

---

**Bachelor of Science in Computer Science**  
**Degree Requirements**  
**2006-07**

**A. COMPUTER SCIENCE REQUIREMENTS****1. CORE**

CS 1511 - Computer Science I

*OR*

CS 1581 - Honors: Computer Science	5
CS 1521 - Computer Science II	5
CS 2511 - Software Analysis and Design	4
CS 2521 - Computer Organization and Architecture	4
CS 3111 - Computer Ethics	4
CS 3512 - Computer Science Theory	4

**2. ADVANCED****REQUIRED COURSES**

CS 5631 - Operating Systems	4
CS 5621 - Computer Architecture <i>OR</i>	
CS 5651 - Computer Networks	4

ADDITIONAL REQUIREMENTS - 3 Breadth/Elective courses (with at least 1 chosen from the Breadth list)

BREADTH		ELECTIVES	
CS 4511 - Theory of Computation	4	CS 4821 - Computer Security	4
CS 4521 - Algorithms and Data Structures	4	CS 5721 - Computer Graphics	4
CS 4531 - Software Engineering	4	CS 5741 - Object- Oriented Design	4
CS 4611 - Database Management Systems	4	CS 5751 - Intro to Machine Learning	4
CS 5541 - Artificial Intelligence	4	CS 5761 - Intro Natural Language Processing	4
CS 5551 - User Interface Design	4	CS 5831 - Information & Text Processing	4
CS 5631 - Operating Systems	4		
CS 5641 - Compiler Design	4		
CS 5651 - Computer Networks			

**B. MATHEMATICS REQUIREMENTS**

MATH 1296 - Calculus I	5	MATH 2326 - Intro to Linear Algebra	4
MATH 1297 - Calculus II	5	STAT 3611 - Probability & Statistics	4

**C. SCIENCE REQUIREMENTS**

Lab Science Sequence*	8-12	Approved Science Elective	4
-----------------------	------	---------------------------	---

**D. OTHER REQUIREMENTS**

COMP 1120 - College Writing	3	COMM 1112 - Public Speaking	3
COMP 3130 - Advanced Writing: Eng		ECE 1315 - Digital System Design	4
<i>OR</i>		Liberal Education (CAC)	21
COMP 3150 - Advanced Writing: Science	3		

TOTAL 120

\*The lab science sequence must be chosen from one of the following sequences:

1. BIOL 1011-1012 - General Biology I & II (10)
2. CHEM 1151-1152 - General Chemistry I & II (10) or 1161-1162 (Honors: Chemistry I & II)
3. GEOL 1110 - Introductory Geology (4), GEOL 2311 - Mineralogy (4), GEOL 2312 - Petrology (4)
4. PHYS 2011-2012 - General Physics I & II (8)