

AQUAPONICS

SAFS 704 & ANFS 840

LEARN ABOUT AQUAPONICS ON THE FARM

Aquaculture; Hydroponics; Systems theory;
Measuring environmental variables; Controls and
management; Water and resource management;
Integrated farming systems; Nutrient cycling
(capture and reuse)

COURSE LAYOUT

Lectures | W&F | 10:10 am – 12:00 pm

Discussion-based lectures, group projects, guest lectures. Assigned readings with written analyses (QOTP) with group discussions.

Farm Day | You (1 x MTWRF) | 8:10 – 11:00 am

We will utilize the UNH Kingman Farm Aquaponic Greenhouses. Labs include farm work experience, fish and plant management, written lab reports.

LAB & DESIGN PROJECTS

Aquaculture Fish Production

Learn how to handle, feed, schedule, and monitor fish growth in a recirculating aquaculture system.

Hydroponic Crop Production

Learn how to select, manage, schedule, and monitor crop production in a hydroponic system.

Water Treatment & Nutrient Management

Build & operate a biological filter. Analyze the microbial effects of nitrification management.

Comprehensive System Design Project

Design an aquaponic farm using the principles presented in class for a country of your choice.

HANDS-ON PRODUCTION GREENHOUSE EXPERIENCE!

- * All labs performed in the UNH Aquaponic Greenhouses at the UNH Kingman Farm.
- * Conduct research while learning how an aquaponic farm works from the inside and out!
- * Learn how to design an integrated aquaponic farm of your own.

This is a course for budding farmers!



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W+F, 1x/wk lab