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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1710-1730</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>BIOL 1720-1740</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>CHEM 1410-1430 or 1415-1435</td>
<td>4</td>
<td></td>
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<tr>
<td>PHYS 1710-1730</td>
<td>4</td>
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<tr>
<td>PHYS 2220-2240</td>
<td>4</td>
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</tr>
</tbody>
</table>

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

**MATHEMATICS** (10 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 1710 - Calculus I</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Math 1780 - Probability Models</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Math 2770 - Discrete Math</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

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

**ORAL / ADVANCED WRITTEN COMMUNICATIONS** (6 Hours)

(Satisfies University English II & Communications Requirement)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2700 - Tech Writing</td>
<td>3</td>
<td>(satisfies 2nd English)</td>
</tr>
<tr>
<td>ENGR 2060 - Prof. Presen.</td>
<td>3</td>
<td>(satisfies UNT commun.)</td>
</tr>
</tbody>
</table>

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

**CSE Department Required Courses**

**GROUP I. CSE REQUIRED COURSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 1030 - Computer Science I</td>
<td>4</td>
<td>(advanced)</td>
</tr>
<tr>
<td>CSCE 1035 - Information Systems I</td>
<td>3</td>
<td>(advanced)</td>
</tr>
<tr>
<td>CSCE 1045 - Information System II</td>
<td>3</td>
<td>(advanced)</td>
</tr>
<tr>
<td>CSCE 1040 - Computer Science II</td>
<td>3</td>
<td>(advanced)</td>
</tr>
<tr>
<td>CSCE 2050 - Computer Science III</td>
<td>3</td>
<td>(advanced)</td>
</tr>
<tr>
<td>CSCE 2615 - Ent. Architecture/Design</td>
<td>3</td>
<td>(advanced)</td>
</tr>
<tr>
<td>CSCE 3055 - IT Project Mgmt</td>
<td>3</td>
<td>(advanced)</td>
</tr>
<tr>
<td>CSCE 4355 - Database/Info. Int.</td>
<td>3</td>
<td>(advanced)</td>
</tr>
<tr>
<td>CSCE 3535 - Network/Sec. Mgmt</td>
<td>3</td>
<td>(advanced)</td>
</tr>
<tr>
<td>CSCE 3605 - IT Systems / Admin.</td>
<td>3</td>
<td>(advanced)</td>
</tr>
<tr>
<td>CSCE 4905 - Capstone I</td>
<td>3</td>
<td>(advanced)</td>
</tr>
<tr>
<td>CSCE 4925 - Capstone II</td>
<td>3</td>
<td>(advanced)</td>
</tr>
<tr>
<td>CSCE 4010 - Engineering Ethics</td>
<td>2</td>
<td>(advanced)</td>
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**GROUP II. CS CONCENTRATION AREA (9 HOURS)**

(3 Hrs.) ______________________ (advanced)
(3 Hrs.) ______________________ (advanced)
(3 Hrs.) ______________________ (advanced)

**SUPPORTING AREA** (18 hrs to support the CS Concentration Area)

- these courses may NOT be used to fulfill a minor -

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Requirement</th>
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</thead>
<tbody>
<tr>
<td>(3 Hrs.)</td>
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<tr>
<td>(3 Hrs.)</td>
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<td></td>
</tr>
<tr>
<td>(3 Hrs.)</td>
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<td></td>
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<tr>
<td>(3 Hrs.)</td>
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</tr>
</tbody>
</table>

Advanced courses in the supporting track will assist in reaching the 42 advanced hours required for the degree.

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

<table>
<thead>
<tr>
<th>Game Development</th>
<th>Supporting Area Courses (18 hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Concentration Area Courses (9 Hours)</strong></td>
<td><strong>Supporting Area Courses (18 hours)</strong></td>
</tr>
<tr>
<td>CSCE 4210 Game Programming I</td>
<td>Math 2700 Linear Algebra</td>
</tr>
<tr>
<td>CSCE 4220 Game Programming II</td>
<td>CSCE 4230 Intro. to Computer Graphics</td>
</tr>
<tr>
<td>CSCE 4890.716 Directed Study in Game Dev</td>
<td>CSCE 4310 Intro to Artificial Intelligence</td>
</tr>
<tr>
<td></td>
<td>CSCE 4890.716 2nd Directed Study in Game Dev</td>
</tr>
<tr>
<td></td>
<td>Advanced Elective</td>
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<tr>
<td></td>
<td>Advanced Elective</td>
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<table>
<thead>
<tr>
<th>Business (Pre-MBA)</th>
<th>Supporting Area Courses (18 hours)</th>
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</thead>
<tbody>
<tr>
<td><strong>Concentration Area Courses (9 Hours)</strong></td>
<td><strong>Supporting Area Courses (18 hours)</strong></td>
</tr>
<tr>
<td>CSCE 4310 Intro. To Artificial Intelligence</td>
<td>ACCT 2010</td>
</tr>
<tr>
<td>CSCE 4560 Secure Electronic Commerce</td>
<td>ACCT 2030</td>
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<tr>
<td>CSCE 4890 Directed Study in Business Apps.</td>
<td>FINA 3770</td>
</tr>
<tr>
<td></td>
<td>MKTG 3650</td>
</tr>
<tr>
<td></td>
<td>MKGT 3830</td>
</tr>
<tr>
<td></td>
<td>BLAW 3430</td>
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<table>
<thead>
<tr>
<th>Information Security</th>
<th>Supporting Area Courses (18 hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Concentration Area Courses (9 Hours)</strong></td>
<td><strong>Supporting Area Courses (18 hours)</strong></td>
</tr>
<tr>
<td>CSCE 4550 Intro. to Computer Security</td>
<td>CSCE 3530 Intro. to Computer Networks</td>
</tr>
<tr>
<td>CSCE 4560 Secure Electronic Commerce</td>
<td>Advanced BCIS Security Course</td>
</tr>
<tr>
<td>CSCE 4890 Directed Study in Security</td>
<td>Advanced BCIS Security e-Commerce</td>
</tr>
<tr>
<td></td>
<td>CSCE 4890 Directed Study in Security</td>
</tr>
<tr>
<td></td>
<td>Advanced CJUS Course</td>
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<tr>
<td></td>
<td>Advanced CJUS Course</td>
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<table>
<thead>
<tr>
<th>Pre-Law</th>
<th>Supporting Area Courses (18 hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Concentration Area Courses (9 Hours)</strong></td>
<td><strong>Supporting Area Courses (18 hours)</strong></td>
</tr>
<tr>
<td>CSCE 4550 Intro. to Computer Security</td>
<td>Choose 18 hours from the following courses depending on legal focus area</td>
</tr>
<tr>
<td>CSCE 4560 Secure Electronic Commerce</td>
<td>Political Sci. 3200, 3210, 4200, 4210, 4220, 4810</td>
</tr>
<tr>
<td>CSCE 4890 Directed Study in Security</td>
<td>Criminal Justice 3201, 4250, 2100, 3210, 3700</td>
</tr>
<tr>
<td></td>
<td>Business Law 2000, 3430, 4200, 4430, 4450, 4480, 4600, 4770</td>
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</tbody>
</table>
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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<tr>
<th>FRESHMAN YEAR</th>
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<tbody>
<tr>
<td><strong>FALL</strong></td>
</tr>
<tr>
<td>CSCE 1030, Computer Science I</td>
</tr>
<tr>
<td>ENGL 1310 or 1313, Composition I</td>
</tr>
<tr>
<td>Humanities</td>
</tr>
<tr>
<td>Math 1710, Calculus I</td>
</tr>
<tr>
<td>Social and Behavioral Science</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>SOPHOMORE YEAR</th>
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</thead>
<tbody>
<tr>
<td><strong>FALL</strong></td>
</tr>
<tr>
<td>CSCE 2050, Computer Science III</td>
</tr>
<tr>
<td>MATH 2770, Discrete Mathematical Structures</td>
</tr>
<tr>
<td>CSCE 1045, Information Systems II</td>
</tr>
<tr>
<td>Laboratory Science</td>
</tr>
<tr>
<td>ENGR 2060, Professional Presentations</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL</strong></td>
</tr>
<tr>
<td>CSCE 3055, ITProject Mgmt</td>
</tr>
<tr>
<td>CSCE 4355, Database/Info. Int.</td>
</tr>
<tr>
<td>Math 1780, Probability Models</td>
</tr>
<tr>
<td>Understanding the Human Community</td>
</tr>
<tr>
<td>Supporting Area</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SENIOR YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL</strong></td>
</tr>
<tr>
<td>CSCE 3605, ITSystems / Mgmt</td>
</tr>
<tr>
<td>CSCE 4905, Capstone I</td>
</tr>
<tr>
<td>CSCE Concentration Area</td>
</tr>
<tr>
<td>Supporting Area</td>
</tr>
<tr>
<td>Visual and Performing Arts</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
</tr>
</tbody>
</table>

| **Total Hours** | **14** |
### Accepted Course Offering for University of North Texas Core Requirements

<table>
<thead>
<tr>
<th>ENGLISH</th>
<th>UNDERSTANDING THE HUMAN CONDITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1310 College Writing I</td>
<td>AGER 4560 Minority Aging</td>
</tr>
<tr>
<td>1313 Computer Assisted College Writing I</td>
<td>4800 The Social Context of Aging</td>
</tr>
<tr>
<td>1311 Honors Composition I</td>
<td>ANTH 2045 Gender Across Cultures</td>
</tr>
<tr>
<td>1312 Gram. &amp; Comp. For International Students</td>
<td>2100 World Cultures Through Film</td>
</tr>
<tr>
<td>1315 Computer Assisted Writing About Lit. I</td>
<td>2150 World Cultures</td>
</tr>
<tr>
<td>2360 Art History Survey II</td>
<td>2350 Cultural Diversity in the U. S.</td>
</tr>
<tr>
<td>DANC 1200 Appreciation of Dance</td>
<td>PHIL 4050 Contemporary Ethnic Groups</td>
</tr>
<tr>
<td>MUMH 1600 Music in Human Imagination</td>
<td>ART 2350 Art History Survey I</td>
</tr>
<tr>
<td>2040 Music Appreciation</td>
<td>BIOL 1024 Biological Principles of Women's Health</td>
</tr>
<tr>
<td>3000 Nineteenth-Century Music</td>
<td>BUSI 1340 The Free Enterprise System</td>
</tr>
<tr>
<td>3010 Twentieth-Century Music</td>
<td>CJ US 2600 Diversity Issues in Criminal Justice</td>
</tr>
<tr>
<td>THEA 1340 Aesthetics of the Theatre</td>
<td>COMM 1010 Introduction to Communication</td>
</tr>
<tr>
<td>1375 The Actor and the Text</td>
<td>1440 Honors Classical Argument</td>
</tr>
<tr>
<td>2340 Theater Appreciation</td>
<td>2020 Interpersonal Communication</td>
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<tr>
<td></td>
<td>2040 Public Speaking</td>
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<tr>
<td></td>
<td>2060 Performance of Literature</td>
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<tr>
<td></td>
<td>4250 Performance and Culture</td>
</tr>
<tr>
<td></td>
<td>DANC 1100 Stress Reduction through Movement</td>
</tr>
<tr>
<td></td>
<td>2800 Survey of Dance</td>
</tr>
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<td></td>
<td>DFST 2033 Parenting in Diverse Families</td>
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<td></td>
<td>EDEE 2000 Exploring Diversity through Social Action</td>
</tr>
<tr>
<td></td>
<td>EDSP 2500 Human Exceptionality</td>
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<tr>
<td></td>
<td>ENGL 3450 Short Story</td>
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<tr>
<td></td>
<td>3920 Survey of Ethnic Literature</td>
</tr>
<tr>
<td></td>
<td>4300 Modern Drama</td>
</tr>
<tr>
<td></td>
<td>GEOG 1200 World Regional Geography</td>
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<tr>
<td></td>
<td>3100 Geography in the U.S. and Canada</td>
</tr>
<tr>
<td></td>
<td>3750 Geography of Contemp. Africa</td>
</tr>
<tr>
<td></td>
<td>HIST 1050 World Civilization to the 16th Century</td>
</tr>
<tr>
<td></td>
<td>1075 Honors World Civ. To the 16th Century</td>
</tr>
<tr>
<td></td>
<td>1060 World Civilization from the 16th Century</td>
</tr>
<tr>
<td></td>
<td>1085 Honors World Civ. From the 16th Century</td>
</tr>
<tr>
<td></td>
<td>HLTH 1100 School &amp; Community Health Services</td>
</tr>
<tr>
<td></td>
<td>2200 Family Life and Human Sexuality</td>
</tr>
<tr>
<td></td>
<td>JOUR 1210 Mass Communications and Society</td>
</tr>
<tr>
<td></td>
<td>4250 Race, Gender, and the Media</td>
</tr>
<tr>
<td></td>
<td>KINE 2000 History and Philosophy of Sport</td>
</tr>
<tr>
<td></td>
<td>2050 Sociology of Sport (same as SOC 2050)</td>
</tr>
<tr>
<td></td>
<td>MKTG 2650 Global Marketing Concepts</td>
</tr>
<tr>
<td></td>
<td>3010 Professional Selling</td>
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<tr>
<td></td>
<td>MUAG 1500 Occupational Health: Lessons from Music</td>
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<td>MUET 3020 Popular Music in American Culture</td>
</tr>
<tr>
<td></td>
<td>3030 Music Cultures of the World</td>
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<td></td>
<td>PADM 2100 Diversity in Urban Governance</td>
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<td></td>
<td>PHED 1000 Health Related Fitness</td>
</tr>
<tr>
<td></td>
<td>PHIL 2070 Introduction to Great Religions</td>
</tr>
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<td></td>
<td>2400 Religion &amp; American Society</td>
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<td></td>
<td>PSCI 3500 Introduction to Peace Studies</td>
</tr>
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<td></td>
<td>3810 International Relations</td>
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<td>4520 International Human Rights</td>
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<td></td>
<td>4660 Democracy and Democratization</td>
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<tr>
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<td>4710 Middle East Politics</td>
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<tr>
<td></td>
<td>4720 Ethnicity in World Politics</td>
</tr>
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<td></td>
<td>4850 Critical Issues in World Politics</td>
</tr>
<tr>
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<td>2060 Performance of Literature</td>
</tr>
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<td>2040 Public Speaking</td>
</tr>
<tr>
<td></td>
<td>2020 Interpersonal Communication</td>
</tr>
<tr>
<td></td>
<td>2010 Race, Class, Gender, Ethnicity</td>
</tr>
<tr>
<td></td>
<td>2050 Sociology of Sport (same as KINE 2050)</td>
</tr>
<tr>
<td></td>
<td>4750 Managing a Diverse Workforce</td>
</tr>
<tr>
<td></td>
<td>3450 Presentation Techniques</td>
</tr>
<tr>
<td></td>
<td>4750 Managing a Diverse Workforce</td>
</tr>
<tr>
<td></td>
<td>WMST 2100 Woman &amp; Society: Intro to Women's Studies</td>
</tr>
<tr>
<td></td>
<td>2420 Race, Class, Gender and Ethnicity</td>
</tr>
<tr>
<td></td>
<td>2620 Biological Principles of Women's Health</td>
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</tbody>
</table>
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**

<table>
<thead>
<tr>
<th>UNT Course</th>
<th>Title</th>
<th>DCCCD</th>
<th>CCC</th>
<th>TCC</th>
<th>NCTC</th>
<th>Notes</th>
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<tbody>
<tr>
<td>ENGL 1310</td>
<td>Composition I</td>
<td>ENGL 1301</td>
<td>ENGL 1301</td>
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<td>ENGL 2700</td>
<td>Technical Writing</td>
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<td>ENGR 2060</td>
<td>Professional Presentations</td>
<td>SPCH 1321</td>
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<td>HIST 2610</td>
<td>US History I</td>
<td>HIST 1301</td>
<td>HIST 1301</td>
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<td>HIST 2620</td>
<td>US History II</td>
<td>HIST 1302</td>
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<td>PSCI 1040</td>
<td>State and Local Govt.</td>
<td>GOVT 2301</td>
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<td>PSCI 1050</td>
<td>US Govt.</td>
<td>GOVT 2302</td>
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<tr>
<td>Social &amp; Behavioral Science</td>
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<td>From approved list</td>
<td>From approved list</td>
<td>From approved list</td>
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<tr>
<td>Visual/Performing Arts</td>
<td>From approved list</td>
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<td>From approved list</td>
<td>From approved list</td>
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<tr>
<td>Humanities</td>
<td>From approved list</td>
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<tr>
<td>Understanding the Human Condition</td>
<td>From approved list</td>
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<td>From approved list</td>
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College of Engineering Core

Grades of ‘D’ are not accepted

3 sciences from choices below plus the two math courses

<table>
<thead>
<tr>
<th>UNT Course</th>
<th>Title</th>
<th>DCCCD</th>
<th>CCCC</th>
<th>TCC</th>
<th>NCTC</th>
<th>Notes</th>
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<tbody>
<tr>
<td>BIOL 1710/1730</td>
<td>General Biology I</td>
<td>BIOL 1406</td>
<td>BIOL 1406</td>
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Departmental Requirements

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