

**COMBINED BACHELOR OF SCIENCE IN MATHEMATICS  
 WITH A MAJOR IN SECONDARY EDUCATION  
 AND  
 MASTER OF EDUCATION IN SECONDARY EDUCATION  
 TEACHER LICENSURE FOR MATHEMATICS EDUCATION: GRADES 5-8 OR 8-12**

| GENERAL EDUCATION REQUIREMENTS   |  |   |     |                          |
|--|--|---|-----|--------------------------|
| <b>Competencies</b>  |  |   |     |                          |
| <input type="checkbox"/> ♦ Basic College Math  |  |   |     |                          |
| <input type="checkbox"/> ♦ Reading Comprehension   |  |   |     |                          |
| <b>♦General Education Categories - 34-35 credits</b>   |  |   |     |                          |
| ♦FYS   | First Year Seminar                           |   | 3   |                          |
| ♦W-I   | Written Communication - Level I              |   | 3   |                          |
| ♦OC  | Oral Communication                           |   | 3   |                          |
| PGR  | Personal Growth & Responsibility             |   | 3   |                          |
| CEA  | Creative Expression & Appreciation           |   | 3   |                          |
| WC   | World Cultures                               |   | 3   |                          |
| HP   | The Human Past                               |   | 3   |                          |
| CS   | Contemporary Society                         |   | 3   |                          |
| SR   | Scientific Reasoning:                        | # Any SR course                         | 3-4 |                          |
|  |  | # SR Lab course                         | 4   |                          |
| QR   | Quantitative Reasoning                       |   | 3   |                          |
| <b>‡ Written Communication (Level II and Level III) and Diversity, Power Dynamics and Social Justice</b>                               |  |   |     |                          |
| W-II   | Written Communication - Level II             |   |     | <input type="checkbox"/> |
| W-III  | Written Communication - Level III            |   |     | <input type="checkbox"/> |
| DPDS   | Diversity, Power Dynamics and Social Justice |   |     | <input type="checkbox"/> |
| <b>♥ Required Support Courses for Secondary Ed (6 credits)</b>   |  |   |     |                          |
| PSY  | 252  | Adolescent Psychology                   | 3   |                          |
| HST  | 204  | U.S. History and Constitutional Gov't I | 3   |                          |
| <b>Required Major: (Secondary Education):*</b><br>Required (33 Credits; courses with asterisk carry graduate and undergraduate credit) |  |   |     |                          |
| EDC  | 115  | Exploring Education                     | 3   |                          |
| EDC  | 404  | Introduction to Teaching                | 3   |                          |
| EDC  | 405  | Culturally Responsive Teaching          | 3   |                          |
| EDC  | 415  | Teaching Exceptional Learners           | 3   |                          |
| EDC  | 461  | Fieldwork Seminar I                     | 1.5 |                          |
| EDC  | 416  | Introduction to Assessment              | 3   |                          |
| EDC  | 462  | Fieldwork Seminar II                    | 1.5 |                          |
| *EDC   | 774  | Methods of Teaching Mathematics I       | 3   |                          |
| *EDC   | 760  | Adolescent Literacy in the Disciplines  | 3   |                          |
| *EDC   | 762  | Technology Methods                      | 1.5 |                          |
| *EDS   | 775  | Methods of Teaching Mathematics II      | 3   |                          |
| *EDS   | 860  | Sheltering Content for ELLs             | 3   |                          |
| *EDS   | 763  | Classroom Mgmt and Community Bldg       | 1.5 |                          |

| COURSES IN MAJOR (37 credits total)   |       |                                    |   |  |
|---|-------|------------------------------------|---|--|
| <b>Required (34 credits total)</b>  |       |                                    |   |  |
| MAT   | 218   | Intro to Mathematical Computing    | 1 |  |
| MAT   | 220   | Calculus I                         | 4 |  |
| MAT   | 221   | Calculus II                        | 4 |  |
| MAT   | 234   | Intro to Mathematical Proof        | 3 |  |
| MAT   | 240   | Linear Algebra                     | 3 |  |
| MAT   | 303A  | Abstract Algebra                   | 3 |  |
| MAT   | 320   | Calculus III                       | 4 |  |
| MAT   | 406   | Modern Geometry                    | 3 |  |
| MAT   | 407   | Probability and Math. Statistics I | 3 |  |
| MAT   | 411   | Real Analysis                      | 3 |  |
| MAT   | 490   | Senior Seminar                     | 3 |  |
| <b>Mathematical Sequence Elective (3 credits total)</b><br><b>Choose one of the following to complete a sequence:</b> |       |                                    |   |  |
| MAT   | 306   | Theory of Numbers                  | 3 |  |
| MAT   | 403   | Abstract Algebra II                | 3 |  |
| MAT   | 409   | Complex Variables                  | 3 |  |
| MAT   | 412   | Topology                           | 3 |  |
| MAT   | 414   | Linear Algebra II                  | 3 |  |
| MAT   | 417   | Probability and Statistics II      | 3 |  |
| <b>♦ Required Programmatic Assessments</b>  |       |                                    |   |  |
| EDA   | 901   | Prog Assess for Initial Ed Lic I   | 0 |  |
| EDA   | 902   | Prog Assess for Initial Ed Lic II  | 0 |  |
| EDA   | 903   | Prog Assess for Initial Ed Lic III | 0 |  |
| EDA   | 904   | Prog Assess for Initial Ed Lic IV  | 0 |  |
| EDA   | 905   | Prog Assess for Initial Ed Lic V   | 0 |  |
| <b>5<sup>th</sup> Year Courses (M.Ed.): (18 credits)</b>  |       |                                    |   |  |
| EDC   | 884PS | Practicum Seminar Tchg Math        | 3 |  |
| EDC   | 884P  | Stu Tchg Pract. Math (8-12)        | 3 |  |
|   |       | OR                                 |   |  |
| EDC   | 885P  | Stu Tchg Pract. Math (5--8)        |   |  |
| EDC   | 804   | School-Based Internship            | 3 |  |
| EDC   | 805   | Professional Lives of Teachers     | 3 |  |
|   |       | Elective                           | 3 |  |
|   |       | Elective                           | 3 |  |

♥ Students may choose to use support courses to satisfy general education categories but may not be required to do so. **Note:** If a course is used to satisfy two or more requirements (for example, a support course and Scientific Reasoning requirement), the credits are counted in only one place. Using a course to satisfy more than one requirement does **not** reduce the credit total required for graduation.

- ♣ Courses used to satisfy the general education requirements of the university must be taken from a minimum of six different academic disciplines. First Year Seminar and Level I Written Communications courses are exempt from this restriction. Courses may not be used to fulfill both major discipline and general education requirements.
- # These Scientific Reasoning General Education Category courses do not have to be a sequence or be from the same discipline
- ‡ Level II, Level III Written Communications and Diversity, Power Dynamics and Social Justice Courses may be used to satisfy requirements anywhere else in a student's program of study where they may apply. The credits are counted only in one area.
- ♦ Programmatic Assessments are required for all students pursuing educational licensure in a specified sequence. Results will be factored into gateway reviews for progression that occurs each term beginning Spring term of the Junior year.
- \*\* May be necessary to take additional free electives to attain the minimum 120 credits required for graduation

|  |  |
|--|--|
| ♦ COMPETENCIES - TO BE COMPLETED WITHIN THE FIRST 30 CREDITS | ♦ GENERAL EDUCATION CATEGORIES - TO BE COMPLETED WITHIN THE FIRST 30 CREDITS |
|--|--|

Exceptions in the timing of courses will be made for transfer students

**Total credits for graduation: 120-135**

**The additional credits listed above are required for graduate degree**

**Effective: 9/2022**