Early Adolescence through Adolescence: Mathematics
(Approximate Ages 10 – 21 Years)
Undergraduate Program Sheet

PROGRAM ADMISSION REQUIREMENTS

Application to the Mathematics education program requires satisfactory completion of the requirements listed below.

(  ) Pre-Professional Skills Requirement: passing scores on one of the following:

(  ) Praxis I
Reading (175) Score: 
Writing (174) Score: 
Math (173) Score: 
https://www.ets.org/praxis/about/

(  ) CORE
Reading (156) Score: 
Writing (162) Score: 
Math (150) Score: 
https://www.ets.org/praxis/about/core/

(  ) ACT (within 5 years of admission term to academic program)

Composite (23) Score: 
Reading (20) Score: 
English (20) Score: 
Math (20) Score: 
http://www.actstudent.org/

(  ) SAT (within 5 years of admission term to academic program)

Composite (1070) Score: 
Verbal (450) Score: 
Math (450) Score: 
http://sat.collegeboard.org/home

(  ) English Composition: Achieve a placement level of 4 or higher on the English Placement Test, or complete ENGLISH 102 or an equivalent with a grade of C or better.

(  ) Mathematics Skills: Achieve a placement level of 30 or higher on the Math Placement Test, or complete MATH 103, 105, 175 or an equivalent with a grade of C or better. (Note: MATH 103 and 105 recommended as they also meet core curriculum requirements.)

Completion of CURRINS 328: Introduction to Teaching Science in Middle and High School with a grade of C or better.

Completion of COMMUN 103 with a C or better.

A 2.5 minimum cumulative GPA in all UWM and transfer courses at the time of admission application.

Completion of the following at the time of admission application:
[MATH 231, 232 and 233 or an equivalent sequence of calculus and analytical geometry] plus [MATH 234 or 341 or equivalent course in linear algebra and differential equations], with a 2.75 GPA in these and all faculty approved math courses 300 level or above.

A minimum of 58 credits (UWM and transfer credits) at the time of admission application. It is not required to have all the Core Curriculum courses completed at the time of application.

Meeting with faculty advisor to review admission application. Faculty signature required on application.
Dr. Mike Steele, steelem@uwm.edu

*** GRE (150) on Verbal Reasoning and (145) on Quantitative Reasoning. Scores within 5 years of admission term to academic program are accepted when available.

Note: Not all courses are offered each semester
GENERAL EDUCATION REQUIREMENTS

Completion of the course work in this section will meet the general education requirements (GER) of the University. A complete list of GER courses may be found online at:

http://www4.uwm.edu/academics/ger-courses.cfm

The Arts – At least three credits of the nine credits required must be in an approved GER-A course. Choose from Art, Dance, Film, Music, or Theater.

NO ART HISTORY OR FILM STUDIES

( ) 3  Elective (GER-A) ________________________________
( ) 3  Elective _______________________________________
( ) 3  Elective _______________________________________

The Humanities – At least six credits of the nine credits required must be in two approved GER-H courses. These requirements will be met in the English content areas. For complete list of literature electives (GER-H):


( ) 3  ENGLISH 201
( ) 3  COMMUN 103 (GER-H)
( ) 3  Humanities Literature Elective (GER-H) ________________________________

The Natural Sciences (including mathematics) – At least six credits of the nine credits required must be in two approved GER-NS courses. One course must include a lab.

( ) 3  COMPSCI 201
( ) 3  Biological Science Elective (GER-NS) ________________________________
( ) 5  PHYSICS 209 (GER-NS) and 214 (Lab)  

Pre-requisite: Math 232

The Social Sciences

( ) 3  Select one of the following:
   ( ) HIST 151 American History, 1607-1877 (GER-S)
   ( ) HIST 152 American History, 1877-present (GER-S)

( ) 3  Select one of the following:
   ( ) POL SCI 104 Intro to American Government and Politics (GER-S)
   ( ) POL SCI 105 State Politics (GER-S)

( ) 3  Select one of the following:
   ( ) ECON 103 Principles of Microeconomics
   ( ) ECON 104 Principles of Macroeconomics

Cultural Diversity (3 credits) May be met with any course listed with an ampersand in the GER course listing. Note: ANTHRO 213, ENGLISH 276, AIS 203 or HIST 263 meets the cultural diversity requirement in addition to the non-western history/contemporary culture and ACT 31 requirements.

( ) 3  Cultural Diversity Elective ________________________________

CORE CURRICULUM REQUIREMENTS

Foreign Language - See your advisor if English is not your first language.

( ) 2 consecutive semesters of college instruction in a single foreign language (at least six credits)
( ) 2 consecutive years of high school instruction in a single foreign language
( ) Language proficiency on approved exam
( ) Not required (first semester as a freshman was prior to September 1999)

PI 34 STATUTORY REQUIREMENTS

ACT 31 - A component of the Human Relations Requirement for Teacher Certification met by completing one of the following courses.

( ) 3  ANTHRO 213  American Indian Peoples of Wisconsin
( ) 3  ENGLISH 276  Introduction to American Indian Literature: Hist, Lit, & Sovereignty of Wisconsin Tribes
( ) 3  AIS 203  Western Great Lakes American Indian Community Life of the Past
( ) 3  HIST 263  North American Indian History Since 1887

Non-Western History or Contemporary Culture

( ) 3  Non-Western History or Contemporary Culture ________________________
   (African, Latin American, Asian, Native American etc.)

Suggested: ANTHRO 213, ENGLISH 276, AIS 203 or HIST 263

ELECTIVE COURSES

Select electives to ensure 128 credits at the time of graduation.

( )  Elective ________________________________
( )  Elective ________________________________

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Note: Not all courses are offered each semester
MATHEMATICS CONTENT AREA

Required Coursework 34 credits

- 4 MATH 231* or 221 Calculus I or Honors Calc I
- 4 MATH 232 or 222 Calculus II or Honors Calc II
- 4 MATH 233 Calculus or Analytical Geo
- 4 MATH 234 Linear Algebra/Diff Equat
- 3 MATH 341 Intro to Lang. & Practice
- 3 MATH 431 or 531 Modern Algebra
- 3 MATH 451 or 453 Axiomatic or Transformational Geometry
- 3 MATH 675 Topic: High School Mathematics from an Advanced Viewpoint
- Select one of the following:
  - MATH 431 or 531 Modern Algebra
  - MATH 451 or 453 Axiomatic or Transformational Geometry
  - MATH 521 Advanced Calculus
  - MATH 535 Linear Algebra

Statistics: Select one of the following (3 credits minimum):

- 3 IND ENG 467* Introductory Statistics for Physical Sciences Students (preferred)
- 3 MATH STAT 465 Intro to Math Stat
- 6 MATH STAT 361 AND 362 Intro to Math Stat. I AND II

PROFESSIONAL EDUCATION REQUIREMENTS

MACSTEP Sequence: Milwaukee Area Collaborative Secondary Science and Math Teachers Education Program - The following courses require formal admission to the School of Education. A grade of C or better is required for all professional requirements including student teaching.

Taken prior to start of MACSTEP sequence in summer:

- 3 ED PSY 330 Introduction to Learning and Development

SUMMER

- 3 CURRINS 332 Teaching of Math: Middle School
- 2 CURRINS 510 Cooperative Strategies for Pre & Early Adolescents
- 3 CURRINS 545 Reading in the Content Area
- 3 CURRINS 629 Change and Change Strategies in Education
- 1 ED PSY 541 Alternative Assessment in Science & Math I

FALL

- 1 CURRINS 510 Cooperative Strategies for Pre & Early Adolescents
- 1 CURRINS 516 Field Experience / Student Teaching in Middle School
- 1 CURRINS 532 Teaching of Mathematics: Secondary
- 1 ED PSY 542 Alternative Assessment in Science and Math II
- 1 EXCEDUC 537 Inclusion for Secondary Math Educators

Student Teaching – Students must complete paperwork in order to be assigned a student teaching placement. Student teaching deadlines (February or April) are posted on the Office of Clinical Experiences Web site: http://www4.uwm.edu/soe/academics/clinical-experiences.cfm

To be approved for placement, you must meet the following criteria:

- Admitted to the School of Education
- Completion of all required course work
- Cumulative GPA of a minimum 2.5 (all undergraduate course work, including transfer course work)
- A minimum 2.75 in all your mathematics content area and professional education courses
- Passing scores reflected on your transcript for the PRAXIS II exam: Mathematics: Content Knowledge #5061
- Score of 135 required
- Removal of all F or I (incompletes) grades in courses that count toward graduation or certification.
- TB test results submitted to the Office of Clinical Experiences
- Criminal Background Check submitted to the Office of Clinical Experiences

SPRING

- 5-6 CURRINS 431 Student Teaching in Mathematics
- 5-6 CURRINS 431 Student Teaching in Mathematics
- 1 ED PSY 543 Alternative Assessment in Science & Math III
- 2 EXCEDUC 536 Inclusion for Secondary Math Educators

ADDITIONAL REQUIREMENTS FOR GRADUATION

- Minimum cumulative grade point average of 2.75 in all content area and professional education courses, including any transfer courses.
- Satisfactory completion of a minimum 128 credits
- Completion of the last year of course work (30 credits) in residence at UW-Milwaukee

Note: Not all courses are offered each semester.

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