



Department of Computer Science and Engineering

BS in Computer Science **BS in Computer Engineering**

- 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 2016-17

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

UNIVERSITY *of* NORTH TEXAS

Educational Objectives

Educational Objectives for the B.S. in Computer Science

Graduates will:

- Pursue graduate studies in computer science or related disciplines, and/or a career in a technology field utilizing skills from the computer science areas studied during the undergraduate program.
- Act responsibly and ethically in their professional conduct and successfully engage in life-long 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 and implement software while applying computer science principles and practices to the solution of real problems.

Educational Objectives for the B.S. in Computer Engineering

Graduates will:

- Have completed projects involving design, evaluation of materials, and management of computational and personnel resources to solve problems in multi-disciplinary teams and exhibit the ability to communicate effectively.
- Pursue graduate studies in computer engineering or related disciplines and careers involving VLSI design, real-time systems, communications, and networks or computer systems.
- Act responsibly and ethically in their professional conduct and successfully engage in life-long learning.
- Complete professional work assignments that exhibit a good balance between software and hardware systems, including software development, design of digital systems, microprocessors, embedded systems, real-time systems and digital communication systems.

COMPUTER SCIENCE

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

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
heather.burrow@unt.edu

University Core

COMMUNICATION

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

AMERICAN HISTORY

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

GOVERNMENT/POLITICAL SCIENCE

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

If you are transferring credit for either PSCI course, check with your advisor about the application of courses.

CREATIVE ARTS

- 3 Hours approved course

LANGUAGE PHILOSOPHY & CULTURE

- 3 Hours approved course

SOCIAL & BEHAVIORAL SCIENCE

- 3 Hours approved course

DISCOVERY

- 3 Hours approved course

Major Requirements

Grades of C or better.

TECHNICAL COMMUNICATION

- TECM 2700, Technical Writing (3 Hours)
- 1 advanced TECM course chosen from:
TECM 4100, Writing Grants & Proposals (3 Hours)
TECM 4180, Advanced Technical Writing (3 Hours)
TECM 4190, Technical Editing (3 Hours)
TECM 4200, Research Methods (3 Hours)
TECM 4250, Writing Procedures & Manuals (3 Hours)
TECM 4700, Writing in the Sciences (3 Hours)

MATHEMATICS

- MATH 1710, Calculus I (4 Hours)
- MATH 1720, Calculus II (3 Hours)
- MATH 1780, Probability Models (3 hours)
- MATH 2700, Linear Algebra & Vector Geometry (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)

Major Requirements

Grades of C or better.

SCIENCES (Continued)

- 2 Lab sciences (8 Hours) chosen from:
CHEM 1410, General Chemistry I (3 Hours) & CHEM 1430, General Chemistry I Lab (1 Hour)
CHEM 1415, Chemistry for Engineers (3 Hours) & CHEM 1435, Chemistry for Engineers Lab (1 Hour)
CHEM 1420, General Chemistry II (3 Hours) & CHEM 1440, General Chemistry II Lab (1 Hour)
BIOL 1710, Biology I (3 Hours) & BIOL 1760, Biology Lab (2 Hours)
BIOL 1720, Biology II (3 Hours) & BIOL 1760, Biology Lab (2 Hours)

ELECTRICAL ENGINEERING

- EENG 2710, Digital Logic Design (3 Hours)

COMPUTER SCIENCE and ENGINEERING

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

COMPUTER SCIENCE and ENGINEERING CORE ELECTIVES

- 1 CSCE Core course (3 Hours) chosen from list options below
- 1 CSCE Core course (3 Hours) chosen from list options below
CSCE 4115, Formal Lang., Automata & Computability (3 Hours)
CSCE 4430, Programming Languages (3 Hours)
CSCE 4600, Introduction to Operating Systems (3 Hours)
CSCE 4610, Computer Architecture (3 Hours)
CSCE 4650, Introduction to Compilation Techniques (3 Hours)

COMPUTER SCIENCE and ENGINEERING BREADTH ELECTIVES

- 1 CSCE Core course (3 Hours) chosen from list options below
- 1 CSCE Core course (3 Hours) chosen from list options below
CSCE 3530, Introduction to Computer Networks (3 Hours)
CSCE 4210, Game Programming I (3 Hours)
CSCE 4230, Introduction to Computer Graphics (3 Hours)
CSCE 4310, Introduction to Artificial Intelligence (3 Hours)
CSCE 4350, Intro. to Database Systems Design (3 Hours)

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

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

Prerequisite Structure BS in Computer Science

Special Problems / Directed Study
See Undergraduate catalog for requirements

CSCSE 4920
Co-op See Undergraduate catalog for requirements

CSCSE 2900
Special Problems Elective credit only

CSCSE 1010
Intro to CS Not for CSCSE major credit

CSCSE 4890 CSCSE 4920

CSCSE 4940 CSCSE 4950

Maximum 6 hours credit in these courses

CSCSE Core
Choose 6 hours from these courses
Pre-req's vary

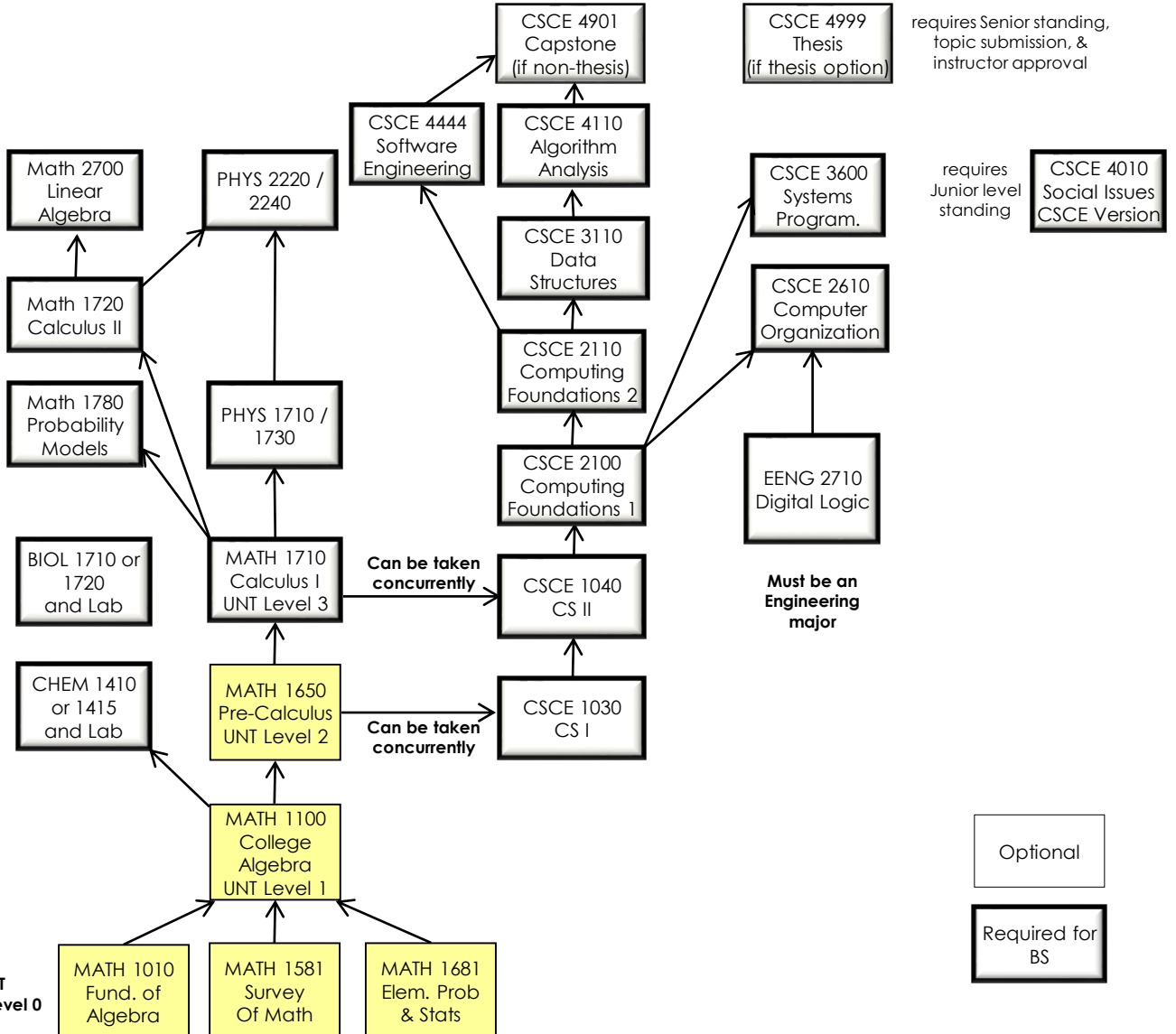
CSCSE 4115 Formal Languages	CSCSE 4430 Programming Languages	CSCSE 4600 Intro. to Operating Sys
CSCSE 4650 Intro Compil. Techniques	CSCSE 4610 Computer Architecture	

CSCSE Electives
Choose 9 hours
Pre-req's vary

Any CSCSE Upper Division (3*** or 4***) Courses not required in another area.

CSCSE Breadth
Choose 6 hours from these courses
Pre-req's vary

CSCSE 3530 Intro to Networks	CSCSE 4210 Game Programming	CSCSE 4230 Computer Graphics
CSCSE 4310 Intro to AI	CSCSE 4350 Database Systems	



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

Suggested 4 Year Schedule BS in Computer Science

Freshman		Sophomore	
Semester	Course	Semester	Course
Fall	CSCE 1030	Fall	Phys 2220/2240
	Communications		CSCE 2100
	LAB. Science		MATH 1780
	Math 1710		ENGR 2720/2730
	PSCI 1050		
Spring	Phys 1710/1730	Spring	CSCE 2110
	TECM 2700		CSCE 2610
	CSCE 1040		Humanities
	PSCI 1040		MATH 2700
	Math 1720		Lab Science
Junior		Senior	
Semester	Course	Semester	Course
Fall	CSCE 3110	Fall	CSCE 4110
	CSCE 3600		CSCE Breadth Course
	HIST 2610		CSCE 4444
	Visual and Perf. Arts		CSCE Adv Elective
	CSCE Core Course		CSCE 4010
Spring	CSCE Core Course	Spring	CSCE 4901 or CSCE 4999
	CSCE Breadth Course		CSCE Adv Elective
	TECM 4xxx		CSCE Adv Elective
	Social and Beh. Science		Discovery Course
	HIST 4700		

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University Core

COMMUNICATON

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

GOVERNMENT/POLITICAL SCIENCE

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

If you are transferring credit for either PSCI course, check with your advisor about the application of courses.

CREATIVE ARTS

- 3 Hours approved course

LANGUAGE, PHILOSOPHY, & CULTURE

- 3 Hours approved course

SOCIAL & BEHAVIORAL SCIENCE

- 3 Hours approved course

DISCOVERY

- 3 Hours approved course

Major Requirements

Grades of C or better.

TECHNICAL COMMUNICATION

- 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 & Vector Geometry (3 Hours)
- MATH 2730, Multivariable Calculus (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)
or
CHEM 1415, Chemistry for Engineers (3 Hours) & CHEM 1435, Chemistry for Engineers Lab (1 Hour)

Major Requirements

Grades of C or better.

ADVANCED MATHEMATICS OR SCIENCE ELECTIVE

- 1 advanced Math or Science elective course (3 Hours) chosen from MATH 3***, MATH 4***, PHYS 3***, CHEM 3***, BIOL 3***, BIOL 4***, GEOG 3***, or GEOG 4***. Check with your advisor for approved options.

ELECTRICAL ENGINEERING

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

COMPUTER SCIENCE and ENGINEERING

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

SPECIALTY AREA

Choose a specialty area & complete 3 courses from the approved options below:

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

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

ELET 3750, CSCE 4440, 4444, 4600, 4610, 4620, 4730, 4890

VLSI & Electronics Specialty Area: (Choose 3 courses)

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

Communications & Networks Specialty Area (Choose 3 courses):

CSCE 3420, 3530, 4510, 4520, 4530, 4550, 4560, 4890

Computer Systems Specialty Area (Choose 3 courses):

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

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

Computer Engineering Specialty Area Electives

Specialization Area: Real-time and Embedded Systems (choose 3 courses)

ELET 3750 – Embedded C Programming
CSCE 4440 – Real-Time Software Development
CSCE 4444 – Software Engineering
CSCE 4600 – Introduction to Operating Systems
CSCE 4610 – Computer Architecture
CSCE 4620 – Real-Time Operating Systems
CSCE 4730 – VLSI Design
CSCE 4890 – Directed Study in a Real-Time / Embedded Topic

Specialization Area: VLSI and Electronics (choose 3 courses)

ELET 3750 – Embedded C Programming
ELET 4340 – Digital Logic Design Techniques
ELET 4300 – Embedded System Organization
PHYS 4500 – Introduction to Solid State Physics
CSCE 4610 – Computer Architecture
CSCE 4730 – VLSI Design
CSCE 4890 – Directed Study in a VLSI / Electronics Topic

Specialization Area: Communications and Networks (choose 3 courses)

CSCE 3420 – Internet Programming
CSCE 3530 – Introduction to Computer Networks
CSCE 4510 – Introduction to Wireless Communication
CSCE 4520 – Wireless Networks and Protocols
CSCE 4530 – Computer Network Design
CSCE 4550 – Introduction to Computer Security
CSCE 4560 – Secure Electronic Commerce
CSCE 4890 – Directed Study in a Communications / Networks Topic

Specialization Area: Computer Systems (choose 3 courses)

CSCE 3030 – Parallel Programming
CSCE 4050 – Cryptography
CSCE 4240 – Introduction to Digital Image Processing
CSCE 4600 – Introduction to Operating Systems
CSCE 4610 – Computer Architecture
CSCE 4620 – Real-Time Operating Systems
CSCE 4650 – Introduction to Compilation Techniques
CSCE 4730 – VLSI Design
CSCE 4890 – Directed Study in a Systems topic

Suggested 4 Year Schedule BS in Computer Engineering

Freshman			Sophomore	
Semester	Course		Semester	Course
Fall	CSCE 1030		Fall	Phys 2220/2240
	Communications			CSCE 2100
	CHEM 1410 or 1415/1430 or 1435			MATH 1780
	Math 1710			ENGR 2720/2730
		PSCI 1050		
Spring	Phys 1710/1730		Spring	CSCE 2110
	TECM 2700			CSCE 2610
	CSCE 1040			Math 2730
	PSCI 1040			MATH 2700
	Math 1720			ENGR 2405/2415
Junior			Senior	
Semester	Course		Semester	Course
Fall	CSCE 3010		Fall	HIST 4700 or 2620
	CSCE 3600			CSCE 4011
	HIST 2610			Track Spec Adv Elective
	CSCE 3730			Discovery Course
	EENG 3510			CSCE 4910
Spring	CSCE 3020		Spring	CSCE 4915
	Track Spec Adv Elective			Adv. Math Science Elective
	Track Spec Adv Elective			Creative Arts
	Social and Beh. Science			Lang, Phil, and Culture
	CSCE 3612			

UNT Core Information

COMMUNICATION (3 Hours)

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

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

AMERICAN HISTORY (6 Hours)

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

AP U.S. History score of 3, 4 or 5

CLEP History of United States I

CLEP History of United States II

fulfills this category

GOVT./POLITICAL SCIENCE (6 Hours)

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

AP U.S. Government & Politics score of 3, 4 or 5

CLEP American Government

fulfills PSCI 1050 or PSCI 1051

CREATIVE ARTS (3 Hours)

ART 1300, Art Appreciation
 ART 1301, Honors Art Appreciation
 ART 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

AP Art History score of 4 or 5

*IB Dance score of 4 or higher**

fulfills this category

LANGUAGE, PHIL. & CULTURE (3 Hours)

AGER 2250, Aging in Film & Lit.
 ANTH 3101 American Culture & Society
 ANTH 3110, North American Indians
 ANTH 3120, Indians Southwest
 ANTH 3140, Latinos in the U.S.
 ANTH 3200, Latin American
 ANTH 3210, Meso America
 ANTH 3220, Mayan Culture
 ANTH 3300, Peoples of the Pacific
 ANTH 3400, Peoples of Africa
 ANTH 3500, Middle Eastern Culture
 ANTH 3700, South Asian Culture
 DFST 2313, Courtship & Marriage

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

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

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

AP World History score of 3, 4 or 5

*IB History score of 4 or higher**

fulfills this category

SOCIAL & BEHAVIORAL SCIENCE (3 Hours)

AGER 4560, Minority Aging
 AGER 4800, Social Context of Aging
 ANTH 1010, Intro. to Anthropology
 ANTH 2300, Culture and Society
 BEHV 2300, Behavior Principles I
 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
 GEOG 1200, Global Societies
 HLTH 2200, Family Life & Human Sexuality
 JOUR 1210, Mass Comm. & Society
 MDSE 2750, Consumers in Global Market
 MDSE 3370, Fashion Theory & Trend Analysis
 MKTG 2650, Princ. of Global Marketing
 PADM 2100, Diversity in Urban Gover.
 PSYC 1630, General Psychology I
 PSYC 1650, General Psychology II
 RHAB 3100, Disability & Society
 SOCI 1510, Individuals in Society
 SOCI 2100, Crime & Justice in the U.S.

AP Macroeconomics score of 3, 4 or 5

AP Microeconomics score of 3, 4 or 5

AP Psychology score of 4 or 5

*IB Economics score of 4 or higher**

*IB Geography score of 4 or higher**

*IB Psychology score of 4 or higher**

CLEP Macroeconomics

CLEP Microeconomics

CLEP Human Growth & Development

CLEP Introductory Psychology

CLEP Introductory Sociology

fulfills this category

DISCOVERY (3 Hours)

AGER 2250, Aging in Film & Literature
 ANTH 1100, World Cultures
 ANTH 1150, World Cultures Through Film
 ANTH 2070, Intro. to Race & Ethnic Studies
 ANTH 2200, Gender Across Cultures
 BCIS 3615, Visual Display of Business Info.
 BIOL 1000, Discover Life Science
 BIOL 1750/1755, Intro. Research Lab I & II
 BMEN 1300, Discover Biomedical Engr.
 BUSI 1340, Managing Business Enterprise
 CHEM 1400, Discover Chemistry
 COMM 1010, Intro. to Communication
 COMM 1440, Honors Classical Argument
 COMM 2040, Public Speaking
 COMM 2140, Rhetoric & Argument
 COUN 2620, Diversity & Cultural Awareness
 DANC 1100, Stress Reduct. Thru Movement
 DFST 2033, Parenting in Diverse Families
 DFST 3423, Family, Schools, Communities
 EENG 1910, Learning to Learn
 ENGL 2500, Literary Analysis & Interpretation
 ENGR 1030, Technological Systems
 FREN 1610, French Influence in North Am.
 FREN 1620, French Language in Canada
 GEOG 1500, Geography of DFW Metroplex
 HMGD 1450, Principles of Nutrition
 HNRS 1100, The Good Society
 HNRS 1500, Intro. to Research
 INST 2100, Intro. to International Studies
 ITAL 1610, Italian Influences in the U.S.
 LANG 1610, World Ling. Landscapes
 LING 2050, Language of Now
 MATH 2000, Discrete Mathematics
 MDSE 2750, Consumers in a Global Market
 MEEN 1000, Discover Mech. & Energy Engr.
 MGMT 3330, Communicating in Business
 MKTG 3010, Professional Selling
 PHED 1000, Health Related Fitness
 PHIL 1800, Philosophy of Self
 PHIL 2400, Religion in American Society
 PHIL 2500, Contemp. Environmental Issues
 PSCI 1010, Politics and Pop Culture
 PSYC 1500, Mythbusting
 RHAB 3000, Microcounseling
 SOCI 2070, Race & Ethnic Relations
 SOWK 4540, Human Diversity
 TECM 1500, New Media for College Career
 WMST 2100, Women & Society

CAPSTONE (3 Hours)

Fulfilled by a required course in your major

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

Computer Science / Computer Engineering 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	
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	CCCC	TCC	NCTC	Notes
BIOL 1710/1730	General Biology I	BIOL 1406	BIOL 1406	BIOL 1406	BIOL 1406	
PHYS 1710/1730	Physics I – Mechanics	PHYS 2425	PHYS 2425	PHYS 2425	PHYS 2425	
PHYS 2220/2240	Physics II – Electricity and Magnetism	PHYS 2426	PHYS 2426	PHYS 2426	PHYS 2426	
CHEM 1410/1430	Gen Chemistry I	CHEM 1411	CHEM 1411	CHEM 1411	CHEM 1411	
BIOL 1720/1740	Gen Biology II	BIOL 1407	BIOL 1407	BIOL 1407	BIOL 1407	
MATH 1710	Calculus I	MATH 2413	MATH 2413	MATH 2413	MATH 2413	
CSCE 2100 or CSCE 2110 if CS2100 complete	Discrete Mathematics / Computing Foundations	MATH 2305	MATH 2305	MATH 2305	MATH 2305	

UNT Course	Title	DCCCD	CCCC	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 CS2100 complete	Programming Fundamentals III / Computing Foundations	COSC 2436	COSC 2436	COSC 2436	COSC 2436	
CSCE 2610	Computer Organization	COSC 2425	COSC 2425	COSC 2425	COSC 2425	