

# EDUCATION (EDUC)

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## **EDUC 5523 Methods in Mathematics for In-Service Teachers**

3 credit hours

Intended for teachers from junior and senior high schools in Nova Scotia, students will learn to integrate mathematical skills acquired in other Certificate in the Mathematical Sciences for Education courses into their teaching practice, using these skills to create a more effective learning climate in the math classroom, create and use problem-solving strategies and cooperative learning techniques, make appropriate use of technology, and develop a deeper understanding of the role of secondary school mathematics in lifelong learning. Students will examine a variety of teaching strategies and instructional resources for designing, implementing, and enriching mathematical instruction. They will engage in reflection on their conceptions of math and their teaching approaches, examine and present recent research, share examples of exemplary practice, study students' learning needs and curriculum design and develop a personal and professional growth plan.

## **EDUC 5525 Curriculum and Instruction in Elementary School Mathematics: Applications of Mathematical Theory**

3 credit hours

This course deals with the application of the student's understanding of mathematical theory to the improvement of curriculum and methods of instruction in elementary school mathematics.

## **EDUC 5526 Curriculum and Instruction in Elementary School Science: Applications of Scientific Theories and Res**

3 credit hours

This course deals with the application of the student's understanding of scientific theories and results to the improvement of curriculum and methods of instruction in elementary school science.

## **EDUC 5638 Principles of Learning Theory in Education**

3 credit hours

A seminar course dealing with those aspects of learning theory as developed through the findings of experimental psychology that are particularly relevant to curriculum, pedagogy and evaluation across a range of academic disciplines.

## **EDUC 5639 The Application of Learning Theory in Education**

3 credit hours

Selected theories of learning and classroom practices are analyzed with the purpose of determining how theories of learning are used, and how educational practices are informed and altered by them.

## **EDUC 5651 International Comparative Education I**

3 credit hours

Examination of concepts underlying a comparative understanding of selected educational systems around the world, including research methodologies used in the field. The course will emphasize comparisons between mainstream educational understandings in the developed world, the agenda of international education organizations, international educational funders, and the implementation of educational systems, both public and private. Specific reference will be made to access to education, curriculum and language learning, curriculum and culture, gender and education, and similar issues with an emphasis on examples from the so-called developing world in Asia, Africa, Latin America and the Middle East/North Africa.

## **EDUC 5652 International Comparative Education II**

3 credit hours

A continuation of IDST 5651. Examination and comparison of educational policies in selected countries or regions of the world with a view to assessing educational outcomes, education processes and the relation between education, the public sector, the private sector and international organizations, and the effect of such policies worldwide. Emphasis is on Asia, Africa, Latin America and the Middle East/North Africa.

## **EDUC 5673 Comparative Perspectives on Innovations in Education – Reforms**

3 credit hours

This course will assess, compare and contrast variations and reforms to mainstream educational systems, and will emphasize the conditions out of which such reforms are initiated. Special emphasis will be given to contrasting public systems of education with privatization initiatives, together with public/private partnerships and changes that affect access to education, gender and education, and so on. This course will draw on the considerable body of literature and concrete case studies throughout the world; however, considerable emphasis will be given to examples and case studies from regions or sub-regions of Asia, Africa, Latin America and the Middle East/North Africa.

## **EDUC 5674 Comparative Perspectives on Innovations in Education – Alternatives**

3 credit hours

Introduction to concepts and analysis underlying a comparative understanding of selected educational systems around the world. The course will emphasize comparisons between mainstream educational understandings in the developed world, the agenda of international education organizations, international education funders, and the implementation of educational systems, both public and private. Specific reference will be made to access to education, curriculum and culture, gender and education, and similar issues with an emphasis on examples from the so-called developing world.

## **EDUC 5695 - 5697 Directed Study in Education**

3 credit hours

**Prerequisite:** Permission of the Program Coordinator  
Independent study courses organized by a faculty member in consultation with a student. They enable a student to pursue independent research in a specific theme in education that is not normally covered by regular course offerings. A major paper or research report is required.

## **EDUC 5691 - 5693 Selected Topics in Education**

3 credit hours

These courses will investigate in some depth a particular topic or set of topics in Education. Specific topics are related to research interests of faculty members and visiting scholars.

## **EDUC 6676 Education and Development I: Perspectives**

3 credit hours

Introduction to concepts and analysis underlying a comparative understanding of selected educational systems around the world. The course will emphasize comparisons between mainstream educational understandings in the developed world, the agenda of international education organizations, international educational funders, and the implementation of educational systems, both public and private. Specific reference will be made to access to education, curriculum and culture, gender and education, and similar issues with an emphasis on examples from the so-called developing world in Asia, Africa, Latin America and the Middle East/North Africa.

**EDUC 6677 Education and Development II: Policies and Practices**

3 credit hours

A continuation of EDUC 6676. Examination and comparison of educational policies in selected countries or regions of the world with a view to assessing educational outcomes, education processes and the relation between education, the public sector, the private sector and international organizations, and the effect of such policies worldwide. Emphasis is on Asia, Africa, Latin America and the Middle East/North Africa.

**EDUC 6691 - 6697 Directed Study in Education**

3 credit hours

These courses will investigate in some depth a particular topic or set of topics in Education. Specific topics are related to research interests of faculty members and visiting scholars.

**EDUC 6695 - 6697 Directed Study in Education**

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