Computer Science Major

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

B.S. in Computer Science - Curriculum Map 2017-2018 Catalog

Freshman			
Fall	**Cr.**	**Spring**	**Cr.**
CS 100 Foundations of Computer Science and Information Assurance	3	CS 140 Programming and Computing	4
EN 101 Composition and Literature I	3	EN 102 Composition and Literature II	3
MA 107 Precalculus Mathematics[1]	4	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
		Free Elective	3
Semester Total Credits	13	Semester Total Credits	17
Sophomore			
Fall	**Cr.**	**Spring**	**Cr.**
CS 228 Introduction to Data Structures	3	CS 240 Database Management	3
EE 215 Fundamentals of Digital Design	4	CS 212 Assembly Language & Reverse Engineering	3
General Education Lab Science (http://catalog.norwich.edu/residentialprogramscatalog/generaleducationgoals)	4	QM 213 Business and Economic Statistics I	3
MA 122 Calculus II (General Education Math)	4	General Education Lab Science (http://catalog.norwich.edu/residentialprogramscatalog/generaleducationgoals)	4
Free Elective	3	Free Elective	3
Semester Total Credits	18	Semester Total Credits	16
Junior			
Fall	**Cr.**	**Spring**	**Cr.**
CS 301 Software Engineering	3	CS 260 Data Communications and Networks	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
Semester Total Credits	16	Semester Total Credits	15
Senior			
Fall	**Cr.**	**Spring**	**Cr.**
CS 420 Computer Science capstone I or 430	3	CS 421 Computer Science capstone II or 431	3
PH 303 Survey of Ethics (General Education Ethics)	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
Semester Total Credits	15	Semester Total Credits	15
Total Credits For This Major: 125			

[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 (higher than EE 200), or from IA (IA 241 or higher)

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