

Computer Science Major

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

Print as PDF Curriculum Map (http://catalog.norwich.edu/residentialprogramscatalog/currmaps/cs/Comp_Sci.pdf)

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/archives/2019-20/residentialprogramscatalog/generaleducationgoals)	3	General Education Arts & Humanities (http://catalog.norwich.edu/archives/2019-20/residentialprogramscatalog/generaleducationgoals)	3
General Education Leadership (http://catalog.norwich.edu/archives/2019-20/residentialprogramscatalog/generaleducationgoals)	1-3	Free Elective	3
MA 107 Precalculus Mathematics ¹	4		
Fall Semester Total Cr.:		Spring Semester Total Cr.:	
15-17		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/archives/2019-20/residentialprogramscatalog/generaleducationgoals)	4	General Education Lab Science (http://catalog.norwich.edu/archives/2019-20/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.:		Spring Semester Total Cr.:	
18		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.:		Spring Semester Total Cr.:	
16		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/archives/2019-20/residentialprogramscatalog/generaleducationgoals)	3
General Education Literature (http://catalog.norwich.edu/archives/2019-20/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.:		Spring Semester Total Cr.:	
15		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 (<http://catalog.norwich.edu/archives/2019-20/search/?P=CS%20300>)), from DF (DF 242 (<http://catalog.norwich.edu/archives/2019-20/search/?P=DF%20242>) or higher), from EE (EE 200 (<http://catalog.norwich.edu/archives/2019-20/search/?P=EE%20200>) or higher), or from IA (IA 241 (<http://catalog.norwich.edu/archives/2019-20/search/?P=IA%20241>) or higher)
- 3 MA 223, MA 224, MA 240, MA 241, MA 309, MA 318, or MA 421