

# PRECISION AGRICULTURE, MINOR

## College of Agricultural & Environmental Sciences

The Department of Biological & Agricultural Engineering (<https://catalog.ucdavis.edu/departments-programs-degrees/biological-agricultural-engineering/>) offers the minor in Precision Agriculture, the latest farming concept that optimizes fertilizer, pesticide and water use, while minimizing environmental concerns.

This minor acquaints students with recent developments and their applications to agriculture, in Geographic Information Systems (GIS), Global Positioning Systems (GPS), Variable Rate Technologies (VRT), crop & soil sensors, and remote sensing. The minor prepares students for challenging positions in site-specific crop management as we enter the "information age" in agriculture.

All core courses (ABT 150/LDA 150 and ESM 186) must be taken for a letter grade. Up to one elective course may be taken P/NP.

## Minor Advisors

S.G. Vougioukas; A. Pourreza (Biological & Agricultural Engineering Department)

## Minor Staff Advising

The Biological & Agricultural Engineering staff advisor is available to help students create academic plans for this minor and submit minor declarations. For more information, see Undergraduate Advising (<https://bae.ucdavis.edu/undergraduate/undergraduate-advising/>).

Code	Title	Units
<b>Required Courses</b>		<b>9</b>
ABT/LDA 150	Introduction to Geographic Information Systems	
ESM 186	Environmental Remote Sensing	
<b>Elective Courses</b>		<b>9</b>
Choose 9 or more units:		
ABT 181N	Concepts & Methods in Geographic Information Systems	
ABT/HYD 182	Environmental Analysis Using GIS	
PLS 100A	Metabolic Processes of Cultivated Plants	
PLS 100AL	Metabolic Processes of Cultivated Plants Laboratory	
PLS 100B	Growth & Yield of Cultivated Plants	
PLS 100BL	Growth & Yield of Cultivated Plants Laboratory	
PLS 100C	Environmental Interactions of Cultivated Plants	
PLS 100CL	Environmental Interactions of Cultivated Plants Laboratory	
SSC 109	Sustainable Nutrient Management	
Choose one:		
PLS 120 or STA 100	Applied Statistics in Agricultural Sciences Applied Statistics for Biological Sciences	
<b>Total Units</b>		<b>18</b>