AQUACULTURE INTRODUCTION

Course Description

Students will gain knowledge and develop skills with respect to the scientific method in the context of raising and breeding fish. Course topics include fish ecology, anatomy and physiology, water quality, aquaponics, and commercial and recreational management operations. Emphasis is placed on hands-on skill acquisition. Students will also explore educational preparation and career opportunities in aquaculture.

Standard 1

Explain the role of FFA in agriculture education.

Standard 2

Explain the role of supervised agricultural experience (SAE) programs in agricultural education.

Standard 3

Outline the steps of the scientific method.

Standard 4

Explain the history, importance, and scope of aquaculture.

Standard 5

Understand that living organisms such as fish interact with one another and their environment.

Standard 6

Apply principles of nutrition to ensure the proper growth, development, reproduction, and economic production of aquatic animals.

Standard 7

Describe fish anatomy and physiology concepts.

Standard 8

Be able to recognize and manage the health and well-being of aquatic animals.

Standard 9

Explain the inter-relatedness of fish and plants in the context of aquaponics.