sample Four-Year Schedule

	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
	MATH	Calculus I	4	F., Sp.,	MATH	Calculus II	3	F., Sp.,
	1710	Pre-req: MATH 1650 or Test Placement	_	Su.	1720	Pre-req: MATH 1710	_	Su.
	CHEM	General Chemistry I	3	F., Sp.,	PHYS	Mechanics	3	F., Sp.,
41	1410	Pre-req: MATH 1100 or higher		Su.	1710	Pre-req: MATH 1710		Su.
Jue	CHEM	General Chemistry I Lab	1	F., Sp.,	PHYS	Mechanics Lab	1	F., Sp.,
, o	1430	Co/Pre-req: CHEM 1410	_	Su.	1730	Co/Pre-req: PHYS 1710	_	Su.
Year One	MTSE 1100	Discover How and Why Materials Matter	3	F.	CHEM 1420	General Chemistry II Pre-req: CHEM 1410, 1430	3	F., Sp.
	Comm.	Options on mydegreeaudit.unt.edu	3	F., Sp.,	TECM	Technical Writing	3	F., Sp.,
	Core			Su.	2700	Pre-req: Communication Core		Su.
	Total				University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	Hours		14		Core			Su.
					Total			
					Hours		16	
	MATH	Multivariable Calculus	3	F., Sp.,	MATH	Differential Equations	3	F., Sp.,
	2730	Pre-reg: MATH 1720		Su.	3410	Pre-reg: MATH 1720		Su.
	PHYS	Electricity & Magnetism	3	F., Sp.,	PHYS	Modern Physics	3	F., Sp.
	2220	Pre-regs: MATH 1720 & PHYS 1710/1730		Su.	3010	Pre-reqs: PHYS 2220, 2240		
	PHYS	Electricity & Magnetism Lab	1	F., Sp.,	MTSE	Fundamentals II	3	Sp.
9	2240	Co/Pre-reg: PHYS 2220		Su.	3001	Co/Pre-req: MTSE 3000		- 1
≥	MTSE	Fundamentals I	3	F., Sp.	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
Year Two	3000	Pre-reg: CHEM 1410, 1430		, -	Core	options on mydegreedudit.unc.edu		Su.
Υe	ENGR	Statics	3	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	2301	Pre-regs: MATH 1710, PHYS 1710, 1730		Su.	Core	Options on mydegreeaudit.unt.edu		Su.
	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	Total			
	Core	Options on mydegreeaddit.unt.edd	3	Γ., 3ρ., Su.	Hours		15	
	Total			50.	Hours		13	
	Hours		16					
		L		I		L	1	l I
	MTSE	Bonding and Structure	3	F.	MTSE	Mechanical Properties	3	Sp.
	3010	Pre-req: MTSE 3000			3050	Pre-req: MTSE 3000		
	MTSE	Microstructure and Characterization	3	F.	MTSE	Phase Transformations	3	Sp.
	3020	Pre-reg: MTSE 3000			3060	Pre-reg: MTSE 3010, 3030, 3040		
	MTSE	Thermodynamics and Phase Diagrams	3	F.	MTSE	Elect., Optical, Magnetic Properties	3	Sp.
e.	3030	Pre-reg: MTSE 3000			3070	Pre-reg: MTSE 3000		·
<u>ب</u>	MTSE	Transport Phenomena	3	F.	MTSE	Materials Processing	3	Sp.
	3040	Pre-reg: MTSE 3000, MATH 3410			3080	Pre-reg: MTSE 3040		
Year Three	MTSE	Laboratory I	1	F.	MTSE	Laboratory II	1	Sp.
	3090	Pre-reg: MTSE 3000	_		3100	Pre-req: MTSE 3090		
	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	Core	options on mydegreeddditiantiedd		Su.	Core	options on mydegreedudicianticad		Su.
	Total				Total			
	Hours		16		Hours		16	
]	MTSE	Physical Metallurgy Principles	3	F.	MTSE	Polymer Science and Engineering	3	Sp.
	4010	Pre-regs: MTSE 3010, 3030, 3040			4050	Pre-req: MTSE 3000		
	MTSE	Ceramic Science and Engineering	3	F.	MTSE	Senior Design II	3	Sp.
	4030	Pre-reqs: MTSE 3010, 3020, 3040	<u> </u>	<u> </u>	4100	Pre-req: MTSE 4090	<u>L</u>	<u> </u>
=	MTSE	Selection and Performance	3	F.	MTSE	MTSE 4020 or MTSE 4040 or MTSE 4070	3	Sp.
Year Four	4060	Pre-regs: MTSE 3030, 3040, 3050			Elective	Must complete pre-reqs		<u> </u>
۲.	MTSE	Senior Design I	3	F.	MTSE	MTSE 4020 or MTSE 4040 or MTSE 4070	3	Sp.
ea	4090	Pre-regs: MTSE 3010, 3020, 3030, 3040, 3050,			Elective	Must complete pre-reqs		
>		3070, 3080	<u>L</u>	<u></u>	<u> </u>			<u> </u>
	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	Total			
	Core		<u>L</u>	Su.	Hours		12	<u> </u>
	Total							
	Hours		15					

ENGL, TECM, MATH, CHEM, PHYS, ENGR, and MTSE courses require minimum grade of "C" for completion and/or prerequisite. This is an unofficial sample schedule. Requirements, prerequisites, corequisites, and term offerings may change. You should check your degree audit at mydegreeaudit.unt.edu each term. You should meet with your advisor each term to discuss individual scheduling, program decisions, etc.

Materials Science and Engineering – Pre-Calculus

2022-2023 Catalog: Sample Four-Year Schedule

	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
	MATH	Pre-Calculus	5	F., Sp.,	MATH	Calculus I	4	F., Sp.,
	1650	Pre-req: MATH 1100, 1600 or Test Placement		Su.	1710	Pre-req: MATH 1650 or Test Placement		Su.
	CHEM	General Chemistry I	3	F., Sp.,	CHEM	General Chemistry II	3	F., Sp.,
	1410	Pre-req: MATH 1100 or higher		Su.	1420	Pre-req: CHEM 1410, 1430		Su.
ne	CHEM	General Chemistry I Lab	1	F., Sp.,	TECM	Technical Writing	3	F., Sp.,
ō	1430	Co/Pre-req: CHEM 1410		Su.	2700	Pre-req: Communication Core		Su.
Year One	MTSE 1100	Discover How and Why Materials Matter	3	F.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp.
	Comm. Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	Total Hours		16	
	Total							
	Hours		18					
		T =				I - 100		l = 0
	MATH 1720	Calculus II Pre-req: MATH 1710	3	F., Sp., Su.	MATH 3410	Differential Equations Pre-req: MATH 1720	3	F., Sp., Su.
	PHYS	Mechanics	3	F., Sp.,	MATH	Multivariable Calculus	3	F., Sp.,
	1710	Pre-req: MATH 1710		Su.	2730	Pre-req: MATH 1720		Su.
	PHYS	Mechanics Lab	1	F., Sp.,	PHYS	Electricity & Magnetism	3	F., Sp.,
8	1730	Co/Pre-req: PHYS 1710		Su.	2220	Pre-reqs: MATH 1720 & PHYS 1710/1730		Su.
Year Two	MTSE	Fundamentals I	3	F., Sp.	PHYS	Electricity & Magnetism Lab	1	F., Sp.,
ea	3000	Pre-req: CHEM 1410, 1430		F C:	2240	Co/Pre-req: PHYS 2220		Su.
>	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	MTSE 3001	Fundamentals II Co/Pre-reg: MTSE 3000	3	Sp.
	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	ENGR	Statics	3	F., Sp.,
	Core	Options on mydegreeaddit.dift.edd	3	ν., 3ρ., Su.	2301	Pre-regs: MATH 1710, PHYS 1710, 1730	3	Su
	Total				Total	110 1043. 111111111111111111111111111111111111		
	Hours		16		Hours		16	
								1
	MTSE	Bonding and Structure	3	F.	MTSE	Mechanical Properties	3	Sp.
	3010	Pre-req: MTSE 3000		_	3050	Pre-req: MTSE 3000		
	MTSE 3020	Microstructure and Characterization Pre-reg: MTSE 3000	3	F.	MTSE 3060	Phase Transformations Pre-reg: MTSE 3010, 3030, 3040	3	Sp.
	MTSE	Thermodynamics and Phase Diagrams	3	F.	MTSE	Elect., Optical, Magnetic Properties	3	Sp.
Year Three	3030	Pre-req: MTSE 3000			3070	Pre-req: MTSE 3000		
₽	MTSE	Transport Phenomena	3	F.	MTSE	Materials Processing	3	Sp.
ar	3040	Pre-req: MTSE 3000, MATH 3410			3080	Pre-req: MTSE 3040		
×	MTSE 3090	Laboratory I Pre-reg: MTSE 3000	1	F.	MTSE 3100	Laboratory II Pre-reg: MTSE 3090	1	Sp.
	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	PHYS	Modern Physics	3	F., Sp.
	Core	Options on mydegreeaddit.unt.edd	3	Γ., 3ρ., Su.	3010	Pre-regs: PHYS 2220, 2240	3	τ., ορ.
	Total				Total	116-1643.11113 2220, 2240		
	Hours		16		Hours		16	
	MTSE	Physical Metallurgy Principles	3	F.	MTSE	Polymer Science and Engineering	3	Sp.
	4010	Pre-reqs: MTSE 3010, 3030, 3040			4050	Pre-req: MTSE 3000		
	MTSE	Ceramic Science and Engineering	3	F.	MTSE	Senior Design II	3	Sp.
	4030	Pre-regs: MTSE 3010, 3020, 3040	-	-	4100	Pre-req: MTSE 4090	-	C
Ž	MTSE 4060	Selection and Performance Pre-regs: MTSE 3030, 3040, 3050	3	F.	MTSE Elective	MTSE 4020 or MTSE 4040 or MTSE 4070 Must complete pre-regs	3	Sp.
<u>2</u>	MTSE	Senior Design I	3	F.	MTSE	MTSE 4020 or MTSE 4040 or MTSE 4070	3	Sp.
Year Four	4090	Pre-reqs: MTSE 3010, 3020, 3030, 3040, 3050, 3070, 3080			Elective	Must complete pre-reqs		Зβ.
	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	Core	· · · · · · · · · · · · · · · · · · ·		Su.	Core			Su.
	Total				Total			
	Hours		15		Hours		15	

ENGL, TECM, MATH, CHEM, PHYS, ENGR, and MTSE courses require minimum grade of "C" for completion and/or prerequisite. This is an unofficial sample schedule. Requirements, prerequisites, corequisites, and term offerings may change. You should check your degree audit at mydegreeaudit.unt.edu each term. You should meet with your advisor each term to discuss individual scheduling, program decisions, etc.

Materials Science and Engineering – College Algebra

2022-2023 Catalog: Sample Five-Year Schedule

	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
	MATH	College Algebra	3	F., Sp.,	MATH	Pre-Calculus	5	F., Sp.,
	1100	Pre-req: TSI Completion		Su.	1650	Pre-req: MATH 1100, 1600 or Test Placement		Su.
ne	MTSE 1100	Discover How and Why Materials Matter	3	F.	CHEM 1410	General Chemistry I Pre-reg: MATH 1100 or higher	3	F., Sp., Su.
Year One	Comm.	Options on mydegreeaudit.unt.edu	3	F., Sp.,	CHEM	General Chemistry I Lab	1	F., Sp.,
Υe	Core University	Options on mydegreeaudit.unt.edu	3	Su. F., Sp.,	1430 TECM	Co/Pre-req: CHEM 1410 Technical Writing	3	Su. F., Sp.,
	Core			Su.	2700	Pre-req: Communication Core	, i	Su.
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	Total Hours		12	
	Total		15					ı
	Hours	<u> </u>	15					
	MATH 1710	Calculus I	4	F., Sp.,	MATH 1720	Calculus II	3	F., Sp.,
	1710 CHEM	Pre-req: MATH 1650 or Test Placement General Chemistry II	3	Su. F., Sp.,	PHYS	Pre-req: MATH 1710 Mechanics	3	Su. F., Sp.,
0	1420	Pre-req: CHEM 1410, 1430		Su.	1710	Pre-req: MATH 1710		Su.
	MTSE 3000	Fundamentals I Pre-req: CHEM 1410, 1430	3	F., Sp.	PHYS 1730	Mechanics Lab Co/Pre-reg: PHYS 1710	1	F., Sp., Su.
Year Two	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	MTSE	Fundamentals II	3	Sp.
	Core Total			Su.	3001 University	Co/Pre-req: MTSE 3000 Options on mydegreeaudit.unt.edu	3	F., Sp.,
	Hours		13		Core			Su.
					Total Hours		13	
		Land the could be a second of the could be a s	1 2	F 6:		Differential Security of	1 2	F 6:
	MATH 2730	Multivariable Calculus Pre-req: MATH 1720	3	F., Sp., Su.	MATH 3410	Differential Equations Pre-req: MATH 1720	3	F., Sp., Su.
	PHYS	Electricity & Magnetism	3	F., Sp.,	PHYS	Modern Physics	3	F., Sp.
ee	2220 PHYS	Pre-reqs: MATH 1720 & PHYS 1710/1730 Electricity & Magnetism Lab	1	Su. F., Sp.,	3010 MTSE	Pre-reqs: PHYS 2220, 2240 Mechanical Properties	3	Sp.
Ā	2240	Co/Pre-req: PHYS 2220		Su.	3050	Pre-req: MTSE 3000	2	5.6
Year Three	ENGR 2301	Statics Pre-regs: MATH 1710, PHYS 1710, 1730	3	F., Sp., Su	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
_	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	Total		12	
	Core Total			Su.	Hours		12	
	Hours		13					
	MTSE	Bonding and Structure	3	F.	MTSE	Phase Transformations	3	Sp.
	3010	Pre-req: MTSE 3000			3060	Pre-req: MTSE 3010, 3030, 3040		
	MTSE 3020	Microstructure and Characterization Pre-req: MTSE 3000	3	F.	MTSE 3070	Elect., Optical, Magnetic Properties Pre-req: MTSE 3000	3	Sp.
our	MTSE	Thermodynamics and Phase Diagrams	3	F.	MTSE	Materials Processing	3	Sp.
Year Four	3030 MTSE	Pre-req: MTSE 3000 Transport Phenomena	3	F.	3080 MTSE	Pre-req: MTSE 3040 Laboratory II	1	Sp.
Υe	3040	Pre-req: MTSE 3000, MATH 3410	4	_	3100	Pre-req: MTSE 3090	2	F. C.
	MTSE 3090	Laboratory I Pre-req: MTSE 3000	1	F.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	Total		1.0		Total		12	
	Hours		16		Hours		13	
	MTSE 4010	Physical Metallurgy Principles Pre-regs: MTSE 3010, 3030, 3040	3	F.	MTSE 4050	Polymer Science and Engineering Pre-req: MTSE 3000	3	Sp.
	MTSE	Ceramic Science and Engineering	3	F.	MTSE	Senior Design II	3	Sp.
Ve	4030 MTSE	Pre-regs: MTSE 3010, 3020, 3040 Selection and Performance	3	F.	4100 MTSE	Pre-req: MTSE 4090 MTSE 4020 or MTSE 4040 or MTSE 4070	3	Sn
Year Five	4060	Pre-reqs: MTSE 3030, 3040, 3050	3	Г.	Elective	Must complete pre-reqs	3	Sp.
Yea	MTSE 4090	Senior Design I Pre-reqs: MTSE 3010, 3020, 3030, 3040, 3050, 3070, 3080	3	F.	MTSE Elective	MTSE 4020 or MTSE 4040 or MTSE 4070 Must complete pre-reqs	3	Sp.
	Total	,,,,,,			Total			
	Hours		12		Hours		12	

ENGL, TECM, MATH, CHEM, PHYS, ENGR, and MTSE courses require minimum grade of "C" for completion and/or prerequisite. This is an unofficial sample schedule. Requirements, prerequisites, corequisites, and term offerings may change. You should check your degree audit at mydegreeaudit.unt.edu each term. You should meet with your advisor each term to discuss individual scheduling, program decisions, etc.

Mechanical and Energy Engineering

Bachelor of Science (B.S.) degree with a major in Mechanical and Energy Engineering Department of Mechanical Engineering, Discovery Park (NTDP) F-101; (940) 565-2400

University Core

COMMUNICATION

1 Course (3 Hours) – see mydegreeaudit.unt.edu
 Grade of "C" or better is required

AMERICAN HISTORY I

□ 1 Course (3 Hours) chosen from HIST 2610 or HIST 2675

AMERICAN HISTORY II

□ 1 Course (3 Hours) chosen from HIST 2620 or HIST 2685

FEDERAL GOVERNMENT/POLITICAL SCIENCE

☐ 1 Course (3 Hours) chosen from PSCI 2305 or PSCI 2315

STATE GOVERNMENT/POLITICAL SCIENCE

□ 1 Course (3 Hours) chosen from PSCI 2306 or PSCI 2316

CREATIVE ARTS

□ 1 Course (3 Hours) – see mydegreeaudit.unt.edu

LANGUAGE, PHILOSOPHY, AND CULTURE

□ 1 Course (3 Hours) – see mydegreeaudit.unt.edu

SOCIAL AND BEHAVIORAL SCIENCES

□ 1 Course (3 Hours) – see mydegreeaudit.unt.edu

Major Requirements

Grades of C or better

TECHNICAL COMMUNICATIONS

☐ TECM 2700, Technical Writing (3 Hours)

MATHEMATICS

- MATH 1710, Calculus I (4 Hours)
- MATH 1720, Calculus II (3 Hours)
- MATH 2700, Linear Algebra (3 Hours)
- MATH 2730, Multivariable Calculus (3 Hours)
- MATH 3410, Differential Equations (3 Hours)

SCIENCES

- PHYS 1710, Mechanics (3 Hours) & PHYS 1730 Mechanics Lab (1 Hour)
- PHYS 2220, Electricity & Magnetism (3 Hours) & PHYS 2240, Electricity & Magnetism Lab (1 Hour)
- CHEM 1410, General Chemistry I (3 Hours) &
 CHEM 1430, General Chemistry I Lab (1 Hour)

Major Requirements

Grades of C or better

MECHANICAL AND ENERGY ENGINEERING

- MEEN 1000, Discover Mechanical and Energy (2 Hours)
- MEEN 2110, Engineering Data Analysis (3 Hours)
- ☐ MEEN 2210, Thermodynamics I (3 Hours)
- ☐ MEEN 2240, Programming for Mechanical Engr. (3 Hours)
- ENGR 2301, Mechanics I (3 Hours)
- ENGR 2302, Mechanics II (3 Hours)
- ENGR 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 and 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)
- EENG 2610, Circuit Analysis (3 Hours)
- ENGR 3450, Engineering Materials (4 Hours)

ENERGY ELECTIVES

- ☐ 1 Energy Elective course (3 Hours) chosen from list below
- ☐ 1 Energy Elective course (3 Hours) chosen from list below

MEEN 3125	MEEN 4310	MEEN 4332	MEEN 4410
MEEN 4110	MEEN 4315	MEEN 4335	MEEN 4810
MEEN 4112	MEEN 4320	MEEN 4340	
MFFN 4300	MFFN 4330	MFFN 4350	

TECHNICAL ELECTIVES

- ☐ 1 Technical Elective course (3 Hours) chosen from list below
- □ 1 Technical Elective course (3 Hours) chosen from list below

MEEN 4120	MEEN 4152	MEEN 4500	MEEN 4800
MEEN 4130	MEEN 4160	MEEN 4510	MEEN 4920
MEEN 4140	MEEN 4415	MEEN 4750	MEEN 4930
MEEN 4151	MEEN 4488	MEEN 4760	MFET 4190

Mechanical and Energy Engineering – Calculus I

2022-2023 Catalog: Sample Four-Year Schedule

	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
	MATH	Calculus I	4	F., Sp.,	MATH	Calculus II	3	F., Sp.,
	1710	Pre-req: MATH 1650 or Test Placement	-	Su.	1720	Pre-req: MATH 1710		Su.
	CHEM	General Chemistry I	3	F., Sp.,	PHYS	Mechanics	3	F., Sp.,
	1410	Pre-req: MATH 1100 or higher		Su.	1710	Pre-reg: MATH 1710		Su.
ē	CHEM	General Chemistry I Lab	1	F., Sp.,	PHYS	Mechanics Lab	1	F., Sp.,
One	1430	Co/Pre-req: CHEM 1410		Su.	1730	Co/Pre-req: PHYS 1710		Su.
Year	MEEN 1000	Discover Mechanical & Energy Pre-reg: MATH 1650	2	F., Sp.	ENGR 1304	Engineering Graphics	3	F., Sp.
	Comm. Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	TECM 2700	Technical Writing Pre-reg: Communication Core	3	F., Sp., Su.
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	Total							
	Hours		16				16	
	NAATU	Landie et la Calada	2	Г.С.	NAATU	D:0015	1 2	Г С
	MATH 2730	Multivariable Calculus	3	F., Sp., Su.	MATH 2/10	Differential Equations	3	F., Sp., Su.
1		Pre-reg: MATH 1720	2		3410	Pre-req: MATH 1720	2	
	PHYS 2220	Electricity & Magnetism	3	F., Sp., Su.	MEEN 2210	Thermodynamics I Pre-regs: MEEN 1000, MATH 1720, & PHYS 1710	3	F., Sp., Su.
		Pre-regs: MATH 1720 & PHYS 1710/1730	1				1	
	PHYS 2240	Electricity & Magnetism Lab	1	F., Sp., Su.	ENGR 2302	Mechanics II	3	F., Sp., Su.
8	ENGR	Co/Pre-req: PHYS 2220 Mechanics I	3	F., Sp.,	ENGR	Pre-reqs: ENGR 2301 & MATH 1720 Mechanics III	3	F., Sp.,
2	2301		3	F., Sp., Su.	2332		3	F., Sp., Su.
Year Two	MEEN	Pre-req: PHYS 1710/1730, MEEN 1000	3	F., Sp.	EENG	Pre-req: ENGR 2301 Circuit Analysis		F., Sp.,
	2240	Programming for Mechanical Engineers	3	r., sp.	2610	Pre-reg: MATH 1720	3	F., Sp., Su.
	2240	Pre-req: MEEN 1000, Co-req MATH 2700			2010	Co/Pre-req: PHYS 2220/2240		Ju.
	MATH	Linear Algebra	3	F., Sp.,	MEEN	Engineering Data Analysis	3	F., Sp.
	2700	Pre-req: MATH 1720	3	Γ., 3ρ., Su.	2110	Pre-regs: MATH 2700 & MEEN 1000	3	τ., ομ.
	Total	Freney. MATTI 1720		50.	2110	Fre-regs. WATTI 2700 & WILLN 1000		
	Hours		16				18	
	MEEN	Thermodynamics II	3	F., Sp.,	MEEN	Machine Elements	3	F., Sp.,
	3110	Pre-req: MEEN 2210		Su.	3130	Pre-regs: ENGR 2332 & ENGR 1304		Su.
	MEEN	Fluid Mechanics	3	F., Sp.,	MEEN	Heat Transfer	3	F., Sp.,
	3120	Pre-regs: MATH 2730, 3410, MEEN 2210, 2332		Su.	3210	Pre-regs: MEEN 3110, 3120, 3250		Su.
	MEEN	Laboratory I	2	F., Sp.	MEEN	Dynamics and Controls	3	F., Sp.,
ee	3240	Pre-reqs: MEEN 2110, 2210, & MATH 3410		-	3230	Pre-regs: ENGR 2302, MATH 2700, 3410		Su.
ear Three	MEEN	Analytical Methods	3	F., Sp.,	MEEN	Laboratory II	1	F., Sp.
Ę	3250	Pre-regs: MEEN 2240 & MATH 3410		Su.	3242	Pre-reqs: MEEN 3240 & 3120, Co/Pre-req: MEEN 3210		
Yea	ENGR 3450	Engineering Materials Pre-req: PHYS 1710, CHEM 1410/1430	4	F., Sp.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	Total				University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	Hours		15		Core			Su.
					Total			
					Hours		16	
	MEEN	Manufacturing Processes	3	F., Sp.	MEEN	Capstone Design	3	F., Sp.
	3100	Pre-reqs: ENGR 2332 and 3450		, Jp.	4250	Pre-req: MEEN 3100 & 4150		, Jp.
	MEEN	Design I	3	F., Sp.	Energy	Options at mydegreeaudit.unt.edu	3	F., Sp.
	4150	Pre-regs: EENG 2610, MEEN 3130, 3210, 3230, &		, Jp.	Elective	Must complete pre-regs		, Jp.
_		3242 Co/Pre-req: MEEN 3100				iviast complete pre-regs		
Year Four	Energy	Options at mydegreeaudit.unt.edu	3	F., Sp.	Technical	Options at mydegreeaudit.unt.edu	3	F., Sp.
Ä.	Elective	Must complete pre-reqs			Elective	Must complete pre-reqs		
ear	Technical	Options at mydegreeaudit.unt.edu	3	F., Sp.	University	Options on mydegreeaudit.unt.edu	3	F., Sp.
7	Elective	Must complete pre-regs			Core	, , , , , , , , , , , , , , , , , , , ,		·
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	Total							-
i	Hours		15				15	

ENGL, TECM, MATH, CHEM, PHYS, EENG, ENGR, and MEEN courses require minimum grade of "C" for completion and/or prerequisite. This is an unofficial sample schedule. Requirements, prerequisites, corequisites, and term offerings may change. You should check your degree audit at mydegreeaudit.unt.edu each term. You should meet with your advisor each term to discuss individual scheduling, program decisions, etc.

Mechanical and Energy Engineering – Pre-Calculus

2022-2023 Catalog: Sample Five-Year Schedule

	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
	MATH	Pre-Calculus	5	F., Sp.,	MATH	Calculus I	4	F., Sp.,
	1650	Pre-req: MATH 1100, 1600 or Test Placement		Su.	1710	Pre-req: MATH 1650 or Test Placement		Su.
a	CHEM 1410	General Chemistry I Pre-req: MATH 1100 or higher	3	F., Sp., Su.	MEEN 1000	Discover Mechanical & Energy Pre-req: MATH 1650	2	F., Sp.
) u	CHEM	General Chemistry I Lab	1	F., Sp.,	TECM	Technical Writing	3	F., Sp.,
Year One	1430	Co/Pre-req: CHEM 1410	_	Su.	2700	Pre-reg: Communication Core		Su.
Ϋ́	Comm.	Options on mydegreeaudit.unt.edu	3	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	Core			Su.	Core			Su.
	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	Core			Su.	Core			Su.
	Total		4.5		Total		4.5	
	Hours		15		Hours		15	
	MATH	Calculus II	3	F., Sp.,	MEEN	Programming for Mechanical Engineers	3	F., Sp.
	1720	Pre-reg: MATH 1710		Su.	2240	Pre-req: MEEN 1000, Co-req MATH 2700		, op.
	PHYS	Mechanics	3	F., Sp.,	ENGR	Mechanics I	3	F., Sp.,
	1710	Pre-req: MATH 1710		Su.	2301	Pre-req: PHYS 1710/1730, MEEN 1000		Su.
9	PHYS	Mechanics Lab	1	F., Sp.,	MATH	Linear Algebra	3	F., Sp.,
≥	1730	Co/Pre-req: PHYS 1710		Su.	2700	Pre-req: MATH 1720		Su.
Year Two	ENGR	Engineering Graphics	3	F., Sp.	MATH	Multivariable Calculus	3	F., Sp.,
۶	1304 University	Options on mydegreeaudit.unt.edu	3	E Cn	2730 PHYS	Pre-req: MATH 1720 Electricity & Magnetism	3	Su. F., Sp.,
	Core	Options on mydegreeaddit.unt.edd	3	F., Sp., Su.	2220	Pre-regs: MATH 1720 & PHYS 1710/1730	3	r., sμ., Su.
	Total			50.	PHYS	Electricity & Magnetism Lab	1	F., Sp.,
	Hours		13		2240	Co/Pre-reg: PHYS 2220	_	Su.
					Total			
					Hours		16	
	NAATH.	Differential Fauntions	1 2	Г С	NAFEN	Funitarian Data Analysis	1 2	Г. С.
	MATH 3410	Differential Equations Pre-req: MATH 1720	3	F., Sp., Su.	MEEN 2110	Engineering Data Analysis Pre-reqs: MATH 2700 & MEEN 1000	3	F., Sp.
	MEEN	Thermodynamics I	3	F., Sp.,	MEEN	Thermodynamics II	3	F., Sp.,
a	2210	Pre-regs: MEEN 1000, MATH 1720, PHYS 1710		Su.	3110	Pre-req: MEEN 2210		Su.
Year Three	ENGR	Mechanics II	3	F., Sp.,	ENGR	Engineering Materials	4	F., Sp.
Ę	2302	Pre-regs: ENGR 2301 & MATH 1720		Su.	3450	Pre-req: PHYS 1710, CHEM 1410/1430		
eai	ENGR	Mechanics III	3	F., Sp.,	EENG	Circuit Analysis		F., Sp.,
>	2332	Pre-req: ENGR 2301		Su.	2610	Pre-req: MATH 1720 Co/Pre-req: PHYS	3	Su.
	Total				Total	2220/2240		
	Hours		12		Hours		13	
l				I		I		
	MEEN	Fluid Mechanics	3	F., Sp.,	MEEN	Machine Elements	3	F., Sp.,
	3120	Pre-reqs: MATH 2730, 3410, MEEN 2210, 2332		Su.	3130	Pre-reqs: ENGR 2332 & ENGR 1304		Su.
	MEEN	Laboratory I	2	F., Sp.	MEEN	Heat Transfer	3	F., Sp.,
	3240	Pre-regs: MEEN 2110, 2210, & MATH 3410	2	F. C.	3210	Pre-regs: MEEN 3110, 3120, 3250	_	Su.
ž	MEEN 3250	Analytical Methods Pre-regs: MEEN 2240 & MATH 3410	3	F., Sp., Su.	MEEN 3230	Dynamics and Controls Pre-regs: ENGR 2302, MATH 2700, 3410	3	F., Sp., Su.
요	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	MEEN	Laboratory II	1	F., Sp.
Year Four	Core	options on mydegreedddicanticedd		Su.	3242	Pre-regs: MEEN 3240 & 3120, Co/Pre-	_	ι., ορ.
×						req: MEEN 3210		
	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	Core			Su.	Core			Su.
	Total		45		Total		40	
	Hours		15		Hours		13	
	MEEN	Manufacturing Processes	3	F., Sp.	MEEN	Capstone Design	3	F., Sp.
	3100	Pre-regs: ENGR 2332 and 3450		., -	4250	Pre-req: MEEN 3100 & 4150	_	, - p.
	MEEN	Design I	3	F., Sp.	Energy	Options at mydegreeaudit.unt.edu Must	3	F., Sp.
a	4150	Pre-reqs: EENG 2610, MEEN 3130, 3210, 3230,			Elective	complete pre-reqs		
Year Five		& 3242 Co/Pre-req: MEEN 3100	_				_	
ar	Energy	Options at mydegreeaudit.unt.edu	3	F., Sp.	Technical	Options at mydegreeaudit.unt.edu Must	3	F., Sp.
Υe	Elective Technical	Must complete pre-reqs Options at mydegreeaudit.unt.edu	3	F., Sp.	Elective Total	complete pre-reqs		
	Elective	Must complete pre-regs	3	1., 3p.	Hours		9	
	Total				1			
	Hours		12					

Mechanical and Energy Engineering – College Algebra

		2022-2023	Catalog: S	ample Fiv	e-Year Sche	edule		
	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
	MATH 1100	College Algebra Pre-req: TSI Completion	3	F., Sp., Su.	MATH 1650	Pre-Calculus Pre-req: MATH 1100, 1600 or Test Placement	5	F., Sp., Su.
One	Comm. Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	TECM 2700	Technical Writing Pre-req: Communication Core	3	F., Sp., Su.
Year	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	Total Hours		12		Total Hours		14	
	Fall	Course Title	Credit	Term(s)	Spring	Course Title	Credit	Term(s)
	Semester		Hours	Offered	Semester		Hours	Offered
	MATH	Calculus I	4	F., Sp.,	MATH	Calculus II	3	F., Sp.,
	1710	Pre-req: MATH 1650 or Test Placement		Su.	1720	Pre-req: MATH 1710		Su.
	CHEM	General Chemistry I	3	F., Sp.,	PHYS	Mechanics	3	F., Sp.,
9	1410	Pre-req: MATH 1100 or higher		Su.	1710	Pre-req: MATH 1710		Su.
Two	CHEM	General Chemistry I Lab	1	F., Sp.,	PHYS	Mechanics Lab	1	F., Sp.,
ä	1430	Co/Pre-req: CHEM 1410		Su.	1730	Co/Pre-req: PHYS 1710		Su.
Year	MEEN	Discover Mechanical & Energy	2	F., Sp.	ENGR	Engineering Graphics	3	F., Sp.
	1000	Pre-req: MATH 1650			1304			
1		Options on mydegreeaudit.unt.edu	3	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	University	Options on mydegreeaudit.unt.edu		, - - ,				
	University Core	Options on mydegreeaddit.unt.edd		Su.	Core	, ,		Su.
	,	Options on mydegreeaddit.unt.edd			Core Total	. , ,		Su.

	Fall	Course Title	Credit	Term(s)	Spring	Course Title	Credit	Term(s)
	Semester		Hours	Offered	Semester		Hours	Offered
	MEEN	Programming for Mechanical Engineers	3	F., Sp.	MATH	Differential Equations	3	F., Sp.,
	2240	Pre-req: MEEN 1000, Co-req MATH 2700			3410	Pre-req: MATH 1720		Su.
	ENGR	Mechanics I	3	F., Sp.,	MEEN	Engineering Data Analysis	3	F., Sp.
a	2301	Pre-req: PHYS 1710/1730, MEEN 1000		Su.	2110	Pre-regs: MATH 2700 & MEEN 1000		
ē	MATH	Linear Algebra	3	F., Sp.,	MEEN	Thermodynamics I	3	F., Sp.,
돈	2700	Pre-req: MATH 1720		Su.	2210	Pre-regs: MEEN 1000, MATH 1720, & PHYS 1710		Su.
	MATH	Multivariable Calculus	3	F., Sp.,	ENGR	Mechanics II	3	F., Sp.,
Year Three	2730	Pre-req: MATH 1720		Su.	2302	Pre-regs: ENGR 2301 & MATH 1720		Su.
>	PHYS	Electricity & Magnetism	3	F., Sp.,	ENGR	Mechanics III	3	F., Sp.,
	2220	Pre-regs: MATH 1720 & PHYS 1710/1730		Su.	2332	Pre-req: ENGR 2301		Su.
	PHYS	Electricity & Magnetism Lab	1	F., Sp.,	Total			
	2240	Co/Pre-reg: PHYS 2220		Su.	Hours		15	
	Total	,				•		1
	Hours		16					
				•	-			
	MEEN	Thermodynamics II	3	F., Sp.,	MEEN	Machine Elements	3	F., Sp.,
	3110	Pre-reg: MEEN 2210		Su.	3130	Pre-regs: ENGR 2332 & ENGR 1304		Su.
	MEEN	Fluid Mechanics	3	F., Sp.,	MEEN	Heat Transfer	3	F., Sp.,
	3120	Pre-regs: MATH 2730, 3410, MEEN 2210, 2332		Su.	3210	Pre-regs: MEEN 3110, 3120, 3250		Su.
'n	MEEN	Laboratory I	2	F., Sp.	MEEN	Dynamics and Controls	3	F., Sp.,
Year Four	3240	Pre-regs: MEEN 2110, 2210, & MATH 3410		, ,	3230	Pre-regs: ENGR 2302, MATH 2700, 3410		Su.
Ξ	ENGR	Engineering Materials	4	F., Sp.	MEEN	Laboratory II	1	F., Sp.
, ea	3450	Pre-reg: PHYS 1710, CHEM 1410/1430		7 - 1-	3242	Pre-regs: MEEN 3240 & 3120, Co/Pre-reg: MEEN 3210		, -1-
>	EENG	Circuit Analysis		F., Sp.,	MEEN	Analytical Methods	3	F., Sp.,
	2610	Pre-req: MATH 1720 Co/Pre-req: PHYS 2220/2240	3	Su.	3250	Pre-regs: MEEN 2240 & MATH 3410		Su.
	Total				Total	,		
	Hours		15		Hours		13	
	Hours		13		Hours		13	
	MEEN	Manufacturing Processes	3	F., Sp.	MEEN	Capstone Design	3	F., Sp.
	3100	Pre-regs: ENGR 2332 and 3450	,	ι., υρ.	4250	Pre-reg: MEEN 3100 & 4150		1., 3μ.
	MEEN	Design I	3	F., Sp.	Energy	Options at mydegreeaudit.unt.edu Must	3	F., Sp.
	4150	Pre-regs: EENG 2610, MEEN 3130, 3210, 3230, &	3	r., sp.	Elective	complete pre-regs	3	r., sp.
/e	4130	3242 Co/Pre-req: MEEN 3100			Elective	complete pre-regs		
运	Energy	Options at mydegreeaudit.unt.edu	3	F., Sp.	Technical	Options at mydegreeaudit.unt.edu Must	3	F., Sp.
Year Five	Elective	Must complete pre-regs	3	r., ɔp.	Elective	complete pre-regs] 3	r., sp.
Ϋ́e	Technical	Options at mydegreeaudit.unt.edu	3	F., Sp.	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
•	Elective	Must complete pre-regs	3	r., ɔp.	Core	Options on mydegreeaddit.unt.edd] 3	F., Sp., Su.
		iviust complete pre-regs	-				-	ou.
	Total		12		Total		12	
	Hours		12		Hours		12	

ENGL, TECM, MATH, CHEM, PHYS, EENG, ENGR, and MEEN courses require minimum grade of "C" for completion and/or prerequisite. This is an unofficial sample schedule. Requirements, prerequisites, corequisites, and term offerings may change. You should check your degree audit at mydegreeaudit.unt.edu each term. You should meet with your advisor each term to discuss individual scheduling, program decisions, etc.

Mechanical Engineering Technology

Bachelor of Science in Engineering Technology (B.S.E.T) degree with a major in Mechanical Engineering Technology Department of Mechanical Engineering, Discovery Park (NTDP) F-115; (940) 565-2400

University Core

COMMUNICATION

1 Course (3 Hours) – see mydegreeaudit.unt.edu
 Grade of "C" or better is required

AMERICAN HISTORY I

□ 1 Course (3 Hours) chosen from HIST 2610 or HIST 2675

AMERICAN HISTORY II

□ 1 Course (3 Hours) chosen from HIST 2620 or HIST 2685

FEDERAL GOVERNMENT/POLITICAL SCIENCE

□ 1 Course (3 Hours) chosen from PSCI 2305 or PSCI 2315

STATE GOVERNMENT/POLITICAL SCIENCE

□ 1 Course (3 Hours) chosen from PSCI 2306 or PSCI 2316

CREATIVE ARTS

☐ 1 Course (3 Hours) – see mydegreeaudit.unt.edu

LANGUAGE, PHILOSOPHY, AND CULTURE

1 Course (3 Hours) – see mydegreeaudit.unt.edu

SOCIAL AND BEHAVIORAL SCIENCES

1 Course (3 Hours) – see mydegreeaudit.unt.edu

Major Requirements

Grades of C or better

TECHNICAL COMMUNICATIONS

☐ TECM 2700, Technical Writing (3 Hours)

MATHEMATICS

- MATH 1710, Calculus I (4 Hours)
- MATH 1720, Calculus II (3 Hours)

SCIENCES

- PHYS 1710, Mechanics (3 Hours) & PHYS 1730 Mechanics Lab (1 Hour)
- PHYS 2220, Electricity & Magnetism (3 Hours) & PHYS 2240, Electricity & Magnetism Lab (1 Hour)
- CHEM 1410, General Chemistry I (3 Hours) & CHEM 1430, General Chemistry I Lab (1 Hour)

COMPUTER PROGRAMMING

□ CSCE 1030, Computer Science I (4 Hours)

Major Requirements

Grades of C or better

MECHANICAL ENGINEERING TECHNOLOGY

- ENGR 1030, Technological Systems (3 Hours)
- ENGR 1304, Engineering Graphics (3 Hours)
- ENGR 2301, Statics (3 Hours)
- ENGR 2302, Dynamics (3 Hours)
- ENGR 2332, Mechanics and Materials (4 Hours)
- EENG 2610, Circuit Analysis (3 Hours) & EENG 2611, Circuit Analysis Lab (1 Hour)
- ENGR 3450, Engineering Materials (4 Hours)
- MEET 3980, Digital Control of Industrial Processes (3 Hours)
- ☐ MEET 3550, Geometrical Dimensions & Tolerancing (3 hours)
- MEET 3650, Design of Mechanical Components (3 Hours)
- MEET 3940, Fluid Mechanics Applications (3 Hours)
- ☐ MEET 3990, Applied Thermodynamics (3 Hours)
- ☐ MEET 4050, Mechanical Design (3 Hours)
- MEET 4350, Heat Transfer Applications (3 Hours)
- ☐ MEET 4360, Experimental Thermal Sciences (3 Hours)
- MEET 4780, Senior Design I (1 Hour)
- MEET 4790, Senior Design II (3 Hours)
- ☐ MFET 3110, Machining Principles and Processes (3 Hours)
- ☐ MFET 4190, Quality Assurance (3 Hours)
- ☐ MFET 4200, Engineering Cost Analysis (3 Hours)
- MFET 4210, CAD/CAM System Operations (3 Hours)

TECHNICAL ELECTIVES

- Advanced level (3*** or 4*** level) course chose from appropriate elective options (3 Hours)
- Advanced level (3*** or 4*** level) course chose from appropriate elective options (3 Hours)
- Any level course chosen from appropriate elective options (3 Hours)

Recommended elective options are below:

MFET 4220	LGAV 3100	CNET 3410
MEET 3750	LGAV 3110	MKTG 3651
MEET 4100	LGAV 3120	MGMT 3820
	LGAV 3130	MGMT 3850

Completion of MEET 3550 or MEET 3750 or MEET 4100 or MFET 4220 earns a Certificate in Manufacturing Engineering Technology.

Mechanical Engineering Technology – Calculus I

2022-2023 Catalog: Sample Four-Year Schedule

	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
	MATH 1710	Calculus I Pre-reg: MATH 1650 or Test Placement	4	F., Sp., Su.	MATH 1720	Calculus II Pre-reg: MATH 1710	3	F., Sp., Su.
	CHEM 1410	General Chemistry I Pre-reg: MATH 1000 or Fist Placement Pre-reg: MATH 1100 or higher	3	F., Sp., Su.	PHYS 1710	Mechanics Pre-req: MATH 1710	3	F., Sp., Su.
One	CHEM 1430	General Chemistry I Lab Co/Pre-req: CHEM 1410	1	F., Sp., Su.	PHYS 1730	Mechanics Lab Co/Pre-req: PHYS 1710	1	F., Sp., Su.
Year One	ENGR 1030	Technological Systems	3	F., Sp.	TECM 2700	Technical Writing Pre-req: Communication Core	3	F., Sp., Su.
	ENGR 1304	Engineering Graphics	3	F., Sp.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	Comm. Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	Total Hours		17		Total Hours		16	
			ı	ı		<u> </u>	1	
	PHYS 2220	Electricity and Magnetism Pre-regs: MATH 1720, PHYS 1710, 1730	3	F., Sp., Su.	ENGR 2302	Dynamics Pre-reqs: ENGR 2301, MATH 1720	3	F., Sp., Su.
	PHYS 2240	Electricity and Magnetism Lab Co-reg/pre-req: PHYS 2220	1	F., Sp., Su.	ENGR 2332	Mechanics of Materials Pre-regs: ENGR 2301	3	F., Sp., Su.
Year Two	ENGR 2301	Statics Pre-regs: PHYS 1710, 1730	3	F., Sp., Su.	EENG 2610	Circuit Analysis Pre-req: MATH 1720 Co/Pre-req: PHYS 2220/2240	3	F., Sp., Su.
Yea	CSCE 1030	Computer Science I Pre-req: MATH 1650 or Co-req: MATH 1710	4	F., Sp.	ENGR 2611	Circuit Analysis Lab Co/Pre-req: EENG 2610	1	F., Sp., Su.
	Technical Elective	Options at mydegreeaudit.unt.edu Must complete pre-regs	3	Varies	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	Total Hours	- Marie Company	14		Total Hours		14	
	ENGR 3450	Engineering Materials Pre-reqs: ENGR 2332, CHEM 1410/1430 and PHYS 1710/1730	4	F., Sp.	MEET 3980	Digital Controls of Industrial Processes Pre-regs: EENG 2610/2611 and CSCE 1030	3	Sp.
	MEET 3940	Fluid Mechanics Pre-req: ENGR 2302, MATH 1720	3	F., Sp., Su.	MEET 3650	Design of Mechanical Components Pre-reg: ENGR 2332	3	Sp.
hree	MEET 3990	Applied Thermodynamics Pre-req: ENGR 2332, CHEM 1410/1430	3	F., Sp., Su.	MFET 4190	Quality Assurance Pre-reg: MATH 1720	3	Sp.
Year Three	MFET 3110	Machining Principles and Processes Pre-req: MATH 1650	3	F., Sp.	MFET 4210	CAD/CAM System Operation Pre-req: MFET 3110, ENGR 1304, and MATH/PHYS/CHEM requirements	3	F., Sp.
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	MEET 3550	Geometric Dimens. and Tolerancing Pre-regs: MFET 3110, ENGR 1304	3	Sp.
	Total Hours		16		Total Hours	,	15	
	N4557				NAEET			
	MEET 4050	Mechanical Design Pre-req: MEET 3650	3	F.	MEET 4790	Senior Design II Pre-req: MEET 4780	3	Sp.
	MEET 4350	Heat Transfer Applications Pre-req: MEET 3940, 3990	3	F.	MEET 4360	Experimental Thermal Sciences Pre-req: MEET 3940, 3990, 4350	3	Sp.
our	MEET 4780	Senior Design I Pre-reqs: ENGR 3450 and MEET 3980 Co/Pre-req: MFET 4210, MEET 4050, 4350	1	F.	Advanced Elective	Options at mydegreeaudit.unt.edu Must complete pre-reqs	3	Varies
Year Four	MFET 4200	Engineering Cost Analysis Pre-req: MATH 1720	3	F.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
>	Advanced Elective	Options at mydegreeaudit.unt.edu Must complete pre-regs	3	Varies	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.				
	Total				Total		1	
	Hours		16		Hours		15	

ENGL, TECM, MATH, CHEM, PHYS, ENGR, CSCE, MEET, and MFET courses require minimum grade of "C" for completion and/or prerequisite. This is an unofficial sample schedule. Requirements, prerequisites, corequisites, and term offerings may change. You should check your degree audit at mydegreeaudit.unt.edu each term.

You should meet with your advisor each term to discuss individual scheduling, program decisions, etc.

Mechanical Engineering Technology – Pre-Calculus

2022-2023 Catalog: Sample Five-Year Schedule

	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
	MATH	Pre-Calculus	5	F., Sp.,	MATH	Calculus I	4	F., Sp.,
	1650	Pre-req: MATH 1100, 1600 or Test Placement		Su.	1710	Pre-req: MATH 1650 or Test Placement		Su.
Year One	CHEM	General Chemistry I	3	F., Sp.,	ENGR	Technological Systems	3	F., Sp.
Ó	1410	Pre-req: MATH 1100 or higher		Su.	1030			
eal	CHEM	General Chemistry I Lab	1	F., Sp.,	TECM	Technical Writing	3	F., Sp.,
۶	1430	Co/Pre-req: CHEM 1410		Su.	2700	Pre-req: Communication Core		Su.
	Comm. Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	Total				Total			54.
	Hours		12		Hours		13	
	MATH	Calculus II	3	F., Sp.,	PHYS	Electricity and Magnetism	3	F., Sp.,
	1720	Pre-reg: MATH 1710		Su.	2220	Pre-regs: MATH 1720, PHYS 1710, 1730		Su.
	PHYS	Mechanics	3	F., Sp.,	PHYS	Electricity and Magnetism Lab	1	F., Sp.,
	1710	Pre-reg: MATH 1710		Su.	2240	Co-reg/pre-reg: PHYS 2220	_	Su.
9	PHYS	Mechanics Lab	1	F., Sp.,	ENGR	Statics	3	F., Sp.,
≥	1730	Co/Pre-req: PHYS 1710		Su.	2301	Pre-regs: PHYS 1710, 1730		Su.
Year Two	ENGR	Engineering Graphics	3	F., Sp.	CSCE	Computer Science I	4	F., Sp.
۶	1304				1030	Pre-req: MATH 1650 or Co-req: MATH 1710		
	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
	Core			Su.	Core			Su.
	Total				Total			
	Hours		13		Hours		14	
	ENGR	Dynamics	3	F., Sp.,	ENGR	Engineering Materials	4	F., Sp.
	2302	Pre-regs: ENGR 2301, MATH 1720		Su.	3450	Pre-regs: ENGR 2332, CHEM 1410/1430,		1 ., Sp.
		,				PHYS 1710/1730		
	ENGR	Mechanics of Materials	4	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
a)	2332	Pre-reqs: ENGR 2301		Su.	Core			Su.
ē	EENG	Circuit Analysis	3	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
두	2610	Pre-req: MATH 1720		Su.	Core			Su.
Year Three	ENGR	Co/Pre-req: PHYS 2220/2240 Circuit Analysis Lab	1	F., Sp.,	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,
ξ	2611	Co/Pre-reg: EENG 2610	1	Γ., 3μ., Su.	Core	Options on mydegreeaddit.ditt.edd	3	F., Sp., Su.
	University	Options on mydegreeaudit.unt.edu	3	F., Sp.,	Total			
	Core	, ,		Su.	Hours		13	
	Total						·L	l.
	Hours		14					
	NACCT	Fluid Machanics	2	E C	NACCT	Digital Controls of Industrial Process	2	C~
	MEET 3940	Fluid Mechanics Pre-req: ENGR 2302, MATH 1720	3	F., Sp., Su.	MEET 3980	Digital Controls of Industrial Processes Pre-regs: EENG 2610/2611, CSCE 1030	3	Sp.
	MEET	Applied Thermodynamics	3	F., Sp.,	MEET	Design of Mechanical Components	3	Sp.
	3990	Pre-reg: ENGR 2332, CHEM 1410/1430		Su.	3650	Pre-reg: ENGR 2332		Sp.
ınc	MFET	Machining Principles and Processes	3	F., Sp.	MFET	CAD/CAM System Operation	3	F., Sp.
Year Four	3110	Pre-req: MATH 1650		,	4210	Pre-req: MFET 3110, ENGR 1304, and		, - μ .
eal						MATH/PHYS/CHEM requirements		
\	Advanced	Options at mydegreeaudit.unt.edu	3	Varies	MEET	Geometric Dimens. and Tolerancing	3	Sp.
	Elective	Must complete pre-reqs			3550	Pre-reqs: MFET 3110, ENGR 1304		
	Total		4.5		Total		4.5	
	Hours	<u> </u>	12	j	Hours	<u> </u>	12	
	MEET	Mechanical Design	3	F.	MEET	Senior Design II	3	Sp.
	4050	Pre-reg: MEET 3650		••	4790	Pre-reg: MEET 4780		J .
	MEET	Heat Transfer Applications	3	F.	MEET	Experimental Thermal Sciences	3	Sp.
	4350	Pre-req: MEET 3940, 3990			4360	Pre-req: MEET 3940, 3990, 4350	<u> </u>	
a	MEET	Senior Design I	1	F.	MFET	Quality Assurance	3	Sp.
ΞŽ	4780	Pre-reqs: ENGR 3450 and MEET 3980			4190	Pre-req: MATH 1720		
ř		Co/Pre-req: MFET 4210, MEET 4050, 4350					ļ	
Year Five	MFET	Engineering Cost Analysis	3	F.	Total			
	4200	Pre-reg: MATH 1720	1		Hours		9	
	Advanced	Options at mydegreeaudit.unt.edu	3	Varies				
	Elective	Must complete pre-reqs	+					
	Total		12					
	Hours		13					

ENGL, TECM, MATH, CHEM, PHYS, ENGR, CSCE, MEET, and MFET courses require minimum grade of "C" for completion and/or prerequisite. This is an unofficial sample schedule. Requirements, prerequisites, corequisites, and term offerings may change. You should check your degree audit at mydegreeaudit.unt.edu each term.

You should meet with your advisor each term to discuss individual scheduling, program decisions, etc.

Mechanical Engineering Technology – College Algebra

2022-2023 Catalog: Sample Five-Year Schedule

		2022-2023 (Jatalog:	Sample H	ve-Year Scr	nedule		
	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
0	MATH 1100	College Algebra Pre-req: TSI Completion	3	F., Sp., Su.	MATH 1650	Pre-Calculus Pre-req: MATH 1100, 1600 or Test Placement	5	F., Sp., Su.
Year One	ENGR 1030	Technological Systems	3	F., Sp.	TECM 2700	Technical Writing Pre-req: Communication Core	3	F., Sp., Su.
Year	Comm. Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	Total Hours		12	Ju.	Total Hours		14	Ju.
	Tiours	L	12		110013	<u> </u>	14	
	MATH 1710	Calculus I Pre-req: MATH 1650 or Test Placement	4	F., Sp., Su.	MATH 1720	Calculus II Pre-reg: MATH 1710	3	F., Sp., Su.
	CHEM	General Chemistry I	3	F., Sp.,	PHYS	Mechanics	3	F., Sp.,
Q	1410 CHEM	Pre-req: MATH 1100 or higher General Chemistry Lab	1	Su. F., Sp.,	1710 PHYS	Pre-req: MATH 1710 Mechanics Lab	1	Su. F., Sp.,
_≥	1430	Co/Pre-req: CHEM 1410	1	F., 3p., Su.	1730	Co/Pre-req: PHYS 1710	1	Γ., 3μ., Su.
Year Two	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	ENGR 1304	Engineering Graphics	3	F., Sp.
	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.
	Total Hours		14	34.	Total Hours		13	54.
	Tiours	L	14		110013	<u> </u>	13	
	PHYS 2220	Electricity and Magnetism Pre-regs: MATH 1720, PHYS 1710, 1730	3	F., Sp., Su.	ENGR 2302	Dynamics Pre-regs: ENGR 2301, MATH 1720	3	F., Sp., Su.
	PHYS	Electricity and Magnetism Lab	1	F., Sp.,	ENGR	Mechanics of Materials	4	F., Sp.,
	2240	Co-req/pre-req: PHYS 2220		Su.	2332	Pre-reqs: ENGR 2301		Su.
ıree	ENGR 2301	Statics Pre-reqs: PHYS 1710, 1730	3	F., Sp., Su.	EENG 2610	Circuit Analysis Pre-req: MATH 1720 Co/Pre-req: PHYS 2220/2240	3	F., Sp., Su.
Year Three	CSCE 1030	Computer Science I Pre-req: MATH 1650 or Co-req: MATH 1710	4	F., Sp.	ENGR 2611	Circuit Analysis Lab Co/Pre-reg: EENG 2610	1	F., Sp., Su.
×	University Core	Options on mydegreeaudit.unt.edu	3	F., Sp., Su.	MEET 3980	Digital Controls of Industrial Processes Pre-reqs: EENG 2610/2611 and CSCE 1030	3	Sp.
	Total Hours		14		Total Hours		14	
	51100	[1 .	1			1 2	
	ENGR 3450	Engineering Materials Pre-reqs: ENGR 2332, CHEM 1410/1430 and PHYS 1710/1730	4	F., Sp.	MEET 3650	Design of Mechanical Components Pre-req: ENGR 2332	3	Sp.
\	MEET 3940	Fluid Mechanics Pre-reg: ENGR 2302, MATH 1720	3	F., Sp., Su.	MFET 4190	Quality Assurance Pre-reg: MATH 1720	3	Sp.
Year Four	MEET 3990	Applied Thermodynamics Pre-req: ENGR 2332, CHEM 1410/1430	3	F., Sp., Su.	MFET 4210	CAD/CAM System Operation Pre-req: MFET 3110, ENGR 1304, and MATH/PHYS/CHEM requirements	3	F., Sp.
	MFET 3110	Machining Principles and Processes Pre-req: MATH 1650	3	F., Sp.	MEET 3550	Geometric Dimens. and Tolerancing Pre-regs: MFET 3110, ENGR 1304	3	Sp.
	Total Hours	,	13		Total Hours	,	12	
				<u> </u>				
	MEET 4050	Mechanical Design Pre-req: MEET 3650	3	F.	MEET 4790	Senior Design II Pre-req: MEET 4780	3	Sp.
	MEET 4350	Heat Transfer Applications Pre-reg: MEET 3940, 3990	3	F.	MEET 4360	Experimental Thermal Sciences Pre-reg: MEET 3940, 3990, 4350	3	Sp.
Year Five	MEET 4780	Senior Design I Pre-regs: ENGR 3450 and MEET 3980 Co/Pre-reg: MFET 4210, MEET 4050, 4350	1	F.	Advanced Elective	Options at mydegreeaudit.unt.edu Must complete pre-regs	3	Varies
Year	MFET 4200	Engineering Cost Analysis Pre-req: MATH 1720	3	F.	Total Hours		9	
	Advanced Elective	Options at mydegreeaudit.unt.edu Must complete pre-reqs	3	Varies	.10413	ı	<u>, , , , , , , , , , , , , , , , , , , </u>	1
	Total Hours	F 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	13					
		l .						

Minor/Certificate Information **GAME PROGRAMMING CERTIFICATE (12 Hours) ADDITIVE AND DIGITAL MANUFACTURING CERTIFICATE** (12 Hours) CSCE 4210, Game Programming I (3 Hours) TECM 2700, Technical Writing (3 Hours) CSCE 4220, Game Programming II (3 Hours) ENGR 299Z or MTSE 299Z or MEEN 299Z (0 Hours) CSCE 4250, Topics in Game Development (3 Hours) 9 hours (3 Courses) chosen from ENGR 1304, MTSE 3000, 4900 CSCE 4255, Programming Math & Physics for Games (3 Hours) (Additive Manufacturing), 4040, 4060, MEEN 4800 (CAD/CAE), 3100, MEET 3550, 3750, 4100, ENGR 3450, MGMT 4850, DSCI 2710, OPSM 3830 **GENERAL ENGINEERING TECHNOLOGY MINOR (18 Hours)** 12 hours (4 courses) chosen from CNET, ELET, ENGR, MEET, MFET, or NUET 1***, 2***, 3***, and/or 4*** level **BIOMEDICAL ENGINEERING MINOR** (18 Hours) 6 advanced hours (2 courses) chosen from CNET, ELET, ENGR, MEET, BMEN 2210, DAQ Practices (3 Hours) MFET, or NUET 3*** or 4*** level BMEN 2320, Biomedical Instrumentation I (3 Hours) BMEN 3350, Biomedical Transport Phenomena (3 Hours) MANUFACTURING ENGINEERING TECHNOLOGY CERTIFICATE (15 Hours) 6 advanced hours (2 courses) chosen from: BMEN 3311, Biomedical Signal Analysis (3 Hours) MFET 3110, Machining Principles and Processes (4 Hours) BMEN 3312, Intro to Biomechanics (3 Hours) MFET 4190, Quality Assurance (3 Hours) BMEN 3321, Biomaterials (3 Hours) MFET 4200, Engineering Cost Analysis (2 Hours) Plus 3 advanced hours (1 course) chosen from BMEN 4*** MFET 4210, CAD/CAM System Operations (3 Hours) 3 Hours (1 course) chosen from: **COMPUTER SCIENCE AND ENGINEERING MINOR** (19 Hours) MEET 3550, Geometric Dimensioning & Tolerancing (3 Hours) CSCE 1030, Computer Science I (4 Hours), or MEET 3750, Digital Marketing (3 Hours) CSCE 1035, Computer Programming I (4 Hours) MEET 4100, Fund. of Product/Process Design & Develop. (3 Hours) MFET 4220, CNC Programming and Operation (3 Hours) CSCE 1040, Computer Science II (3 Hours), or CSCE 1045, Computer Programming II (3 Hours) CSCE 2100, Foundations of Computing (3 Hours) MATERIALS SCIENCE AND ENGINEERING MINOR (18 Hours) CSCE 2110, Foundations of Data Structures (3 Hours) ☐ MTSE 3000, Fundamentals of Materials Sci. & Engr. I (3 Hours) CSCE 3*** or 4***, CSCE advanced level course (3 Hours) 6 advanced hours (2 courses) chosen from: CSCE 3*** or 4***, CSCE advanced level course (3 Hours) MTSE 3010, Bonding and Structure (3 Hours) MTSE 3030, Thermodynamics & Phase Diagrams (3 Hours) **CYBERSECURITY MINOR** (19 Hours) MTSE 3050, Mechanical Properties of Materials (3 Hours) CSCE 1035, Computer Programming I (4 Hours) MTSE 3070), Elect., Optic, & Magnetic Properties (3 Hours) CSCE 1045, Computer Programming II (3 Hours) 9 advanced hours (3 courses) chosen from options above or from CSCE 2110, Foundations of Data Structures (3 Hours) any MTSE 3*** or MTSE 4*** level courses. MTSE 3001 is recommended. CSCE 3550, Foundations of Security (3 Hours) CSCE 3560, Computer Systems Security (3 Hours) **MECHANICAL AND ENERGY ENGINEERING MINOR (18 Hours)** CSCE 3600, Systems Programming (3 Hours) ☐ MEEN 2210, Thermodynamics I (3 Hours) ENGR 2302, Mechanics II (3 Hours) **ELECTRICAL ENGINEERING MINOR** (18 Hours) ■ ENGR 2332, Mechanics III (3 Hours) EENG 2610, Circuit Analysis, (3 Hours) & 9 advanced hours chosen from: EENG 2611, Circuit Analysis Lab (1 Hour) MEEN 3100, Manufacturing Processes (3 Hours) EENG 2620, Signals and Systems (3 Hours) & MEEN 3110, Thermodynamics II (3 Hours) EENG 2621, Signals and Systems Lab (1 Hour) MEEN 3120, Fluid Mechanics (3 Hours) EENG 2710, Digital Logic Design (3 Hours) & MEEN 3130, Machine Elements (3 Hours) EENG 2711, Digital Logic Design Lab (1 Hour) MEEN 3210, Heat Transfer (3 Hours) EENG 3510, Electronics I (3 Hours) MEEN 3230, Systems Dynamics and Controls (3 Hours) EENG 4***, EENG advanced level course (3 Hours) MEEN 3240, MEE Lab I (2 Hours) MEEN 3242, MEE Lab II (1 Hour) **ELECTROMECHANICAL SYSTEMS AND MECHATRONICS CERTIFICATE** MEEN 4110, Alternative Energy (3 Hours) (12 Hours) MEEN 4140, Finite Element Analysis (3 Hours) 12 hours (4 courses) chosen from EENG 2620, EENG 3510,

- ENERGY ASSESSMENT OF BUILDINGS CERTIFICATE (18 Hours)

 ☐ MEEN 3220, Thermal Fluid Science for Buildings (3 Hours)
- ☐ MEEN 4320, Building Energy Systems (3 Hours)

MEEN 4760

☐ MEEN 4335, Comp. Sim. Of Building Energy Systems (3 Hours)

EENG 3520, EENG 4310, ENGR 2302, MEEN 3130, MEEN 3230,

- MEEN 4340, Energy Efficiencies & Green Building Design for Commercial Buildings (3 Hours)
- MEEN 4350, Energy Efficiencies and Green Building Design for Residential Buildings (3 Hours)

SECURITY CERTIFICATE (18 Hours)

- CSCE 2610, Assembly Lang. and Comp. Organization (3 Hours)
- □ CSCE 3530, Intro. To Computer Networks (3 Hours)
- □ CSCE 3550, Foundations of Computer Security (3 Hours)

MEEN 4160, Mechanical Vibrations (3 Hours)

- □ CSCE 4350, Intro. To Database Systems Design (3 Hours)
- □ CSCE 4560, Secure Electronic Commerce (3 Hours)
- □ CSCE 4600, Operating Systems (3 Hours)

Completion of a minor and/or a certificate is not required in order to graduate.

Must complete appropriate prerequisites for minor or certificate courses.

Grades of "C" required for most minor or certificate courses.

University Core Options

COMMUNICATION (1 Course)

ENGL 1310, First-Year Writing I

ENGL 1311, Honors First-Year Writing I

ENGL 1315, Writing about Literature I

LING 1312, Writing for International Students

TECM 1700, Intro. To Technical Writing

AMERICAN HISTORY I (1 Course)

HIST 2610, U.S. History to 1865

HIST 2675, Honors U.S. History to 1865

AMERICAN HISTORY II (1 Course)

HIST 2620, U.S. History from 1865

HIST 2685, Honors U.S. History from 1865

FEDERAL GOVT/POLI. SCIENCE (1 Course)

PSCI 2305, U.S. Political Behavior & Policy

PSCI 2315, Honors U.S. Political Behav. & Policy

STATE GOVT/POLI. SCIENCE (1 Course)

PSCI 2306, U.S. and Texas

PSCI 2316, Honors U.S. and Texas

CREATIVE ARTS (1 Course)

ART 1300, Art Appreciation

ART 1301, Honors Art Appreciation

ART 2360, Art History Survey II

ART 2370, Art History Survey III

COMM 2060, Performance of Literature

DANC 1200, Appreciation of Dance

DANC 2800, Survey of Dance

MUET 3060, African American Music

MUJS 3400, Understanding Jazz

MUMH 1610, Music as Communication

MUMH 2040, Music Appreciation

MUMH 2050, Sounds and Cinema

MUMH 2060, History of Rock

MUMH 3000, Nineteenth-Century Music

MUMH 3010, Twentieth-Century Music

MUMH 3100, Music, Gender, Sexuality

MUMH 3200, Music as Politics

PHIL 1900, Philosophy of Art

CREATIVE ARTS Cont'd (1 Course)

THEA 1340, Aesthetics of the Theatre

THEA 2340. Theater Appreciation

THEA 3030. World Theatre to 1700

THEA 3040, World Theatre from 1700

LANGUAGE, PHILOSOPHY, & CULTURE

(1 Course)

AGER 2250, Aging in Film and Lit

ANTH 3101, American Culture and Society

ANTH 3110, Indigenous People of N. Am.

ANTH 3120, Indigenous Cultures of S.W.

ANTH 3130, African American Anthropology

ANTH 3140, Latinos in the U.S.

ANTH 3200, Latin American Cultures

ANTH 3210. Mesoamerica

ANTH 3220, Mayan Culture

ANTH 3300, Peoples of the Pacific

ANTH 3400, Peoples of Africa

ANTH 3500, Peoples of the Middle East

ANTH 3700, Peoples of South Asia

ART 2350, Art History Survey I

ENGL 2210, World Literature to 1700

ENGL 2220, World Literature from 1700

ENGL 2321, British Literature

ENGL 2326, American Literature

ENGL 2331, World Literature

ENGL 2341, Forms of Literature

ENGL 2351, Mexican American Literature

ENGL 3450, Short Story

FREN 3040, France Today

FREN 4060, Studies in French Literature

FREN 4310, Contemp. French Civilization

GEOG 1000, National Parks

GERM 3040, Topics in German Culture

GERM 3050, Topics in German Culture

HDFS 2313, Courtship and Marriage

HIST 1050, World History to 16th Century

HIST 1060, World History from 16th Century

ITAL 3040, Topics in Italian Culture

ITAL 3050, Comp. Italian Culture Through Film

LANGUAGE, PHILOSOPHY, & CULTURE

Cont'd (1 Course)

JAPN 3020, Advanced Japanese I

LING 2050, Language of Now

MUET 2000, Global Perspectives

MUET 3030, Music Cultures of the World

PHIL 1050, Introduction to Philosophy

PHIL 1400, Contemporary Moral Issues

PHIL 2050, Introduction to Logic

PHIL 2070, World Religions

PHIL 2600, Ethics in Science

WLLC 3810, Russian Popular Culture

SOCIAL AND BEHAVIORAL SCIENCES

(1 Course)

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

CJUS 2100, Crime and Justice in the U.S.

COMM 2020, Interpersonal Comm.

EADP 1010, Exploring Disasters

EADP 4050, Special Pop. In Disasters

ECON 1100, Microeconomics

ECON 1110, Macroeconomics

GEOG 1200, Global Societies

HDFS 1013, Human Development

HLTH 2200, Family Life and Human Sexuality

JOUR 1210, Mass Comm. And Society

MDSE 2750, Consumers in Global Market

PADM 2100, Cultural Competency

PSYC 1630, General Psychology I

PSYC 1650, Biological Psychology

PSYC 3620, Developmental Psychology RESM 3450, Diversity and Inclusion in RESM

RHAB 3100, Disability and Society

SOCI 1510, Intro to Sociology SOWK 1450, Intro to Social Work

AP, IB, CLEP, DC, Transfer – University Core Credits

COMMUNICATION

AP English Lang. And Comp. Score of 3 IB English A: Lang. and Lit. Score of 5 Community College: ENGL 1301

AMERICAN HISTORY I

AP U.S. History score of 3 CLEP History of United States I Community College: HIST 1301

Community College: ENGL 1302

AMERICAN HISTORY II

AP U.S. History score of 3 CLEP History of United States II Community College: HIST 1302

FEDERAL GOVT/POLI SCIENCE

AP U.S. Government score of 3 **CLEP American Government** Community College: GOVT 2305

STATE GOVT/POLI SCIENCE

Community College: GOVT 2306

CREATIVE ARTS

AP Art History score of 3 IB Dance score of 4*

Community College: ARTS 1301 Community College: ARTS 1304 Community College: MUSI 1306

Community College: DRAM 1310 LANGUAGE, PHILOSOPHY, AND CULTURE

AP English Literature and Comp. score of 3

AP World History score of 3

IB History score of 4*

IB Philosophy score of 5 IB English Language A: Lit. Score of 5

Community College: ENGL 2332 Community College: ENGL 2333 Community College: ENGL 2341

Community College: HIST 2321

Community College: HIST 2322 Community College: PHIL 1301 Community College: PHIL 1304

Community College: PHIL 2303 Community College: PHIL 2306

SOCIAL AND BEHAVIORAL SCIENCES

AP Macroeconomics score of 3

AP Microeconomics score of 3

AP Psychology score of 3 IB Economics score of 4*

IB Geography score of 4*

IB Psychology score of 4*

CLEP Macroeconomics CLEP Microeconomics

CLEP Human Growth and Development

CLEP Introductory Psychology **CLEP Introductory Sociology** Community College: ANTH 2346

Community College: ANTH 2351 Community College: SPCH 1318

Community College: ECON 2301 Community College: ECON 2302

Community College: GEOG 1303 Community College: TECA 1354 Community College: COMM 1307

Community College: PSYC 2301 Community College: PSYC 2302 Community College: SOCI 1301

*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.

AP, IB, CLEP, DC, Transfer - Major Credits

TECHNICAL WRITING

- ☐ Community College ENGL 2311: TECM 2700
- AP English Lang. And Comp. Score of 3: ENGL 1320
- IB English A: Lang. and Lit. Score of 5: ENGL 1320
- Community College ENGL 1302: ENGL 1320

COMPUTING/PROGRAMMING

- AP Computer Science A score of 3: CSCE 1010
- AP Computer Science A score of 4: CSCE 1030
- AP Computer Science Principles score of 3: CSCE 1010
- IB Computer Science: CSCE 1030, 1040
- CLEP Info Systems & Computer Applications: CSCE 1***
- Community College COSC 1336: CSCE 1030
- Community College COSC 1337: CSCE 1040
- Community College COSC 1436: CSCE 1030
- Community College COSC 1437: CSCE 1040
- Community College COSC 2325: CSCE 2610
- Community College COSC 2425: CSCE 2610
- Community College COSC 2326: CSCE 2110
- Community College COSC 2426: CSCE 2110
- Community College MATH 2305: Substitutes for CSCE 2100

ENGINEERING

- Community College ENGR 1201: Substitute for EENG 1910. ENGR 1030, MEEN 1000, or MTSE 1100
- Community College ENGR 1204: ENGR 1304
- Community College ENGR 1304: ENGR 1304 Community College ENGR 2105: EENG 2611
- Community College ENGR 2107: ENGR 2415
- Community College ENGR 2301: ENGR 2301
- Community College ENGR 2302: ENGR 2302
- Community College ENGR 2332: ENGR 2332
- Community College ENGR 2305: EENG 2610
- Community College ENGR 2307: ENGR 2405
- Community College ENGR 2405: EENG 2610, 2611
- Community College ENGR 2406: EENG 2710, 2711

BIOLOGY

- AP Biology score of 3: BIOL 1112, 1122
- AP Biology score of 4, 5: BIOL 1710, 1720, 1760
- IB Biology: BIOL 1710, 1720, 1760
- CLEP Biology: BIOL 1710, 1720
- Community College BIOL 1108: BIOL 1***
- Community College BIOL 1109: BIOL 1***
- Community College BIOL 1306: BIOL 1710
- Community College BIOL 1307, BIOL 1720
- Community College BIOL 1308: BIOL 1***
- Community College BIOL 1309: BIOL 1***
- Community College BIOL 1406: BIOL 1710, 1760
- Community College BIOL 1407: BIOL 1720, 1760
- Community College BIOL 1408: BIOL 1***
- Community College BIOL 1409: BIOL 1***
- Community College BIOL 2101: BIOL 2311
- Community College BIOL 2301: BIOL 2301
- Community College BIOL 2401: BIOL 2301, 2311

CHEMISTRY

- AP Chemistry score of 3: CHEM 1360
- AP Chemistry score of 4: CHEM 1410, 1430
- AP Chemistry score of 5: CHEM 1410, 1430, and 1420, 1440
- CLEP General Chemistry: CHEM 1410, 1420
- IB Chemistry: CHEM 1410, 1430, and 1420, 1440
- Community College CHEM 1111: CHEM 1430
- Community College CHEM 1112: CHEM 1440
- Community College CHEM 1305: CHEM 1***
- Community College CHEM 1307: CHEM 1*** Community College CHEM 1311: CHEM 1410
- Community College CHEM 1312: CHEM 1420

- **CHEMISTRY (Continued)**
- Community College CHEM 1405: CHEM 1***
- Community College CHEM 1407: CHEM 1***
- Community College CHEM 1411: CHEM 1410, 1430
- Community College CHEM 1412: CHEM 1420, 1440

PHYSICS

- AP Physics 1 score of 3: PHYS 1210
- AP Physics 1 score of 4: PHYS 1410, 1430
- AP Physics 2 score of 3: PHYS 1315
- AP Physics 2 score of 4: PHYS 1420, 1440
- AP Physics C (Mechanics) score of 3: PHYS 1410, 1430
- AP Physics C (Mechanics) score of 4: PHYS 1710, 1730
- PHYS Physics C (Electricity and Magnetism) score of 3: PHYS 1420, 1440
- PHYS Physics C (Electricity and Magnetism) score of 4: PHYS 2220, 2240
- Community College PHYS 1101: PHYS 1430
- Community College PHYS 1102: PHYS 1440
- Community College PHYS 1301: PHYS 1410
- Community College PHYS 1302: PHYS 1420
- Community College PHYS 1401: PHYS 1410, 1430
- Community College PHYS 1402: PHYS 1420, 1440
- Community College PHYS 2125: PHYS 1730
- Community College PHYS 2126: PHYS 2240
- Community College PHYS 2325: PHYS 1710
- Community College PHYS 2326: PHYS 2220
- Community College PHYS 2425: PHYS 1710, 1730
- Community College PHYS 2426: PHYS 2220, 2240

MATHEMATICS

- AP Statistics score of 3: MATH 1680
- AP Calculus AB score of 3: MATH 1710
- AP Calculus BC score of 3: MATH 1710, 1720
- AP Calculus AB sub score of BC Exam score 3: MATH 1710
- **CLEP Mathematics: Elective**
- CLEP College Algebra: MATH 1100
- CLEP Pre-calculus: MATH 1650
- CLEP Calculus: MATH 1710
- IB Math Analysis: MATH 1580 IB Math Analysis and Approaches: MATH 1580
- IB Mathematic Studies: Elective
- IB Mathematics - Calculus: MATH 1710
- IB Mathematics Unspecified: MATH 1***
- Community College MATH 1314: MATH 1100
- Community College MATH 1316, MATH 1600, Prerequisite for Pre-Calculus
- Community College MATH 1325, MATH 1190, Prerequisite for Pre-Calculus
- Community College MATH 1425: MATH 1190, Prerequisite for Pre-Calculus
- Community College MATH 1342: MATH 1680
- Community College MATH 1414: MATH 1100
- Community College MATH 1442: MATH 1680
- Community College MATH 2312: MATH 1650
- Community College MATH 2412: MATH 1650
- Community College MATH 2313: MATH 1710
- Community College MATH 2314: MATH 1720
- Community College MATH 2315: MATH 2730
- Community College MATH 2318: MATH 2700 Community College MATH 2320: Substitutes for MATH 3410
- Community College MATH 2342: MATH 1680
- Community College MATH 2413: MATH 1710
- Community College MATH 2414: MATH 1720
- Community College MATH 2415: MATH 2730
- Community College MATH 2418: MATH 2700
- Community College MATH 2420: Substitutes for MATH 3410
- Community College MATH 2442: MATH 1680
- Community College MATH 2513: MATH 1710

Community College ENGR 2300: Substitutes for MATH 2700

Other community college or university courses may fulfill requirements. Please confirm with your advisor.

Preparation You Need to Secure a Full-Time Job

Get an Internship

Your Career Center advisor can assist you with applying for paid internships prior to graduation. Internships provide you with the hands-on experience that all employers want when considering you for a full-time position after you have graduated. The Career Center hosts 2 career fairs each year and offers services in resume writing, cover letter writing, interviewing skills, and printing free business cards.

Assist with Research

Research opportunities exist within engineering departments as well as national and international team competitions mentored by organizations or industry. Enrollment in zero credit research course(s) reflect your research experience but require no cost or grade documentation.

Earn a Graduate Degree

UNT offers graduate degrees in most engineering disciplines. You can pursue the Grad Track program while completing your bachelor's degree to accelerate the time required to earn a Master of Science (MS) or a Doctor of Philosophy (PhD) degree. Students are allowed to count courses toward both their bachelor's and master's degrees or doctorate degrees, saving both time and money.

<u>Eligibility</u>: Students should apply for the Grad Track Program the semester before their Senior Design or Capstone rotation begins. Successful applications typically have a GPA of 3.5 or better. Students typically earn a MS or PhD in the same program for which they have earned a bachelor's degree. Students have to enroll full-time in the MS or PhD program in the first long semester after completing their BS degree in order for the completed graduate-level classes to count toward the graduate degree.

<u>To Apply</u>: Each department has its own application for Grad Track. You may also have to submit transcripts and letters of recommendation. Please visit your department's website and/or contact your department for more information.

Masters of Science (MS) Programs	Total Hours Required (MS)	Hours Earned During BS	Total Hours Required (PhD)	Hours Earned During BS
Artificial Intelligence	Thesis: N/A	9	N/A	N/A
	Non-Thesis: 33			
Biomedical Engineering	Thesis: 30	9	Concentration Available – See	12
	Non-Thesis: 33		Department for Information	
Computer Engineering	Thesis: 30	9	Approximately 72	12
	Non-Thesis: 36			
Computer Science	Thesis: 30	9	Approximately 72	12
·	Non-Thesis: 36			
Cybersecurity	Thesis: 30	9	N/A	N/A
	Non-Thesis: 36			
Electrical Engineering	Thesis: 30	9	Approximately 72	12
	Non-Thesis: 33			
Engineering Technology	Thesis: 30	9	N/A	N/A
	Non-Thesis: 33			
Mechanical and Energy	Thesis: 30	9	Approximately 72	12
Engineering	Non-Thesis: 33			
Materials Science and	Thesis: 30	9	Approximately 72	12
Engineering	Non-Thesis: 35			

Get Licensed:

<u>Fundamentals of Engineering (FE) Exam:</u> is not required in order to earn your engineering degree but it is generally your first step in the process to becoming a professionally licensed engineer. It is designed for recent graduates and students who are close to finishing an undergraduate engineering degree. Passing this exam legally certifies the candidate as an "engineer in training" (EIT) or an "engineer intern" (EI). UNT tutoring options for the exam can be found at **engineering.unt.edu/engineering-exam.**

<u>Principles and Practices of Engineering (PE) exam:</u> PE licensure is the engineering profession's highest standard of competence. EITs and EIs are permitted to attempt the exam after completing a minimum of 4 years of professional work experience under the supervisor of a PE. Passing the PE exam qualifies the candidate as a licensed professional engineer.

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