

SYLLABUS**INSTRUCTOR:** B. L. Stringam

Skeen N 330

TEXT: Hargreaves, G.H. and Merkle G.P. 2010. Irrigation Fundamentals, Water Resources Publications, LLC. (<https://www.wrpllc.com/books/if.html>)**IMPORTANT DATES:** Midterm Exams: Feb 11th, Mar 18th and April 22nd; Final Exam: Monday May 2nd (8 - 10 am).**Course Topics:**

Irrigation Fundamentals	Crop production factors
Soil Water Relationships	Water holding capacity
Irrigation Resources	ET using Hargreaves equation
Crop Water Requirements	Irrigation Scheduling
Surface Irrigation	Sprinkler System
Drip Irrigation	Bubbler Irrigation
Other Irrigation Methods	Pump efficiency
Open-channel flow measurement	Pipe Flow Measurement
Drainage	System management

COURSE OVERVIEW: This course will cover the fundamentals of irrigating crops. Participants will learn about common irrigation methods, the benefits and problems that are associated with each method, and how to evaluate the effectiveness of each method. Students will also learn about the principles of estimating water use and how to use this as a management tool.**ATTENDANCE:** Attendance in lecture is strongly encouraged. If a student is borderline between letter grades, consideration will be given to class attendance and participation. The midterm examinations will be on Feb 11th, Mar 18th and April 22nd. If you will be out of town for an approved University activity on these days, please notify me *in advance* of the exam.**QUIZZES AND EXAMINATIONS:** Examinations generally will be on the material covered prior to the exam. However, they will infer that you know previous material covered. Exams will be short answer, definitions, multiple choice and **calculations**. The final exam is a comprehensive exam covering the entire course. The midterms and final will be one-hour in length.**ASSIGNMENTS:** The assignments will cover the quantitative aspects of soils (calculations). Similar problems will be on the quizzes and exams. All work, including conversions and proper units, must be shown with the answers in order to earn full credit.

GRADING: Three one hour exams @ 100 points each	300 pts.
Assignments and Reports	100 pts.
Term Assignment	50 pts.
Final Exam (8 - 10 pm May 2 nd)	100 pts.
TOTAL	450 pts.

For information on Discrimination & Disability Accommodation, Academic Misconduct, Important Dates and Student Support Services use the following address.

<https://provost.nmsu.edu/faculty-and-staff-resources/syllabus/policies.html>

Other NMSU Resources:

NMSU Police Department: (575) 646-3311 www.nmsupolice.com

NMSU Police Victim Services: (575) 646-3424

NMSU Counseling Center: (575) 646-2731

NMSU Dean of Students: (575) 646-1722

For Any On-campus Emergencies: 911