

Associate of Science General Studies, Cybersecurity Concentration			
Course Prefix		Course Description	Credit Hours
	ORI 110	Freshman Seminar	1
AREA I	ENG 101	English Composition I	3
	ENG 102	English Composition II	3
AREA II	ART 100	Fine Arts Elective	3
	ENG 251*	Literature Elective*	3
	HUM 101	Humanities Elective	3
	IDS 102	Humanities Elective (or second Literature Elective)	3
AREA III	MTH 112	Precalculus Algebra	3
	BIO 103	Natural Science Elective I	4
	BIO 104	Natural Science Elective II	4
AREA IV	HIS 101*	History Elective*	3
	HIS 102	Social Science Elective (or second History Elective)	3
	PSY 200	Social Science Elective	3
	ECO 231	Social Science Elective	3
AREA V	MTH 113	Precalculus Trigonometry	3
	MTH 125	Calculus I	4
	MTH 126	Calculus II	4
	CIS 251	C++ Programming	3
	CIS 211	Principles of Information Assurance	3
	CIS 245	Cyber Defense	3

*A course sequence in either literature or history is required.

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Bachelor of Science in Computer Science

(With Required Concentration)

Course Prefix	Course Description	Credit Hours
UNV 300	Pathways to Success	3
MA 305	Calculus III (Unless MTH 227 was completed at the community college level)	4
CS 317	Computer Science I	3
CS 318	Computer Science II	3
CS 309 & CS 309 L	Introduction to Digital Logic Design (and Lab)	3/1
CS 310	Professional Ethics of Computing	1
CS 372	Data Structures	3
MA 308	Discrete Mathematics	3
MA 310	Matrices & Linear Algebra	3
MA 331	Applied Probability & Statistics	3
MA 320 or MA 321 or MA 4##	Introduction to Abstract Algebra or Differential Equations	3
ITE 305	Networking Fundamentals	2
ITE 306	Local Area Networks	2
ITE 327 & ITE 327L	Database Systems (and Lab)	3/1
ITE 420	Fundamentals of Information Security	3
- CS 340	Introduction to Assembly Language & Computer Organization	3
- CS 414	Programming Language	3
CS 415	Operating Systems	3
CS 472	Analysis of Algorithms	3
UNV 400	Career Seminar	1
CS 451 & CS 452	Software Engineering & Software Engineering Project	4/4
Required Concentration*	Required Concentration Courses*	Up to 21
Electives	Electives as needed to meet graduation requirements	As needed

A required concentration must be completed from the following options: Software & Systems, Cybersecurity, or Intelligent Systems.

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