

AG 235 Irrigation Principles and Design

3 credits

Days and Time

INSTRUCTOR: Ringuette

OFFICE: Hale Uluwehi

OFFICE HOURS:

TELEPHONE: 236-9265

EFFECTIVE DATE: Spring 2011

WINDWARD COMMUNITY COLLEGE MISSION STATEMENT

Windward Community College is committed to excellence in the liberal arts and career development; we support and challenge individuals to develop skills, fulfill their potential, enrich their lives, and become contributing, culturally aware members of our community.

CATALOG DESCRIPTION

Fundamentals of irrigation principles, plant, soil, water relationships, soil moisture sensing devices, delivery systems, set up of drip, sprinkler, and surface irrigation systems. Use of chemigation

Activities Required at Scheduled Times Other Than Class Times

None

STUDENT LEARNING OUTCOMES

The student learning outcomes for the course are:

- Determine water requirements for plant growth.
- Describe soil water concepts
- Select the appropriate irrigation method and components for the situation.
- Design a basic drip and sprinkler irrigation system.
- Trouble shoot irrigation problems

Concepts or Topics (List the terms, topics, or concepts students should know or understand)

- **Soil, water, plant relationships**
- **Irrigation components**
- **Irrigation methods**
- **Irrigation design**
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Skills or Competencies (List what students should be able to do in order to complete the student learning outcomes)

- 1. Determine plant water requirements*
- 2. Identify irrigation components*
- 3. Determine effective irrigation methods*
- 4. Design and install an irrigation system*
- 5. Troubleshoot irrigation systems*

COURSE TASKS

Attend lectures, take exams and quizzes

Read assigned material.

Participate in class discussions

Develop an irrigation plan

ASSESSMENT TASKS AND GRADING

Exams	40%
Quizzes	10%
Irrigation Project	30%
Participation	20%

GRADES:

A= 90% OR HIGHER

B= 80-89%

C= 70-79%

D= 60-69%

F= LESS THAN 60%

Please refer to the WCC College catalog for audit, withdrawal, and incomplete options.

STUDENT RESPONSIBILITY:

1. Students unable to be present on the day of the exam are required to notify the instructor at least one day prior to the exam day. It is the responsibility of the student to make up any exams and or classes missed.
2. Students absent from class will be held responsible for the material covered in class and any announcements made in class.

ATTENDANCE POLICY:

You will be allowed 2 sick days and one vacation day during the semester. If you are more than one-half hour tardy you will be docked a half day. If you use more than the allotted time you will LOSE 2 points toward the final grade for each day missed beyond the allocated amount. If you do not use up your allotted leave time you will gain 2 points toward the final grade for each unused day.

LEARNING RESOURCES

Landscape Irrigation Design Specifications Rainbird Corporation Manual
Calculator, Graph paper (10 squares per inch)

DISABILITIES ACCOMMODATION STATEMENT

If you have a physical, sensory, health, cognitive, or mental health disability that could limit your ability to fully participate in this class, you are encouraged to contact the Disability Specialist Counselor to discuss reasonable accommodations that will help you succeed in this class. Ann Lemke can be reached at 235-7448, lemke@hawaii.edu, or you may stop by Hale 'Akoakoa 213 for more information.

Revised May 10, 2007