

## Math and Applied Math major requirements

	Math Major		Applied Math Major	
<b>Common courses</b>	MATH 232 Calculus II	4	MATH 232 Calculus II	4
	MATH 245 Linear Algebra	4	MATH 245 Linear Algebra	4
	MATH 331 Vector Calculus	2	MATH 331 Vector Calculus	2
	MATH 301 Intro to Math Major	2	MATH 301 Intro to Math Major	2
<b>Pure math courses</b>	MATH 341 Algebra I	4	MATH 341 Algebra I	(Choose one)
	MATH 351 Analysis I	4	MATH 351 Analysis I	4
<b>Applied courses</b>	MATH 333 Differential Equations	(Choose one) 4	MATH 333 Differential Equations	4
	MATH 364 Math Modeling		MATH 363 Prob & Stat I	4
	MATH 385 Applied Topics*		MATH 463 Prob & Stat II	4
	MATH 463 Prob & Stat II		MATH 364 Math Modeling	(Choose one)
	CSCI 345 Data Structures		MATH 385 Applied Topics*	4
<b>Electives</b>	MATH 243 Discrete Math	(Choose two) 8		(Choose one) 2 or 4
	MATH 352 Complex Analysis			
	MATH 362 Geometry			
	MATH 363 Prob & Stat I			
	MATH 441 Algebra II			
	MATH 451 Analysis II			
	MATH 485 Advanced Topics*			
	MATH 493 Mentoring Seminar*			
Or any other applied course				
<b>CS course</b>	CSCI 235 Programming I	(Choose one) 4		4
	CSCI 243 Discrete Math			
	CSCI 245 Programming II			
<b>Supporting course</b>		(Choose one) 4	PHYS 231 Physics	(Choose one) 4
	PHYS 231 Physics		CHEM 231 Chemistry	
	CSCI 243 Discrete Math		GEOG 221 Physical Geology	
			ENVR 241 Quantitative Methods	
			BIOL 241 Genetics and Cell Bio	
	BEC 376 Game Theory			
<b>Project/ Capstone</b>	MATH 494 Capstone	4	MATH 302 Applied Project	2
			MATH 494-2 Capstone	2
	TOTAL	44	TOTAL	46 or 48

Note: Courses indicated with a \* are Topics courses. Topics vary and are announced one or two semesters ahead of time. These course may be repeated multiple times with different topics.