List of Computer Science major (CSC-prefixed) courses and significant attributes

(Courses **required** within the Computer Science major are indicated in **bold** typeface. Please see the Computer Science Department website (cs.salemstate.edu) for complete course description, topic list, bibliography, etc.)

Science Department website (cs.saiemstate.edu)	101 00111				
Course	Credits	Required Lab	Load	Typically Offered	Typical Language(s) / O.S. / Hardware
CSC 105 Survey of Computer Science	4		minimal	Spring & Fall	
CSC 110 Software Design and Implementation I	4	✓	heavy	Spring & Fall	Java
CSC 115 Software Design and Implementation II	4	✓	heavy	Spring & Fall	Java
CSC 235 Computer Security Basics	3		moderate	sporadic	Java, plus some PHP, MySQL, Linux scripting
CSC 246 Information Visualization	4	✓	moderate	Spring, odd years	Processing
CSC 260 Data Structures & Algorithms	4	✓	heavy	Spring & Fall	Java
CSC 263 Database Systems	4		moderate	Spring	Java, SQL (Oracle and/or MySQL)
CSC 276 Topics in Computer Science	3		variable	sporadic sporadic	variable
CSC 278 Scripting Techniques	4		heavy	Fall, odd years	multiple, varies by semester: e.g. JavaScript, Python, PHP,
CSC 279 C + C++	4		heavy	Fall, even years	C and C++
CSC 295 Computer Architecture & Organization	4		moderate	Spring	Altera's Quartus II and DE2 board
CSC 299 Concepts of Programming Languages	3		moderate	Spring	variable
CSC 300 Software Engineering I	4	✓	moderate	Spring	UML, JavaScript
CSC 315A Computer Networks and Data Communications	4		moderate	Spring	Python, PHP, HTML, Linux, Windows
CSC 340 Artificial Intelligence	4		moderate	Spring	Python
CSC 351 Software Engineering II	4	✓	moderate to heavy	Fall	UML, JavaScript
CSC 367 Internship in Computer Science	1-6		variable	as needed	highly variable
CSC 376 Topics in Computer Science	3		variable	sporadic sporadic	variable
CSC 381 Operating Systems	3		minimal	<mark>Fall</mark>	
CSC 400 Theory of Computation	3		minimal	sporadic	
CSC 415 Analysis of Algorithms	3		minimal	Spring	
CSC 425 Computer Graphics and Games	4		heavy	Spring, even years	Java
CSC 435 Computer and Network Security	4	√	moderate	Fall, even years	C / C++, plus some PHP, MySQL, Linux scripting
CSC 455 Machine Learning	4		moderate	Fall, even years	Python
CSC 475 Distributed and Cloud Computing	3		moderate	Fall, odd years	C, Java, Linux, Windows
CSC 485 Robotics and Computer Vision	4	✓	moderate	Fall, odd years	Python
CSC 490 Compiler Construction	4	✓	heavy	sporadic	variable
CSC 520 Computer Science Capstone Project Spec	1		minimal	Spring & Fall	variable
CSC 521 Computer Science Capstone Project	3		heavy	Spring & Fall	variable
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(Note: Staffing and enrollment issues may necessitate exceptions to the "typically offered" schedule presented above. The Computer Science Department makes every effort to keep to the schedule as presented.)