## ECU COURSE CATALOG

## **GEOGRAPHIC INFO. SYS. COURSES**

AN INTRODUCTI WITH EMPHASIS INFORMATION.	Initial Concepts in GIS ON TO THE CONCEPTS, PRINCIPLE ON THE NATURE AND COMMUN DATA COLLECTION, STORAGE, M, IS METHODS ARE COVERED.	ICATION OF GEOGRAPHIC
MAPPING TASKS AND INTERACTI	Digital Mapping CARTOGRAPHIC PRINCIPLES FOR INCLUDING ATLAS PRODUCTIO VE MAPS, ANIMATED MAPPING, APHICS. Required Previous: GIS-22	N, CREATION OF ONLINE TERRAIN MAPPING, AND
DATASET MANAG CHANGE, DISTAI	Spatial Analysis PATIAL PROBLEMS WITH AN EN GEMENT AND CONTROL. EXPLORAT NCE, DENSITY, AND DISTRIBUTIO JS: GIS-2253 or Departmental App	TION OF HOW TO IDENTIFY N, OF GEOSPATIAL DATA.
CIC 4753	Cuptial Dupgungunging	2 Cuadita

GIS-4753Spatial Programming3 CreditsANINTRODUCTIONTOCOMMONPROGRAMMINGANDDATABASELANGUAGES.TOPICSINCLUDEDATATYPES,CONTROLFLOW,OBJECT-ORIENTEDPROGRAMMING,RELATIONALDATABASES,THEDEFINITION,MANIPULATION, AND RETRIEVAL OF DATA,ANDGRAPHICALUSER INTERFACE-DRIVENAPPLICATIONS.RequiredPrevious or Concurrent:CMPSC-1113

GIS-4953 Automating GIS Workflows 3 Credits PRESENTATION ON ADVANCED DIGITAL DATA STRUCTURES AND THE USE OF SOFTWARE APPLICATIONS FOR MAINTAINING AND UTILIZING GEOGRAPHIC INFORMATION. EACH STUDENT WILL DEVELOP AND IMPLEMENT A GIS ANALYSIS MODEL. Required Previous: GIS-4753