

### Bachelor of Science in Computer Science (B.S.)

Suggested Plan of Study 2011-2012 Catalog

Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
****MATH 1023 College Algebra	3	MATH 1033 Plane Trigonometry	3
*HIST 1003 or 1013 World History I or II OR HIST 2013 or 2023 U.S. History I or II	3	*HIST 1003 or 1013 World History I or II OR HIST 2013 or 2023 U.S. History I or II	3
***CSCI 1102/1101 Introduction to Computing/Lab	3	BSCI 1013/1011 General Biology/Lab or BIOL 1013/1011 Introduction to Biology/Lab	4
PHED 1__1 PE Activity	1	****PHED 1501 Concepts of Physical Activity and Wellness	1
GSTD 1002 Freshman Seminar	2	SPCH 1113 Introduction to Public Speaking	3
<b>Total Semester Hours</b>	<b>15</b>	<b>Total Semester Hours</b>	<b>17</b>
Fall – Semester 3		Spring – Semester 4	
Literature/Philosophy (ENGL 2213, ENGL 2223, PHIL 2403)	3	Literature/Philosophy (ENGL 2213, ENGL 2223, PHIL 2403)	3
MATH 1525 Calculus I	5	MATH 1545 Calculus II	5
CSCI 2103 Computer Science I	3	CSCI 2113 Computer Science II	3
PHYS 2003/2001 College Physics I/Lab or PHYS 2203/2201 University Physics II/Lab	4	PHYS 2103/2101 College Physics II or PHYS 2213/2211 University Physics II/Lab	4
Social Science choice (ECON 2103 or FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, or SOC 1003 or 2003)	3		
<b>Total Semester Hours</b>	<b>18</b>	<b>Total Semester Hours</b>	<b>15</b>
Fall – Semester 5		Spring – Semester 6	
Humanities choice (ART 2013, HUM 2003, MUS 2013, THEA 2003 or Foreign Language)	3	**Elective	3
MATH 2753 Linear Algebra	3	MIS 3403 Database Management Systems	3
CSCI 3103 Data Structures and Algorithms	3	CSCI 3063 High Level Language	3
Social Science choice (ECON 2103 or FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, or SOC 1003 or 2003)	3	CSCI 3203 Assembler and Machine Organization	3
UL CSCI Elective (see below)	3	MATH 2033 Discrete Math	3
		Humanities choice (ART 2013, HUM 2003, MUS 2013, THEA 2003)	3
<b>Total Semester Hours</b>	<b>15</b>	<b>Total Semester Hours</b>	<b>18</b>
Fall – Semester 7		Spring – Semester 8	
CSCI 4133 Operating Systems	3	CSCI 4143 Programming Language and Compilers	3
CSCI 3703 Computer Architecture	3	CSCI 4153 Software Engineering	3
UL CSCI Elective (see below)	3	UL CSCI Elective (see below)	3
MATH 4073 Introduction to Probability and Statistics	3	UL CSCI Elective (see below)	3
		***Elective	2
<b>Total Semester Hours</b>	<b>12</b>	<b>Total Semester Hours</b>	<b>14</b>

Total hours required for major – 124  
CSCI Electives

CSCI 3133 Advanced UNIX/LINUX	CSCI 4173 Computerized Simulations
CSCI 3403 Artificial Intelligence	CSCI 4413 Web Programming
CSCI 3903 Special Topics in Computer Science	MATH 4043 Numerical Analysis
CSCI 4163 Computer Graphics	

\*Note: Must have six hours of history. Three hours must be World History I or II and three hours of U.S. History I or II OR six hours of World History as well as the social science choice - 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.