# Contact Information

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# Course Description

Agricultural science considers the many aspects of sustainable food production, including plant propagation, water conservation, soil health, pollination, and pest management. Students will apply information learned in class by participating in several long-term, project-based field experiences, including the year-long maintenance of a garden plot, development and maintenance of a composting system, implementation of a hydroponic system, maintenance of a bee colony, and others.

# Learning Objectives

* To utilize scientific thinking to determine effective approaches to sustainable food production.
* To understand plant structure and physiology and employ this knowledge to select plants successful for local food production.
* To determine ways to maintain and promote healthy soil.
* To identify and implement ways to conserve water resources.
* To consider ways to encourage pollination s and support the health of pollinator species.
* To evaluate and employ various means of pest management.
* To understand healthy ways to harvest, preserve, and consume locally raised produce.
* To support the local community by sharing best practices and produce with community members.

# Materials

* Field notebook (provided by instructor)

• Pen/pencil

* Readings (provided by instructor)
* Colored pencils
* Field appropriate clothing (on field days)

# Course Work & Evaluations

Agricultural sciences will consist of a variety of activities. Success in the class will be determined by successful participation and completion of the following:

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| * Long-term project-based learning experiences * Readings * Class discussions, lectures, and guest lectures | * Labs & activities * Maintenance of a field journal * Field trips |

# Classroom Expectations

All students are expected to participate fully, to the best of their ability, in all class activities. This includes active participation in caring for the SLCSE-community garden, class discussions, lab experiments, field trips, projects, maintenance of a field journal, and other class assignments. Every class member is expected to treat every class member, course materials and specimens, and class guests with the utmost respect. Honesty and integrity is expected of everyone; failure to maintain an honest work ethic will result in disciplinary action.

# Scope and Sequence

|  |  |  |
| --- | --- | --- |
| **Sustainable Agriculture** | | Nature of Sustainable Agriculture |
|  |  | Agricultural Organizations & Careers |
|  |  | Agriculture in the Community |
| **Plant Sciences** |  | Taxonomy & Plant Selection |
|  |  | Morphology |
|  |  | Physiology |
| **Soils** |  | Soil types |
|  |  | Soil modifications |
|  |  | Compost |
| **Water** |  | Water conservation |
|  |  | Irrigation practices & applications |
| **Pest Control** |  | Weed control |
|  |  | Insect control |
|  |  | Rodent & other animal control |
| **Pollination** |  | Process of Pollination |
|  |  | Types of Pollinators |
|  |  | Establishing & Maintaining an Apiary |
| **Animal Husbandry** | | Animal anatomy |
|  | | Animal nutrition |
| **Nutrition** | | Human Nutritional Needs |
|  | | Cooking with Local Foods |

**STUDENTS & PARENTS/GUARDIANS: PLEASE ACKNOWLEDGE THAT YOU HAVE REVIEWED THIS COURSE DICSCLOSURE AND PROVIDE ADDITIONAL INFORMATION BY COMPLETING THE ACKNOWLEDGEMENT FORM ON CANVAS** (*“course disclosure form” assignment*)