

**Current
DEGREE: BACHELOR OF SCIENCE**

MAJOR: COMPUTER SCIENCE

CURRICULUM	CREDITS
UNIVERSITY REQUIREMENTS	
ENGL 110 Critical Reading and Writing (minimum grade C-)	3
First Year Experience (FYE)	0-4
Breadth Requirement	12
Discovery Learning Experience (DLE)	3
Multicultural Courses	3

Major Requirements

College of Engineering Requirements	21
The College of Engineering requires 21 total Breadth Requirement credits (essentially 9 credits in addition to the University Breadth Requirement.)	
* If chosen carefully, up to 3 credits from each of the University Breadth Requirement categories may be used to simultaneously satisfy the College of Engineering Breadth Requirements for this major.	
* Of the 21 credits, 6 credits must be at the Upper Level (usually 300-level or higher) as designated on the College of Engineering Requirement list. CISC 355 satisfies 3 credits of this requirement.	
* Of the 21 credits, 3 credits may be used to satisfy the University Multicultural Requirement (recommended for timely progress toward degree completion).	
* All Breadth Requirement coursework must be passed with a minimum grade of C-.	

Core Courses

CISC 108 Introduction to Computer Science I (minimum grade C-)	3
CISC 181 Introduction to Computer Science II (minimum grade C-)	3
CISC 220 Data Structures (minimum grade C-)	3
CISC 260 Machine Organization and Assembly Language (minimum grade C-)	3
CISC 275 Introduction to Software Engineering	3
CISC 303 Automata Theory	3
CISC 320 Introduction to Algorithms	3
CISC 360 Computer Architecture	3
CISC 361 Operating Systems	3
CISC 475 Advanced Software Engineering	3

An additional twelve credits of computer science technical electives numbered 301 or above, approved by the student's advisor. 12

**Revised
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Major Requirements

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• If chosen carefully, up to 3 credits from each of the University Breadth Requirement categories may be used to simultaneously satisfy the College of Engineering Breadth Requirements for this major.	
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* Of the 21 credits, 3 credits may be used to satisfy the University Multicultural Requirement (recommended for timely progress toward degree completion).	
* All Breadth Requirement coursework must be passed with a minimum grade of C-.	

Core Courses

CISC 108 Introduction to Computer Science I (minimum grade C-)	3
CISC 181 Introduction to Computer Science II (minimum grade C-)	3
CISC 220 Data Structures (minimum grade C-)	3
CISC 260 Machine Organization and Assembly Language (minimum grade C-)	3
CISC 275 Introduction to Software Engineering	3
CISC 303 Automata Theory	3
CISC 320 Introduction to Algorithms	3
CISC 360 Computer Architecture	3
CISC 361 Operating Systems	3
CISC 475 Advanced Software Engineering	3

An additional twelve credits of computer science technical electives numbered 301 or above, except for CISC 355, CISC 356, CISC 357, CISC 366 and CISC 466. Because of their very nature, Experimental Courses (courses with an x67 number) must be approved beforehand by the CIS Undergraduate Committee before being accepted toward the requirement for twelve additional credits of computer science. 12

Twelve credits in advanced courses in an advisor-approved CISC concentration 12
Students are encouraged to explore how other subject areas impact and are impacted by computer science.
Approval by the student's CISC advisor is required. Concentration courses must be distinct from other
CISC requirements and technical electives.

MATH 205 Statistical Methods 3-4
or
Math 350 Probability Theory

MATH 210 Discrete Mathematics I (minimum grade C-) 3

MATH 241/MATH 242 Analytic Geometry and Calculus A/B 8

Twelve credits in science courses including one of the following sequences of laboratory science courses: 12

PHYS 207 - PHYS 208 Fundamentals of Physics

or

CHEM 103 - CHEM 104 General Chemistry

or

BISC 207 - BISC 208 Introductory Biology

or

GEOL 105/GEOL 115/GEOL 107 Geological Hazards and Laboratory, General Geology

A course chosen from CISC 304, MATH 349, or a substitute from the list provided by the CIS
undergraduate committee and approved beforehand in writing by the advisor.

ENGL 312 Written Communications in Business 3

or

ENGL 410 Technical Writing

CISC 355 Computers, Ethics and Society 3

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit
requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF 124

Twelve credits in advanced courses in an advisor-approved CISC concentration 12
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Approval by the student's CISC advisor is required. Concentration courses must be distinct from other
CISC requirements and technical electives.

MATH 205 Statistical Methods 3-4
or
Math 350 Probability Theory

MATH 210 Discrete Mathematics I (minimum grade C-) 3

MATH 241/MATH 242 Analytic Geometry and Calculus A/B 8

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or

CHEM 103 - CHEM 104 General Chemistry

or

BISC 207 - BISC 208 Introductory Biology

or

GEOL 105/GEOL 115/GEOL 107 Geological Hazards and Laboratory, General Geology

A course chosen from CISC 304 or MATH 349, or a 300-level or above math course approved beforehand
in writing by the advisor.

ENGL 312 Written Communications in Business 3

or

ENGL 410 Technical Writing

CISC 355 Computers, Ethics and Society 3

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit
requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF 124