

# COMPUTER SCIENCE MAJOR

## Plan of Study

The Plan of Study is subject to change based upon course availability. Students have the opportunity to pursue one of two tracks of study in the Computer Science program at Bellarmine (please consult with the Associate Dean for Academic Affairs to discuss which track is most appropriate):

**Track 1 – Workforce:** Prepares students to enter the workforce upon graduating with a 2-year associate's degree in Computer Science. The knowledge gained from web development and mobile application development will equip students with skills needed to join to workforce.

**Track 2 – Continuing Studies:** Prepares students to matriculate into the 4-year BA program in Computer Science. Students will take Data Structures + Lab to help prepare for the future computer science curriculum associated with a bachelor's degree.

Course	Title	Credits
<b>First Year</b>		
<b>Summer</b>		
HIST 1100	Origins of the Modern World Since 1500	3
THTR 1011	Exploring Theatre	3
<b>Credits</b>		<b>6</b>
<b>Fall</b>		
RLST 1001	Religion and the Critical Mind	3
MATH 1011	Precalculus	3
CPEG 2245	Digital Design I	3
ENGL 1001	Introduction to Rhetoric and Composition	3
CPEG 2245L	Digital Design I Lab	1
<b>Credits</b>		<b>13</b>
<b>Spring</b>		
CPSC 1101	Introduction to Computing	3
BIOL 1088	Biomedical Science and Society	3
MATH 1121	Applied Calculus I	3
ENGL 2001	Rhetorics that Matter: Personal, Public, Political	3
<b>Credits</b>		<b>12</b>
<b>Second Year</b>		
<b>Summer</b>		
PHIL 1101	Introduction to Philosophy	3
CPSC 1131	Fundamentals of Programming	3
<b>Credits</b>		<b>6</b>
<b>Fall</b>		
CPSC 4314	Network Security	3
COMM 1101	Argument and Advocacy	3
CPSC 2231 & 2231L	Programming Workshop and Programming Workshop Lab	4
MATH 1122	Applied Calculus II	3
<b>Credits</b>		<b>13</b>
<b>Spring</b>		
<b>TRACK 1 – Workforce</b>		<b>10</b>

CPSC 3333	Introduction to Cybersecurity	
CPSC 2304	Web Development	
CPSC 2250L	Computer Science Sophomore Clinic	
CPSC 4305	Mobile Application Development	
<b>TRACK 2 – Continuing Studies</b>		
CPSC 3333	Introduction to Cybersecurity	
CPSC 2232	Data Structures	
CPSC 2232L	Data Structures Lab	
MATH 1123	Intermediate Calculus <sup>1</sup>	
<b>Credits</b>		<b>10</b>
<b>Total Credits</b>		<b>60</b>

<sup>1</sup> MATH 1123 is the preferred course, but students may enroll in another STEM elective.