

# Inter American University of Puerto Rico

Orlando Cyber Center

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

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.

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

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

(**Requisitos del Grado**)

|                                      |                  |
|--------------------------------------|------------------|
| Specialization Requirements          | 30 credits       |
| Prescribed Distributive Requirements | <u>9</u> credits |
| 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 |

This program is offered online through Metropolitan Campus please contact 407-218-4164 for more information.

(El programa se ofrece en línea a través del Recinto de Metropolitano para más información llamar al 407-218-4164)