

Curriculum Map – Mathematics Major: Computational 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 students must have 36 hours of general education courses which include:

FYS 101 ENG 100 ENG 200 COMS 108 MATH 131/135/152/174/175 Capstone

One 3 credit hour course from each of the following categories:

HUM I HUM II SBS I SBS II NSC I NSCII

The approved course list may be accessed on the General Education site (log into MyMoreheadState and then open the “Academics” tab).

Mathematics Major: Computational Track

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

SECOND YEAR COURSE SCHEDULE								
☐	Fall Semester	Code	Credits		☐	Spring Semester	Code	Credits
	MATH 276: Calculus III	R	4			MATH 301: Elem. Linear Algebra	R/U	3
	MATH 300: Intro. to Math. Proofs	R/U	3			PHYS 270: Intro. to Sci. Computing	R	3
	MATH 315: Functions and Modeling	R/U	3			SBS II	G	3
	SBS I	G	3			UTCH 250: Persp. on Sci. and Math (Hum II exchange)	G	3
	NSC II	G	3			Minor course	R/U	3
	MATH 195: Math. Comm. I	R	1			MATH 295: Math. Comm. II	R	1
Total Credit Hours			17		Total Credit Hours			16

THIRD YEAR COURSE SCHEDULE								
☐	Fall Semester	Code	Credits		☐	Spring Semester	Code	Credits
	MATH 308: Discrete Mathematics	R/U	3			Elective	E	3
	MATH 365: Intro to Math. Stats	R/U	3			Elective	E	3
	MATH 312: Num. Methods or PHYS 381: Comp. Sol. to Eng./Sci.	R/U	3			MATH 320: Codes and Cryptography	R/U	3
	Minor course	R	3			Minor course	R	3
	Minor course	R	3			Elective	E	3
Total Credit Hours			15		Total Credit Hours			15

FOURTH YEAR COURSE SCHEDULE								
☐	Fall Semester	Code	Credits		☐	Spring Semester	Code	Credits
	Elective	E	3			Elective	E	3
	MATH 499C: Senior Thesis I	G/U	2			MATH 499D: Senior Thesis II	G/U	1
	MATH 400	R/U	3			Minor course	R/U	3
	Minor course	R/U	3			Elective	E	3
	Minor course	R/U	3			Elective	E	3
Total Credit Hours			14		Total Credit Hours			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)