

A EN-AGRICULTURAL ENGINEERING

A EN 459. Groundwater, Wells & Pumps

3 Credits (3)

Occurrence and movement of groundwater; design of water wells; selection and specification of pumps and power units. May be repeated up to 3 credits.

Prerequisite: C- or better grade in C E 382 or consent of instructor.

Learning Outcomes

1. Understand the occurrence and movement of groundwater in aquifers, and extraction of it.
2. Ability to interpret pump specifications and data.
3. Select and detail power units for pumping systems.

A EN 478. Irrigation and Drainage Engineering

3 Credits (2+3P)

Design and operation of surface and sprinkler irrigation systems; pumping and conveyances; introduction to principles and practices of drainage systems and wells. May be repeated up to 3 credits.

Prerequisite: C- or better grade in C E 382 or consent of instructor.

Learning Outcomes

1. Students will be able analyze and design irrigation systems.

A EN 498. Special Topics

1-3 Credits

Special topics in agricultural engineering. May be repeated up to 3 credits.

Prerequisite: consent of instructor.

Learning Outcomes

1. Students will develop knowledge related to the specific agricultural engineering special topic selected for study.