AGRICULTURE

Agriculture major prepares students for employment in agri-food business and industry, agricultural service organizations, crop production and soil management, environmental and natural resource management, and farm management. Graduates pursue careers in the seed, fertilizer, and agricultural chemical industries as field Agronomists, crop and soil management specialists, research, sales and marketing specialists, and production managers. State and federal agencies employ Agriculture Graduates as extension specialists, county extension directors, environmental and natural resource specialists, research associates, breeding developers, soil surveyors, soil conservationists, and in regulatory agencies as plant, food, and grain inspectors. Additional areas of work open to Agriculture Graduates include integrated pest management, land appraisal, agricultural economy and policy, and food industry.

Our Faculty cooperates with other national and international programs in professional agriculture, genetics; molecular biology; plant physiology; sustainable agriculture; agri-food insdustry; and environmental science.

Bachelor Degree on Agrifood Engineering and Rural Environment

- Agricultural Production: Farm operation and production, sustainably raised agricultural products for local, national or international markets.
- Sales and Marketing: Work for food retailers, wholesalers, cooperatives, or direct-marketing initiatives that recognize the growing consumer demand for sustainably raised products.
- Geomatics and Remote Sensing applied to agriculture, monitoring methods; land measurements and assessments; spatial data management and analysis technologies.
- Economic analysis, policy development, and rural and international development. Agricultural or environmental issues, community and economic development, or the development of sustainable food systems.
- Watershed Management-Understanding watershed conditions and processes in agricultural landscapes and the effects of management activities; evaluating and improving soil and water quality and related practices and policies for forest operations.
- Rural Engineering-Designing and Construction of rural infrastructures (road, buildings, industries, etc.).
- Agro-food engineering-Designing and Construction of industries, machinery, supervising production, new products design and development, quality and safety.

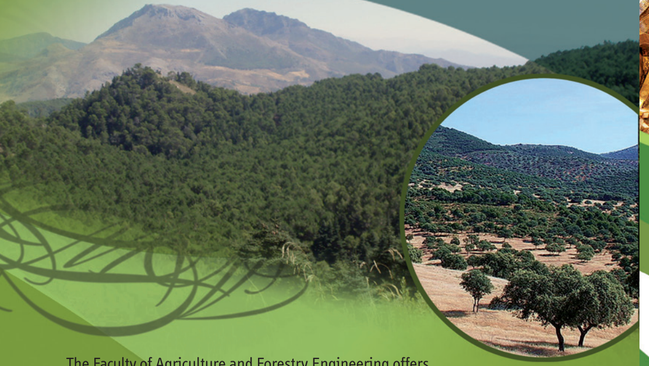
FORESTRY

As a forester, our students use curiosity and enthusiasm for science to help solve some of the toughest problems currently facing humanity: forest conservation, global change, natural resources sustainability, etc. Although each program has a specific area of focus, all programs provide a well-rounded education and a solid foundation for future growth. Scientists groups conduct research on a wide range of topics in the disciplines of forest botany, ecology, engineering, forest management, manufacturing and marketing of wood products, physiology, and remote sensing.

Studies in this field underpin not only forest management but also enhanced ecology restoration, landscape ecology, forest models and in general all of our degree programs heavily emphasize field and lab techniques, geographic information systems, and, computer and quantitative skills. We excel at bringing all our students together to work as a team in our complex natural world to answer the needs of society in Mediterranean silviculture and forest management.

Bachelor Degree on Forest Engineering

- Forest Biometrics and Geomatics-Modeling tree and stand development; forest data sampling and monitoring methods; forest measurements and assessments; spatial data management and analysis technologies.
- Silviculture, Fire, and Forest Health-managing vegetation to achieve management objectives, from restoration to intensive timber production; fire ecology and fire management; forest ecosystem health.
- Forest Watershed Management-Understanding watershed conditions and processes in forested ecosystems and the effects of management activities; evaluating and improving soil and water quality and related practices and policies for forest operations.
- Forest Operations Planning and Management-Planning, organizing, and executing forest plans; enhancing supply chain efficiency and improving competitiveness.
- Forest Policy Analysis and Management-Analyzing tradeoffs in the forest and resource policy decision process; public land use policy; interpretations of regulations; markets for forest products; forest certification; theoretical and applied research related to ecosystem services.
- Engineering for Sustainable Forestry-Designing forest operations to achieve sustainable forest management objectives; ecological restoration operations; road design and construction, etc.



The Faculty of Agriculture and Forestry Engineering offers undergraduate programs that lead to degrees in five areas of emphasis:

AGRICULTURE

1. Food and Agro-industries
2. Crop and animal production
3. Horticulture, gardening and Landscape
4. Rural Engineering

FORESTRY

1. Mediterranean silviculture and forest management

The Masters programmes being offered include:

- MSc in Agribusiness, Agricultural Economics, Agronomy (Crop Production and Crop Protection options)
- MSc in Rural Development
- MSc in Environmental Hydraulics
- MSc in Animal Nutrition and Management
- MSc in Geo Information Sciences applied to Forestry
- MSc in Global Change, Natural Resources and Sustainability
- MSc in Forest Fire Prevention and Management

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Faculty of AGRICULTURE and FORESTRY Engineering

UNIVERSITY OF CORDOBA

UNIVERSIDAD D CORDOBA

E.T.S.I.A.M.

The Faculty of Agriculture and Forestry Engineering at University of Córdoba (UCO) enjoys a long reputation as leader in agricultural and forestry research, teaching and extended education. Faculty and staff of our School are committed to educating students to create the future in a variety of agriculture areas to support producers, agri-business professionals and agro-food industry, as well as forestry, and wildlife ecology and management, and forest industry. We are a learning community strongly rooted in both academia and technology transfer, with a faculty that has strong connections to land managers, industry leaders and employers.

Our student can build strong working relationships with professors and peers while gaining a diverse, hands-on technical background in agriculture and forestry by developing management plans and options for rural landscapes and implementing them to meet society's needs while maintaining ecosystem integrity.

Scientists groups conduct research on a wide range of topics in the disciplines of food and feed industry, environmental impacts of crop production, erosion, wetland management, and wise use of natural resources, sustainable agriculture, engineering, forest management, and manufacturing and marketing of agricultural and wood products.