

| B.S. in Mathematics and Education with Endorsement in Secondary Education in Mathematics | | | |
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| MATHEMATICS MAJOR REQUIREMENTS: 43 Credits | | Credits | |
| | MA120: Introduction to Mathematical Reasoning | 4.0 | |
| | MA125: Calculus with Analytic Geometry I | 4.0 | |
| | MA126: Calculus with Analytic Geometry II | 4.0 | |
| | MA211: Differential Equations | 3.0 | |
| | MA221: Linear Algebra | 3.0 | |
| | MA225: Calculus with Analytic Geometry III | 4.0 | |
| | MA314: Number Theory | 3.0 | |
| | MA319: Probability and Statistics I | 3.0 | |
| | MA320: Probability and Statistics II | 3.0 | |
| | MA410: Modern Algebra | 3.0 | |
| | MA415: Real Analysis | 3.0 | |
| | 2 courses from among: | | |
| | or MA411: Abstract Algebra | | |
| | or MA317: Geometry | 3.0 | |
| | or MA413: Complex Analysis | | |
| or MA419: Introduction to Math Modeling | 3.0 | | |
| MA LVL1: Gateway Exam 1 | 0.0 | | |
| MA LVL2: Gateway Exam 2 | 0.0 | | |
| MA LVL3: Gateway Exam 3 | 0.0 | | |
| EDUCATION MAJOR REQUIREMENTS: 24 Credits | | Credits | |
| | ED250: Foundations of Teaching & Learning | 3.0 | |
| | ED201: Educational Psychology | 3.0 | |
| | ED204: Adolescent Psychology | 3.0 | |
| | ED319: Literacy Across the Secondary Curriculum | 3.0 | |
| | ED319N: NCATE Assessment | 0.0 | |
| | ED320: Teaching Children with Diverse Needs | 3.0 | |
| | ED-PRAXIS: Education Praxis II • PRAXIS - 10061 | 0.0 | |
| | 9 credits as follows: | | |
| | ED416: Student Teaching (8 credits) AND ED416S: Seminar in Student Teaching (1 Credit) | 9.0 | |
| | OR ED417: Supervised Student Teaching (8 credits) AND ED417S: Seminar in Supervised Student Teaching (1 Credit) | | |
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| | EDUCATION METHODS REQUIREMENTS: 6 Credits | | |
| | ED365: Mathematics for the Secondary Teach. Part I | 3.0 | |
| | or ED375: Secondary Teaching Methods Part I | | |
| | ED366: Mathematics for the Secondary Teach. Part II | 3.0 | |
| | or ED376: Secondary Teaching Methods Part II | | |
| MATHEMATICS OUTSIDE OF THE MAJOR REQUIREMENTS: 11-14 Credits | | | |
| | CS175: Introduction to Computer Science I | 3.0 - 4.0 | |
| | or MA131L-133L: Math Lab I, II, III | | |
| | and either | | |
| | 8 credits as follows: | | |
| | CE111: General Chemistry I | 3.0 | |
| | CE111L: General Chemistry I Lab | 1.0 | |
| | CE112: General Chemistry II | 3.0 | |
| | CE112L: General Chemistry II Lab | 1.0 | |
| | or | | |
| | 10 credits as follows: | | |
| | PH211: General Physics with Calculus I | 4.0 | |
| PH211L: General Physics with Calculus I Lab | 1.0 | | |
| PH212: General Physics with Calculus II | 4.0 | | |
| PH212L: General Physics with Calculus II Lab | 1.0 | | |
| LIBERAL ARTS ELECTIVE: 5-8 Credits | | | |
| | (b) _____ | | |
| | (b) _____ | | |
| | (b) _____ | 8.0-11.0 | |
| EDUCATION OUTSIDE OF THE MAJOR REQUIREMENTS: 3-6 Credits | | | |
| | PY103: Introduction to Psychology | 3.0 | |
| | MA317: Geometry (<i>May be fulfilled in major requirements</i>) | 0.0-3.0 | |

(b) The following disciplines are not considered Liberal Arts: Business(BA, BE, BF, BK, BL, BM), Criminal Justice (CJ), Education (ED), Nursing (NU), Physical Education (PE), Free Electives (FE) or Social Work (SW). However, BE201 and BE202, Micro and Macro Economics are considered Liberal Arts Electives.

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GENERAL EDUCATION REQUIREMENTS: 33 Credits Credits

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|--|--|-------------------|
| English | EN101: College English I EN102: College English II | 3.0 3.0 |
| Literature | EN201: Literature I EN202: Literature II | 3.0 3.0 |
| History | HS101: Western Civilization In World Perspective I HS102: Western Civilization In World Perspective II | 3.0 3.0 |
| Information Technology | IT102: Information Technology for Scientists | 3.0 |
| Critical Discourse | HU201: Critical Discourse (waived) | 0.0 |
| Science | Fulfilled in Requirements Outside the Major | 0.0 |
| Mathematics | Fulfilled in Major Requirements | 0.0 |
| Social Science (partially fulfilled in Outside the Major Requirements) | Choose one course from among: any 100-level course in AN, GO, PS, SO; BE201, BE202, GS225 | 3.0 |
| Aesthetics | AR101: Art Appreciation or MU101: Music Appreciation or TH101: Theater Appreciation or DA101: Dance Appreciation | 3.0 |
| Cross Cultural | One course chosen from the set of approved courses or 3 credits in a foreign language | 3.0 |
| Perspectives | PRxxx | 3.0 |
| Experiential Education | EX001 | 0.0 |
| Demonstration of Writing Proficiency | WP001 | 0.0 |
| Writing Intensive Requirement | Two Mathematics (MA) courses designated as course type WT Two Education (ED, EDL, EDS) courses designated as course type WT | 0.0 0.0 0.0 |

**TOTAL CREDITS FOR B.S. IN MATHEMATICS AND EDUCATION WITH ENDORSEMENTS IN SECONDARY EDUCATION
IN MATHEMATICS = 128.0 - 131.0**

ADDITIONAL ENDORSEMENTS AVAILABLE:
(Please review Endorsement Charts for Requirements)

- TSD - Teacher of Students with Disabilities - Secondary (15 credits)
- ESL - English as a Second Language - Secondary (12 credits)

NOTES:

- * 58 credits must be completed at the 200 level or higher.
- ** Education majors are required to have an overall GPA of 2.75 for State Certification.
- ***By state regulation, all Education Majors seeking content area endorsement must complete 12+ credits at the 300+ level in the content major.