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| BACHELOR of ARTS in MATHEMATICS (#728) Teacher Certification Department of Mathematics Ogden College of Science and Engineering Western Kentucky University |
| The suggested program of study shown below should be used in consultation with your advisor(s). Every student will finish with a unique plan of his/her own depending on the electives selected. |

Success Markers

SAMPLE - 4 year plan

| FIRST YEAR <i>Visit The Learning Center for free tutoring</i> | Fall Semester | | Spring Semester | |
|---|--|--------------|--|-----------|
| | MATH 136 – Calculus I (F-Quantitative Reasoning) | 4 | MATH 137 - Calculus II | 4 |
| | SMED 101 – Introduction to Inquiry-Based Lesson Design | 1 | SMED 102 - Introduction to Inquiry-Based Lesson Design | 2 |
| | CS 170 – Problem Solving & Programming OR CS 180 – Computer Science I | 3-4 | Foreign Language | 3 |
| | ENG 100 – Introduction to College Writing (F-College Composition) | 3 | HIST 101 – World History I OR HIST 102 – World History II (F-World History) | 3 |
| | Colonnade (E-Natural & Physical Science, with lab) | 3-5 | COMM 145 – Fundamentals of Public Speaking and Communication (F-Human Communication) | 3 |
| | TOTAL CREDIT HOURS | 14-17 | TOTAL CREDIT HOURS | 15 |

Note: Make sure that you enroll in at least 30 hours during the first year, to achieve Sophomore status.

| SECOND YEAR | Fall Semester | | Spring Semester | |
|--------------------|--|-----------|--|-----------|
| | MATH 237 – Multivariable Calculus | 4 | MATH 310 – Discrete Math | 3 |
| | MATH 307 - Linear Algebra | 3 | SMED 320 – Classroom Interactions | 3 |
| | SMED 310 – Knowing and Learning in Mathematics and Science | 3 | STAT 301 – Introductory Probability and Applied Statistics | 3 |
| | ENG 200 – Introduction to Literature (F-Literary Studies) | 3 | Colonnade (E-Natural & Physical Sciences) | 3 |
| | Colonnade (E-Social & Behavioral Sciences) | 3 | Colonnade (E-Arts & Humanities) | 3 |
| | TOTAL CREDIT HOURS | 16 | TOTAL CREDIT HOURS | 15 |

| WINTER TERM <i>Why not Study Abroad?</i> | Winter Term | |
|--|---------------------------|--|
| | | |
| | TOTAL CREDIT HOURS | |

| THIRD YEAR <i>Visit Career Services</i> | Fall Semester | | Spring Semester | |
|--|---|-----------|---|-----------|
| | MATH 304 – Functions, Applications, and Explorations Colonnade (F-Writing in the Disciplines) | 3 | MATH 317 – Introduction to Algebraic Systems | 3 |
| | MATH 323 – Geometry I | 3 | MATH Elective (400 level*) | 3 |
| | SMED 340 – Perspectives on Mathematics and Science | 3 | SMED 360 – Research Methods for Math and Science Teachers | 3 |
| | Colonnade (C-Social to Cultural) | 3 | Colonnade (C-Systems) | 3 |
| | Colonnade (C-Local to Global) | 3 | General Elective | 3 |
| | TOTAL CREDIT HOURS | 15 | TOTAL CREDIT HOURS | 15 |

| FOURTH YEAR <i>Apply for Graduation</i> <i>Celebrate</i> | Fall Semester | | Spring Semester | |
|--|---|--------------|--|-----------|
| | MATH 498 – Senior Seminar | 3 | SMED 489 – SMED Student Teaching Seminar | 3 |
| | SMED 470 – Project-Based Instruction | 3 | SEC 490 – Student Teaching | 10 |
| | SPED 330 – Introduction to Exceptional Education: Diversity in Learning | 3 | | |
| | General Electives | 5-8 | | |
| | TOTAL CREDIT HOURS | 14-17 | TOTAL CREDIT HOURS | 13 |

Total Credit Hours: 120

* Three more hours from MATH 405, 406, 409, 415, 417, 421, 423, 431, 439, 450, 470, 482.

PLEASE NOTE: Prerequisites, Course Numbers, and Course Titles are subject to change.

Consult your advisor each semester.

Course Descriptions may be viewed at <http://www.wku.edu/catalog>

For more Information:

Department: Mathematics

Website: www.wku.edu/math

Phone: (270)745-3651

Email: math@wku.edu

Course Descriptions: <http://www.wku.edu/undergraduatecatalog/>