

**MATHEMATICS: SECONDARY EDUCATION  
2018-2019 Election of Major**

Name \_\_\_\_\_ ID # \_\_\_\_\_

Planned Degree Completion Date: Mo. \_\_\_\_\_ Yr. \_\_\_\_\_

Check Degree Plan: \_\_\_\_\_ BA \_\_\_\_\_ BS

**MATHEMATICS REQUIREMENTS**

**Analytic Geometry and Calculus**

- |          |                        |      |           |
|----------|------------------------|------|-----------|
| MATH 121 | Calculus I             | C-1Q | (4) _____ |
| MATH 122 | Calculus II            |      | (4) _____ |
| MATH 231 | Multivariable Calculus |      | (4) _____ |
| MATH 421 | Real Analysis          |      | (3) _____ |

**Abstract and Linear Algebra**

- |          |                      |  |           |
|----------|----------------------|--|-----------|
| MATH 251 | Linear Algebra I     |  | (4) _____ |
| MATH 433 | Algebraic Structures |  | (4) _____ |

**Probability and Statistics**

- |          |                         |  |           |
|----------|-------------------------|--|-----------|
| MATH 240 | Mathematical Statistics |  | (4) _____ |
|----------|-------------------------|--|-----------|

**Geometry (including non-Euclidean and transformational)**

- |          |          |  |           |
|----------|----------|--|-----------|
| MATH 306 | Geometry |  | (3) _____ |
|----------|----------|--|-----------|

**Mathematical Models, Applied Mathematics or Computer Science**

- |          |                      |  |           |
|----------|----------------------|--|-----------|
| MATH 130 | Discrete Mathematics |  | (4) _____ |
|----------|----------------------|--|-----------|

**Senior Research**

- |          |                                   |  |           |
|----------|-----------------------------------|--|-----------|
| MATH 440 | Secondary Mathematics Methods (W) |  | (3) _____ |
|----------|-----------------------------------|--|-----------|

**Electives**

Six semester hours from:

- |          |                                 |  |             |
|----------|---------------------------------|--|-------------|
| MATH 233 | Scientific Computing            |  | (3) _____   |
| MATH 245 | Ordinary Differential Equations |  | (3) _____   |
| MATH 330 | Operations Research Models      |  | (3) _____   |
| MATH 340 | Linear Algebra II               |  | (3) _____   |
| MATH 380 | Special Problems                |  | (1-3) _____ |
| MATH 385 | Seminar                         |  | (1-3) _____ |
| MATH 214 | History of Mathematics          |  | (3) _____   |
| CPTR 310 | Algorithms and Data Structures  |  | (3) _____   |

**PROFESSIONAL EDUCATION**

- |          |  |       |           |
|----------|--|-------|-----------|
| EDUC 111 | Exploring Teaching and Learning          |       | (3) _____ |
| EDUC 211 | The Exceptional Learner                  |       | (4) _____ |
| EDUC 237 | Educational Psychology                   | C-4HD | (4) _____ |
| EDUC 245 | Educational Assessment                   |       | (4) _____ |
| EDUC 342 | Literacy in the Content Area             |       | (4) _____ |
| EDUC 357 | Classroom Management/Conflict Resolution |       | (4) _____ |
| EDUC 362 | Literacy and English Language Learners   |       | (2) _____ |
| EDUC 444 | Methods for Secondary Education          |       | (4) _____ |
| EDUC 410 | The Teacher in Today's School            |       | (2) _____ |
| EDUC 475 | High School Student Teaching             |       | (7) _____ |
| EDUC 477 | Jr High/Middle School Student Teaching   |       | (6) _____ |

**CORE Program**

**1 Foundational Skills**

- |   |           |
|---|-----------|
| 1FS: FYS First Year Seminar               | (3) _____ |
| 1FS: FYE First Year Experience            | (1) _____ |
| 1O: COMM 110 Found of Human Communication | (3) _____ |
| 1Q: MATH 113 or 115 or 121 or 210         | (3) _____ |

**2 Physical Activity and Wellness**

- |   |            |
|---|------------|
| PE 106: Fitness Decisions for a Healthy Lifestyle | (1) _____  |
| PE Activity _____                                 | (.5) _____ |
| PE Activity _____                                 | (.5) _____ |

**3 Integration Into the World (3 courses)**

- |                                    |           |
|------------------------------------|-----------|
| 3RC: Responsible Citizenship _____ | ( ) _____ |
| 3GC: Global Connections: _____     | (3) _____ |
| 3RC or 3GC: _____                  | (3) _____ |

**4 Ways of Knowing (9 courses)**

- Philosophical, Religious and Creative Inquiry (1 course in each category)
- |                                       |           |
|---------------------------------------|-----------|
| 4RL: Religion _____                   | ( ) _____ |
| 4PH: Philosophy _____                 | ( ) _____ |
| 4AR: Visual and Performing Arts _____ | ( ) _____ |
| 4LT: Literature _____                 | ( ) _____ |
- Human Behavior and Institutions (3 courses, each in a different discipline)
- |               |           |
|---------------|-----------|
| 4HD: EDUC 237 | X         |
| 4H __: _____  | ( ) _____ |
| 4H __: _____  | ( ) _____ |
- Natural World (2 courses, each in a different discipline)
- |              |           |
|--------------|-----------|
| 4N __: _____ | ( ) _____ |
| 4N __: _____ | ( ) _____ |

**5 Synthesis & Critical Connections (1 course & VIA)**

- |   |           |
|---|-----------|
| 5CC: Critical Connections: INTD _____                       | ( ) _____ |
| VIA (see requirements in <i>Catalog</i> ) up to (2) credits | _____     |

**Electives:**

- |       |           |
|-------|-----------|
| _____ | ( ) _____ |
| _____ | ( ) _____ |

**(A minimum of 120 credit hours required for graduation.) TOTAL \_\_\_\_\_**

**Bachelor of Arts requirements: Intermediate language proficiency at 200 level**

\_\_\_\_ Yes \_\_\_\_\_ No

**Required Signatures:**

**Student: I understand that I have final responsibility for monitoring my graduation requirements.**

**Student: \_\_\_\_\_ Date \_\_\_\_\_**

**Advisor: \_\_\_\_\_ Date \_\_\_\_\_**

**Dept. Chair: \_\_\_\_\_ Date \_\_\_\_\_**

**Dir. of Teacher Educ: \_\_\_\_\_ Date \_\_\_\_\_**