

2015-2016 Internship Descriptions for the Market Garden

General Market Garden Internship

Description and responsibilities:

The intern will participate in the following activities and will focus on and master one or two of them. The goal of focus activities is to achieve sufficient mastery to be able to lead novices.

- harvesting produce for CSA and UC Dining Service
- sowing seeds and maintaining plants in the green house
- transplanting and maintaining plants in the field
- weed management practices
- pest control (insects, diseases, nematodes, or vertebrate pests)
- irrigation of crops (sprinkler, drip, or furrow)

Requirements: No previous gardening/farming experience necessary. A minimum of 3 hours per week is required, and should be split between harvest and non-harvest days. More than three hours/week are recommended.

Materials:

The Student Farm Handbook, located in the Packing Shed and on our website contains educational materials on harvesting, raising plants in the green house, irrigation, and others to be added. Reading these materials is highly recommended.

Objectives 1st quarter:

After 30 hours in this internship, the student will have participated in all of the listed activities with a trained lead student farmer, one or more times. They will have focused on one or two of the activities and achieved a passing evaluation.

Assessment 1st quarter:

Along with field hours, a journal must be kept.

Objectives 2nd quarter:

After 60-90 hours in this internship, the student will have experienced all of these tasks with a trained lead student farmer, and will have lead new students in the activities mastered in the first quarter. The student will have selected one or two new focus activities during the 2nd quarter and achieved a passing evaluation.

Assessment 2nd quarter:

Along with field hours, a written report or other agreed upon written documentation will be turned in. Interns will be evaluated on their focus activities at the end of the quarter.

Greenhouse Internship* - MG

Description and Responsibilities: The greenhouse intern will learn and take responsibility for the full range of activities in the Market Garden greenhouse. These include:

- preparation of seed flat mix
- sowing seeds
- fertilizing plants
- pest and weed control
- crop planning

*Type A Internship - Specific responsibilities that are ongoing regardless of intern/volunteer interest or involvement

**Type B Internship - Specific Student Farm project-based internships that need to be done

- growing crops in the green house
- irrigation

Requirements: Experience working in the Market Garden or equivalent is needed. Six hours/week are required, either in two 3-hour days, or three 2-hour days. This will provide enough hours for two internship units

Materials: The Student Farm Handbook, located in the Packing Shed and our website has information on producing transplants in the green house.

Objectives 1st Quarter: To learn all the facets of greenhouse management.

Assessment 1st Quarter: At the end of quarter the intern will be given a hands-on test of various green house activities. The journal will be evaluated..

Objectives 2nd Quarter: To be able to lead new students in all facets of greenhouse management and to maintain all greenhouse functions.

Assessment 2nd Quarter: The journal will be evaluated. In addition, interns will be evaluated on all of the above activity areas. Intern/student interactions will be observed and feedback provided.

Farm Planning Internship**

Description and Responsibilities: The intern will work with the Market Garden Coordinator to document sowing, plantings, bed prep, fertilizations, irrigations, pest control, sales and marketing throughout the quarter. Intern is encouraged to continue for several quarters. When not recording activities, the intern will participate in on-going Market Garden activities.

Requirements: Previous internship, class, or volunteering in the Market Garden.

Materials: Notebook and pen required.

Objectives: The goal is to develop a year-long crop planning and activities document.

Assessment: The information recorded in the notebook will be reviewed by the Market Garden Coordinator for accuracy and completeness.

Pest Management Internship* - MG

Description and Responsibilities: The intern will focus on pest management problems in the Market Garden fields and green house. Duties will include:

- monitoring fields and green house for pests
- maintaining sticky traps in greenhouse for fungus gnat adults
- spraying predatory nematodes or nematodes in green house
- locating and trapping gophers and squirrels
- implementing strategies to control weeds—hoeing, mulching, flaming
- applying organically approved pesticides, if needed

Materials: The UC IPM Guides for various crops are very helpful for making pest management decisions. They are available in Mark's office.

Requirements: A minimum of 3 hours, split between two days a week. A journal of activities and reflections must be kept. Training will be provided for these activities. . Previous Student Farm internship experience is preferable, but not required

*Type A Internship - Specific responsibilities that are ongoing regardless of intern/volunteer interest or involvement

**Type B Internship - Specific Student Farm project-based internships that need to be done

Objectives 1st Quarter: The goal is practice, implement, and master pest management activities in the Market Garden.

Assessment 1st Quarter: Along with field hours, a journal must be kept. Interns will be evaluated on the activities listed above.

Objectives 2nd Quarter: . The goal is to achieve sufficient mastery to be able to lead novices in these activities.

Assessment 2nd Quarter: Interns will be evaluated on sharing pest control practices with other students.

CSA Internship* - MG

Description and Responsibilities: The intern will learn all aspects of the Student Harvest CSA. including:

- harvesting for the CSA
- planting for the CSA
- writing the weekly letter for the CSA
- learning about and helping with the CSA database
- maintaining CSA equipment and supplies
- learning about and helping to plan for the CSA
- learning about and helping with the renewal process

Materials: Existing CSA manager will provide hands-on training. Student Farm website has a document on CSA Crop Planning.

Requirements: This internship requires at least 3 hours/week, and 6 hours is preferred. The intern must work more than one quarter, an entire year is preferred. A journal is also required. Previous Student Farm internship experience is required.

Objectives 1st Quarter: The intern will be taught how to manage the membership database and do renewals, write the weekly letter, prepare the check-off sheet. Share in making decisions of what goes into the CSA baskets. Work to harvest and fill the baskets.

Assessment 1st Quarter: The intern will be evaluated on their proficiency in completing these tasks. Journals will be reviewed.

Objectives 2nd Quarter: The goal is to achieve sufficient mastery to manage the CSA and to be able to lead novices in these activities.

Assessment 2nd Quarter: Intern will be evaluated on smooth operation of CSA and on ability to teach a new student the complete operation.

Crop Production Internship* - MG

Description and Responsibilities: The intern will plan and grow a vegetable crop that will be integrated into Market Garden sales to the CSA, Farmers Market, Coffee House or the UC Davis Dining Services. Activities include:

- crop planning
- land preparation and fertilization
- sowing seed and/or transplanting
- irrigation
- pest management
- harvest
- sales

Requirements: The intern needs to work 6 hours/week and may need more than one quarter to complete the crop production process. A journal is also required. Students are eligible for this internship after having completed a general internship or equivalent experience.

Materials: To be determined depending on the crop.

Objectives: Single handedly grow a crop for the Market Garden sales program.

*Type A Internship - Specific responsibilities that are ongoing regardless of intern/volunteer interest or involvement

**Type B Internship - Specific Student Farm project-based internships that need to be done

Assessment: Along with field hours, a journal must be kept. Interns will be evaluated on the success of their cropping experience.

Irrigation Internship* - MG

Description and Responsibilities: The intern will learn and implement drip, sprinkler, and furrow irrigation techniques in the Market Garden. Activities will include:

- all aspects of setting up and operating a drip irrigation system
- all aspects of setting up and operating a sprinkler irrigation system
- all aspects of setting up and operating a furrow irrigation system
- gaining an understanding of CIMIS evapotranspiration info. and applying it to irrigation
- repair and maintenance of irrigation systems

Materials: The Student Farm Handbook has modules on sprinkler and drip irrigation.

Requirements: A minimum of 3 hours/week is required, preferably split over two days during the week. It is usually best to do this internship in the Spring, Summer, or Fall. Previous Student Farm internship experience is preferable, but not required.

Objectives 1st Quarter: To learn to make decisions on when to irrigate. To be able to successfully set up sprinkler,

Assessment 1st Quarter: Along with field hours, a journal must be kept. Interns will be evaluated on the activities listed above.

Objectives 2nd Quarter: To reach a level of expertise sufficient to train new students.

Assessment 2nd Quarter: Intern and new trainees will be evaluated for proficiency in irrigation.

Weed Identification Handbook Project Internship - MG**

Description and Responsibilities: The intern will identify, collect, and label weeds, and incorporate them into a book to be used by Market Garden participants. Activities will include:

- collecting and identifying weeds at various stages of growth
- preserving weeds for illustration
- creating a book to be used by other students that includes information about weed season, life cycles, growth habit, etc.

Materials: Various Weed ID books located in Mark's office.

Requirements: This internship requires at least 3 hours/week and can be done one quarter at a time, e.g. "Spring Weeds", "Fall Weeds", etc. Previous Student Farm internship experience is preferable, but not required. Weed ID pages will be produced for use in the Market Garden, in lieu of a journal.

Objectives: Collect, identify, preserve, mount, and describe weeds on the farm.

Assessment: Along with field hours, interns will be evaluated on quality and extent of Weed Handbook generated during the quarter.

Construction Project Internship - MG**

Description and Responsibilities: The intern will help construct equipment or facilities needed by the Market Garden to improve vegetable production. Possible projects include:

- hoop house construction
- tractor implement construction
- packing shed renovation or improvements
- green house renovation or improvements

*Type A Internship - Specific responsibilities that are ongoing regardless of intern/volunteer interest or involvement

**Type B Internship - Specific Student Farm project-based internships that need to be done

- trellis construction

Materials: Construction materials.

Requirements: The intern will work with the Market Garden Coordinator to plan and implement projects. A minimum of 3 hours/week is required. Most projects can be completed in one quarter. Previous Student Farm internship experience is preferable, but not required. Safety training required for all power tools.

Objectives: To complete the construction project and make the farm more functional and beautiful.

Assessment: Along with field hours, a journal must be kept. Interns will be evaluated on quality of work and development of new skills.

Seed Saving Project Internship - MG**

Description and Responsibilities: The intern will learn about saving seeds from a variety of vegetables and fruits grown at the Student Farm or elsewhere. Activities include:

- seed saving planning
 - preparations needed to save seed
 - gathering seeds from plants
 - cleaning seeds
 - storing seeds
 - introductory plant breeding
- Germination testing

Materials: Several books on seed saving are located in Carol's office.

Requirements: This internship requires a minimum of 3 hours/week. Spring, summer and fall are the best quarters to participate. Some seed saving projects may require more than one quarter. Previous Student Farm internship experience is preferable, but not required. The intern is required to save seeds.

Objectives 1st Quarter: The intern will learn the basics of seed saving as outline above. Seeds from several different plants will be saved.

Assessment 1st Quarter: Along with field hours, a journal must be kept. Interns will be evaluated on quality and quantity of seed saved and mastery of seed saving techniques.

Objectives 2nd Quarter: The intern will continue to save seed and will teach new students what they have learned via in-field, hands-on practice.

Assessment 2nd Quarter: The intern will be evaluated on seed saved and ability to share seed saving practices with others.

*Type A Internship - Specific responsibilities that are ongoing regardless of intern/volunteer interest or involvement

**Type B Internship - Specific Student Farm project-based internships that need to be done