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 beginning Fall 2011
CORE CURRICULUM FOR BS IN COMPUTER SCIENCE

Computer Science

• A Minimum of 122 semester hours required for graduation.
• 45 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** (16 Hours; 4 courses [with labs])

- PHYS 1710-1730 (4 hours) __________________
- PHYS 2220-2240 (4 hours) __________________
- CHEM 1410 or 1415 & lab __________________
- BIOL 1710 / 1730, 1720 / 1740

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

**MATHEMATICS** (13 Hours)

- MATH 1710 – Calculus I (4 hours) __________________
- MATH 1720 – Calculus II (3 hours) __________________
- MATH 1780 – Probability (3 hours) __________________
- MATH 2700 – Linear Algebra (3 hours) __________________

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

**ORAL / ADVANCED WRITTEN COMMUNICATIONS** (3 Hours)

TECM 2700 __________________ (satisfies second English requirement)

Must earn at least a “C” in TECM 2700

CSE Department Required Courses

**COMPUTER SCIENCE** (54 Hours minimum with 32 advanced hours, 12 of which must be at UNT)

**CSCE Required Courses** (27 hours)

- 1030 (4 Hours) __________________
- 1040 (3 Hours) __________________
- 2100 (3 Hours) __________________
- 2110 (3 Hours) __________________
- 2610 (3 Hours) __________________
- 3110 (3 Hours) __________________
- 3600 (3 Hours) __________________
- 4010 (2 Hours) __________________
- 4110 (3 Hours) __________________

**CSCE Core Courses** (9 hours)

Choose 9 hours from CSCE 3650, 4410, 4115, 4430, 4600, 4610, 4999

- (3 Hours) __________________ (advanced)
- (3 Hours) __________________ (advanced)
- (3 Hours) __________________ (advanced)

**CSCE Breadth Courses** (9 hours)

Choose 9 hours from CSCE 3530, 4210, 4230, 4310, 4350, 4444, 4901

- (3 Hours) __________________ (advanced)
- (3 Hours) __________________ (advanced)
- (3 Hours) __________________ (advanced)

**CSCE Elective Courses** (9 hours)

Choose 9 hours* of upper div. CSCE courses (not from above)

- (3 Hours) __________________ (advanced)
- (3 Hours) __________________ (advanced)
- (3 Hours) __________________ (advanced)

*If no AP credit, approved transfer course, or dept. exam (if available) in a second programming language, one elective course must be CSCE 2410, 3410, or other approved course.

**ELECTRICAL ENGINEERING** (3 Hours)

EENG 2710 __________________ Digital Logic

**ADVANCED TECHNICAL WRITING** (3 Hours)

1 of TECM 4180, TECM 4190, or TECM 4250. ______________

**ELECTIVE COURSES** (To reach 122 Hrs with 45 Advanced Hrs.)

Students should seek advanced core courses to satisfy the 45 advanced hours requirement within the 123 hour minimum.

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 or 2620 ______________

HIST 4700 ______________

**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) ______________

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

**NOTE:** The student is required to maintain a 2.75 GPA in all upper division CSCE courses.

**Certificates:**

CSCE 3530, 4550 & 4560 = Committee on Nat’l Security Sys. Cert.

CSCE 4210, 4215, 4220, & 4250 = Game Programming Cert.

2nd & 3rd advanced Tech Writing = Tech Writing Certificate

Check with your advisor concerning elective courses

Max 6 hours of credit in CSCE 4890, 4920, 4940, 4950 or 4980.

In case of conflicting information, the catalog (the Big Green Book) prevails. This guide is for catalog year 2011-12 and does not apply to other catalog years.
<table>
<thead>
<tr>
<th>Course Title</th>
<th>Fall</th>
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<tr>
<td>1010 Introduction to Computer Science Non Majors</td>
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<td>1020 Program Development Non Majors</td>
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<td>1030 Computer Science I</td>
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<td>1035 Information Systems I</td>
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<td>1040 Computer Science II</td>
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<td>2100 Computing Foundations I</td>
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<td>2410 Programming Laboratory</td>
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<td>2610 Computer Organization</td>
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<td>2615 Enterprise Architecture and Design</td>
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<td>3010 Signals &amp; Systems</td>
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<td>3020 Fundamentals of Communication Theory</td>
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<td>3030 Parallel Programming</td>
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<td>3110 Data Structures &amp; Algorithms</td>
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<td>3210 Symbolic Processing</td>
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<td>3410 Advanced Programming</td>
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<td>3520 Data Communications</td>
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<td>3600 Principles of Systems Programming</td>
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<td>3605 IT Systems/Management</td>
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<td>3650 Introduction to Compilation Techniques</td>
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<td>3730 Reconfigurable Logic</td>
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<td>4010 Engineering Ethics (2 hr)</td>
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<td>4210 Game Programming I</td>
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<td>4350 Introduction to Database Systems Design</td>
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<td>4540 TCP/IP Protocols</td>
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<td>4560 Secure E Commerce</td>
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<td>4600 Introduction to Operating Systems</td>
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CORE CURRICULUM FOR BS IN COMPUTER ENGINEERING

Computer Engineering

- A Minimum of 123 semester hours required for graduation.
- 45 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; 3 courses)
- PHYS 1710-1730 (4 hours)
- PHYS 2220-2240 (4 hours)
- CHEM 1410 or 1415 and lab (4 hours)
  Must earn at least a "C" in all courses and a 2.5 GPA

MATHEMATICS (19 Hours)
- MATH 1710 – Calculus I (4 hours)
- MATH 1720 – Calculus II (3 hours)
- MATH 1780 – Probability (3 hours)
- MATH 2700 – Linear Algebra (3 hours)
- MATH 2720 – MultiVar Calc. (3 hours)
  Adv. MATH or SCIENCE ELECTIVE
  Choose a 3000 or 4000 level course from Math, Physics, Chemistry, Biology, Geology, or Geography
  Must earn at least a "C" in all courses and a 2.5 GPA

ORAL/ADVANCED WRITTEN COMMUNICATIONS (3 Hours)
- TECM 2700 (satisfies second English req.)
  Must earn at least a "C" in TECM 2700

CSE Department Required Courses

COMPUTER SCIENCE and ENGINEERING (45 Hours)
- CSE 1030 – CSCI (4 Hours)
- CSE 1040 – CSCI 2 (3 Hours)
- CSE 2100 – Foundations I (3 Hours)
- CSE 2110 – Foundations II (3 Hours)
- CSE 2610 – Comp. Org (3 Hours)
- CSE 3010 – Signals & Sys (3 Hours) or EENG 2620
- CSE 3020 – Comm Theory (3 Hours) or EENG 3810
- CSE 3612 – Embed Systems (3 Hours)
- CSE 3730 – Reconf Logic (3 Hours)
- CSE 4910 – Senior Design 1 (3 Hours)
- CSE 4915 – Senior Design 2 (3 Hours)
- CSE 4101 – Ethics (2 Hours)
- CSE Specialty Elective
- CSE Specialty Elective
- CSE Specialty Elective
  See next page for details

Advanced Technical Elective
Advanced Technical Elective

Tech Electives may be any upper-division courses from the College of Engineering, College of Business, or the departments of Biology, Chemistry, Economics, Mathematics, or Physics. Advisor approval needed.

ELECTRICAL ENGINEERING (9 Hours)
- EENG 2710 – Digital Logic
- EENG 3510 – Electronics
- EENG 2610 – Circuit Analysis

ELECTIVE COURSES (To reach 123 Hrs with 45 Advanced Hrs.)
It is strongly recommended that students take advanced courses in the core areas to satisfy the 45 advanced hours requirement within the 123 hour minimum.

University Core

ENGLISH (3 Hours)
- ENGL 1310, 1311, 1312, or 1313
  Grade of "C" or better is required
  Second English fulfilled by TECM 2700

UNITED STATES HISTORY (6 Hours)
- HIST 2610 or 2620
- HIST 4700
  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)
TAKE UPPER DIVISION (3xxx & 4xxx) COURSES WHERE POSSIBLE

NOTE: The student is required to maintain a 2.75 GPA in all upper division CSE courses.

Taking CSE 3530, CSE 4550, and CSE 4560 earns a certificate from the Committee on National Security Systems

Completing the four-course sequence CSE 4210, 4215, 4220, and 4250 earns a Certificate in Game Programming

Check with your advisor concerning elective 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.
Computer Engineering Specialty Area Electives

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

- ELET 3750: Digital Systems
- CSCE 4620: Real-Time Operating Systems
- CSCE 4730: VLSI Design
- CSCE 4440: Real-Time Software Development
- CSCE 4610: Computer Systems Architecture
- CSCE 4890: Directed Study in a Real-Time / Embedded Topic

Specialization Area: VLSI and Electronics (choose 3 courses)

- CSCE 4730: VLSI Design
- CSCE 4750: VLSI Testing
- CSCE 4610: Computer Systems Architecture
- ELET 3750: Digital Systems
- PHYS 4500: Introduction to Solid State Physics
- CSCE 4890: Directed Study in a VLSI / Electronics Topic

Specialization Area: Communications and Networks (choose 3 courses)

- CSCE 3510: Introduction to Wireless Communication
- CSCE 3530: Introduction to Computer Networks
- CSCE 4520: Wireless Networks and Protocols
- CSCE 4530: Computer Network Design
- CSCE 4560: Secure e-Commerce
- CSCE 4550: Introduction to Computer Security
- CSCE 4890: Directed Study in a Networking Topic

Specialization Area: Computer Systems (choose 3 courses)

- CSCE 3650: Introduction to Compilation Techniques
- CSCE 4610: Computer Systems Architecture
- CSCE 3030: Parallel Programming
- CSCE 4600: Intro to Operating Systems
- CSCE 4620: Real-Time Operating Systems
- CSCE 4890: Directed Study in a Systems Topic
Pre-requisite Structure
BS in Computer Engineering

**Required for BSCE**
- CSCE 1030 CS I
- CSCE 1040 CS II
- CSCE 2100 Foundations I
- EENG 2710 or ENGR 2720 Digital Logic
- MATH 1650 Pre-Calculus UNT Level 2
- MATH 1100 College Algebra UNT Level 1
- MATH 1010 Fundamentals of Algebra
- MATH 1581 Survey of Math
- MATH 1681 Elementary Probability & Statistics

**Optional**
- CSCE 4915 Design II
- CSCE 4920 Co-op
- CSCE 4010 Engr. Ethics CSCE Version
- CSCE 4930
- CSCE 4950
- CSCE 4940
- CSCE 4890

**Elective Credit Only**
- CSCE 1010 Intro to CS
- CSCE 2900 Special Problems
- CSCE 1010 Intro to CS
- CSCE 3010 or EENG 2620 Signals & Systems
- CSCE 3020 or EENG 3810 Comm Theory
- CSCE 3730 Reconfig. Logic
- CSCE 3612 Embedded Systems
- EENG 2610 Fund. Of EE.
- EENG 3510 Electronics I
- EENG 2710 or ENGR 2720 Digital Logic

**Not for CSCE Major Credit**
- MATH 1581 Survey of Math

**See Math Department for Placement Before Registering for Your First Math Course**

**See Undergraduate Catalog for Requirements**

**Junior Standing Required**
- Math 1780 Probability Models
- Math 2700 Linear Algebra
- Math 2730 Calculus III
- Math 1720 Calculus II
- Math 1710 Calculus I UNT Level 3
- Math 1650 Pre-Calculus UNT Level 2
- Math 1100 College Algebra UNT Level 1
- PHYS 2220 2240
- PHYS 1710 1730
- MATH 1410 1430
- MATH 1010 Fundamentals of Algebra
- MATH 1581 Survey of Math
- MATH 1681 Elementary Probability & Statistics

**Maximum 6 Hours Credit in these Courses**
- Special Problems and Topics/Directed Study
- See Undergraduate catalog for requirements

**Advanced Math or Science Elective**
- Math 1780 Probability Models
- Math 2700 Linear Algebra
- Math 2730 Calculus III
- Math 1720 Calculus II
- Math 1710 Calculus I UNT Level 3
- Math 1650 Pre-Calculus UNT Level 2
- Math 1100 College Algebra UNT Level 1
- PHYS 2220 2240
- PHYS 1710 1730
- MATH 1410 1430
- MATH 1010 Fundamentals of Algebra
- MATH 1581 Survey of Math
- MATH 1681 Elementary Probability & Statistics

**Can be Taken Concurrently**
- Math 1780 Probability Models
- Math 2700 Linear Algebra
- Math 2730 Calculus III
- Math 1720 Calculus II
- Math 1710 Calculus I UNT Level 3
- Math 1650 Pre-Calculus UNT Level 2
- Math 1100 College Algebra UNT Level 1
- PHYS 2220 2240
- PHYS 1710 1730
- MATH 1410 1430
- MATH 1010 Fundamentals of Algebra
- MATH 1581 Survey of Math
- MATH 1681 Elementary Probability & Statistics

**And PHYS 2220 (May be taken concurrently)**
- Math 1780 Probability Models
- Math 2700 Linear Algebra
- Math 2730 Calculus III
- Math 1720 Calculus II
- Math 1710 Calculus I UNT Level 3
- Math 1650 Pre-Calculus UNT Level 2
- Math 1100 College Algebra UNT Level 1
- PHYS 2220 2240
- PHYS 1710 1730
- MATH 1410 1430
- MATH 1010 Fundamentals of Algebra
- MATH 1581 Survey of Math
- MATH 1681 Elementary Probability & Statistics

**May be Taken Concurrently**
- Math 1780 Probability Models
- Math 2700 Linear Algebra
- Math 2730 Calculus III
- Math 1720 Calculus II
- Math 1710 Calculus I UNT Level 3
- Math 1650 Pre-Calculus UNT Level 2
- Math 1100 College Algebra UNT Level 1
- PHYS 2220 2240
- PHYS 1710 1730
- MATH 1410 1430
- MATH 1010 Fundamentals of Algebra
- MATH 1581 Survey of Math
- MATH 1681 Elementary Probability & Statistics

**Pre-requisite Structure**
- CSCE 4920 Co-op
- CSCE 2900 Special Problems
- CSCE 1010 Intro to CS

**CMSCE 4010 Engr. Ethics CSCE Version**

See previous page For Specialty descriptions
# 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
- PSCI 1041, Honors Am. Government
- PSCI 1050, American Government
- PSCI 1051, Honors Am. Government

## SOCIAL & BEHAVIORAL SCIENCES (3 Hours)
- AGER 4460, Minor Identity 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
- EAP 4050, Special Pop. in Disasters
- ECON 1100, Microeconomics
- ECON 1110, Macroeconomics
- HLTH 2200, Family Life & Human Sexuality
- JOUR 1210, Mass Comm. & Society
- MKTG 2650, Prin. of Global Marketing
- PADM 2100, Diversity in Urban Gover.
- PSYC 1630, General Psychology I
- PSYC 1650, General Psychology II
- RHA 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 1330, Art History Survey I
- ART 1360, 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 2222, British Literature to 1780
- ENGL 2323, British Literature from 1780
- ENGL 3237, American Literature to 1870
- ENGL 3238, American Literature from 1870
- FREN 3040, Adv. Reading French Culture
- FREN 4070, French Culture & Lit. thru Film
- FREN 4310, Contemp. French Civilization
- MUSE 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 1090, World History to 1500
- HIST 1095, World History from 1500
- HMGT 1450, Principles of Nutrition
- HNRS 1100, The Good Society
- HNRS 1500, Intro. to Research
- INST 1010, Intro. to International Studies
- LING 2050, Pop Culture, Tech. & Society
- MDSE 2730, 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
- RHA 3000, Microcounseling
- SOCI 2070, Race & Ethnic Relations
- SOWK 4540, Human Diversity
- TECM 1500, New Media for College Career
- UCRS 1000, Freshman Seminar
- WMSI 1010, 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 postpone completing a course until the updated curriculum is released.*

Revised April 15, 2011
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

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<tr>
<th>UNT Course</th>
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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

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