

Major in Computer Science

*Following is **one** suggested four-year degree plan. Students are encouraged to see their adviser each semester for help with program decisions and enrollment.*

BS with a Major in Computer Science

FRESHMAN YEAR

FALL	HOURS
CSCI 1110, Program Development*	4
ENGL 1310, College Writing I	3
MATH 1710, Calculus I ⁴	4
PSCI 1040, American Government	3
Oral Communication ²	<u>3</u>
Total	17

SOPHOMORE YEAR

FALL	HOURS
CSCI 2010, Assembly Language Programming	3
ELET 2720, Digital Logic**	4
ENGL 2220, World Literature II	3
HIST 2610, United States History to 1865 ¹²	3
MATH 1720, Calculus II	3
CSCI Option	<u>3</u>
Total	19

JUNIOR YEAR

FALL	HOURS
CSCI 3600, Principles of Systems	3
CSCI 4600, Social Implications of Computer Science	1
MATH 2700, Linear Algebra or MATH 3350, Numerical Analysis or MATH 3410, Differential Equations	3
PHYS 1710-1730, General Technical Physics	4
CSCI Option ¹³	3
Wellness ¹¹	<u>2-3</u>
Total	16-17

SENIOR YEAR

FALL	HOURS
CSCI 4450, Analysis of Algorithms	3
ENGL 4180, Advanced Technical Writing, or ENGL 4190, Technical Editing, or ENGL 4250, Writing Technical Procedures ³¹	3
CSCI Option (advanced) ¹³	3
Elective (advanced) ¹⁶	3
Natural/Life Science ⁹	<u>4</u>
Total	16

FRESHMAN YEAR

SPRING	HOURS
CSCI 1120, Structured Programming	4
ENGL 2210, World Literature I ⁶	3
MATH 2770, Discrete Structures	3
PSCI 1050, American Government	3
Visual and Performing Arts ⁷	<u>3</u>
Total	16

SOPHOMORE YEAR

SPRING	HOURS
CSCI 3100, Computer Organization ^{30 ***}	3
CSCI 3400, Data Structures***	3
ECON 1110, Principles of Macroeconomics	3
ENGL 2700, Technical Writing	3
HIST 2620, United States History Since 1865 ¹²	3
MATH 1780, Introduction to Statistical Analysis	<u>3</u>
Total	18

JUNIOR YEAR

SPRING	HOURS
CSCI Option (advanced) ¹³	3
CSCI Option (advanced) ¹³	3
ENGL 4180, Advanced Technical Writing or ENGL 4190, Technical Editing, or ENGL 4250, Writing Technical Procedures ³¹	3
PHYS 2220-2240, General Technical Physics	4
Understanding of Ideas and Values ⁸	<u>3</u>
Total	16

SENIOR YEAR

SPRING	HOURS
CSCI Option (advanced) ¹³	3
CSCI Option (advanced) ¹³	3
Elective (advanced) ¹⁶	3
Laboratory Science ⁹	4
Understanding of Ideas and Values ⁸	<u>3</u>
Total	16

*Actual degree plans may vary depending on availability of courses in a given semester.
Some courses may require prerequisites not listed.*

* Taught using C++. If a student transfers with CSCI 1110 (Pascal only) equivalent, the department will credit that course as CSCI 2320 and recommend that CSCI 1110 be taken.

** ELET 2720, Digital Logic, is a prerequisite for CSCI 3100.

*** CSCI 1110, 1120, and 2010 and ELET 2720 are prerequisites for CSCI 3100. MATH 2770 is a prerequisite for CSCI 3400.

See Arts and Sciences notes in supplement booklet for footnotes.

Summary of Degree Requirements:

Computer Science (27 advanced):	45
Core:	
Oral Communication	3
English	12
History	6
Political Science	6
Visual and Performing Arts	3
Wellness	2-3
Economics	3
Mathematics	4
Laboratory Science	16
Understanding of Ideas and Values	6
Digital Logic:	4
Mathematics:	12
English or Foreign Language:	6
CSCI:	
Program Development	4
Structured Programming	4
Assembly Language Programming	3
Computer Organization	3
Social Implications of Computer Science	1
Data Structures	3
Principles of Systems	3
Analysis of Algorithms	3
Social Implications of Computing	1
Computer Science Option	6
Computer Science (advanced)	15

Note:

- 12 hours of computer science must be taken at UNT.
- 43 hours must be advanced; 24 of the 43 hours must be taken at UNT.
- 24 of the last 30 hours must be completed at UNT.

Supplemental Information for a BS with a Major in Computer Science

1. Major area: Minimum of 43 semester hours, including CSCI 1110, 1120, 2010, 3100, 3400, 3600, 4450 and 4600. At least 28 hours must be in advanced courses, 12 of which must be taken at UNT. A maximum of 6 hours of credit in CSCI 4880, 4890, 4900 or 4910 will count toward this degree.
2. GPA: A grade point average of at least 2.75 is required for all advanced computer science courses.
3. Other required courses:
 - a. MATH 1710, Calculus I; MATH 1720, Calculus II; MATH 1780, Introduction to Statistical Analysis; and MATH 2270, Discrete Mathematics; plus 3 semester hours selected from MATH 2700, Linear Algebra and Vector Geometry; MATH 3350, Introduction to Numerical Analysis; or MATH 3410, Differential Equations I.
 - b. ELET 2720, Digital Logic.
 - c. The two semester sequence PHYS 1710/1730, General Technical Physics; PHYS 2220/2240, Electricity and Magnetism; plus one additional course from list of approved Arts and Sciences laboratory science courses.
 - d. ENGL 2700, Technical Writing.
 - e. Six semester hours selected from ENGL 4180, 4190, 4250 or 6 hours in an advanced foreign language (3060-3070 or equivalent in one foreign language).