

BS: Computer Science 2007 – 2008

Catalog Expires in August 2013

Name: _____ Banner I.D. Number: _____
 H.S. For. Lang. requirement _____ H.S. Science requirement _____ COMPASS score _____ ACT: _____ SAT: _____

FR Fall 14 hrs	★BIBL 101 Life & Teachings of Jesus	★ENGL 111 Composition & Rhetoric [SAT=470, ACT=19]	*CS 115 (C) Intro. to Programming	MATH 185 Calculus I [MATH 124 or COMPASS placement]	★UNIV 100 University Seminar 1 hr	★EXSC 100 Lifetime Wellness 1 hr.	Required only if a condition of Admission: +UNIV 011 (2) Student Success MATH: COMPASS Adv. Math test required for Math placement
FR Spring 16 hrs	★BIBL 102 Acts – Revelation	COMS 111 Fundamentals of Communication	*CS 120 (C) Programming I [CS 115]	●HISTORY 100-299 Level	MATH 186 Calculus II [MATH 185]	MATH 187 Calculus Computer Lab 1 hr. [MATH 185]	
SO Fall 16 hrs	●BIBL 211 Message of the Old Testament	●LITERATURE ENGL 221, 222, 231, 232, 262 or 263 [ENGL 111]	*CS 130 (C) Programming II & Data Structures [CS 120]	*MATH 286 Calculus III [Math 186] Fall	*IT 220 (C) Intro. to Databases & DB Mgmt. Systems [CS 115]	Exercise Science Activity 1 hr	ENGLISH: +ENGL 003 (2) & +ENGL 004 (1) ENGL 106 (2) & +ENGL 006 (1) ENGL 107 (2) & +ENGL 007 (1)
SO Spring 18 hrs	●BIBL 212 Christianity & Culture	●SOCIAL SCIENCE (Anth, Educ. 221, Geog, Hist, Pol., Econ, Psyc, or Soci)	*CS 220 (C) Computer Org. & Single User Systems [CS 130]	*CS/IT 221 (C) Fund. of Networks & Data Communications [CS 115]	MATH 227 Discrete Math [CS 115 or Math 185]	●FINE ART Art 101, Musm 230, Thea 220, or 250	
JR Fall 16 hrs	●BIBLE Elective 300-499 Level	●SOCIAL SCIENCE (Anth, Educ. 221, Geog, Hist, Pol., Econ, Psyc, or Soci) [Different area of study required]	*CS 230 Object-Oriented Programming Fall [CS 130]	*CS 332 Design & Analysis of Algorithms [CS 115, 120, 130, Math 227] Fall	MATH 377 Statistical Methods Fall [Math 131 or 185] OR MATH 361 Ordinary Diff. Equations Spring [Math 186]	Exercise Science Activity 1 hr	PLEASE NOTE: +These courses will <u>NOT</u> count toward final graduation hours
JR Spring 18 hrs	PHYS 335 (2) class PHYS 336 (1) lab Intro. to Electronics (Concurrent enrollment required) [Math 185, 186] Spring	PHIL 486 Ethics Spring only	MATH 325 Linear Algebra [Math 186] Spring only	*CS 356 Operating Systems [CS 220 & 221] Spring	*ADV. CS Elective (300-499 level) [prereqs. apply]	●FREE ELECTIVE 3 hours	Required only if unsatisfactory in High School: SCIENCE 3 hrs
SR Fall 16 hrs	SCIENCE (Biol, Chem, Geol, Aenv 130 or Nutr. 120)	*CS 467 Intro. to Artificial Intelligence [CS 332] Fall only	*CS 352 Programming Languages [CS 120 & 220] Fall only	ENGL 326 Bus. & Prof. Writing [Lit., Jr. hours]	*CS 341 Numerical Methods [Math 186] Fall EVEN	Exercise Science Activity 1 hr	FOREIGN LANGUAGE 6 hrs
SR Spring 14 hrs	*CS 365 Theory of Computation [CS 220 & 332] Spring	*CS 495 (C) Computer Science Senior Seminar – 2 hrs. Must be taken last Spring before graduation Spring only IT 495 (3 hours) may be substituted – please see back	*ADV. CS Elective (300-499 level) [prereqs. apply]	*ADV. CS Elective (300-499 level) [prereqs. apply]	●FREE ELECTIVE 3 hours		Total minimum hours = 128

[Pre-requisite courses required prior to, not concurrently] ★ Freshman Requirement (C) = Minimum Grade * Used to calculate major GPA

Please see back for additional information

Note: Failure to do the following may result in a delay of graduation.

1. Plan schedules carefully, so as to fulfill all pre-requisites for the next semester's courses. Approval of pre-requisite waivers will be granted only under ***extreme*** circumstances.
2. Check with your academic advisor before changing the sequence of courses since some are not offered every semester.
3. Check your account early to allow time to eliminate any hold that might prevent pre-registration.
4. Pre-register early to secure prime time slots for your classes.

★ Freshman requirement

- This course or its equivalent is offered at one of ACU's semester-long Study Abroad sites. Those planning to study abroad should save these courses. See www.acu.edu/study-abroad for updated courses.

Other graduation requirements:

- *Minimum grade in CS 115, 120, 130, 220, 495; IT 220 & CS/IT 221 = "C"*
- *IT 495 (3 hrs) may be substituted for CS 495 – increasing the total hours required to graduate to 129. As of 4-3-07, IT 495 is not a writing-intensive course so an additional course may be required to meet graduation requirements. Please check with advisor for updates.*
- ***Minimum GPA in major & concentration requirements = 2.00***
- ***Minimum cumulative GPA for required for graduation = 2.00***
- *Courses numbered 0** **do not** count in minimum hours required for degree.*
- Minimum number of upper-level hours required = 33 hours

Possible occupations for Computer Science majors include:

- C++ developer/programmer
- Software tester
- User interface design analyst
- Hardware design developer
- User interface engineer
- Artificial intelligence engineer
- Application programmer
- Implementation engineer
- Chief scientist, knowledge sciences
- .net software developer
- Visualization scientist
- Database developer
- Computing support manager
- Middleware designer
- Embedded systems specialist