ADVISING GUIDE
Secondary Education
Mathematics: Grades 7-12

Earning your bachelor’s degree from the College of Education with a Mathematics emphasis in grades 7-12 will allow you teach in middle and high school settings. Students are highly encouraged to add an additional endorsement area to their program. The core areas of this program consists of general education, education foundations, content, methods, and internship.

PROGRAM COURSE WORK (103-112 CREDITS)

CONTENT (29-38 CREDITS)

- MAT 1070: College Algebra (5cr)**
- MAT 1800: Elementary Functions (4cr)**
- MAT 2010: Calculus I (4cr)^
- MAT 2020: Calculus II (4cr) ^
- MAT 2030: Calculus III (4cr)
- STA 2210: Statistics & Probability (4cr)

- MAT 2250: Elementary Linear Algebra (3cr)
- MAT 2860: Discrete Mathematics (3cr)
- MAT 5420: Algebra I (4cr)
- MAT 6140: Geometry: An Axiomatic Approach (3cr)

*courses may be necessary based on initial math placement (see page 2)

^MAT 1070, 1800 & 2010: Students are highly encouraged to take these courses as a part of the Rising and Emerging Scholars Program: emerging scholars@wayne.edu

^MAT 1070 (1075), 1800 (1990), 2010 (2110) & 2020 (2120): Students are encouraged to register for the corresponding two credit workshop (in parenthesis) to strengthen their learning through discovery

EDUCATION COURSES (31 CREDITS)

FOUNDATIONAL (18 CREDITS)

- TED 2205: Foundations I Field Experience (1cr)
- TED 2220: Foundations III: Foundations of Inclusive Schooling (2cr)
- TED 2020: Education Technology (3cr)
- TED 5100: Professional Engagement, Advocacy & Instructional Planning (2cr)
- EDP 5480: Adolescent Psychology (3cr)
- RLL 6121: Teaching Reading in the Content Areas: Grades 6-12 (3cr)

METHODS (13 CREDITS)

- MAE 5150: Methods and Materials of Instruction: Secondary School Mathematics (3cr)
- MAE 5155: Secondary Mathematics Clinical (7-12) (2cr)
- MAE 6050: Teaching Mathematics Methods in the Middle Grades (3cr)
- MAE 6055: Teaching Mathematics in the Middle Grades Clinical (5-9) (2cr)
- MAE 6075: Historical and Social Contexts of Teaching Mathematics (5-12) (3cr)

STUDENT TEACHING (12 CREDITS)

- TED 5780: Student Teaching (12cr)

CLINICAL EXPERIENCES (600 HOURS)

- TED 2205- 40 Hours
- MAE 5155- 80 Hours
- MAE 6055- 80 Hours
- TED 5780- 400 Hours

Please consult the University Bulletin (bulletins.wayne.edu/undergraduate) for official curriculum.
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Sequencing of courses is a critical component to producing highly qualified and highly sought after educators. Placement into math and English at the university level will determine the beginning of these sequences.

MATH & ENGLISH SEQUENCES
Initial placement based on ACT/SAT scores or placement exam

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CONTENT COURSE SEQUENCE
Mathematics content courses follow the sequence below

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PROGRAM TOTAL
112 cr

CERTIFICATION PLUS*
The Mathematics 7-12 band was specifically designed to be less than the university required 120 credits. You are encouraged to add an additional endorsement area or pursue a concurrent Bachelor Degree in Mathematics through the College of Liberal Arts & Sciences.