## ACADEMIC ROADMAP

Math Education 5-12 Majors

## Freshman Year (34 credits)

FIRST SEMESTER

| Course Title | Catalog Number | Prerequisite(s) |
| :--- | :--- | :--- |
| College Writing I (3) | CWP 101 |  |
| Calculus I (4) | MAT 161 | MAT 124 or HS equivalent |
| Using Technology to Explore <br> Calculus (1) | MAT 163 |  |
| IF Diversity: Nature \& Needs of <br> Individuals with Special Needs <br> (3) | EXE 100 |  |
| IF Art (3) |  |  |
| IF Humanities (3) |  |  |

SECOND SEMESTER

| Course Title | Catalog Number | Prerequisite(s) |
| :--- | :--- | :--- |
| College Writing II (3) | CWP 102 | CWP 101 |
| Calculus II (4) | MAT 162 | MAT 161 |
| Using Technology to Explore <br> Calculus (1) | MAT 164 | MAT 163 |
| Introduction to Linear Algebra <br> (3) | MAT 202 | MAT 161 |
| IF Social Science (3) |  |  |
| IF Natural Science (3) |  |  |

## Notes and recommendations:

Total 17 credit hours for both first and second semesters.

## Sophomore Year (63 credits)

THIRD SEMESTER

| Course Title | Catalog Number | Prerequisite(s) |
| :--- | :--- | :--- |
| Calculus III (4) | MAT 263 | MAT 162 |
| Using Technology to Explore <br> Calculus (1) | MAT 264 | MAT 164 |
| Discrete Math (3) | MAT 270 | MAT 161 |
| Foundations of Teaching <br> Mathematics 7-12 and Field <br> Experience (3) | MED 200 | MAT 161 |
| IF Western Civilization (3) |  |  |

FOURTH SEMESTER

| Course Title | Catalog Number | Prerequisite(s) |
| :--- | :--- | :--- |
| Probability and Statistics (3) | MAT $325^{2}$ | MAT 162, MAT 270 |
| Learning and Teaching Problem <br> Solving (3) | MED 383 | MAT 162, MAT 270, CWP 102 |
| Techniques of Proof (3) | MAT 300 | MAT 270 |
| Upper Div. Math Elective (3) |  |  |
| IF Non-Western Civilization (3) |  |  |

Notes and recommendations:
${ }^{1}$ MED200 Fall semester only, ${ }^{2,3}$ MAT325 and MED383 spring semester only
Junior Year (93 credits)
FIFTH SEMESTER

| Course Title | Catalog Number | Prerequisite(s) |
| :--- | :--- | :--- |
| Modern Geometry (3) | MAT 322 | MAT 270 |
| Educational Psychology (3) | SPF 303 |  |
| Teaching Literacy (3) | EDU 416 |  |
| Number Theory (3) | MAT 351 |  |
| IF American History (3) |  |  |

SIXTH SEMESTER

| Course Title | Catalog Number | Prerequisite(s) |
| :--- | :--- | :--- |
| Fundamentals of Abstract <br> Algebra (3) | MAT 301 $^{5}$ | MAT 300 |
| Uses of Technology in Teaching <br> Math (3) | MED 307 | Upper-division status |
| Human Dev. Early Adoles. (3) | SPF 353 |  |
| Adolescent Literacy (3) | EDU 417 | EDU 416 |
| Methods Teach Math in MS (3) | MED 309 |  |

## Notes and recommendations:

${ }^{4}$ MAT322 offered fall semester only; ${ }^{5,6}$ MAT 301, MED 307, MED 309 offered spring semester only.

## Senior Year (120 credits)

SEVENTH SEMESTER

| Course Title | Catalog Number | Prerequisite(s) |
| :--- | :--- | :--- |
| Field Experience: Methods of <br> Teaching Secondary <br> Mathematics (3) | MED 300 | Math GPA 2.75+ and MED 307 |
| Methods of Teaching Secondary <br> Mathematics (3) | MED 308 |  |
| Intro to Real Analysis (3) | MAT 417 |  |
| Upper Div. Math Elective (3) |  | Math GPA 2.75 and MED 307 |
| Open Elective (3) |  | MAT 300 |

EIGHTH SEMESTER

| Course Title | Catalog Number | Prerequisite(s) |
| :--- | :--- | :--- |
| Student Teaching Math in JR <br> HI/MS (6) | MED 407 |  |
| Student Teaching in SR HS (6) | MED 408 |  |
|  |  |  |
|  |  |  |
| No other courses allowed during <br> student teaching |  |  |

## Notes and recommendations:

${ }^{7,8}$ MED 300 and MED 308 are taken concurrently, and only offered in fall semesters. Email instructor for permission to enroll in class. ${ }^{9}$ MAT 417 offered fall semester only.

