GEOGRAPHIC INFORMATION SYSTEMS
FOR AGRICULTURE MINOR

2007-09 Cal Poly Catalog

College of Agriculture
Agricultural Sciences Bldg. (11), Room 211
(805) 756-2161, FAX: (805) 756-6577

An interdisciplinary program sponsored by three departments in the College of Agriculture, Food and Environmental Sciences: BioResource and Agricultural Engineering, Natural Resources Management, and Horticulture and Crop Science. New technologies of geographic information systems (GIS), global positioning systems (GPS), and orthophotography (uniform scale aerial photographs) are revolutionizing the management of resources. There are great employment opportunities for those who understand the technologies and society benefits from improved management decisions. Students interested in this minor may come from the following majors: forestry and natural resources; crop science; soil science; landscape architecture; agricultural systems management; bioresource and agricultural engineering or animal science.

Required Courses
BRAE 133 Engineering Design Graphics (3) and
BRAE 151 CAD for Agric. Engr. (1); or
CE 114 Intro. CAD Civil & Environ. Engr (4); or
LA 111 3-D Graphics/Landscape Arch (4) and
LA 310 Intro Computing/Landscape Arch (2) ..... 4/6
BRAE 239 Engineering Surveying ......................... 4
BRAE 345 Aerial Photogrammetry/Remote Sensing 3
FNR/LA 318 Applications in GIS ......................... 3
FNR 418 Applied GIS or
BRAE/LA/HCS 470 Selected Adv. Topics .......... 3

Emphasis areas (select one)................................. 12

Environmental Information Emphasis
BRAE 447 Adv Surveying-GIS Applications (4)
FNR 306 Natural Res Ecology/Habitat Mgt (4) or
BIO 325 General Ecology (4)
FNR 416 Environmental Impact Analysis (4)

Precision Agriculture Emphasis
CRSC 244 Precision Farming (4)
Select two of the following (8):
BRAE 447; CRSC 405, 410, 421, 431, 445; SS 433;
VGSC 423