

MSE IN EDUCATION AND PHYSICS

This degree program is offered by the Judith Herb College of Education in collaboration with the College of Natural Science and Mathematics. The degree is designed for students who wish to enhance their knowledge in a science field and in education. As a general rule, students will have an advisor in the Judith Herb College of Education and in the College of Natural Science and Mathematics who will jointly plan and direct the program. Students who wish to complete their culminating experience in education will work with their Judith Herb College of Education advisor. Students who wish to complete their culminating experience in their science field or mathematics will work with their College of Natural Science and Mathematics advisor.

Admission to Master's Degree Programs

In addition to the College of Graduate Studies admission requirements, master's programs housed in the department of curriculum and instruction require the following:

- An overall grade point average (GPA) of at least 2.7 on a 4.0 scale in all undergraduate work. Students who fail to meet this requirement **may** be considered for provisional admission, provided they demonstrate excellent promise for graduate study. The GRE is required for students with less than a 2.7 undergraduate grade point average.
- Three letters of recommendation regarding the prospective graduate student's potential for doing master's level work, which may come from such sources as the undergraduate major advisor, current employer, school principal or others who are knowledgeable about the applicant's ability to engage in graduate work in the desired program.
- A well-written statement describing the student's background and goals as well as the importance of the degree in achieving those goals.
- Some programs have selective admissions and may admit a limited number of students. Thus, meeting all formal criteria does not guarantee admission.

Requirements for Master's Degree Programs

Master's programs housed in the department of curriculum and instruction require a minimum of 30 or 36 semester hours (depending on program) of approved graduate course work. No more than six semester hours of credit from any combination of workshops (5950), problems or special topics courses (5980 or 6980), and independent studies (5990 or 6990) may be included in the degree program.

- A plan of study identifying the courses for the master's degree is required after 12 credit hours, generally at the end of the first semester of full time study.
- All students completing one of the master's degrees in this department must fulfill core requirements by completing one course from each of the four foundations core areas within the first 18 semester hours of course work (four of the first six courses must be core courses).

- All course work for the master's degree must be taken within a six-year period immediately preceding the date the degree is awarded.
- The completion of a thesis, project, comprehensive examination, seminar, or field experience (practicum) is noted in specific program descriptions.

Programs leading to licensure or endorsement may require additional semester hours to fulfill the licensure credential as well as degree requirements.

Code	Title	Hours
Foundations Core		
<i>Psychological Foundations</i>		
Select one of the following:		3
EDP 5110	Basic Educational Psychology	
EDP 5120	Alternative Approaches To Discipline	
EDP 5210	Child Behavior And Development	
EDP 5220	Adolescent Behavior And Development	
EDP 5230	Adult Development	
EDP 5310	Issues And Innovations In Learning And Instruction	
EDP 5320	Instructional Psychology	
EDP 5330	Behavior Management	
<i>Research Foundations</i>		
Select one of the following:		3
RESM 5110	Quantitative Methods I	
RESM 5210	Educational Testing And Grading	
RESM 5310	Educational Research	
RESM 5330	Qualitative Research I: Introduction And Basic Methods	
<i>Social Foundations</i>		
Select one of the following:		3
TSOC 5100	Group Processes In Education	
TSOC 5110	Modern Educational Controversies	
TSOC 5200	Sociological Foundations Of Education	
TSOC 5210	Multicultural Non-Sexist Education	
TSOC 5230	Intergroup And Intercultural Education	
TSOC 5300	Philosophy And Education	
TSOC 5400	History Of Schooling & Teaching In The U.s.	
TSOC 5500	Anthropology and Education	
<i>Curriculum</i>		
Select one of the following:		3
CI 6830	Curriculum Trends And Issues (recommended)	
CI 6800	Foundations Of Curriculum & Instruction	
CI 6810	Curriculum Development: K-12	
CI 6840	Curriculum For Educational Leaders	
ETPT 5100	Instructional Systems Design Principles (as approved by advisor)	
SPED 5000	Issues In Special Education	
Specialization		
Select a minimum of 15 semester hours in one of the following: ¹		15
biology		

chemistry

geology

mathematics

physics

Theory and Research Requirement

CI 6490	Theory And Research In Literacy
CI 6590	Theory And Research In Mathematics Education
CI 6690	Theory And Research In Science Education
CI 6790	Theory And Research In Social Studies
CI 6890	Theory and Research in Learning and Teaching Content (approved by advisor)

Seminar, Project or Thesis

CI 6900	Masters Research Seminar In Curriculum And Instruction
CI 6920	Masters Research Project In Curriculum And Instruction
CI 6960	Masters Thesis In Curriculum And Instruction

Total Hours	27
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¹ Refer to Graduate Programs in College of Natural Science and Mathematics (<http://utoledo-public.courseleaf.com/graduate/natural-sciences-mathematics>) for specific course requirements for dual degree programs. Courses must be pre-approved by the faculty advisor.