



A division of the American Farm School

B.Sc. in Sustainable Agriculture and Management



Curriculum

1st Year

- Environment and Climate Change
- Principles of Biology
- Basic Mathematics
- Introductory Composition
- Information System Skills
- English Language I
- Sustainability & Society
- Mediterranean Diet: Science & Culture
- Introduction to Information System
- Introduction to Academic Writing
- Public Speaking & Business Communication
- English Language II

2nd Year

- Introduction to ICT for Agriculture and Environment
- Management - Business Administration
- Agricultural Marketing
- Environmental Technology and Agricultural Machinery
- Principles of Microbiology and Chemistry
- Learning Methods
- Introduction to Agro-Environmental Systems
- Environmental Soil Science
- Principles of Genetics and Plant Breeding
- Botany and Plant Propagation
- Entomology

3rd Year

- Principles of Precision Agriculture and Environmental Sustainability
- Research Methods - Statistics
- Waste Management
- Introduction to Livestock Science
- Plant Physiology
- Principles of Plant Pathology
- Field Crop Production
- Fruit Tree Production
- Viticulture
- Crop Nutrition & Soil Fertility Management
- Weed Science and Management
- Olive Production Systems

4th Year

- Post- Harvest and Olive Processing
- GIS in Agriculture and the Environment
- Medicinal and Aromatic Plant Production
- Horticultural Science
- Farm Management
- Greenhouse Technology and Management
- Ecological Agriculture
- Soil and Water Resource Management
- Precision Agriculture Applications

Dissertation

The **Bachelor of Science (B.Sc.) in Sustainable Agriculture and Management** is an academic program focused on providing high quality and professionally relevant undergraduate modules to transfer scientific and technical knowledge as well as practical skills. Program graduates benefit from a wide-ranging, critical understanding of the areas of agriculture and precision agriculture, the environment, sustainable crop and soil management, as well as human and animal nutrition and consumer issues as they relate to the SAM disciplines.

Specializations and Career Opportunities

Precision Agriculture

Precision Agriculture is the integrated use of cutting-edge technology and information-based, decision-making agricultural systems and methodologies. This innovative and holistic approach has as its primary aim the improvement and optimization of farm production processes and costs. Graduates are eligible to continue studying at the post-graduate level or directly enter the job market, working with firms and institutions that focus on farm products, agro-environmental consulting and waste management.

Livestock Management

This specialization enables students to acquire practical animal husbandry skills and learn the main production parameters of animal nutrition, reproduction, selection, installations, health and welfare. Graduates can continue their studies at the post-graduate level or directly enter the job market in fields related to the care and management farm animals.

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