

### Curriculum Map – Mathematics Major: Actuarial Track

NOTE: This curriculum map assumes that you have not transferred in any previously completed college level courses. Further, it assumes that you have met all of the prerequisites for the courses listed below. The prerequisite for MATH 175: Calculus I is a Math ACT subscore of 27 or Calculus KYOTE score of 15.

All baccalaureate degree seeking students must complete a minimum of 33 hours of general education courses which includes: FYS 101 – First Year Seminar  
 MATH 123, 131, 135, 152, 174 or 175\*  
 COMS 108 – Fund. Of Speech Communication  
 Knowledge – Arts & Humanities (HUM)  
 Knowledge – Social & Behavioral Sciences (SBS)  
 ENG 100 – Writing I  
 ENG 200 – Writing II  
 Knowledge – Natural Science (NSC; select 2)  
 Global Cultures – Arts & Humanities (HUM)  
 Ethics & Civic Engagement – Social & Behavioral Sciences (SBS)

The approved NSC, HUM, and SBS approved course list is located in the current MSU Undergraduate Catalog.

\*If applicable, the specific mathematics course required for degree shown below.

FIRST YEAR COURSE SCHEDULE								
✓	Fall Semester	Code	Credits		✓	Spring Semester	Code	Credits
	MATH 170: Intro to Comp. Sci.	R	4			ENG 200: Writing II	G	3
	ENG 100: Writing I	G	3			Level 2 HUM	G	3
	MATH 175: Calculus I	G	4			MATH 275: Calculus II	R	4
	FYS 101: First Year Seminar	G	3			COMS 108: Fundamentals of Speech	G	3
						Level 2 NSC I	G	3
<b>Total Credit Hours</b>			14		<b>Total Credit Hours</b>			16

SECOND YEAR COURSE SCHEDULE								
✓	Fall Semester	Code	Credits		✓	Spring Semester	Code	Credits
	MATH 276: Calculus III	R	4			MATH 301: Elementary Linear Algebra	R/U	3
	MATH 300: Intro.to Math. Proofs	R/U	3			ACCT 281: Principles of Financial Acct.	R	3
	Level 2 SBS: ECON 201	G	3			MATH 295: Math. Comm. II	R	1
	Level 3 Ethics and Civic Engagement	G	3			Level 3 HUM: UTCH 250	G	3
	Level 2 NSC 2	G	3			Elective	R	3
	MATH 195: Math. Comm. I	R	1			Minor	R	3
<b>Total Credit Hours</b>			17		<b>Total Credit Hours</b>			16

THIRD YEAR COURSE SCHEDULE								
✓	Fall Semester	Code	Credits		✓	Spring Semester	Code	Credits
	ACCT 282: Princ. of Manag. Acct.	R	3			FIN 360: Business Finance	R/U	3
	MATH 308: Discrete Mathematics	R/U	3			MATH 365: Introduction to Math. Stats	R/U	3
	MATH 345: Probability for Actuarial I	R/U	3			Minor	R	3
	Minor	R	3			Minor	R	3
	ECON 202: Principles of Microeconomics	R	3			MATH 346: Probability for Actuarial II	R/U	3
<b>Total Credit Hours</b>			15		<b>Total Credit Hours</b>			15

FOURTH YEAR COURSE SCHEDULE								
✓	Fall Semester	Code	Credits		✓	Spring Semester	Code	Credits
	Minor	R/U	3			Free Elective	E	3
	Minor	R/U	3			MATH 315: Functions and Modeling	R/U	3
	Minor	R/U	3			MATH 340: Financial Math for Actuaries	R/U	3
	FIN 373: Investments	R/U	3			Free Elective	E	3
	MATH 499C: Senior Thesis I	R/U	2			MATH 499D: Senior Thesis II	R/U	1
<b>Total Credit Hours</b>			14		<b>Total Credit Hours</b>			13

(E) Elective,  
 (P) Pre-requisite

(G) General Education Course  
 (R) Required Course

(S) Supplemental  
 (U) Upper Division Course 300-400 level (you must have 42 hours)