

# AGRI 110C : Sustainable Agriculture I

Students will learn about agricultural disease and pest identification and management, ratios and proportions for mixing fertilizers and additives, soil and water chemistry, niche market identification, and agricultural adaptation to climate change in New England, as well as local and federal regulations and an introduction to resources for farmers. Lecture format will include formal lectures, guest speakers, and field trips. Labs will include in-lab research, experiments, and on- and off-campus fieldwork. Students will choose an area of specialization based on their market niche to begin the development of their portfolio.

**Credits 4**

**Lab/Practicum/Clinical Hours 2**

**Lecture Hours 3**

## **Learning Outcomes**

- Identify sustainable management strategies for common crop pathogens and pests.
- Prepare soils for planting using sustainable methods.
- Calculate fertilizer use, additive use, and land area.
- Research and apply sustainable practices to all aspects of agricultural production and management on a small farm.
- Explain the potential impacts of climate change on agriculture world-wide and on the local scale.
- Describe the regulations controlling the student's niche market.