

# Bachelor of Science in Computer Science General Track Checklist

Required Course	When Taken	Grade	Notes
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## Computer Science Core (33 Credit hours)

CSIT 121 Computer Science I			
CSIT 221 Computer Science II			
CSIT 324 Object Oriented Programming			
CSIT 231 Systems Programming			
CSIT 241 Discrete Math for CS I / <i>MATH 231 Linear Algebra</i> ,			
CSIT 311 Assembly Language/Computer Organization			
CSIT 321 Paradigms of Programming Languages			
CSIT 341 Data Structures			
CSIT 425 Software Engineering			
CSIT 431 Introduction to Operating Systems			
CSIT 455 Relational and Object Databases			

## General Track Requirements and Electives

MATH 120 Survey of Calculus I or MATH 122 University Calculus I			
MATH 121 Survey of Calculus II or MATH 123 University Calculus II			
CS Elective*			
CS Elective*			
CS Elective (400 level)*			
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**\*Five additional computer science courses** must be taken the list below. **At least three courses must be at the 400 level:** CSIT242 Discrete Math for Computer Science II, CSIT 307 Web Development with Ruby on Rails , CSIT333 Mobile Programming, CSIT 411 Programming for Embedded Microcontrollers, CSIT 413 Computer Architecture, CSIT433 Compiler Construction, CSIT 435 Data Communications and Networks, CSIT 437 Advance Operating Systems, CSIT 456 Information and Decision Support Systems, CSIT 473 Data Warehousing and Mining, CSIT 441 Design and Analysis of Algorithms, CSIT 443 Theory of Computation, CSIT 461 Introduction to AI and Knowledge Engineering, CSIT 462 Computer Graphics, CSIT 463 Introduction to Digital Image Processing and Computer Vision, CSIT473 Data Warehousing and Mining, CSIT475 Electronic Commerce, MATH 231 Linear Algebra

A maximum of two courses from the following list may be taken as CS electives; CSIT201 Computer Security and Ethics, CSIT291 Special Topics, CSIT300 Internship, CSIT390 Directed Study, CSIT 400 Directed Independent Study, CSIT 490 Seminar on Selected Topics, CSIT 496 Special Topics, CSIT497 Thesis, CSIT 499 Senior Project

**Students must complete a minimum of 66 credits of non-CIS courses. Students must have GPA of at least 2.0, both overall and in the courses listed in the above checklist. Students must complete a minimum of 120 total credit hours All students WHO STARTED IN FALL 2015 OR AFTER seeking an undergraduate degree must complete 45 credit hours as the upper-level (300 and above)**

**Students may double major in Computer Science and Computer Information Systems by completing all requirements for both majors; the student is required to take at least 15 additional credit hours in the second major (credit hours from courses within the list of courses of the second major not used to satisfy requirements in the first major).**

**College Core Curriculum:** Refer to a separate CCC Report for details

**Student:** \_\_\_\_\_

**Anticipated Date  
of Completion:** \_\_\_\_\_

**Advisor:** \_\_\_\_\_