CURRICULUM AND INSTRUCTION, MS: MATHEMATICS EDUCATION

The Department of Teaching and Learning offers a graduate program of study in curriculum and instruction, including choices of concentration in three Focus Areas: Subject Area, Instructional Level Area and Cross-Curricular Area.

The Department also cooperates with the Department of Administrative Leadership in the Specialist Certificate Program with an emphasis in reading. Under the auspices of the PhD program in Urban Education, the Department offers doctoral specializations in Curriculum and Instruction and in Mathematics Education.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

An applicant must meet Graduate School requirements to be considered for admission to the program. Applicants must also complete the reason statement in the application.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than 6 credits.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Credits and Courses

The minimum degree requirement is 30 credits, including:

Code	Title	Credits
Select 12 credits in Curriculum and Instruction core areas		
CURRINS 701	Curriculum Planning and Ideologies	3
CURRINS 705	Research in Schools and Communities	3
CURRINS 716	Teaching in Urban & Diverse Communities	1-4
CURRINS 714	Analysis of Instruction to Improve Teaching and Learning	3
or CURRINS 774	College Teaching	
Select 12 to 15 credits in a focus area approved by the student's major professor		**12-15**
Select one of the following:		**3-6**
CURRINS 800	Master's Seminar in Curriculum and Instruction (3 credits)	
CURRINS 890	Master's Research or Thesis (3-6 credits)	
Total Credits		**30**

Mathematics Education Concentration

Code	Title	Credits
Qualifying Courses (minimum of 15 graduate credits)		
CURRINS 500	Workshop in Curriculum and Instruction:	1-6
CURRINS 520	Developing Mathematical Thinking in Young Children	3
CURRINS 532	Teaching of Mathematics: Secondary	3
CURRINS 560	Improving Mathematics Teaching and Learning:	1-3
CURRINS 561	Mathematics Learners in Special Education I	3
CURRINS 562	Mathematics Learners in Special Education II	3
CURRINS 579	Current Topics in Curriculum and Instruction: (with appropriate subtitle)	1-3
CURRINS 580	Mathematics Education:	1-3
CURRINS 624	Instructional Trajectories for Fraction Concepts and Operations	3
CURRINS 625	Principles and Practices of Teaching Geometry and Geometric Thinking	3
CURRINS 626	Principles and Practices of Teaching Algebraic Reasoning	3
CURRINS 629	Change and Change Strategies in Education	1-4
CURRINS 720	Curriculum and Standards for School Mathematics	3
CURRINS 730	Mathematics in Elementary Education	3
CURRINS 731	Mathematics in the Secondary School	3
CURRINS 761	Mathematics Instructional Leadership	3
CURRINS 830	Seminar in Elementary School Mathematics Education	3
CURRINS 861	Seminar in Mathematics Urban Education	3
ED PSY 631	Cognition: Learning, Problem Solving and Thinking	3
MATH 690	Topics in Mathematics:	3

Additional Requirements

Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the department chair. Students who have not completed a Proposed Program of Study form with their advisor and filed it with the Department by the end of the semester in which they are admitted may not be allowed to register for the next term.

Certifications

Graduate students seeking initial teacher certification or added certification(s) can arrange their master's degree program so that a portion of the credits earned towards the master's degree can also serve as partial fulfillment of teacher certification requirements.

Curriculum and Instruction MS Learning Outcomes

Students graduating from the Curriculum and Instruction MS program will be able to:

- Identify, apply, and critique various theoretical frameworks related to 1) curriculum, 2) historical and socio-cultural factors impacting schools and communities, and 3) research paradigms used in teaching and learning settings.
- Recognize and engage with pedagogical content knowledge in their subject area, which involves culturally, racially, and linguistically responsive/sustaining design decisions related to assessment, instruction, and curriculum.
- Bridge theory to practice in education settings.
- Demonstrate culturally, racially, and linguistically responsive/sustaining practices in research, pedagogy and educational policy at the national, state, and local levels.