**The University of Jordan**

**Faculty: Agriculture**

**Department: Department of Horticulture and Crop Science**

**Program:**

**Academic 2013/2014First Semester**

**Floriculture (0601211)**

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| **Credit hours** | 3 | **Level** | Second year | **Pre-requisite** | Principles of Plant Production (0661101) |
| **Coordinator/ Lecturer** | Dr. Malik Al-Ajlouni | **Office number** | Greenhouse building | **Office phone** | 22378 |
| **Course website** | On UJ E. Learning portal @ Moodle LCM . | **E-mail** | m.ajlouni@ju.edu.jo | **Place** | Hall 189 |
| **Lectures time** | 8:00 - 9:00 a.m. Monday and Wednesday | **Laboratory time**  | 3:30 - 6:30 p.m. Monday or Wednesday | **Teaching assistant** | Eng. Layla Alkhatib |

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| **Office hours** |
| **Day/Time** | **Sunday** | **Monday** | **Tuesday** | **Wednesday** | **Thursday** |
| **Day** |  | **\*** |  | **\*** |  |
| **Time** |  | 9:00-11:00 |  | 9:00-11:00 |  |

**Course Description**

 This course deals with 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.

**Learning Objectives**

* To expose students to the main categories of ornamental plants.
* To develop the technical and practical experience of the student through dealing with a diverse collections of ornamental plants.
* To recognize the ornamental value for a wide varieties of outdoor and indoor ornamental plants.

**Intended Learning Outcomes (ILOs):**

Successful completion of the course should lead to the following outcomes:

**A. Knowledge and Understanding:** Student is expected to

**A1-**Expose to the main categories of ornamental plants.

**A2-** Demonstrate basic knowledge for identifying common ornamental outdoor and indoor plants.

**A3**- Recognize the ornamental values for wide varieties of outdoor and indoor ornamental plants.

**A4-**Understand the environmental and biological factors that optimize plant growth and production.

**A5-**Learn the scientific approaches of applying the most suitable culture practices for growing ornamental plans.

**B. Intellectual Analytical and Cognitive Skills:** Student is expected to

**B1**-understandhow manipulating the environmental factor can minimize or maximize the growth and production of ornamental plants.

**B2**-Know about the proper culture practices that should be made before, during, and after planting the ornamental plants.

**C. Subject- Specific Skills:** Students is expected to

**C1**- Apply and analyze methods of cultural practices and production of ornamental plants.

**C2**- Explain the underlying the environmental and biological factors that lead to decrease or increase the quality and the quantity of ornamental plants. This will be applied for each studied plant so get more practices and experiences.

**C3**-Expose to the major problems the associated with production and maintenance programs.

**D. Transferable Key Skills:** Students is expected to

**D1**-Gain basic production and cultural practices technologies to maintain the quality of ornamental plants.

**D2**-Know the right time to apply any recommended cultural practices or plants supplementary requirements.

# ILOs: Learning and Evaluation Methods

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| **ILO/s** | **Learning Methods** | **Evaluation Methods** |
| **A**. Knowledgeand understanding (**A1-A5**) | Lectures and Discussions | Exam |
| **B**. Intellectual Analytical and Cognitive Skills (**B1-B2**) |  Lectures and Discussions | Exam |
| **C**. Subject Specific Skills (**C1-C4**) | Lectures and DiscussionsLaboratory workLaboratory report | ExamQuizEvaluation  |
| **D**.Transferable Key Skills (**D1-D3**) | Laboratory workLaboratory Project  | QuizProjectevaluation  |

**Course Contents**

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| --- | --- | --- | --- | --- |
| **Date** | **Day** | **Lecture topic** | **Lab topic** | **ILOs** |
| 16-Sep | Mon | Introduction to ornamental plants | Sowing annual seeds | A1, A2 |
| 18-Sep | Wed | Introduction to ornamental plants |
| 23-Sep | Mon | Outdoor ornamental trees | Propagation of some ornamental plants | A1, A2, A3, A4, A5, B1, B2, C1, C2, D1, and D2. |
| 25-Sep | Wed | Outdoor ornamental trees |
| 30-Sep | Mon | Outdoor ornamental shrubs | Trees identification and maintenance | A1, A2, A3, A4, A5, B1, B2, C1, C2, D1, and D2. |
| 2-Oct | Wed | Outdoor ornamental shrubs |
| 7-Oct | Mon | Ornamental herbaceous plants | Shrubs identification and maintenance | A1, A2, A3, A4, A5, B1, B2, C1, C2, D1, and D2. |
| 9-Oct | Wed | Ornamental herbaceous plants |
| 14-Oct | Mon | *Eid Al-Adha Holiday (estimated)\** | *Eid Al-Adha Holiday (estimated)\** |  |
| 16-Oct | Wed | *Eid Al-Adha Holiday (estimated)\** |
| 21-Oct | Mon | Bulbs, tubers, corms, and rhizomes | Identification, propagation, and planting of bulbs, tubers, corms, and rhizomes | A1, A2, A3, A4, A5, B1, B2, C1, C2, D1, and D2. |
| 23-Oct | Wed | ***First exam*** |
| 28-Oct | Mon | Indoor ornamental plants | Identification, propagation, and planting of indoor plants | A1, A2, A3, A4, A5, B1, B2, C1, C2, D1, and D2. |
| 30-Oct | Wed | Indoor ornamental plants |
| 4-Nov | Mon | *Hijri New Year’s Day (estimated)\** | Field trip on 2/11/2013 | A1, A2, A3, A4, A5, B1, B2, C1, C2, D1, and D2. |
| 6-Nov | Wed | Cacti and succulents |
| 11-Nov | Mon | Cut flowers | Identification, propagation, and planting of cacti and succulents | A1, A2, A3, A4, A5, B1, B2, C1, C2, D1, and D2. |
| 13-Nov | Wed | Cut flowers |
| 18-Nov | Mon | Cut flowers | Cut flower training, pruning, and pinching | A1, A2, A3, A4, A5, B1, B2, C1, C2, D1, and D2. |
| 20-Nov | Wed | Cut flowers |
| 25-Nov | Mon | ***Second exam*** | Cut flower training, pruning, and pinching | A1, A2, A3, A4, A5, B1, B2, C1, C2, D1, and D2. |
| 27-Nov | Wed | Container plants |
| 2-Dec | Mon | Container plants | Preparing and planting containers | A1, A2, A3, A4, A5, B1, B2, C1, C2, D1, and D2. |
| 4-Dec | Wed | Bedding plants |
| 9-Dec | Mon | Bedding plants | Preparing and planting bedding plants | A1, A2, A3, A4, A5, B1, B2, C1, C2, D1, and D2. |
| 11-Dec | Wed | Groundcovers and climbers |
| 16-Dec | Mon | Hedges, topiary, and espalier | Hedge shearing and espalier training | A1, A2, A3, A4, A5, B1, B2, C1, C2, D1, and D2. |
| 18-Dec | Wed | Turfgrass |
| 23-Dec | Mon | Turfgrass | Turfgrass maintenance | A1, A2, A3, A4, A5, B1, B2, C1, C2, D1, and D2. |
| 25-Dec | Wed | *Christmas Day\** |
| 30-Dec | Mon | Turfgrass | **Final lab exam** |  |
| 1-Jan | Wed | *New Year’s Day\** |
| *\* Expected holiday* |   |  |

**Learning Methodology**

The main learning methods that should be used in this course are:

* Both lectures and laboratories are required in this course.
* This course will be covered through the 16 weeks in this semester including two hours of lecture and three hours of laboratory work.
* The laboratory work concentrates on the practical aspects including media preparation, seeding, propagation, transplanting, training, pruning, thinning, production, general plant identification, grass maintenance.
* Field trip to visit several plant nurseries that are specialized in outdoor and indoor ornamental plants in addition to visit some cut flowers farms in Baqaa. The field trip on 2/11/2013 is obligatory

## Projects and Assignments

* Laboratory project should be made through planting four containers and planting one flower bed during the first two weeks of December.
* Lab work will be made through groups that formed from three students. The group partners will be chosen randomly.
* Lab reports are required for the laboratory parts.
* Lab quizzes will be held at the beginning of each lab.

# Evaluation

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| **Evaluation** | **Point %** | **Date** |
| First Exam | 15% | 23-Oct. |
| Midterm Exam | 15% | 25-Nov. |
| Lab quizzes  | 5% |  |
| Lab report  | 10% |  |
| Lab project | 5% |  |
| Final lab exam | 10% | 30-Dec. |
| Final Exam | 40% |  |

**Main Reference/s:**

1. Hartmann, H. T., Flocker, W. J., &Kofranek, A. M. (1981). *Plant science: growth, development, and utilization of cultivated plants*. Englewood Cliffs, N.J.: Prentice-Hall.
2. Larson, R. A. (1980). *Introduction to floriculture*. New York: Academic Press.

**Intended Grading Scale (Optional)**

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| 0-39 | 40-49 | 50-54 | 55-59 | 60-64 | 65-69 | 70-73 | 74-76 | 77-80 | 81-84 | 85-89 | 90-100 |
| **F** | **D**- | **D** | **D+** | **C**- | **C** | **C+** | **B**- | **B** | **B+** | **A**- | **A** |

**General rules**

**and notes:**

* Never come late to the classroom, you will disturb your mates and your instructor.
* Turn OFF your cell phones during the class.
* DO Not TALK during the class please, unless you have a question for me.
* Late lab reports are still accepted with a 10% penalty for every late CALENDAR day.
* Make up exams are not held without an official signed and approved excuse.
* The exams specified on the course syllabus are not subject to negotiations or change once approved by you TODAY.