

## 4-Year Sample Curriculum (pre 2004)

A recommended program of study is given below and indicates the depth and breadth of requirements for the Bachelor of Science degree with a major in computer science. Students should consult the University of Tennessee Undergraduate Catalog or the computer science faculty advisor for undergraduates for the exact requirements.

Credit hours are indicated in parentheses following each course.

Freshman Year (32 hours)	
Fall	Spring
<b>CS 102</b> Intro to Computer Science (4)	<b>CS 140</b> Data Structures (4)
<b>Math 141</b> Calculus I (4)	<b>Math 142</b> Calculus II (4)
<b>English 101</b> English Composition I (3)	<b>English 102</b> English Composition II (3)
<b>Foreign Language 2xx</b> (3)	<b>Foreign Language 2xx</b> (3)
<b>How to Study</b> (1) (recommended)	<b>Social Science Course</b> (3)

Sophomore Year (34 hours)	
Fall	Spring
<b>CS 160</b> Computer Organization (4)	<b>CS 302</b> Fundamental Algorithms (3)
<b>Math 251</b> Matrix Algebra (3)	<b>CS 311</b> Discrete Structures(3)
<b>Math 300</b> Intro to Abstract Math (3)	<b>Math 241</b> Multivariable Calculus (4)
<b>Physics 135</b> (4) or <b>Chemistry 1xx</b> (4) or <b>Biology 1xx</b> (4)	<b>Physics 136</b> (4) or <b>Chem 1xx</b> (4) or <b>Biology 1xx</b> (4)
<b>Humanities Course</b> (3)	<b>Humanities Course</b> (3)

Junior Year (31 hours)	
Fall	Spring
<b>*CS 360</b> Systems Programming (3)	<b>CS 365</b> Programming Languages & Systems (3)
<b>CS 340</b> Foundations of Software Engineering (3) or <b>CS 370</b> Intro to Scientific Computing (3)	<b>CS 380</b> Theory of Computation (3)
<b>CS 300</b> Scripts & Utilities (1) (recommended)	<b>UD CS Elective</b> (3) or <b>Math 231</b> Differential Equations (3) or <b>Math 323</b> Probability & Statistics (3)
<b>History</b> (3)	<b>History</b> (3)
<b>General Elective</b> (3)	<b>General Elective</b> (3) or <b>UD Math Elective</b> (Math Minor) (3)
<b>Social Science</b> (3)	

\*\*Students must take 2 of the 3 CS courses (340, 360 & 370) but may take all three.

<b>Senior Year (27 hours)</b>	
<b>Fall</b>	<b>Spring</b>
* <b>UD CS Elective</b> (3) (recommended)	* <b>UD CS Elective</b> (3) (recommended)
<b>UD CS Elective</b> (3)	<b>UD CS Elective</b> (3)
<b>UD Distribution</b> (3)	<b>UD Distribution</b> (3)
<b>UD Math Elective</b> (Math Minor) (3)	<b>UD Math Elective</b> (Math Minor) (3)
<b>English 355</b> Rhetoric & Writing (3) or <b>English 360</b> Technical & Professional Writing (3)	
* Six hours of UD CS Electives is recommended for current students and will be required for students entering UT beginning Fall 2004	

**Total Credit Hours: 124**

Link: [http://www.cs.utk.edu/undergraduate/prospective/programofstudy\\_pre2004.pdf](http://www.cs.utk.edu/undergraduate/prospective/programofstudy_pre2004.pdf)