

CONSEJO ACADÉMICO

CERTIFICACIÓN CA #01-17

Yo, Milagros Martínez Roche, Secretaria del Consejo Académico de la Universidad Politécnica de Puerto Rico, certifico que en reunión celebrada el viernes, 21 de abril de 2017, debidamente convocada y con el cuórum correspondiente, se aprobó la revisión del currículum de Maestría de Ciencias y Tecnología Geoespacial.


Dra. Milagros Martínez Roche
Secretaria


Ernesto Vázquez Barquet
Presidente

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Master in Geospatial Science and Technology

Present Curriculum

Pre-requisites (7 credits)

GEOM 5600 – Geospatial Information Science Fundamentals
MGM 5700 – Probabilities and Statistical Methods

Core Courses (12 credits) (GEOM 5600, MGM 5700):

GEOM 6630 – Geospatial Modeling and Analysis
GEOM 6632 – Spatial Database Management Systems
GEOM 6634 – Cartography, Map Design and Geovisualization
GEOM 6710 – Image Acquisition, Analysis and Processing

Advanced Courses (9 credits):

GEOM 6636 – Spatial Digital Quality (GEOM 6630)
GEOM 6638 – Geospatial Programming Fundamentals (GEOM 6630)
GEOM 6712 – Advanced Image Analysis and Processing (GEOM 6710)

Application Courses (9 credits):

The student must select three:

GEOM 6520 – GNSS for Geospatial Professionals (GEOM 6630)
GEOM 6640 – Geospatial Urban and Regional Apps. (GEOM 6630, 6710)
GEOM 6642 – Land Information Systems Design and Imp. (GEOM 6630)
GEOM 6644 – Web Mapping Applications (GEOM 6634)
GEOM 6646 – Environmental Assess. & Geospatial Tech. (GEOM 6630, 6712)
GEOM 6648 – Business Geography (GEOM 6630)

Research Project Courses (6 credits):

GEOM 6680 - Research Desgn. & Methods (GEOM 6630, 6710 & 18 credits)
GEOM 6690 – Master Research Project
GEOM 6691 – Master Research Project-Extension

Proposed Curriculum

Pre-requisites (7 credits)

GEOM 5600 – Geospatial Information Science Fundamentals
MGM 5700 – Probabilities and Statistical Methods

Core Courses (12 credits) (GEOM 5600, MGM 5700):

GEOM 6630 – Geospatial Modeling and Analysis
GEOM 6632 – Spatial Database Management Systems
GEOM 6634 – Cartography, Map Design and Geovisualization
GEOM 6710 – Image Acquisition, Analysis and Processing

Advanced Courses (9 credits) (GEOM 5600, MGM 5700):

GEOM **** - Photogrammetry
GEOM 6638 – Geospatial Programming Fundamentals (GEOM-6630)
GEOM **** - Geospatial Technology Project Management

Application Courses (9 credits*) (GEOM 5600, MGM 5700):

The student must select three:

GEOM **** - Surface Water Hydrology for GIS
GEOM **** - GIS for Transportation Engineering
GEOM 6644 – Web Mapping Applications (GEOM-6634)
GEOM 6646 – Environmental Assess. & Geospatial Tech. (GEOM-6630, 6712)
GEOM 6648 – Business Geography (GEOM-6630)

* - The student may substitute up to two Application courses from other graduate programs from which he or she has the pre-requisites.

Research Project Courses (6 credits):

GMP 6000 – Research Methodology
GEOM 6690 – Master Research Project
GEOM 6691 – Master Research Project Extension