



Department of Computer Science and Engineering

BA in Information Technology

- Advising Information
- Core Curriculum
- Course Descriptions
- Degree Plan Information

UNT Discovery Park (NTDP) F201
(940) 565-2767

www.cse.unt.edu

Valid only for those on Catalog Year 2017-18

ADVISING INFORMATION:
<http://www.cse.unt.edu/site/node/418>

UNIVERSITY *of* NORTH TEXAS

Educational Objectives

Educational Objectives for the B.A. in Information Technology

Graduates will:

- Pursue graduate studies in information technology, computer science or related disciplines, and/or a career in a technology field utilizing skills from the information technology areas studied during the undergraduate program.
- Act responsibly and ethically in their professional conduct and successfully engage in lifelong learning.
- Work effectively in multi-disciplinary teams and exhibit the ability to communicate effectively.
- Complete professional work assignments that exhibit the ability to design, develop, manage, maintain and implement information systems while applying IT and computing principles and practices to the solution of real problems.

INFORMATION TECHNOLOGY

Bachelor of Arts (B.A.) degree with a major in Information Technology

Department of Computer Science & Engineering
Discovery Park F-201; (940) 565-2767
Faculty Advisors: Dr. Ryan Garlick, Mr. David Keathly
ryan.garlick@unt.edu, david.keathly@unt.edu

Engineering Advising Office
Discovery Park A-101; (940) 565-4201
Academic Advisor: Heather Burrow, Beverly Wilks
heather.burrow@unt.edu, beverly.wilks@unt.edu

University Core

Major Requirements

Grades of C or better.

COMMUNICATION

- 3 Hours approved course
- Grade of "C" or better is required.**

AMERICAN HISTORY

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

GOVERNMENT/POLITICAL SCIENCE

- PSCI 2305, U.S Political Behavior & Policy (3 Hours)
- PSCI 2306, U.S. & Texas Constitution & Institution (3 Hours)

CREATIVE ARTS

- 3 Hours approved course

LANGUAGE, PHILOSOPHY, & CULTURE

- 3 Hours approved course

SOCIAL & BEHAVIORAL SCIENCE

- 3 Hours approved course

COMPONENT AREA

- 3 Hours approved course

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
CHEM 1415, Chemistry for Engineers (3 Hours) & CHEM 1435, Chemistry for Engineers Lab (1 Hour)
or
BIOL 1710, Biology I (3 Hours) & BIOL 1760, Biology Lab (2 Hours)

COMPUTER SCIENCE and ENGINEERING

- CSCE 1030, Computer Science I (4 Hours)
- CSCE 1040, Computer Science II (3 Hours)
- CSCE 2100, Computing Foundations I (3 Hours)
- CSCE 2110, Computing Foundations II (3 Hours)
- CSCE 3055, IT Project Management (3 Hours)
- CSCE 3220, Human Computer Interfaces (3 Hours)
- CSCE 3420, Internet Programming (3 Hours)
- CSCE 3530, Introduction to Computer Networks (3 Hours)
- CSCE 3535, Network Administration (3 Hours)
- CSCE 3600, Principles of Systems Programming (3 Hours)
- CSCE 3605, Systems Administration (3 Hours)
- CSCE 3615, Enterprise Systems Arch., Analysis & Design (3 Hours)
- CSCE 4010, Social Issues in Computing (3 Hours)
- CSCE 4350, Introduction to Database Systems Design (3 Hours)
- CSCE 4355, Database Administration (3 Hours)
- CSCE 4550, Introduction to Computer Security (3 Hours)
- CSCE 4905, Information Technology Capstone I (3 Hours)
- CSCE 4925, Information Technology Capstone II (3 Hours)

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) & 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
Software/Web Development	Education/Teach North Texas
Game Development	Pre-MBA Business
Criminology/Forensics	General Business
Technical Communications	Management
Microsoft/Oracle/Cisco Cert.	Logistics
Graphic/Communications Design	
Geographic Information Systems (GIS)	

Completion of CSCE 2610, CSCE 4560, & CSCE 4600 toward a Supporting Area in Security and/or Networking also earns a Security Certificate from the National Security Agency and Department of Homeland Security. CSCE 2610 requires EENG 2710 or ENGR 2720/2730 as prerequisite.

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

INFORMATION TECHNOLOGY

Sample Four-Year Schedule

Required prerequisite(s) indicated in parentheses & notes

FRESHMAN YEAR

FALL

MATH 1710, Calculus I (see note 1)	4
CHEM 1410 or 1415 or BIOL 1710 (see note 2)	3
CHEM 1430 or 1435 or BIOL 1760 (see note 2)	1
CSCE 1030, Computer Science I (see note 3)	4
Communication Core course	<u>3</u>
Total Hours	15

SPRING

MATH 1680 or MATH1780, Probability (MATH 1710)	3
PHYS 1710, Mechanics (MATH 1710)	3
PHYS 1730, Mechanics Lab (MATH 1710)	1
CSCE 1040, Comp. Science II (CSCE 1030, MATH 1710)	3
TECM 2700, Technical Writing (Communication Core)	3
University Core course	<u>3</u>
Total Hours	16

SOPHOMORE YEAR

FALL

CSCE 2100, Computing Foundations I (CSCE 1040)	3
Supporting Area course (see note 4)	3
University Core course	3
University Core course	3
University Core course	<u>3</u>
Total Hours	15

SPRING

CSCE 2110, Computing Foundations II (CSCE 2100)	3
CSCE 3600, Systems Programming (CSCE 2100)	3
Supporting Area course (see note 4)	3
University Core course	3
University Core course	<u>3</u>
Total Hours	15

JUNIOR YEAR

FALL

CSCE 3055, IT Project Management (CSCE 2100)	3
CSCE 3220, Human Computer Interfaces (CSCE 2110)	3
CSCE 3420, Internet Programming (CSCE 2110)	3
CSCE 3530, Computer Networks (CSCE 3600)	3
Supporting Area course (see note 4)	<u>3</u>
Total Hours	15

SPRING

CSCE 4010, Social Issues (CSCE 3600)	3
CSCE 3605, Systems Administration (CSCE 3600)	3
CSCE 3615, Enterprise Systems Arch. (CSCE 2100)	3
CSCE 4350, Database Systems (CSCE 2110)	3
University Core course	<u>3</u>
Total Hours	15

SENIOR YEAR

FALL

CSCE 3535, Network Administration (CSCE 3530)	3
CSCE 4355, Database Administration (CSCE 4350)	3
CSCE 4550, Computer Security (CSCE 3600)	3
CSCE 4905, Capstone I (CSCE 3055, CSCE 3615)	3
Supporting Area course (see note 4)	<u>3</u>
Total Hours	15

SPRING

CSCE 4925, Capstone II (CSCE 4905)	3
Supporting Area course (see note 4)	3
Supporting Area course (see note 4)	3
Supporting Area course (see note 4)	3
University Core course	<u>3</u>
Total Hours	15

Notes:

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

Note 2: BIOL 1710 & 1760 has no prerequisite. CHEM 1410 & 1430 requires MATH 1100, College Algebra (or higher) as prerequisite. CHEM 1415 & 1435 requires MATH 1650, Pre-Calculus (or higher) as prerequisite.

Note 3: CSCE 1030 requires completion of or co-enrollment in MATH 1710, Calculus I (or higher) as prerequisite.

Note 4: Must enroll in Supporting Area courses approved by an advisor & complete prerequisite(s) for approved courses.

Must earn at least a grade of "C" and a minimum 2.5 GPA in CSCE 1030, CSCE 1040, CSCE 2100, and MATH 1710 as foundations to enroll in advanced courses.

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

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

Prerequisite Structure BA in Information Technology

Special Problems / Directed Study
See Undergraduate catalog for requirements

CSCE 4920
Co-op

See Undergraduate catalog for requirements

CSCE 4890

CSCE 4920

CSCE 2900
Special Problems

Elective credit only

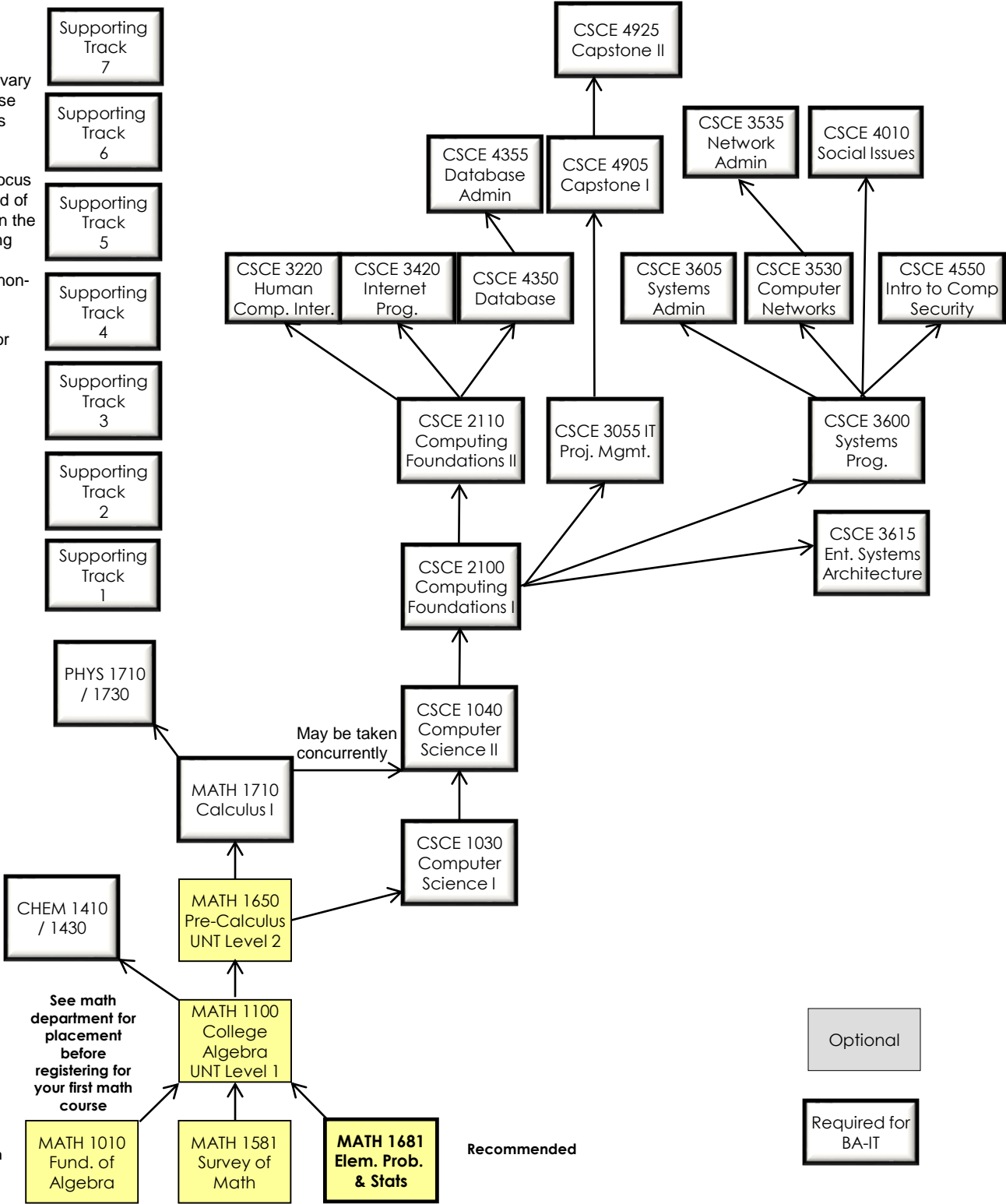
CSCE 4940

CSCE 4950

Maximum 6 hours credit in these courses

Pre-reqs vary with course selections
A clearly defined focus is required of courses in the Supporting Areas (may be non-CSCE). See an advisor for approval

- Supporting Track 7
- Supporting Track 6
- Supporting Track 5
- Supporting Track 4
- Supporting Track 3
- Supporting Track 2
- Supporting Track 1



Optional

Required for BA-IT

Recommended

UNT Math Level 0

University Core Information

Majors
CIS 3615, Visual Display of
Business Info.

COMMUNICATION (3 Hours)

- ENGL 1310, College Writing I
- ENGL 1311, Honors College Writing I
- ENGL 1315, Writing about Literature I
- TECM 1312, Intro. to Writing For International Students
- TECM 1700, Intro. to Professional, Science, & Tech. Writing

AP English Language & Composition score of 3, 4 or 5
IB English A: Language & Literature score of 5, 6, or 7

AMERICAN HISTORY (6 Hours)

- HIST 2610, US to 1865 **or**
- HIST 2675, Honors US History to 1865
- HIST 2620, US from 1865 **or**
- HIST 2685, Honors US History from 1865
- HIST 4700, Texas History

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

GOVT./POLITICAL SCIENCE (6 Hours)

- PSCI 2305, U.S Political Behav. & Policy **or**
- PSCI 2315, Honors U.S. Political Behav.
- PSCI 2306, U.S. & Texas **or**
- PSCI 2316, Honors U.S. & Texas

AP U.S. Gov. & Politics score of 3, 4 or 5
CLEP American Government
Fulfills PSCI 2305 or 2315

CREATIVE ARTS (3 Hours)

- ART 1300, Art Appreciation
- ART 1301, Honors Art Appreciation
- ART 2360, Art History Survey II
- COMM 2060, Performance of Literature
- DANC 1200, Appreciation of Dance
- DANC 2800, Survey of Dance
- MUMH 2040, Music Appreciation
- MUMH 3000, Nineteenth-Century Music
- MUMH 3010, Twentieth-Century Music
- MUMH 3500, Music Hist. & Lit. to 1750
- MUMH 3510, Music His. & Lit from 1750
- THEA 1340, Aesthetics of the Theatre
- THEA 2340, Theater Appreciation
- THEA 3030, World Theatre to 1700
- THEA 3040, World Theatre from 1700

AP Art History score of 3, 4 or 5
IB Dance score of 4 or higher*

LANGUAGE, PHIL. & CULTURE (3 Hours)

- AGER 2250, Aging in Film & Lit.
- ANTH 3101 American Culture & Society
- ANTH 3110, Indigenous People of N. Am.
- ANTH 3120, Indigenous Cultures of S.W.
- 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 Asian

LANGUAGE, PHIL. & CULTURE Cont'd (3 Hours)

- ENGL 2210, World Literature to 1700
- ENGL 2211, Honors World Literature to 1700
- ENGL 2220, World Literature from 1700
- ENGL 2221, Honors World Lit. from 1700
- FREN 3040, France Today
- FREN 4060, Studies in French Literature
- FREN 4310, Contemp. French Civilization
- GERM 3040, Topics in German Culture
- GERM 3050, Topics in German Literature
- HDFS 2313, Courtship & 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 Thru Film
- ITAL 3070, Intro. to Italian Literature
- JAPAN 3020, Advanced Japanese I
- MUET 3030, Music Cultures of the World
- PHIL 1050, Introduction to Philosophy
- PHIL 1400, Contemporary Moral Issues
- PHIL 2050, Introduction to Logic
- PHIL 2070, Great Religions
- PHIL 2100, Intro. To Judaism
- PHIL 2310, Intro. To Ancient Philosophy
- PHIL 2600, Ethics in Science

AP English Literature & Composition score of 3, 4 or 5
AP World History score of 3, 4 or 5
IB History score of 4 or higher*
IB Philosophy score of 5, 6, or 7
IB English Language A: Literature score of 5, 6, or 7

SOCIAL & BEHAVIORAL SCIENCE (3 Hours)

- AGER 4560, Minority Aging
- AGER 4800, Social Context of Aging
- ANTH 1010, Intro. to Anthropology
- ANTH 2300, Culture and Society
- BEHV 2300, Behavior Principles I
- CJUS 2100, Crime and Justice in the U.S.
- COMM 2020, Interpersonal Comm.
- EADP 4050, Special Pop. in Disasters
- ECON 1100, Microeconomics
- ECON 1110, Macroeconomics
- GEOG 1200, Global Societies
- HDFS 1013, Human Development
- HLTH 2200, Family Life & Human Sexuality
- JOUR 1210, Mass Comm. & Society
- MDSE 2750, Consumers in Global Market
- MKTG 2650 Culture and Consumption
- MAUG 1500 Occupational Health with Music
- PADM 2100, Cultural Competency in Urban
- PSYC 1630, General Psychology I
- PSYC 1650, General Psychology II
- PSYC 3620, Developmental Psychology
- RHAB 3100, Disability & Society
- SOCI 1510, Intro to Sociology
- SOCI 2100, Crime & Justice in the U.S.
- SOWK 1450, Intro. to Social Work

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

- BIOL 1000, Discover Life Science
- BIOL 1750/1755, Intro. Research
- Lab I & II
- BMEN 1300, Discover Biomedical Engr.**
- BUSI 1340, Managing Business Enterprise
- CHEM 1400, Discover Chemistry
- COMM 1010, Intro. to Communication
- COMM 1440, Honors Classical Argument
- COMM 2040, Public Speaking
- COMM 2140, Advocating in Public
- COUN 2620, Diversity & Cultural Awareness
- DANC 1100, Stress Reduct. Thru Movement
- EENG 1910, Project 1: Learning to Learn
- ENGL 3000, Literary Analysis & Interpretation
- ENGR 1030, Technological System
- FREN 1610, French Influence in North Am.
- FREN 1620, French Language in Canada
- GEOG 1500, Geospatial Tech. Urb Areas
- HDFS 2033, Parenting in Diverse Families
- HDFS 3423, Family, Schools, Communities
- HLTH 2000, Intro. to Public Health
- HMGT 1450, Principles of Nutrition
- HNRS 1100, The Good Society
- HNRS 1500, Intro. to Research
- INST 2100, Intro. to International Studies
- INST 2500, Global Perspectives
- ITAL 1610, Italian Influences in the U.S.
- JOUR 1210, Mass Communication Society
- LANG 1610, World Ling. Landscap
- LING 2050, Language of Now
- MATH 2000, Discrete Mathematics
- MDSE 2750, Consumers in a Global Market
- MEEN 1000, Discover Mech. & Energy Engr.
- MGMT 3330, Communicating in Business
- MKTG 2650, Culture & Consumption
- MKTG 3010, Professional Selling
- MTSE 1100, Discover Materials
- PHED 1000, Health Related Fitness
- PHIL 1800, Philosophy of Self
- PHIL 2400, Religion in American Society
- PHIL 2500, Contemp. Environmental Issues
- PHIL 4150, Feminism
- PHIL 4200, Science, Technology, & Society
- PHI 4200, Philosophy of Food
- PSCI 1000, Politics and the Culture
- PSCI 2000, Philosophy of Science
- RHAB 3000, Microcounseling
- SOCI 2070, Race & Ethnic Relations
- SOWK 4540, Human Diversity
- TECMEN 1300 is pre-approved for College credit
- WCS 2100, Values & Society

Please contact an engineering advisor prior to enrollment in this course.

BA in Information Technology University of North Texas

Transfer Student Guide

The tables below indicate the University Core, College of Engineering and Departmental course requirements that are available to take at area community colleges before transferring to UNT Denton or UNT Dallas. Courses that are taken at area community colleges after transferring to UNT Denton or UNT Dallas must be approved from a UNT advisor and may be different than what is listed on these tables.

Core Classes

UNT Course	Title	DCCCD	Collin	TCC	NCTC	Notes
ENGL 1310	Composition I	ENGL 1301	ENGL 1301	ENGL 1301	ENGL 1301	
TECM 2700	Technical Writing	ENGL 2311	ENGL 2311	ENGL 2311	ENGL 2311	
HIST 2610	US History I	HIST 1301	HIST 1301	HIST 1301	HIST 1301	
HIST 2620	US History II	HIST 1302	HIST 1302	HIST 1302	HIST 1302	
PSCI 1040	State and Local Govt.	GOVT 2301	GOVT 2301	GOVT 2306	GOVT 2306	
PSCI 1050	US Govt.	GOVT 2302	GOVT 2302	GOVT 2305	GOVT 2305	
Social & Behavioral Science	From approved list	From approved list	From approved list	From approved list	From approved list	
Creative Arts	From approved list	From approved list	From approved list	From approved list	From approved list	
Language, Philosophy & Culture	From approved list	From approved list	From approved list	From approved list	From approved list	
Discovery	From approved list	From approved list	From approved list	From approved list	From approved list	

Please see the College of Engineering Advisers in Discovery Park
BEFORE enrolling in courses at another institution

College of Engineering Core
Grades of 'D' are not accepted

UNT Course	Title	DCCCD	Collin	TCC	NCTC	Notes
PHYS 1710/1730	Physics I – Mechanics	PHYS 2425	PHYS 2425	PHYS 2425	PHYS 2425	
CHEM 1410/1430	Gen Chemistry I	CHEM 1411	CHEM 1411	CHEM 1411	CHEM 1411	
MATH 1710	Calculus I	MATH 2413	MATH 2413	MATH 2413	MATH 2413	
MATH 1680	Elem. Prob & Statistics	MATH 2342	MATH 1342	MATH 1342	MATH 1342	

Departmental Requirements

UNT Course	Title	DCCCD	Collin	TCC	NCTC	Notes
CSCE 1030	Programming Fundamentals I	COSC 1436	COSC 1436	COSC 1436	COSC 1436	
CSCE 1040	Programming Fundamentals II	COSC 1437	COSC 1437	COSC 1437	COSC 1437	
CSCE 2100 or CSCE 2110 if CSCE 2100 complete	Foundations I	COSC 2436	COSC 2436	COSC 2436	COSC 2436	
CSCE 2100 or CSCE 2110 if CSCE 2100 complete	Foundations II	MATH 2305	MATH 2305	MATH 2305	MATH 2305	