

Department of Horticulture and Crop Science

0601101 Principles of Plant Production

Horticultural crops including classification, structure, growth and development,

reproduction, horticultural environment ,horticultural technology, propagation,

mineral nutrition, training and pruning, growth regulation, horticultural and production systems

Horticulture, Floriculture and Forestry

This course deals with importance of fruit tree growing, classification of fruit tree

crops, orchard establishment (site selection, rootstocks, cultivars, planting

systems, and frost protection), flowering, fruit set, fruit drop and fruit growth and

maturation, cultural practices (pruning and training systems, fruit thinning, fertilizer application, irrigation, and pest control), harvesting and handling, and

use of plant growth regulators.

0601211 Floriculture

Production and maintenance of major and secondary cut flowers, flowering and

foliage pot plants, bulbous plants, bedding plants, hanging baskets, trees, shrubs,

hedges, other ornamentals, turf grass establishment and maintenance.

0601311 Cut Flowers Production

0601313 Forestry Science 2 3 3 0601101

Introduction, influences of forestry science, dendrology and forest trees classification. Forest ecology, ecological factors and their influences on forest

growth and development. Afforestation and Forest management. Role of forestry

in sustainable development. Agro-forestry systems. Windbreak and shelter belt

plantings. Forest protection, measurement and harvesting. Forests and afforestation in Jordan.



0601410 Woody Plant Materials

This module is designed to cover the soft landscape elements of woody materials.

Vegetables

Principles of production and transplants production industry. Vegetable crops:

Importance, classification, proper environmental conditions suitable for their

growth, different cultural practices for production, flowering, fruiting, maturity,

harvesting and storage.

Field Crops

Theoretical and practical information related to production of some cultivated

plants and common wild species in the local habitat, included also geographical

distribution of medicinal and aromatic plants related to environment and its various factors, cultural practices required for economic production of these

plants. Taxonomy, botanical classification, habitat, active constituents, plant parts used.

0601332 Herbaceous Ornamental Plants

This course focuses on the use of herbaceous plants as an important design

element. Topics include plant characteristics, cultural requirements, environmental factors,

0601333 Vines and Ground Cover

This module emphasizes on identification, propagation, use of ground covers and

vines. Turf grass establishment and maintenance will be covered.



0601334 Indoor Plants

This module will cover the identification, cultural requirements and growth habits

of ornamental foliage and flowering plants for indoor use. Genetics, Physiology and Propagation

0601241 Crop Physiology

Control of crop physiological processes in relation to genetic, enzymatic, hormonal and phytochrome systems. Crop water status, nutrition and energy

metabolism in relation to yield. Photosynthesis, transport, and accumulation of

photosynthesis. Use of plant growth regulators in agriculture. Crop growth and

development in relation to environment. Stresses and their effects on crop growth, adaptations, and acclimatization.

0601341 Plant Propagation

General aspects of propagation, biology of propagation, environmental factors,

principles of seed selection, techniques of propagation, vegetative propagation;

selection and management of clones, biology and techniques of propagation by

cuttings, grafting, budding, layering and its natural modifications, specialized

stems and roots; principles of tissue culture, biotechnology and micro propagation.

Farm Machinery

Introduction; Simple machines and their function; Methods for power transmission; Hydraulic system; Types of Farm Tractors and their uses; Soil

preparation equipment for planting crops; Spraying and fertilizing equipment;

Harvesting equipment for seed and feed crops; Field capacity of a farm machine

and conditions for its selection.



(6) Design 0601260 Principles of Landscape

This module will cover an introduction to history and theories of landscape design, the principles of landscape design, Design analysis, site planning, vehicular and pedestrian circulation and the layout of architectural and horticultural elements.

0601360 Xeriscaping

This course is designed to expose students to the importance of water savings in

arid and semiarid regions. This module will identify the principles of xeriscaping,

familiarize students with mulches, irrigation choices, xeric designs and options for

aesthetic inclusions into your xeric landscape.

0601361 Hard Landscape Elements

Develop an understanding of commonly used landscape construction materials.

including stone, concrete and wood. Learn to incorporate design elements such

as decks, patios, fences and walkways into the landscape, furniture, light and

water elements will be covered.

0601460
Establishment and
Management of Landscape
sites

Site management, analysis, design, and construction, including skill development

in land topography, irrigation, drainage, and vegetative composition.

Seminars, Research, Training, and Graduation Project 0601492 Seminar in Landscaping and Floriculture

Training of the student on collecting proper information on specific subject on

Area of specialization from different sources, presentation and discussion.



0601493 Project on Design and Establishment of Landscape

Student must prepare graduation project under staff member's supervision. This project will be evaluated by staff committee in the department.

0601496 Practice in Landscaping

Students will train on practices in landscaping at locations determined by the department

0601499 Field Training in Horticulture and Crop Science

Training students to develop special skills in production of vegetables, fruit trees and ornamentals. Students will practice all agricultural practices in plant

(*) Minimum successful 95 credit hours.

University elective courses

production.

630100 Agriculture in Jordan

This course deals with the development and importance of agriculture in the

world, Arab world and in Jordan. The course also covers the agricultural environment in Jordan, elements of production, plant production in dry land and

irrigated areas, animal production, marketing of agricultural products, mechanization in agriculture, and finally the different organization dealing with

agricultural activities in Jordan. Agricultural development plans and their effect on

the agricultural sector in Jordan



641100 Home Garden

This course outlines the importance of the home garden and its best utilization. It

deals with the design and layout of the home garden to include summer and

winter annual plants, bulbs, lawn, vegetable garden, and fruit trees. It covers

knowledge of cultural practices such as pruning, propagation, fertilization and

pest control, in addition to culturing and maintenance of indoor house plants.