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 2016-17

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

University of North Texas
Educational Objectives

Educational Objectives for the B.A. in Information Technology

Graduates will:

• Pursue graduate studies in information technology, computer science or related disciplines, and/or a career in a technology field utilizing skills from the information technology areas studied during the undergraduate program.

• Act responsibly and ethically in their professional conduct and successfully engage in lifelong 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, manage, maintain and implement information systems while applying IT and computing principles and practices to the solution of real problems.
INFORMATION TECHNOLOGY
Bachelor of Arts (B.A.) degree with a major in Information Technology

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: Nancy Van Hoy
nancy.vanhoy@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.

COMPUTER SCIENCE and ENGINEERING
☐ CSCE 1030, Computer Science I (4 Hours)
☐ CSCE 1040, Computer Science II (4 Hours)
☐ CSCE 2100, Computing Foundations I (3 Hours)
☐ CSCE 2110, Computing Foundations II (3 Hours)
☐ CSCE 3055, IT Project Management (3 Hours)
☐ CSCE 3220, Human Computer Interfaces (3 Hours)
☐ CSCE 3420, Internet Programming (3 Hours)
☐ CSCE 3530, Introduction to Computer Networks (3 Hours)
☐ CSCE 3600, Principles of Systems Programming (3 Hours)
☐ CSCE 3615, Enterprise Systems Arch., Analysis & Design (3 Hours)
☐ CSCE 4010, Social Issues in Computing (3 Hours)
☐ CSCE 4350, Introduction to Database Systems Design (3 Hours)
☐ CSCE 4550, Introduction to Computer Security (3 Hours)
☐ CSCE 4906, Information Technology Capstone I (3 Hours)
☐ CSCE 4926, Information Technology Capstone II (3 Hours)

ADMIN CONCENTRATION AREA
☐ CSCE 3535, Network Administration (3 Hours)
☐ CSCE 3605, Systems Administration (3 Hours)
☐ CSCE 4355, Database Administration (3 Hours)

SUPPORTING AREA
☐ Course approved by an advisor (3 Hours)
☐ Course approved by an advisor (3 Hours)
☐ Course approved by an advisor (3 Hours)
☐ Course approved by an advisor (3 Hours)
☐ Course approved by an advisor (3 Hours)
☐ Course approved by an advisor (3 Hours)

You must choose a supporting area (21 Hours) & complete approved courses. Check with your advisor concerning approved classes. Suggestions include, but are not limited to:

Security
Networking
Information Systems
Software/Web Development
Game Development
Criminology/Forensics
Technical Communications
Microsoft/Oracle/Cisco Cert.
Graphic/Communications Design
Geographic Information Systems (GIS)

Completion of CSCE 2610, 3330, 4550, & 4560 for Supporting Area and a Security Certificate from the Committee on National Security Systems.

Supporting Area

A maximum of 6 hours may be taken for the Supporting Area from CSCE 4890, 4920, 4940, or 4950.

This is an unofficial simplified checklist effective Fall 2016. Degree requirements may change. You may need elective courses to help reach a minimum of 121 Total Hours & 42 Advanced Hours. Check with your advisor.
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

<table>
<thead>
<tr>
<th>CS Concentration Area Courses (9 Hours)</th>
<th>Suggested Supporting Area Courses</th>
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<tbody>
<tr>
<td>CSCE 4210 Game Programming I</td>
<td>Math 2700 Linear Algebra</td>
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<tr>
<td>CSCE 4220 Game Programming II</td>
<td>CSCE 4230 Intro. to Computer Graphics</td>
</tr>
<tr>
<td>CSCE 4215 Programming Math &amp; Physics for Games</td>
<td>CSCE 4310 Intro to Artificial Intelligence</td>
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<td>CSCE 4890.716 Directed Study in Game Dev</td>
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<td></td>
<td>CSCE 4250 Topics in Game Development</td>
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<td></td>
<td>Advanced Digital Art / Modeling Courses</td>
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### Business (Pre-MBA)

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<th>Suggested Supporting Area Courses</th>
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<tbody>
<tr>
<td>CSCE 4310 Intro. To Artificial Intelligence</td>
<td>ACCT 2010</td>
</tr>
<tr>
<td>CSCE 4560 Secure Electronic Commerce</td>
<td>ACCT 2020</td>
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<tr>
<td>CSCE 4520 Wireless Networks and Protocols</td>
<td>FINA 3770</td>
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<td></td>
<td>MKTG 3650</td>
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<td>MGMT 3820</td>
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<td></td>
<td>BLAW 3430</td>
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<td>Any 3000-4000 level College of Business course</td>
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### Security & Networking

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<th>Suggested Supporting Area Courses</th>
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<tr>
<td>CSCE 3110 Data Structures</td>
<td>CSCE 4520 Wireless Networks and Protocols</td>
</tr>
<tr>
<td>CSCE 4560 Secure Electronic Commerce</td>
<td>CSCE 4050 Applications of Cryptography</td>
</tr>
<tr>
<td>CSCE 4050 Cryptography</td>
<td>CSCE 3510 Introduction to Wireless Comm.</td>
</tr>
<tr>
<td></td>
<td>Advanced BCIS Security or e-Commerce</td>
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<tr>
<td></td>
<td>CSCE 4890 Directed Study in Security</td>
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<tr>
<td></td>
<td>Advanced BCIS Security or e-Commerce</td>
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<td>Advanced CJUS Course</td>
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### Pre-Law

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<th>Suggested Supporting Area Courses</th>
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<tr>
<td>CSCE 3110 Data Structures</td>
<td>Choose 21 hours from the following courses depending on legal focus area</td>
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<tr>
<td>CSCE 4560 Secure Electronic Commerce</td>
<td>Political Sci. 3200, 3210, 4200, 4210, 4220, 4810</td>
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<tr>
<td>CSCE 4890 Directed Study / Topics in Security</td>
<td>Criminal Justice 3201, 4250, 2100, 3210, 3700</td>
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<tr>
<td>Recommended: Digital Forensics</td>
<td>Business Law 2000, 3430, 4200, 4430, 4450, 4480, 4600, 4770</td>
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### Teaching Certification

<table>
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<th>CS Concentration Area Courses (9 Hours)</th>
<th>Suggested Supporting Area Courses</th>
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<tbody>
<tr>
<td>Course suggestions based on teaching area: Theory: CSCE 3110, 4110, 4115</td>
<td>TNTX 1100, TNTX 1200, PHIL 2600, EDSE 3500, EDSE 4000, EDSE 4500, EDSE 4608, EDSE 4618, EDSE 4628</td>
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<tr>
<td>Security: CSCE 4050, 4240, 4560</td>
<td>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.</td>
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<tr>
<td>Biocomputing: CSCE 3850, 4810, 4820</td>
<td>All state certification requirements and information on required examinations is available on the web site of the State Board for Educator Certification (SBEC). <a href="http://www.tea.state.tx.us">www.tea.state.tx.us</a>.</td>
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<tr>
<td>Systems: CSCE 4115, 4600, 4650</td>
<td>Etc...</td>
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# Suggested 4 Year Schedule
## BA in Information Technology

<table>
<thead>
<tr>
<th>Semester</th>
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<td>CSCE 1030</td>
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<td>Communications</td>
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<td>CSCE 2100</td>
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<tr>
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<td>LAB. Science</td>
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<td>Visual and Perf. Arts</td>
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<td>Math 1710</td>
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<td>Supporting Area Course</td>
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<td>PSCI 1050</td>
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<td><strong>Spring</strong></td>
<td>Phys 1710/1730</td>
<td><strong>Spring</strong></td>
<td>CSCE 2110</td>
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<td>TECM 2700</td>
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<td>HIST 2610</td>
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<tr>
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<td>CSCE 1040</td>
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<td>Humanities</td>
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<td>Math 1680</td>
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<td>Social Behav. Science</td>
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<td><strong>Junior</strong></td>
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<td>CSCE 3420</td>
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<td>CSCE Concentration Area</td>
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<td>CSCE Concentration Area</td>
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<td>CSCE 4550</td>
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<tr>
<td><strong>Fall</strong></td>
<td>CSCE 3530</td>
<td><strong>Fall</strong></td>
<td>CSCE 4010</td>
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<td>Supporting Area Course</td>
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## 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)
- 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 Language & 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
- CBUS 2100, Crime and Justice in the U.S.
- COMM 2020, Interpersonal Comm.
- DNST 1013, Human Development
- EAPD 4050, Special Pop. in Disasters
- ECON 1100, Microeconomics
- ECON 1110, Macroeconomics
- GEOG 1200, Global Societies
- HIST 2200, Family Life & Human Sexuality
- JOUR 1210, Mass Comm. & Society
- PSYC 1500, Mythbusting
- PSYC 1500, Mythbusting
- PSCI 1010, Politics and Pop Culture
- PHIL 2400, Religion in American Society
- PHIL 2500, Contemp. Environmental Issues
- PSCI 1010, Politics and Pop Culture
- PSCI 1010, Politics and Pop Culture
- PSCI 1100, The Good Society
- PSCI 3000, Microcounseling
- SOWK 2070, Race & Ethnic Relations
- SOWK 4540, Human Diversity
- SOWK 4540, Human Diversity
- TECM 1500, New Media for College Career
- WMST 2100, Women & Society

### 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
- HMGT 1450, Principles of Nutrition
- HNRS 1100, The Good Society
- HNRS 1500, Intro. to Research
- INST 2100, Intro. to International Studies
- ITAL1610, Italian Influences in the U.S.
- 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
- SOWK 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.
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.

<table>
<thead>
<tr>
<th>UNT Course</th>
<th>Title</th>
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<th>Collin</th>
<th>TCC</th>
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<td>ENGL 1310</td>
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<td>Language, Philosophy &amp; Culture</td>
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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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<th>UNT Course</th>
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<td>PHYS 1710/1730</td>
<td>Physics I – Mechanics</td>
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<td>MATH 1680</td>
<td>Elem. Prob &amp; Statistics</td>
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<td>MATH 1342</td>
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### Departmental Requirements

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<td>Programming Fundamentals I</td>
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<tr>
<td>CSCE 2100 or CSCE 2110 if CSCE 2100 complete</td>
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<td>COSC 2436</td>
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<td>CSCE 2100 or CSCE 2110 if CSCE 2100 complete</td>
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