



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 2013-14

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

UNIVERSITY *of* NORTH TEXAS

Information Technology

Information Technology

- 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 – CHECK THE UNDERGRADUATE CATALOG FOR ALL COURSE OPTIONS

Math, Science, & Engineering Core

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

LABORATORY SCIENCES (8 Hours)

CHEM 1410 or 1415 & lab (4 hrs) _____
 PHYS 1710-1730 (4 hrs) _____

MATHEMATICS (7 Hours)

Math 1710 – Calculus I (4 hrs) _____
 Math 1680, 1681 or 1780 Probability (3 hrs) _____

ORAL / ADVANCED WRITTEN COMMUNICATIONS (3 Hours)

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

CSE Department Required Courses

COMPUTER SCIENCE (46 Hours)

Group I. CSCE Required Courses

- CSCE 1030 – Computer Science I (4 hr) _____
- CSCE 1040 – Computer Science II (3 hr) _____
- CSCE 2100 – Computing Foundations I (3 hr) _____
- CSCE 2110 – Computing Foundations II (3 hr) _____
- CSCE 3055 – IT Project Mgmt (3 hr) _____
- CSCE 3220 – Human Computer Interf. (3 hr) _____
- CSCE 3420 – Internet Programming (3 hr) _____
- CSCE 3530 – Intro to Comp. Networks (3 hr) _____
- CSCE 3600 – Systems Programming (3 hr) _____
- CSCE 4010 – Social Issues in Computing (3 hr) _____
- CSCE 4350 – Intro to Database Sys. (3 hr) _____
- CSCE 4444 – Software Engineering (3 hr) _____
- CSCE 4550 – Intro. To Comp. Security (3hr) _____
- CSCE 4905 – Capstone I (3 hr) _____
- CSCE 4925 – Capstone II (3 hr) _____

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

- (3 Hrs.) _____ (advanced)
 - (3 Hrs.) _____ (advanced)
 - (3 Hrs.) _____ (advanced)
- CSCE courses most closely aligned with the supporting area

Supporting Area (21 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 _____
 Grade of "C" or better required
 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) _____
 (MUMH 3000 or 3010 recommended)

HUMANITIES (3 Hours) _____

DISCOVERY (3 Hours) _____

CAPSTONE (3 Hours) _____ CSCE 4010 Satisfies

TAKE UPPER DIVISION (3xxx & 4xxx) COURSES WHERE POSSIBLE

**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, or 4950.

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

In case of conflicting information, the catalog (catalog.unt.edu) prevails. This guide is for catalog year 2013-14 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.

Focus areas involve a clearly defined set of courses in the Concentration and Supporting Areas

These courses may not be used as part of a minor.

Concentration area courses must be CSCE. Supporting area courses can be CSCE or from other disciplines. Approved courses and their pre-requisites will work for the Concentration / Supporting Areas

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 4215 Programming Math & Physics for Games

Suggested Supporting Area Courses

Math 2700 Linear Algebra
CSCE 4230 Intro. to Computer Graphics
CSCE 4310 Intro to Artificial Intelligence
CSCE 4890.716 Directed Study in Game Dev
CSCE 4250 Topics in Game Development
Advanced Digital Art / Modeling Courses

Business (Pre-MBA)

CS Concentration Area Courses (9 Hours)

CSCE 4310 Intro. To Artificial Intelligence
CSCE 4560 Secure Electronic Commerce
CSCE 4520 Wireless Networks and Protocols

Suggested Supporting Area Courses

ACCT 2010
ACCT 2020
FINA 3770
MKTG 3650
MGMT 3820
BLAW 3430
Any 3000-4000 level College of Business course

Security & Networking

CS Concentration Area Courses (9 Hours)

CSCE 3110 Data Structures
CSCE 4560 Secure Electronic Commerce
CSCE 4050 Cryptography

Suggested Supporting Area Courses

CSCE 4520 Wireless Networks and Protocols
CSCE 4050 Applications of Cryptography
CSCE 3510 Introduction to Wireless Comm.
Advanced BCIS Security or e-Commerce
CSCE 4890 Directed Study in Security
Advanced BCIS Security or e-Commerce
Advanced CJUS Course

Pre-Law

CS Concentration Area Courses (9 Hours)

CSCE 3110 Data Structures
CSCE 4560 Secure Electronic Commerce
CSCE 4890 Directed Study in Security

Suggested Supporting Area Courses

Choose 21 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

Teaching Certification

CS Concentration Area Courses (9 Hours)

Course suggestions based on teaching area:
Theory: CSCE 3110, 4110, 4115
Security: CSCE 4050, 4240, 4560
Biocomputing: CSCE 3850, 4810, 4820
Systems: CSCE 4115, 4600, 4650
Etc...

Suggested Supporting Area Courses

TNTX 1100, TNTX 1200, PHIL 2600, EDSE 3500, EDSE 4000, EDSE 4500, EDSE 4608, EDSE 4618, EDSE 4628
Must have these 22 hours, a 2.5 GPA and be recommended for certification. Students should contact the Teach North Texas program office for more information.
All state certification requirements and information on required examinations is available on the web site of the State Board for Educator Certification (SBEC), www.tea.state.tx.us.

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 2900
Special Problems

Elective credit only

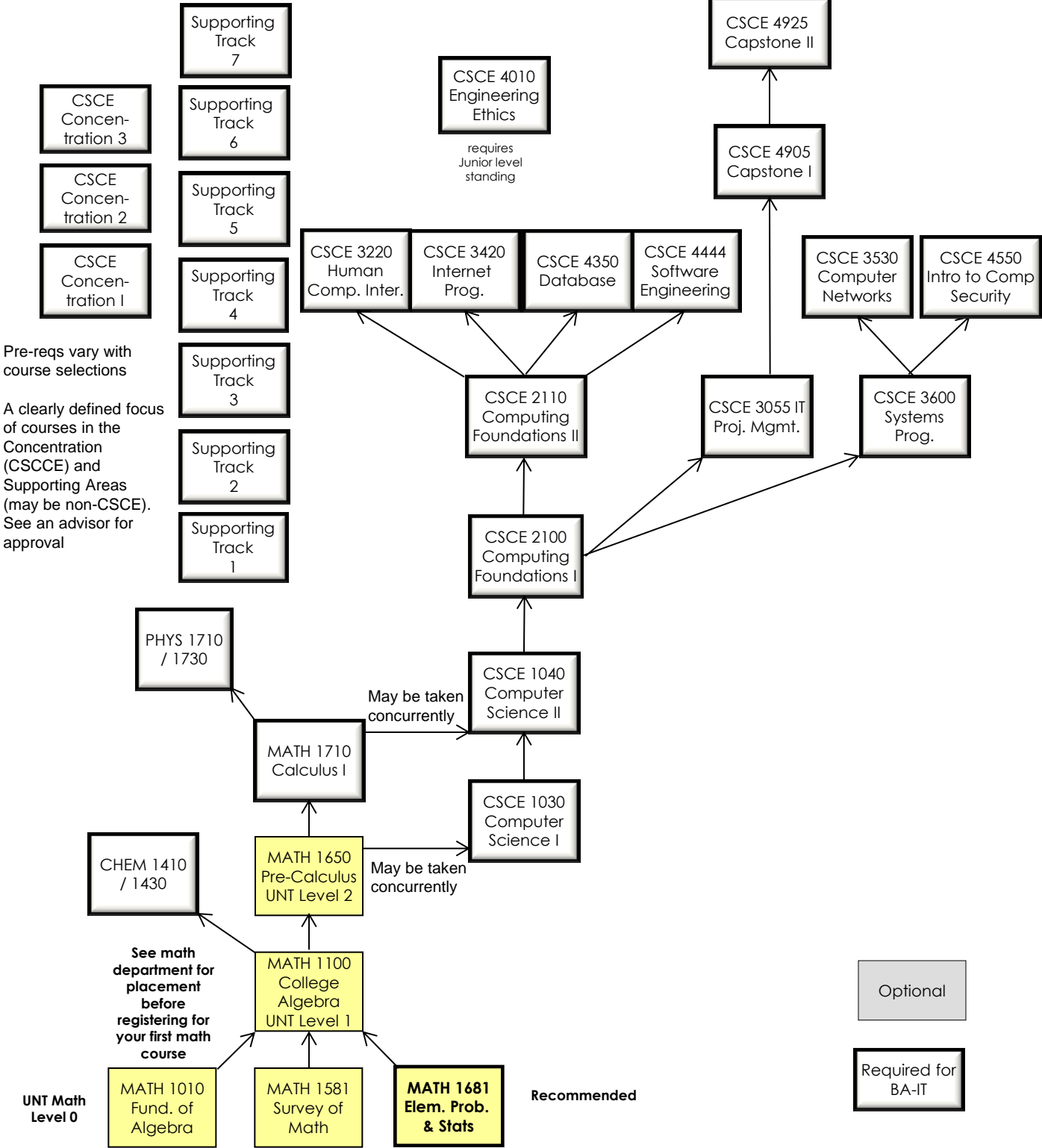
CSCE 4890

CSCE 4920

CSCE 4940

CSCE 4950

Maximum 6 hours credit in these courses



Course Offering for UNT Core Requirements

ENGLISH COMPOSITION (3 Hours)

ENGL	1310, College Writing I
ENGL	1311, Honors Composition I
ENGL	1313, Computer Assisted College Writing I
ENGL	1315, Writing about Literature I
TECM	1312, Gram. & Comp. For International Students
TECM	1700, Intro. to Professional, Science, & Tech. Writing

UNITED STATES HISTORY (6 Hours)

HIST	2610, US to 1865
HIST	2675, Honors US History to 1865
HIST	2620, US from 1865
HIST	2685, Honors US History from 1865
HIST	4700, Texas History Advanced (3*** or 4***) level U.S. History (Group A)

POLITICAL SCIENCE (6 Hours)

PSCI	1040, American Government
	1041, Honors Am. Government
	1050, American Government
	1051, Honors Am. Government

SOCIAL & BEHAVIORAL SCIENCES (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.
DFST	1013, Human Development
EADP	4050, Special Pop. in Disasters
ECON	1100, Microeconomics
ECON	1110, Macroeconomics
HLTH	2200, Family Life & Human Sexuality
JOUR	1210, Mass Comm. & Society
MKTG	2650, Princ. of Global Marketing
PADM	2100, Diversity in Urban Gover.
PSYC	1630, General Psychology I
PSYC	1650, General Psychology II
RHAB	3100, Disability & Society
SOCI	1510, Individuals in Society
SOCI	2100, Crime & Justice in the U.S.

VISUAL AND PERFORMING ARTS (3 Hours)

ART	1300, Art Appreciation
ART	1301, Honors Art Appreciation
ART	2350, Art History Survey I
ART	2360, Art History Survey II
COMM	2060, Performance of Literature
DANC	1200, Appreciation of Dance
DANC	2800, Survey of Dance
MUMH	1600, Music in Human Imagination
MUMH	2040, Music Appreciation
MUMH	3000, Nineteenth-Century Music
MUMH	3010, Twentieth-Century Music
THEA	1340, Aesthetics of the Theatre
THEA	2340, Theater Appreciation
THEA	3030, World Theatre to 1700
THEA	3040, World Theatre from 1700

HUMANITIES (3 Hours)

AGER	2250, Images of Aging in Film & Lit.
ENGL	2210, World Literature I
ENGL	2211, Honors World Literature I
ENGL	2220, World Literature
ENGL	2221, Honors World Literature
ENGL	2322, British Literature to 1780
ENGL	2323, British Literature from 1780
ENGL	2327, American Literature to 1870
ENGL	2328, American Literature from 1870
FREN	3040, Adv. Reading French Culture
FREN	4070, French Culture & Lit. thru Film
FREN	4310, Contemp. French Civilization
MUET	3030, Music Cultures of the World
PHIL	1800, Philosophy of Self
PHIL	2070, Great Religions
PHIL	2100, Intro. To Judaism
PHIL	2310, Intro. To Ancient Philosophy
PHIL	2400, Religion in American Society
PHIL	2500, Contemp. Environ. Issues
PHIL	2600, Ethics in Science

DISCOVERY (3 Hours)

ANTH	1100, World Cultures
ANTH	1150, World Cultures Through Film
ANTH	2070, Intro. to Race & Ethnic Studies
ANTH	2200, Gender Across Cultures
BCIS	3615, Visual Display of Business Info.
BIOL	1750/1755, Intro. Research Lab I & II
BUSI	1340, Managing Business Enterprise
COMM	1010, Intro. to Communication
COMM	1440, Honors Classical Argument
COMM	2040, Public Speaking
COUN	2620, Diversity & Cultural Awareness
DANC	1100, Stress Reduct. Thru Movement
DFST	2033, Parenting in Diverse Families
ENGR	1030, Technological Systems
FREN	1610, French Influence in North Am.
FREN	1620, French Language in Canada
GEOG	1170, Culture, Environment & Society
GEOG	1200, World Regional Geography
GEOG	1500, Geography of DFW Metroplex
HIST	1050, World History to 1500
HIST	1060, World History from 1500
HMGD	1450, Principles of Nutrition
HNRS	1100, The Good Society
HNRS	1500, Intro. to Research
INST	2100, Intro. to International Studies
LING	2050, Pop Culture, Tech. & Society
MDSE	2750, Consumers in a Global Market
MEEN	1000, Discover Mech. & Energy Engr.
MGMT	3330, Communicating in Business
MKTG	3010, Professional Selling
MUAG	1500, Occupational Health:
PHED	1000, Health Related Fitness
PHIL	1050, Introduction to Philosophy
PHIL	1400, Contemporary Moral Issues
PHIL	2050, Introduction to Logic
PSYC	1500, Mythbusting
RHAB	3000, Microcounseling
SOCI	2070, Race & Ethnic Relations
SOWK	4540, Human Diversity
TECM	1500, New Media for College Career
UCRS	1000, Freshman Seminar
WMST	2100, Women & Society

CAPSTONE (3 Hours)

ELET	4790, Senior Design II
HNRS	4000, Honors Capstone Seminar
MEET	4790, Senior Design II
MUET	3020, Popular Music in Am. Culture
PHIL	3700, Science, Technology & Society
PHIL	3900, Philosophy of Food

Additional courses will be added for the 2012-2013 curriculum. If your degree program doesn't require a major course which double-dips for this core category, you should post-pone completing a course until the updated curriculum is released.

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	
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	
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 / 1681	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	