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 2009
Bachelor of Arts  
Effective Fall 2008

- 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**

### 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

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

**MATHEMATICS (10 Hours)**

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

- ENGL 2700 – Tech Writing (satisfies 2nd English, satisfies UNT commun.)
- ENGR 2060 – Prof. Presen.

### ORAL / ADVANCED WRITTEN COMMUNICATIONS (6 Hours)
(Satisfies University English II & Communications Requirement)
- ENGL 2700 – Tech Writing
- ENGR 2060 – Prof. Presen.

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

### UNIVERSITY CORE

- **ENGLISH (3 Hours)**
  - ENGL 1310, 1311, 1312, or 1313
  - Second English fulfilled by ENGL 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)
  - (MUET 3020, 3030 PSCI 3810, SOCI 4160 or SMHM 4750 recommended)

- **HUMANITIES (3 Hours)**

- **UNDERSTANDING THE HUMAN COMMUNITY (3 Hours)**
  - (MUET 3020, 3030 PSCI 3810, SOCI 4160 or SMHM 4750 recommended)

**NOTE:**

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

- Taking CSCE 3530, CSCE 4550, and CSCE 4560 will earn the student a certificate from the Committee on National Security Systems.

- 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 2009-10 and does not apply to other catalog years.

### CSE DEPARTMENT REQUIRED COURSES

- **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 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

- **GROUP III. SUPPORTING AREA (18 HRS TO SUPPORT THE CS CONCENTRATION AREA)**
- these courses may NOT be used to fulfill a minor:

- **GROUP IV. ADVANCED COURSES IN CSCE**

**NOTE:** 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.

### HUMANITIES (3 Hours)

- **HUMANITIES (3 Hours)**

- **UNDERSTANDING THE HUMAN COMMUNITY (3 Hours)**
  - (MUET 3020, 3030 PSCI 3810, SOCI 4160 or SMHM 4750 recommended)

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

- **GROUP III. SUPPORTING AREA (18 HRS TO SUPPORT THE CS CONCENTRATION AREA)**
- these courses may NOT be used to fulfill a minor:

- **GROUP IV. ADVANCED COURSES IN CSCE**

**NOTE:** 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.
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.

<table>
<thead>
<tr>
<th>Focus Area</th>
<th>CS Concentration Area Courses (9 Hours)</th>
<th>Supporting Area Courses (18 hours)</th>
</tr>
</thead>
</table>
| **Game Development** | CSCE 4210 Game Programming I  
CSCE 4220 Game Programming II  
CSCE 4890.716 Directed Study in Game Dev | 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)** | CSCE 4310 Intro. to Artificial Intelligence  
CSCE 4560 Secure Electronic Commerce  
CSCE 4890 Directed Study in Business Apps. | ACCT 2010  
ACCT 2030  
FINA 3770  
MKTG 3650  
MGMT 3830  
BLAW 3430 |
| **Information Security** | CSCE 4550 Intro. to Computer Security  
CSCE 4560 Secure Electronic Commerce  
CSCE 4890 Directed Study in Security | 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** | CSCE 4550 Intro. to Computer Security  
CSCE 4560 Secure Electronic Commerce  
CSCE 4890 Directed Study in Security | 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 |
Bachelor of Arts Major in Information Technology
suggested four-year degree plan
Students are encouraged to see their advisor each semester for program decisions and enrollment.

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<th>FRESHMAN YEAR</th>
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<td>CSCE 1030, Computer Science I</td>
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<td>ENGL 1310 or 1313, Composition I</td>
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<td>Humanities</td>
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<tr>
<td>Math 1710, Calculus I</td>
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<tr>
<td>Social and Behavioral Science</td>
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<td><strong>Total Hours</strong></td>
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<td>ENGR 2060, Professional Presentations</td>
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<td>Math 1780, Probability Models</td>
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<tr>
<td>Supporting Area</td>
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<td>CSCE Concentration Area</td>
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<tr>
<td>Supporting Area</td>
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<tr>
<td>Visual and Performing Arts</td>
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<td><strong>Total Hours</strong></td>
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| **Total Hours** | 14 |
### 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

### UNITED STATES 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

### 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
- 2250 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 Ethic 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
- SOCI 1510 Individuals in Society
- 1520 Contemporary Social Problems
- 2100 Crime and Justice in the United States

### UNDERSTANDING THE HUMAN CONDITION
- AGER 4560 Minority Aging
- 4800 The Social Context of Aging
- ANTH 2045 Gender Across Cultures
- 2100 World Cultures Through Film
- 2150 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
- 1080 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
- SOC 1200 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
- SQWK 4540 Human Diversity for the Helping Professions
- THEA 3030 World Theatre to 1700
- 3040 World Theatre after 1700
- WMSR 2100 Woman & Society: Intro to Women's Studies
- 2420 Race, Class, Gender and Ethnicity
- 2620 Biological Principles of Women's Health
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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College of Engineering Core

Grades of 'D' are not accepted

3 sciences from choices below plus the two math courses

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<th>UNT Course</th>
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Departmental Requirements

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