

### Computer Science (BS)

Suggested Plan of Study2015-2016 Catalog

Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
MATH 1525 Calculus I	5	MATH 1545 Calculus II	5
Social Science choice (ECON 2103, FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, SOC 1003 or SOC 2003)	3	Fine Arts/Humanities (ART 2013, HUM 2003, MUS 2013, THEA 2003 or Foreign Language)	3
***CSCI 1102/1101 Introduction to Computing/Lab or Elective	3	Biological Science choice/Lab BSCI 1013/1011 or BIOL 1103/1101	4
GSTD 1002 Freshman Seminar	2		
Total Semester Hours	16	Total Semester Hours	15
Fall – Semester 3		Spring – Semester 4	
World Literature I/II (ENGL 2213 or ENGL 2223)	3	Fine Arts/Humanities (ART 2013, HUM 2003, ENGL 2213, ENGL 2223, MUS 2013, PHIL 2403, or THEA 2003)	3
*HIST 1003 or 1013 World History I or II OR HIST 2013 or 2023 U.S. History I or II or PSCI 2003 American Government: National	3	*HIST 1003 or 1013 World History I or II OR HIST 2013 or 2023 U.S. History I or II or PSCI 2003 American Government: National	3
PHYS 2003/2001 College Physics I/Lab or PHYS 2203/2201 University Physics II/Lab	4	PHYS 2103/2101 College Physics II/Lab or PHYS 2213/2211 University Physics II/Lab	4
CSCI 2103 Computer Science I	3	CSCI 2113 Computer Science II	3
MATH 2753 Linear Algebra	3	CSCI 3063 High Level Language	3
Total Semester Hours	16	Total Semester Hours	16
Fall – Semester 5		Spring – Semester 6	
CSCI 3103 Data Structures and Algorithms	3	CSCI 3203 Assembler and Machine Organization	3
CSCI 4133 Operating Systems	3	CSCI 3703 Computer Architecture	3
UL CSCI Elective	3	MATH 2033 Discrete Math	3
Elective	3	UL CSCI Elective	3
Elective	3	UL Elective	3
Total Semester Hours	15	Total Semester Hours	15
Fall – Semester 7		Spring – Semester 8	
CSCI 4143 Programming Language and Compilers	3	CSCI 4153 Software Engineering	3
MATH 4073 Introduction to Probability and Statistics	3	UL CSCI Elective	3
UL CSCI Elective	3	UL CSCI Elective	3
Elective	3	UL Elective	1
Elective	3	Elective	2
Total Semester Hours	15	Total Semester Hours	12

Total hours required for major – 120  
CSCI Electives

CSCI 3133 Advanced UNIX/LINUX	CSCI 4203 Data Modeling and Application
CSCI 3403 Artificial Intelligence	CSCI 4413 Web Programming
CSCI 3903 Special Topics in Computer Science	IS 3403 Database Management Systems
CSCI 4163 Computer Graphics	MATH 4043 Numerical Analysis
CSCI 4173 Computerized Simulations	

\*Note: Must have six hours of history/government. Three hours must be World History I or II. Three hours must be U.S. History I, U.S. History II or American Government: National.

\*\* Student can complete a math minor by selecting one of the following courses: MATH 3033, 3063, 3083, 4003, 4033, 4093, or 4613.

\*\*\* Prerequisite for CSCI 2103 depending on computer experience, a student may substitute an elective.

\*\*\*\* MATH 1023 and MATH 1033 are not required for students with a math ACT score of 26 or higher. With an ACT score of 21 or higher, a student may substitute MATH 1045 Pre-Calculus as preparation for MATH 1525.