B.S. in Computer Science-Mathematics
Degree Requirements (120 credits) (Revised Spring'18)

For Students matriculating on or after Fall 2018

General Education Requirements (42 credits)	**Credits**
Required Common Core	12
Flexible Common Core	18
College Options	12

See Attachment for Recommended and suggested courses in this category.

Pre-Computer Science Sequence (4 credits)

CSC 126	Introduction to Computer Science	4

Note: A grade of C or above in CSC 126 is required to be admitted to the Computer Science-Mathematics Baccalaureate program. Students will be allowed to repeat the course if necessary.

Pre-Major Requirements (26-26 credits)[1] (should be completed prior to their junior year.)

MTH 229	Calculus Computer Laboratory	1
MTH 231	Analytic Geometry and Calculus I	3
MTH 232	Analytic Geometry and Calculus II	3
MTH 233	Analytic Geometry and Calculus III	3
	Total	10 credits

OR

MTH 229	Calculus Computer Laboratory	1
MTH 230	Calculus I with Pre-Calculus	6
MTH 232	Analytic Geometry and Calculus II	3
MTH 233	Analytic Geometry and Calculus III	3
	Total	13 credits

AND

CSC 220	Computers & Programming	4
CSC 211	Intermediate Programming	4
		Total 8 credits

AND

Two courses with laboratories chosen from one of the following sequences:		8
BIO 170-171, 180-181	General Biology I and II with laboratories	
CHM 141-121,142-127	General Chemistry I and II with laboratories	
PHY 120-121, 160-161	General Physics I and II with laboratories	
GEO 100-101, 102-103	Physical and Historical Geology with laboratories	
AST 120-160	Space Science I and II with laboratories	

1. Courses used to fill Pre-Major requirements can be used to fulfill Gen-Ed requirements.

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Major Requirements (52 credits)			**Credits**
MTH/CSC 228	Discrete Mathematical Structures	4	

Computer Science: (24 credits)

CSC 326	Information Structures	4
CSC 330	Systems Programming; Concepts of Software Design	4
CSC 346	Switching and Automata Theory	4
CSC 382	Analysis of Algorithms	4
Any two 400 level CS advanced electives		**8**
	Total	24 credits

Mathematics: (24 credits)

MTH 301	Introduction to Mathematical Proof	4
MTH 311	Probability Theory and an Introduction to Mathematical Statistics	4
MTH 335	Numerical Analysis	4
MTH 338	Linear Algebra	4
Any two of the following Mathematics courses		**8**
MTH 330	Applied Mathematical Analysis I	4
MTH 337	Applied Combinatorics and Graph Theory	4
MTH 339	Abstract Algebra I	4
MTH 341	Advanced Calculus I	4
MTH 347	Number Theory	4
MTH 349	Cryptology	4
MTH 350	Mathematical Logic	4
MTH 370	Operations Research	4
MTH 410	Mathematical Statistics I	4

Electives (0-10 credits) **See the 8 semester Sample Schedule**

Total (120 credits)