

# EDUCATION AND SOCIETY (NON-THESIS) (M.A.): COURSE WORK MATH & SCIENCE EDUCATION (45 CREDITS)

**Offered by:** Integrated Studies in Ed (Faculty of Education)

**Degree:** Master of Arts

**Program credit weight:** 45

## Program Description

The M.A. in Education and Society; Non-Thesis-Course Work - Mathematics and Science Education program emphasizes a pedagogical understanding of mathematics and science education, including a specific focus on teacher education in the areas of mathematics and science. The program will include targeted opportunities for candidates to develop skills, knowledge and practices specific to teaching and learning mathematics and science, mathematics and science teacher preparation, and research in both of these areas. It will produce graduates who view improving mathematics and science education from a teaching and learning perspective, have developed understanding of research in mathematics and science education, and sufficient teacher education experience to assume roles as educational leaders in informal and formal settings.

**Note:** For information about Fall 2025 and Winter 2026 course offerings, please check back on May 8, 2025. Until then, the "Terms offered" field will appear blank for most courses while the class schedule is being finalized.

## Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
EDEC 624	Researching, Teaching, Learning and Teacher Education.	3
EDEC 625	MA Seminar in Practice-Based Teacher Education 1.	3
EDEC 626	MA Seminar in Math and Science Education 2.	3
EDEM 609	Critical Perspectives in Educational Theory and Research.	3

## Complementary Courses (18 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
EDEC 646	Sociocultural and Epistemic Understandings of Science.	3

EDEC 647	Sociocultural and Epistemic Understandings of Mathematics.	3
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15 credits from the following:

Expand allContract all

Course	Title	Credits
EDEC 602	Foundations in Curriculum.	3
EDEC 606	Self-Study, Autoethnography, and Autobiographical Research .	3
EDEC 612	Digital Media and Learning.	3
EDEC 627	Critical Discourse Studies in Education.	3
EDEC 635	Research Writing.	3
EDEM 644	Curriculum Development and Implementation.	3
EDEM 660	Community Relations in Education.	3
EDEM 676	Organizing Non-Formal Learning.	3
EDEM 690	Research Methods: Theory and Practice.	3
EDER 600	Globalization, Education and Change.	3
EDER 606	Philosophy of Moral Education.	3
EDER 607	Ethics and Values in Education.	3
EDER 608	Educational Implications of Social Theory.	3
EDER 609	Education and Philosophical Thought.	3
EDER 614	Sociology of Education.	3
EDER 615	Introduction to Philosophy of Education.	3
EDER 617	Aesthetics and Education.	3
EDER 622	Studies in Comparative Education.	3
EDER 625	Special Topics in Educational Studies.	3
EDER 626	Theory and Praxis of Culture and Citizenship.	3
EDER 643	Women, Education and Development.	3
EDER 649	Education: Multicultural Societies.	3
EDPE 635	Theories of Learning and Instruction.	3
EDPE 676	Intermediate Statistics.	3
EDTL 500	Applications of Educational Psychology Across Classrooms.	3
EDTL 508	Critical Educational Praxis.	3

## Elective Courses (15 credits)

15 credits at the 500 level or higher. An elective course can be any course in the Department. If the course is outside of the department, the student should consult with the Program Director or Coordinator prior to registering for the course. A maximum of 9 credits, at the 500 level or higher, may be taken outside of the Department.