

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 33 hours of general education courses which include:

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

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 | | | Level 2 HUM | G | 3 |
| | ENG 100: Writing I | G | 3 | | | Level 2 NSC 1 | 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 181: Intro. to Sci. Computing | R | 3 |
| | Minor course | R/U | 3 | | | Level 3 Ethics and Civic Engagement SBS | G | 3 |
| | Level 2 SBS | G | 3 | | | Level 3 HUM: UTCH 250: Persp. on Sci. and Math | G | 3 |
| | Level 2 NSC 2 | G | 3 | | | MATH 315: Functions and Modeling | 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 | R/U | 2 | | | MATH 499D: Senior Thesis II | R/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)