

Course Syllabus
020IRRG4 – Irrigation

1. **Course number and name:**
2. **Credits and contact hours:** 2 credits – 17.5 hours
3. **Instructor's or course coordinator's name:** Ahmad EL HAJJ
4. **Textbook and other supplemental material:**
 - a. Instructor's class notes
5. **Specific course information**
 - a. **Catalog description:** Teach students the importance of irrigation, plant behavior, calculation and irrigation practices
 - b. **Prerequisites:** None.
 - c. **Required/Elective/Selected Elective:** Required major course for Water and Environment Specialty students
6. **Specific goals for the course**
 - a. **Specific outcomes of instruction:**

By the end of the course, the student will be able to:

 - define the water cycle
 - identify the importance of irrigation systems
 - calculate agricultural water demand
 - understand evapotranspiration principles and soil-plant-water relationships
 - describe irrigation and drainage systems
 - use appropriate methods for an effective design of irrigation and drainage systems
 - b. **KPIs addressed by the course:**

KPI	a2	c1	c2	e1	e2
Covered	x	x	x	x	x
Assessed					
Give Feedback					

7. **Brief list of topics to be covered and approximate number of lectures:**

Review of water cycle and importance of irrigation systems (1.5 hours)
Types of irrigation systems and machinery (6 hours)
Evapotranspiration and plants (3 hours)
Sprinkler irrigation (3 hours)
Irrigation and drainage (2 hours)
Irrigation in a Lebanese context (2 hours)