

# **Plan of Study**

### **Mathematics**

Intermediate Education Specialization

Catalog Year: 2022 - 2023

**Sample Schedule:** Students are not limited to this plan; it is meant to serve as a guide for planning purposes in discussions with your academic advisor. This plan is one possible path to completing this degree in *four years*.

# **FIRST YEAR**

### **First Semester**

| Course                             | Prerequisites / Comments       | Credits | Semester(s) Offered |
|------------------------------------|--------------------------------|---------|---------------------|
| CSC 105 Intro to Computers         | K-12 Ed Tech Minor Requirement | 3       | F/S                 |
| ENGL 101-Composition I             |                                | 3       | F/S/SU              |
| EPSY 210 Lifespan Development      | Goal 3 General Ed & COE Req.   | 3       | F/S/SU              |
| GS 100: University Experience Math |                                | 0       | F                   |
| MATH 123—Calculus I                |                                | 4       | F/S                 |
| Oral Communication Requirement     |                                | 3       | F/S                 |
|                                    | Total Credit Hours             | 16      |                     |

### **Second Semester**

| Course  | Prerequisites / Comments       | Credits | Semester(s) Offered |
|---|--------------------------------|---------|---------------------|
| Arts and Humanities Elective #1                 |                                | 3       | F/S                 |
| CIS 123, CIS 130, or CSC 150                    | K-12 Ed Tech Minor Requirement | 3       | F/S                 |
| MATH 201 Intro to Discrete Math                 | MATH 114, 120, or 123          | 3       | F/S/SU              |
| SGR Written Communications (ENGL 201)           | Goal 1 General Education       | 3       | F/S                 |
| SPED 100 Intro to Persons with Exceptionalities |                                | 3       | F/S/SU              |
|   | Total Credit Hours             | 15      |                     |

# **SECOND YEAR**

#### **Third Semester**

| Course                                    | Prerequisites / Comments         | Credits | Semester(s) Offered |
|---|----------------------------------|---------|---------------------|
| Arts and Humanities #2 (different prefix) | Goal 4 General Education         | 3       | F/S                 |
| EDFN 338 Foundations of American Ed       | College of Education Requirement | 2       | F/S/SU              |
| MATH 361 Geometry or                      | Interm. Math Specialization Req. | 3       | F Even Years        |
| MATH 316 Discrete Mathematics             | Math Requirement                 | 3       | F/S                 |
| MATH 341 Math Concepts I                  | Interm. Math Specialization Req. | 3       | F/S/SU              |
| Natural Sciences #1                       | Goal 6 General Education         | 3-4     | F/S                 |
|   | Total Credit Hours               | 14-15   |                     |

### **Fourth Semester**

| Course                                | Prerequisites / Comments         | Credits | Semester(s) Offered |
|---------------------------------------|----------------------------------|---------|---------------------|
| EPSY 302 Lifespan Development         | College of Education Requirement | 3       | F/S/SU              |
| SEED 301 Technology for Math Teachers | Interm. Math Specialization Req. | 3       | S                   |
| MATH 281 Statistics or                | Math Requirement                 | 3       | F/S                 |
| MATH 315 Linear Algebra               | Math Requirement                 | 3       | S                   |
| Natural Sciences #2                   | Goal 6 General Education         | 3       | F/S                 |
| SEED 295 Practicum: Pre-Admission     | College of Education Requirement | 1       | F/S                 |
| General Elective Credits              |                                  | 3-4     |                     |
|                                       | Total Credit Hours               | 16-17   |                     |
|                                       |                                  |         |                     |

# THIRD YEAR

#### **Fifth Semester**

| Course                              | Prerequisites / Comments              | Credits | Semester(s) Offered |
|-------------------------------------|---------------------------------------|---------|---------------------|
| CIS 350 Computer Hardware           | K-12 Ed Tech Minor Requirement        | 3       | F/S                 |
| INED 211 SD American Indian Culture | Goal 3 of General Ed & COE Req.       | 3       | F/S/SU              |
| MATH 361 Geometry or                | Intermediate Math Specialization Req. | 3       | F Even Years        |
| MATH 316 Discrete Mathematics       | Math Requirement                      |         | F/S                 |
| MATH 342 Math Concepts II           | Intermediate Math Specialization Req. | 3       | F/S                 |
| MATH 488 Capstone                   | Intermediate Math Specialization Req. | 1       | F                   |
| SEED 302 Sec/Middle Content Methods | College of Education Requirement      | 2       | F                   |
|                                     | Total Credit Hours                    | 15      |                     |

### **Sixth Semester**

| Course                                    | Prerequisites / Comments              | Credits | Semester(s) Offered |
|---|---------------------------------------|---------|---------------------|
| CIS 206, 207, 208, 209, 210 (choose 3)    | K-12 Tech Minor Requirement           | 3       | F/S/SU              |
| EDFN 300 Survey of Middle Level Education | Intermediate Math Specialization Req. | 1       | F/S/SU              |
| EDFN 365 Computer Based Technology        | K-12 Tech Minor Requirement           | 3       | F/S/SU              |
| ELED 422 K-8 Science and Math Technology  | Intermediate Math Specialization Req. | 2       | F/S                 |
| MATH 281 Statistics or                    | Math Requirement                      | 2       | F/S                 |
| MATH 315 Linear Algebra                   | Math Requirement                      | 3       | S                   |
| General Elective Credits                  |                                       | 3-4     |                     |
|   | Total Credit Hours                    | 15-16   |                     |

# **FOURTH YEAR**

### **Seventh Semester**

| Course                                | Prerequisites / Comments    | Credits | Semester(s) Offered |
|---------------------------------------|-----------------------------|---------|---------------------|
| EDER 415 Educational Assessment       | K-12 Tech Minor Requirement | 2       | F/S                 |
| SEED 440 Classroom Management         | COE Requirement             | 2       | F/S                 |
| SEED 450 Reading and Content Literacy | COE Requirement             | 3       | F/S/SU              |
| SEED 488 7-12 Student Teaching        | COE Requirement             | 2       | F/S                 |
| General Elective Credits              |                             | 3       |                     |
|                                       | Total Credit Hours          | 12      |                     |

## **Eighth Semester**

| Course                                | Prerequisites / Comments    | Credits | Semester(s) Offered |
|---------------------------------------|-----------------------------|---------|---------------------|
| EDFN 475 Human Relations              | COE Requirement             | 3       | F/S/SU              |
| SEED 401 Methods of Educational Tech. | K-12 Tech Minor Requirement | 1       | F/S                 |
| SEED 488 7-12 Student Teaching        | COE Requirement             | 6       | F/S                 |
| General Elective Credits              |                             | 3-6     |                     |
|                                       | Total Credit Hours          | 13-16   |                     |

P = Course Prerequisite

Semester: F = Fall; S = Spring; SU = Summer

Information and course schedules may change. This is not a contract.