



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 beginning Fall 2010

Bachelor of Arts

Bachelor of Arts

- A Minimum of 121 semester hours required for graduation.
- 42 advanced (3000-4000 level) hours required for degree (minimum of 24 must be taken at UNT).
- A minimum of 31 semester hours must be completed at UNT.

THIS IS A SIMPLIFIED GUIDE TO SELECTING COURSES – PLEASE MEET WITH YOUR ADVISOR AND CHECK THE UNDERGRADUATE CATALOG FOR ALL COURSE OPTIONS IN EACH CATEGORY

College of Engineering Core

LABORATORY SCIENCES (12 Hours; **Choose 3 courses** with labs)

- BIOL 1710-1730 (4 Hours) _____
- BIOL 1720-1740 (4 Hours) _____
- CHEM 1410-1430 **or** 1415-1435 (4 Hours) _____
- PHYS 1710-1730 (4 Hours) _____
- PHYS 2220-2240 (4 Hours) _____

Must earn at least a "C" in all courses and a 2.5 GPA

MATHEMATICS (10 Hours)

- Math 1710 – Calculus I (4 hours) _____
- Math 1780 – Probability Models (3 Hours) _____
- Math 2770 – Discrete Math (3 hours) _____

Must earn at least a "C" in 2 courses and a 2.5 GPA

ORAL / ADVANCED WRITTEN COMMUNICATIONS (3 Hours)

- TECM 2700 – Tech Writing _____ (satisfies 2nd English)

Must earn at least a "C" in TECM 2700

CSE Department Required Courses

COMPUTER SCIENCE (39 Hours)

Group I. CSCE Required Courses

- CSCE 1030 – Computer Science I (4 hrs) _____
- CSCE 1035 – Information Systems I (3 hrs) _____
- CSCE 1045 – Information System II (3 hrs) _____
- CSCE 1040 – Computer Science II (3 hrs) _____
- CSCE 2050 – Computer Science III (3 hrs) _____
- CSCE 2615 – Ent. Architecture/Design (3 hrs) _____
- CSCE 3055 – IT Project Mgmt (3 hrs) _____
- CSCE 4355 – Database/Info. Int. (3 hrs) _____
- CSCE 3535 – Network/Sec. Mgmt (3 hrs) _____
- CSCE 3605 – IT Systems / Admin. (3 hrs) _____
- CSCE 4905 – Capstone I (3 hrs) _____
- CSCE 4925 – Capstone II (3 hrs) _____
- CSCE 4010 – Engineering Ethics (2 hrs) _____

Group II. CS Concentration Area (9 hours) – see next page

- (3 Hrs.) _____ (advanced)
- (3 Hrs.) _____ (advanced)
- (3 Hrs.) _____ (advanced)

Supporting Area (18 hrs to support the CS Concentration Area)

- these courses may NOT be used to fulfill a minor -

- (3 Hrs.) _____
- (3 Hrs.) _____
- (3 Hrs.) _____
- (3 Hrs.) _____
- (3 Hrs.) _____
- (3 Hrs.) _____

Advanced courses in the supporting track will assist in reaching the 42 advanced hours required for the degree

These credits may come from the community college technology courses under certain conditions. Please check with an advisor. Pre-requisites required for Concentration & Supporting Areas can also be used in those areas.

University Core

ENGLISH (3 Hours)

- ENGL 1310, 1311, 1312, or 1313 _____
- Second English fulfilled by TECM 2700

UNITED STATES HISTORY (6 Hours)

- HIST 2610 _____
- HIST 2620 (4260 or 4700 recommended) _____

NOTE: Honors equivalents or History 4700 (Texas History) or any advanced US-Topic History course(s) may substitute for either of the US History survey courses.

POLITICAL SCIENCE (6 Hours)

- PSCI 1040 _____
- PSCI 1050 _____

NOTE: If you are transferring credit for either PSCI course, please check with your advisor. Do not assume that your "first" course elsewhere is the same as PSCI 1040. An out-of-state American Government course cannot be equivalent to PSCI 1040 but may be equivalent to PSCI 1050. Any advanced US- Topic Political Science course may substitute for PSCI 1050 only.

SOCIAL AND BEHAVIORAL SCIENCES (3 Hours)

- VISUAL / PERFORMING ARTS (3 Hours) _____
- (MUET 3000 or 3010 recommended)

- HUMANITIES (3 Hours) _____

UNDERSTANDING THE HUMAN COMMUNITY (6 Hours)

- _____
- (MUET 3020, 3030 PSCI 3810, SOCI 4160 or SMHM 4750 recommended)

NOTE: You must maintain a 2.75 GPA in all upper division CSCE courses.

Completing CSCE 3530, CSCE 4550, and CSCE 4560 earns a certificate from the Committee on National Security Systems

Completing CSCE 4210, 4215, 4220, and 4250 earns the Certificate in Game Programming.

A maximum of 6 hours of credit can be received in CSCE 4890, 4920, 4940, 4950 or 4980.

Check with your advisor concerning elective courses and eligible Concentration and Supporting Area courses.

In case of conflicting information, the catalog (the Big Green Book) prevails. This guide is for catalog year 2010-11 and does not apply to other catalog years.

Bachelor of Arts Major in Information Technology

Sample Focus Areas

Students are encouraged to consult their advisor concerning transferability of courses.

The focus area does not appear on your diploma.

Supporting Tracks involve a clearly defined focus of courses in the Concentration and Supporting Areas
These courses may not be used as part of a minor.

These are just a few samples of the many options available to you. Please consult your advisor.

Game Development

CS Concentration Area Courses (9 Hours)

CSCE 4210 Game Programming I
CSCE 4220 Game Programming II
CSCE 4890.716 Directed Study in Game Dev

Supporting Area Courses (18 hours)

Math 2700 Linear Algebra
CSCE 4230 Intro. to Computer Graphics
CSCE 4310 Intro to Artificial Intelligence
CSCE 4890.716 2nd Directed Study in Game Dev
Advanced Elective
Advanced Elective

Business (Pre-MBA)

CS Concentration Area Courses (9 Hours)

CSCE 4310 Intro. To Artificial Intelligence
CSCE 4560 Secure Electronic Commerce
CSCE 4890 Directed Study in Business Apps.

Supporting Area Courses (18 hours)

ACCT 2010
ACCT 2030
FINA 3770
MKTG 3650
MGMT 3830
BLAW 3430

Information Security

CS Concentration Area Courses (9 Hours)

CSCE 4550 Intro. to Computer Security
CSCE 4560 Secure Electronic Commerce
CSCE 4890 Directed Study in Security

Supporting Area Courses (18 hours)

CSCE 3530 Intro. to Computer Networks
Advanced BCIS Security Course
Advanced BCIS Security or e-Commerce
CSCE 4890 Directed Study in Security
Advanced CJUS Course
Advanced CJUS Course

Pre-Law

CS Concentration Area Courses (9 Hours)

CSCE 4550 Intro. to Computer Security
CSCE 4560 Secure Electronic Commerce
CSCE 4890 Directed Study in Security

Supporting Area Courses (18 hours)

Choose 18 hours from the following courses depending on legal focus area
Political Sci. 3200, 3210, 4200, 4210, 4220, 4810
Criminal Justice 3201, 4250, 2100, 3210, 3700
Business Law 2000, 3430, 4200, 4430, 4450, 4480, 4600, 4770

	Course Title	Fall	Spring
1010	Introduction to Computer Science Non Majors	x	x
1020	Program Development Non Majors	x	x
1030	Computer Science I	x	x
1035	Information Systems I	x	x
1040	Computer Science II	x	x
1045	Information Systems II	x	x
2050	Computer Science III	x	x
2410	Programming Laboratory	x	
2610	Computer Organization	x	x
2615	Enterprise Architecture and Design		x
2900	Special Problems in CSE	x	x
3010	Signals & Systems	x	EE
3020	Fundamentals of Communication Theory	EE	x
3030	Parallel Programming		x
3055	IT Project Management	x	
3110	Data Structures & Algorithms	x	x
3210	Symbolic Processing	x	
3300	File Organization/Process	x	
3410	Advanced Programming	x	x
3510	Introduction to Wireless Communication		x
3520	Data Communications		x
3530	Introduction to Computer Networks	x	
3535	Network and Security Management		x
3600	Principles of Systems Programming	x	x
3605	IT Systems/Management	x	
3612	Embedded System Design	x	
3650	Introduction to Compilation Techniques		x
3730	Reconfigurable Logic	x	
4010	Engineering Ethics (2 hr)	x	x
4110	Algorithms	x	x
4210	Game Programming I	x	
4215	Programming Math and Physics for Games	x	
4220	Game Programming II		x
4230	Introduction Computer Graphics		x
4250	Topics in Game Development		x
4310	Introduction to Artificial Intelligence		x
4350	Introduction to Database Systems Design	x	
4355	Database Design and Information Integration	x	
4410	Software Develop I	x	x
4420	Software Develop II		x
4430	Programming Languages		x
4440	Real-Time Software Development		x
4520	Wireless Networks & Protocols	x	
4530	Computer Network Design		x
4540	TCP/IP Protocols		x
4550	Introduction to Computer Security	x	
4560	Secure E Commerce		x
4600	Introduction to Operating Systems		x
4610	Computer Architecture		x
4620	Real-Time Operating Systems	x	
4730	VLSI Design		x
4750	VLSI Testing	x	
4905	Capstone I	x	
4910	Computer Engineering Design I	x	
4915	Computer Engineering Design II		x
4925	Capstone II		x

Prerequisite Structure BA in Information Technology

Special Problems / Directed Study
See Undergraduate catalog for requirements

CSC 4920
Co-op
See Undergraduate catalog for requirements

CSC 2900
Special Problems
Elective credit only

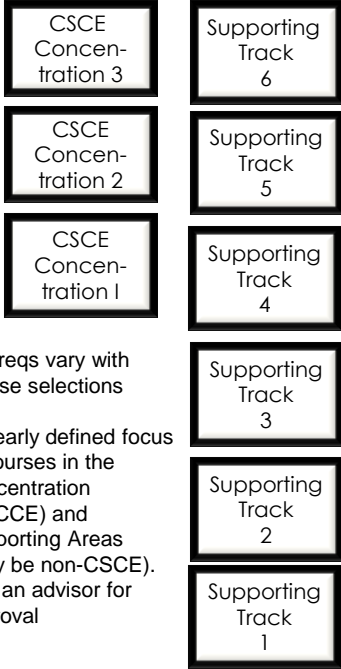
CSC 1010
Intro to CS
Not for CSC major credit

CSC 4950 **CSC 4950**

CSC 4940 **CSC 4890**

Maximum 6 hours credit in these courses

CSC 4010
Engineering Ethics
requires Junior level standing



CSC 4925
Capstone II

CSC 4905
Capstone I

CSC 3535
Networks & Sec. Mgmt.

CSC 3605
IT Sys./Mgmt

CSC 3055
IT Proj. Mgmt.

CSC 2615
Enterprise Sys. Arch.

CSC 4355
DB/Info Integration

Pre-reqs vary with course selections

A clearly defined focus of courses in the Concentration (CSCCE) and Supporting Areas (may be non-CSCE). See an advisor for approval



CSC 1045
Info Sys II

CSC 2050
Computer Science III

Math 1780
Probability Models

MATH 2770
Discrete Math

MATH 1710
Calculus I

CSC 1035
Info Sys I

CSC 1040
Computer Science II

May be taken concurrently

MATH 1650
Pre-Calculus
UNT Level 2

CSC 1030
Computer Science I

See math department for placement before registering for your first math course

MATH 1100
College Algebra
UNT Level 1

Optional

UNT Math Level 0

MATH 1010
Fund. of Algebra

MATH 1581
Survey of Math

MATH 1681
Elem. Prob. & Stats

Required for BA-IT

Accepted Course Offering for University of North Texas Core Requirements

ENGLISH

Composition I

- ENGL 1310 College Writing I
1313 Computer Assisted College Writing I
1311 Honors Composition I
1312 Gram. & Comp. For International Students
1315 Computer Assisted Writing About Lit. I

VISUAL AND PERFORMING ARTS

- ART 1300 Art Appreciation
2360 Art History Survey II
DANC 1200 Appreciation of Dance
MUMH 1600 Music in Human Imagination
2040 Music Appreciation
3000 Nineteenth-Century Music
3010 Twentieth-Century Music
THEA 1340 Aesthetics of the Theatre
1375 The Actor and the Text
2340 Theater Appreciation

HUMANITIES

- AGER 2250 Images of Aging in Film and Literature
ENGL 2210 World Literature I
2211 Honors World Literature I
2220 World Literature II
2221 Honors World Literature II
2322 British Literature to 1780
2323 British Literature from 1780 to Present
2327 American Literature to 1870
2328 American Literature from 1870 to Present
2352 Lit. for International Students I
2362 Lit. for International Students II
PHIL 1050 Introduction to Philosophy
1400 Intro. To Contemporary Moral Issues
2050 Introduction to Logic
2310 Intro. To Ancient Philosophy
2330 Intro. To Modern Philosophy
2500 Intro. To Contemporary Environ. Issues

HISTORY

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

AMERICAN GOVERNMENT

- PSCI 1040 American Government
1041 Honors American Government
1050 American Government
1051 Honors American Government
1060 American Government: Topics

SOCIAL & BEHAVIORAL SCIENCES

- ANTH 1010 General Anthropology
2300 Intro. To Socio-cultural Anthropology
BEHV 2300 Behavior Principles I
CJUS 2100 Crime and Justice in the United States
DFST 1013 Human Development
ECON 1100 Microeconomics
1110 Macroeconomics
GEOG 1170 Culture, Environment, and Society
ENGR 1030 Technological Systems
PHIL 2600 Ethics in Science
PSCI 3120 Women and Politics
3310 Political Theory: Socrates to 18th Century
3320 Political Theory: 18th Cent to Present
PSYC 1630 General Psychology I
1650 General Psychology II
RHAB 3100 Disability and Society
SOC 1510 Individuals in Society
1520 Contemporary Social Problems
2100 Crime and Justice in the United States
(same as CJUS 2100)

UNDERSTANDING THE HUMAN COMMUNITY

Any Foreign Language 1010, 1020, 2040, or 2050

- AGER 4560 Minority Aging
4800 The Social Context of Aging
ANTH 2200 Gender Across Cultures
1150 World Cultures Through Film
1100 World Cultures
2350 Cultural Diversity in the U. S.
4050 Contemporary Ethnic Groups
ART 2350 Art History Survey I
BIOL 1024 Biological Principles of Women's Health
BUSI 1340 The Free Enterprise System
CJUS 2600 Diversity Issues in Criminal Justice
COMM 1010 Introduction to Communication
1440 Honors Classical Argument
2020 Interpersonal Communication
2040 Public Speaking
2060 Performance of Literature
4260 Performance and Culture
DANC 1100 Stress Reduction through Movement
2800 Survey of Dance
DFST 2033 Parenting in Diverse Families
EDEE 2000 Exploring Diversity through Social Action
EDSP 2500 Human Exceptionality
ENGL 3450 Short Story
3920 Survey of Ethnic Literature
4300 Modern Drama
GEOG 1200 World Regional Geography
3100 Geography in the U.S. and Canada
3750 Geography of Contemp. Africa
HIST 1050 World Civilization to the 16th Century
1075 Honors World Civ. To the 16th Century
1060 World Civilization from the 16th Century
1085 Honors World Civ. From the 16th Century
HLTH 1100 School & Community Health Services
2200 Family Life and Human Sexuality
JOUR 1210 Mass Communications and Society
4250 Race, Gender, and the Media
KINE 2000 History and Philosophy of Sport
2050 Sociology of Sport (same as SOCI 2050)
MKTG 2650 Global Marketing Concepts
3010 Professional Selling
MUAG 1500 Occupational Health: Lessons from Music
MUET 3020 Popular Music in American Culture
3030 Music Cultures of the World
PADM 2100 Diversity in Urban Governance
PHED 1000 Health Related Fitness
PHIL 2070 Introduction to Great Religions
2400 Religion & American Society
PSCI 3500 Introduction to Peace Studies
3810 International Relations
4520 International Human Rights
4660 Democracy and Democratization
4710 Middle East Politics
4720 Ethnicity in World Politics
4850 Critical Issues in World Politics
PSYC 2580 Health Psychology
RECR 2550 Leisure and Society
RHAB 3000 Microcounseling
SMHM 1450 Principles of Nutrition
2750 Consumers in a Global Market
3450 Presentation Techniques
4750 Managing a Diverse Workforce
SOCI 2010 Race, Class, Gender, Ethnicity
2050 Sociology of Sport (same as KINE 2050)
2070 Introduction to Race & Ethnic Relations
4160 Developing Societies
4540 Race and Ethnic Minorities
SOWK 4540 Human Diversity for the Helping Professions
THEA 3030 World Theatre to 1700
3040 World Theatre after 1700
WMST 2100 Woman & Society: Intro to Women's Studies
2420 Race, Class, Gender and Ethnicity
2620 Biological Principles of Women's Health

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	CCCC	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	
Visual/Performing Arts	From approved list	From approved list	From approved list	From approved list	From approved list	
Humanities	From approved list	From approved list	From approved list	From approved list	From approved list	
Understanding the Human Community	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

3 sciences from choices below plus the two math courses

UNT Course	Title	DCCCD	CCCC	TCC	NCTC	Notes
BIOL 1710/1730	General Biology I	BIOL 1406	BIOL 1406	BIOL 1406	BIOL 1406	UNT-D reqd
PHYS 1710/1730	Physics I – Mechanics	PHYS 2425	PHYS 2425	PHYS 2425	PHYS 2425	UNT-D reqd
PHYS 2220/2240	Physics II – Electricity and Magnetism	PHYS 2426	PHYS 2426	PHYS 2426	PHYS 2426	UNT-D reqd
CHEM 1410/1430	Gen Chemistry I	CHEM 1411	CHEM 1411	CHEM 1411	CHEM 1411	UNT-D reqd
BIOL 1720/1740	Gen Biology II	BIOL 1407	BIOL 1407	BIOL 1407	BIOL 1407	UNT-D reqd
MATH 1710	Calculus I	MATH 2513	MATH 2413	MATH 2513	MATH 2413	UNT-D reqd
MATH 2770	Discrete Mathematics	MATH 2305	MATH 2305	MATH 2305	MATH 2305	UNT-D reqd

Departmental Requirements

UNT Course	Title	DCCCD	CCCC	TCC	NCTC	Notes
CSCE 1030	Programming Fundamentals I	COSC 1436	COSC 1436	COSC 1436	COSC 1436	UNT-D reqd
CSCE 1040	Programming Fundamentals II	COSC 1437	COSC 1437	COSC 1437	COSC 1437	UNT-D reqd
CSCE 2050	Programming Fundamentals III	COSC 2436	COSC 2436	COSC 2436	COSC 2436	UNT-D reqd
CSCE 2610	Computer Organization	COSC 2425	COSC 2425	COSC 2425	COSC 2425	UNT-D reqd