

## BS in Computer Science – Sample Curriculum

<b><i>Freshman Fall (15)</i></b>	<b><i>Freshman Spring (15-16)</i></b>
<b>EN 500.112 Gateway Computing: Java (3)</b>	<b>CS 601.220 Intermediate Programming (4)</b>
<b>AMS 553.171 Discrete Math (4)</b>	<b>MATH 110.109 Calculus II (4)</b>
<b>MATH 110.108 Calculus I (4)</b>	H/S elective (3)
Writing course (3)	Free elective (3)
HEART seminar (1)	Other electives (1-2)
<b><i>Sophomore Fall (16)</i></b>	<b><i>Sophomore Spring (16)</i></b>
<b>CS 601.226 Data Structures (4)</b>	<b>CS 601.104 Computer Ethics (1)</b>
<b>CS 601.231 Automata &amp; Computation Theory (3)</b>	<b>CS 601.229 Computer System Fundamentals (3)</b>
PHYS 171.101 Physics I (or Chem I) (4)	CS 601.xxx CS elective (3)
PHYS 173.111 Physics I Lab (or Chem I Lab) (1)	PHYS 171.102 Physics II (or Chem II) (4)
Math Elective (4)	PHYS 173.112 Physics II Lab (or Chem II Lab) (1)
	Math Elective (4)
<b><i>Junior Fall (16)</i></b>	<b><i>Junior Spring (16)</i></b>
CS 601.421 Object Oriented Software Eng. (3)	CS 601.3xx/4xx CS upper level (3) (Appl, Syst, Reas)
<b>CS 601.433 Algorithms (3)</b>	CS 601.3xx/4xx CS upper level (3)
Math Elective (4)	Science elective (3)
H/S elective (3)	H/S elective (3)
Writing course (3)	H/S elective (4)
<b><i>Senior Fall (16)</i></b>	<b><i>Senior Spring (16)</i></b>
CS 601.3xx/4xx CS upper level (3)	CS 601.3xx/4xx CS upper level (3)
CS 601.xxx CS elective (3)	H/S elective (3)
Science elective (3)	Free elective (3)
H/S elective (3)	Free elective (3)
Free elective (4)	Free elective (4)

Courses in bold are required. The department also offers a **Bachelor of Arts in Computer Science**, allowing students to pursue a more traditional liberal arts curriculum while still majoring in CS.

Three minor programs are related to the department as well:

- **Minor in Computer Science**
- **Minor in Robotics**
- **Minor in Computer Integrated Surgery**