

Mathematics, BS with Advanced Mathematics concentration

First Year

Fall	Credit Hours	Spring	Credit Hours
MAT 190 Precalculus (MAC competency 4)	4	MAT 196 Calculus A (MAC competency 4)	4
MAC competency 1 - Foundations (recommended MAT 105)	3	Programming course. Choose from CSC 120, 130, or 230	3
Two MAC competencies	6	Two MAC competencies	6
Additional language requirement	3	Additional language requirement	3
	16		16

Second Year

Fall	Credit Hours	Spring	Credit Hours
MAT 296 Calculus B	4	MAT 396: Calculus C	3
MAT 253 Discrete Mathematical Structures	3	Science I, one from: BIO 111/111L (MAC 8), CHE 111/112 (MAC 11), PHY 291/291L (MAC 11), ECO 201 (MAC 7), CSC 220 or 230	4
Two MAC Competencies	6	STA 290 Introduction to Probability and Statistical Inference	3
Additional language requirement	3	MAT 310 Elementary Linear Algebra	3
		Additional language requirement (MAC competency 9)	3
	16		16

Third Year

Fall	Credit Hours	Spring	Credit Hours
MAT 311 Introduction to Abstract Algebra	3	MAT 395 Introduction to Mathematical Analysis	3
MAT 390 Ordinary Differential Equations	3	One from: MAT or STA 300 level or above, CSC 452, 454	3
Science II, one from: BIO 112/112L (MAC 11), CHE 114/115 (MAC 8), PHY 292/292L (MAC 11), ECO 202 (MAC 7), CSC 330	4	CIC Breadth of Knowledge course	3
Two CIC Breadth of Knowledge courses	6	CIC College Writing course (MAT 313 recommended)	3
		General elective	3
	16		15

Fourth Year

Fall	Credit Hours	Spring	Credit Hours
MAC competency	3	One from: MAT 422* or 425* or 440*	3
MAT 490 Senior Seminar (CIC College Writing)	3	One from: MAT or STA 300 level or above, CSC 452, 454	3
One from: MAT or STA 300-level or above, CSC 452, 454	3	MAT 400 level	3
Two general electives	6	General elective	3
	15		12

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