

Computer Science Major

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B.S. in Computer Science - Curriculum Map 2016-2017 Catalog

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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
General Education History	3	MA 121 Calculus I (General Education Math)	4
MA 107 Precalculus Mathematics ¹	4	General Education Arts & Humanities	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	4
EE 215 Fundamentals of Digital Design	4	CS 212 Assembly Language & Reverse Engineering	3
General Education Lab Science	4	General Education Lab Science	4
MA 122 Calculus II (General Education Math)	4	QM 213 Business and Economic Statistics I	3
Free Elective	3	Free Elective	3
Semester Total Credits	18	Semester Total Credits	17
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 Computer Science Undergraduate Thesis I	3	CS 421 Computer Science Capstone II or 431 Computer Science Undergraduate Thesis II	3
General Education Literature	3	General Education Social Science	3
PH 303 Survey of Ethics or 322 Business Ethics (General Education Ethics)	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: 126			

¹ Requires math placement score of 2. Students scoring below 2 must complete the appropriate necessary prerequisite math courses first. Waived with math placement score of 3

² CS 302 or higher, or IA 241 or higher, or DF 241 or higher, or EE 201 or higher

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