

Eight Semester Plan BS Cybersecurity

12 credits in the major and 9 credits in the minor must be completed at Alvernia University

When pursuing a double major, you must have 12 distinct credits between the two majors.

Semester 1	Credits	Semester 2	Credits
Diversity graduation requirement <i>cannot</i> be fulfilled through major courses; students should fulfill this with a Gen Ed SEARCH class			
Writing Enhanced graduation requirement <i>cannot</i> be fulfilled through major courses; students should fulfill this with a Gen Ed SEARCH class			
SRH 101: Search Sem-Enduring Questions or HNR 160: Honor Search-Enduring Questions THE 105 or PHI 105	3	CS 155: Object-Oriented Programming MAT 230: Calculus I THE 105 or PHI 105	3 4 3
CS 115: Intro to Programming	3	Gen Ed	3
CS 120: Intro to IT	3	Gen Ed	<u>3</u>
MAT 131 Pre-calculus or Gen Ed if MAT 131 is not needed.	<u>3</u>		
TOTAL	15	TOTAL	16
Semester 3	Credits	Semester 4	Credits
CS 210: Computer Organization & Assembly Language	3	CS 220: Data Structures and Algorithms	3
CYB 110: Introduction to Cybersecurity	3	CYB 210: Modern Cybersecurity Design	3
MAT 250: Discrete Mathematics	3	MAT 209: Probability & Statistics	3
Gen Ed (Foreign Language suggested)	3	Gen Ed	3
Gen Ed	<u>3</u>	Gen Ed (Foreign Language suggested)	<u>3</u>
TOTAL	15	TOTAL	15
Semester 5	Credits	Semester 6	Credits
CS 310: Operating Systems	3	CS 345: E-Commerce	3
CYB 310: Computer Networking & Cyber Security	3	CYB 410: Computer Forensics	3
Gen Ed (Lab Course Recommended)	4	MAT 352: Cryptography	3
Gen Ed	3	Gen Ed (MAT if MAT 131 was not needed)	3
Elective	<u>3</u>	Gen Ed	3
		Gen Ed	<u>3</u>
TOTAL	16	TOTAL	18
Semester 7	Credits	Semester 8	Credits
CS 400: Database Systems	3	CS 425: Software Development	3
CYB Elective	3	CS 420: Computer Science Seminar	3
SCI 406: Research I Or SCI 480: Internship	3	SCI 407: Research II Or SCI 480: Internship	3
Gen Ed	3	Gen Ed	3
Elective	<u>3</u>	Elective	<u>3</u>
TOTAL	15	TOTAL	15

Academic Policy on Eligibility for Participation of May Commencement Ceremony

The academic policy, which the Registrar follows, is: A student who has 6 or less credits remaining to complete the degree may participate in the May Commencement Ceremony. The Graduation Application is available online in myAlvernia on the 'Academics' tab. Seniors must submit the Graduation Application to the Registrar's Office as follows:

October 1 for May Graduation; December 1 for August graduation; and March 1 for December graduation.

If you have any questions, please call the Registrar's Office (610.796.8201)