Computer Science Major

B.S. in Computer Science - Curriculum Map 2019-2020 Catalog

Course	Cr.	Comp.	Course	Cr.	Comp.
FRESHMAN					
Fall			**Spring**		
CS 100 Foundations of Computer Science and Information Assurance	3		CS 140 Programming and Computing	4	
CS 111 Personal & Professional Cyber Safety	1		EN 102 Composition and Literature II	3	
EN 101 Composition and Literature I	3		MA 121 Calculus I (General Education Math)	4	
General Education History (http://catalog.norwich.edu/ residentialprogramscatalog/ generaleducationgoals)	3		General Education Arts & Humanities (http://catalog.norwich.edu/ residentialprogramscatalog/ generaleducationgoals)	3	
General Education Leadership (http://catalog.norwich.edu/ residentialprogramscatalog/ generaleducationgoals)	1-3		Free Elective	3	
MA 107 Precalculus Mathematics [1]	4				
Fall Semester Total Cr.:	15-17		Spring Semester Total Cr.:	17	
SOPHOMORE					
Fall			**Spring**		
CS 228 Introduction to Data Structures	3		CS 212 Assembly Language & Reverse Engineering	3	
EE 215 Fundamentals of Digital Design	4		CS 260 Data Communications and Networks	3	
General Education Lab Science (http://catalog.norwich.edu/ residentialprogramscatalog/ generaleducationgoals)	4		General Education Lab Science (http://catalog.norwich.edu/ residentialprogramscatalog/ generaleducationgoals)	4	
MA 122 Calculus II (General Education Math)	4		QM 213 Business and Economic Statistics I	3	
Free Elective	3		Free Elective	3	
Fall Semester Total Cr.:	18		Spring Semester Total Cr.:	16	
JUNIOR					
Fall			**Spring**		
CS 301 Software Engineering	3		CS 240 Database Management	3	
EE 321 Embedded Systems	4		CS 270 Operating Systems & Parallelism	3	
MA 306 Discrete Mathematics	3		MA 380 Theory of Computation	3	
Technical Elective [2]	3		Technical Elective [2]	3	
Free Elective	3		Free Elective	3	
Fall Semester Total Cr.:	16		Spring Semester Total Cr.:	15	
SENIOR					
Fall			**Spring**		
CS 420 Computer Science capstone I or 430 Computer Science Undergraduate Thesis I	3		CS 421 Computer Science capstone II or 431 Computer Science Undergraduate Thesis II	3	
PH 303 Survey of Ethics (General Education Ethics) or 322 Money, Meaning and Morality	3		General Education Social Science (http://catalog.norwich.edu/ residentialprogramscatalog/ generaleducationgoals)	3	
General Education Literature (http://catalog.norwich.edu/ residentialprogramscatalog/ generaleducationgoals)	3		Mathematics Elective [3]	3	
Technical Elective [2]	3		Technical Elective [2]	3	
Free Elective	3		Free Elective	3	
Fall Semester Total Cr.:	15		Spring Semester Total Cr.:	15	
TOTAL CREDITS FOR THIS MAJOR: 127-129					

1   Requires a math placement score of 2. Students scoring below 2 must successfully complete the appropriate necessary prerequisite math courses first. With a math placement score of 3, the MA107 requirement may be waived and the credit hours replaced with a free elective.

2   Any non-duplicate course from CS (higher than CS 300), from DF (DF 242 or higher), from EE (EE 200 or higher), or from IA (IA 241 or higher)

3   MA 223, MA 224, MA 240, MA 241, MA 309, MA 318, or MA 421