

## Master of Arts (M.A.) in Educational Computing

The Master of Arts Degree in Educational Computing has the goal of preparing specialized professionals for integrating computing in education with an interdisciplinary approach. This Program aspires to develop leadership in graduates to promote significant educational changes and in addition, it provides the conceptual, technical and research competencies for the use of computational means in an effective manner in educational scenarios.

In addition to meeting the general requirements established by the University for admission to master degree studies, students must:

1. Have approved the following courses or their equivalent:
  - a) COMP 2110 Introduction to Computer Science
  - b) COMP 2120 Programming Logic
  - c) COMP 2300 Visual Programming
  - d) A course in Basic Statistics at the undergraduate level from a recognized university
  - e) A course in Educational Psychology at the undergraduate level from a recognized university
2. Demonstrate proficiency in the English language through reading and comprehension or have passed the Test of English as a Foreign Language (TOEFL).

Cases for transfer, equivalencies and validations, etc. will be considered by the Admissions Committee or by the Program Coordinator.

To obtain the Master of Arts Degree in Educational Computing, candidates must:

1. Maintain a 3.00 academic index.
2. Defend and pass before the Program Committee, the project developed in the course ECMP 6980 Project Development in Educational Computing.

### TOTAL COST OF PROGRAM

Tuition	\$8,268
Fees	\$1,600
Books	\$1,736
Additional Computer Programs	\$852
Supplies	<u>\$1,152</u>
Total	\$13,608

### REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN EDUCATIONAL COMPUTING

Specialization Requirements	30 credits
Prescribed Distributive Requirements	<u>9 credits</u>
Total	39

**Specialization Requirements - 30 credits**

ECMP 5100	Future and Leadership of Computer Changes in Education	3
ECMP 5105	Design and Evaluation of Educational Software	3
ECMP 5130	Computer Assisted Educational Management	3
ECMP 5200	Authoring Languages	3
ECMP 5240	Special Peripherals, Telecommunications and Networks	3
ECMP 5245	Computer Programming	3
ECMP 6160	Computer Assisted Instruction	3
ECMP 6170	Training and Design of Computerized Practice	3
ECMP 6975	Research Seminar in Educational Computing	3
ECMP 6980	Project Development in Educational Computing	3

### **Prescribed Distributive Requirements - 9 credits**

Students will select 9 credits from the following courses:

ECMP 5250	Knowledge Banks and Expert Systems	3
ECMP 6300	Interaction between the User and the Computer	3
ECMP 6310	Graphics Systems and Animations	3
ECMP 6320	Advanced Programming for Internet	3
ECMP 6350	Artificial Intelligence and Knowledge	3
ECMP 6355	Knowledge Acquisition and Intelligent Tutors	3
ECMP 6400	Distance Learning	3
ECMP 6970	Advanced Seminar Topics in Educational Computing	3
ECMP 6990	Thesis in Educational Computing	3
COIS 5100	Relational Data Banks	3
COIS 5120	Client-Server Networks and Architecture	3
COIS 5130	Design Methodology and Advanced Tools	3
COIS 5220	Reengineering Processes	3
COIS 6250	Multimedia and Interface	3
COIS 6360	Social Impact of Computers	3
COIS 6370	Geographic Information Systems	3
EDUC 5133	Statistics	3
EDUC 6013	Organizational Behavior in Educational Institutions	3
EDUC 6046	Curriculum Development	3

The Metropolitan Campus is authorized to offer this Program which can also be offered completely through Internet.