



Major Map: Secondary Education - Mathematics

Catalog Year: 2008-2009

The following is a sample course of study. It is the Student's responsibility to ensure that all program requirements are met. This guide is not a substitute for academic advisement.

Your path to graduation may vary slightly based on factors such as college credit you earned while in high school, transfer work from other institutions of higher learning and placement in Mathematics. You are responsible for checking prerequisites to any courses and the education requirements outlined in the School of Education Student Handbook.

| Course Subject and Title | Hrs. | Upper Division | Transfer Course | Minimum Grade if Required | Date Completed | Final Grade | Pre-requisites met | Additional Critical Tracking Notes |
|--|------|--------------------------|--------------------------|---------------------------|----------------|-------------|--------------------------|--|
| Fall Semester Year 1: 15 hours | | | | | | | | |
| EDUC 180 Introduction to Education | 2 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | |
| ENG 110 English Composition I | 3 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | |
| COMS 110 Speech/Communication | 3 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | |
| MATH 210 Calculus I | 4 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | |
| Social Science (pick from ECON, GEOG, POLS, PSYCH, SOC) | 3 | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| Spring Semester Year 1: 16 hours | | | | | | | | |
| FINE ARTS (Pick from Art 110, Consvty 120, Theatre 130) | 3 | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| ENG 225 English Composition II | 3 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | |
| MATH 220 Calculus II | 4 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | |
| MATH 235 Elementary Statistics | 3 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | |
| BIO 102 Biology and Living | 3 | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| Summer Semester Year 1 | | | | | | | | |
| May use summer semester to lighten fall and winter course loads. | | | | | | | | |
| Fall Semester Year 2: 16 hours | | | | | | | | |
| TCH-ED 385 Teaching and Learning with Technology | 3 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | Complete WEPT |
| HIST 101 or 102 American History I or II | 3 | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| POLS 210 American Government | 3 | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| MATH 250 Calculus III | 4 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | |
| MATH 300 Linear Algebra | 3 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | |
| Spring Semester Year 2: 13-15 hours | | | | | | | | |
| TCH-ED 403 Educational Psychology | 3 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | Complete CBASE |
| MATH 301 On Solid Ground: Sets and Proof | 3 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | |
| Chem/Earth/ENVS/Earth/Phys Science | 3-4 | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| Science Lab | 1-2 | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| Computer Language Programming Course | 3 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | |
| Summer Semester Year 2 | | | | | | | | |
| May use summer semester to lighten fall and winter course loads. | | | | | | | | |
| Fall Semester Year: 15 hours | | | | | | | | |
| TCH-ED 420 Adolescent Development | 3 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | Complete PRAXIS II: Mathematics: Content Knowledge #0061 |
| MATH 464WI History of Mathematics | 3 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | |
| MATH 402 Advanced Analysis I | 3 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | |
| MATH 424 Math for Sec. Teachers: Geometry | 3 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | Apply to Professional Education Program |
| EDUC 402R Algebra for Teachers | 3 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | |
| Spring Semester Year 3: 15 hours | | | | | | | | |
| TCH-ED 404 Education of the | 3 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | |



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|---|----|--------------------------|--------------------------|---|--|--|--------------------------|--------------------------|
| Exceptional Child | | | | | | | | |
| MATH 410 Modern Algebra | 3 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | |
| Upper level MATH elective (300-499) | 3 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | |
| MATH Application: Choose from 345, 407, 436, 430 or non-math course approved by faculty | 3 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | |
| ENG ___ Literature | 3 | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| Summer Semester Year 3: 6 hours | | | | | | | | |
| EDUC 428 Cultural Diversity in American Education | 3 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | |
| TCH-ED 408WI Advanced Foundations | 3 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | |
| TCH-ED 422 Practicum I | 0 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | |
| Fall Semester Year 4: 12 hours | | | | | | | | |
| TCH-ED 423 Practicum II | 0 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | Apply for graduation. |
| TCH-ED 427 Reading in the Secondary School | 3 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | |
| TCH-ED 433 Special Methods Secondary Math | 3 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | |
| TCH-ED 438 Culturally Responsive Strategies | 3 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | |
| Elective | 3 | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| Spring Semester Year 4: 12 hours | | | | | | | | |
| TCH-ED 437 Student Teaching – Secondary | 10 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | Apply for certification. |
| TCH-ED 493 Special Methods II (Capstone) | 2 | <input type="checkbox"/> | <input type="checkbox"/> | C | | | <input type="checkbox"/> | |

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|---|--------------------------|
| Non-course requirements | Met |
| Math Placement Exam | <input type="checkbox"/> |
| Written English Proficiency Test (WEPT) | <input type="checkbox"/> |
| College Basic Academic Subjects Exam (CBASE) | <input type="checkbox"/> |
| PRAXIS II: Mathematics: Content Knowledge #0061 | <input type="checkbox"/> |
| Admission to professional education program | <input type="checkbox"/> |
| Admission to internship year | <input type="checkbox"/> |
| Program Portfolio – Teacher Work Sample | <input type="checkbox"/> |

The School reserves the right to make changes in courses, degree requirements and course schedules without notice.

Students are expected to maintain a quality of achievement significantly above minimum UMKC standards for degree work. Individual student progress will be monitored throughout the program. Satisfactory progress is required of all students for retention in the program. Students are expected to maintain academic standards, perform satisfactorily in courses, refrain from academic dishonesty, comply with the established University and teacher education timetables and requirements, and refrain from unethical or unprofessional behavior or behaviors that obstruct the training process or threaten the welfare of the student or others. Other circumstances involving student behavior will be addressed by the faculty on an individual basis.

All students completing an undergraduate education degree must meet the following conditions in order to graduate and be recommended for graduation or certification:

- Complete an oral communications class, English composition I & II, and a required math class or its equivalent with grades C or better
- Complete the specific pre-education, subject area, and education courses with a C grade or higher
- Attain a cumulative grade point average of at least 2.75
- Attain a subject-area grade point average of at least 2.5 (applies to middle school, secondary, and K-12 programs)
- Gain acceptance into the School of Education Professional Program (consult with your academic advisor)
- Submit acceptable results from a Missouri FBI background check
- Passed each section of the College Basic Academic Subjects Exam (CBASE) with scores of 235 or higher
- Passed the appropriate Praxis II exam

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