

Student Experimental Farm Project and Activities Proposal Form

This document serves as a proposal for those who wish to do activities at the student experimental farm, and seeks to clarify proposed activity details. Before implementation can take place, projects must be approved, first, by identified SEF Faculty Facilitator (presently Dr. Pete Schwartz), and then by HCS Department Head (presently Dr. Scott Steinmaus), and Cal Poly Environmental Health and Safety.

SEF Mission Statement

Bringing the "old organic farm" back to life, we envision an interdisciplinary learning community dedicated to teaching, learning, practicing sustainability.

Project Title: Tropical fruit production and miniature fruit tree culture through hydroculture

Statement of Project: Testing the production capabilities of tropical fruit such as mangos within coastal regions of California with limited frost, as well reducing water requirements in fruit production through cultivation in hydroponics or aquaponics.

Project Type: Please put an "X" in all appropriate boxes

Senior Project Class Project Independent Project Event Other (specify)

List name of advisors with contact information: >> none<<

List Participants with Cal Poly affiliation (i.e., student, staff, none): Marcel Mueller

Project Location

On the map below, please find a red circle that you can change in size and location. Please adjust this circle so that it fully describes the areas you will plan to use. If you require more than one location, please make multiple copies of the circle.



Please specify location details: Working together with Agroecology potted trees will be placed in area that is in the process of being made level.

Deliverables

What is the project or activity meant to achieve, create, or deliver? This project is meant to act as proof that other species besides avocados and citrus can be grown effectively in the San Luis Obispo climate. Secondly, experimentation with fruit trees grown in hydroculture is in preparation for a possible upcoming senior project of high efficiency almond production in hydroculture.

Project Details and Logistics

Please list all reasonably possible activities that will take place and refer to the Cal Poly Risk Management website and the guidelines listed in the Program Development Document to determine whether training, precautions, or supervision is required for any activities listed.

Digging holes for fruit trees, putting together plumbing material, pruning fruit trees, cloning fruit trees, data collection etc.

Potential Hazards

Describe anything you can foresee that might threaten safety or property and what might be done to mitigate risk. none

Timing and Permanence

Over what period of time will the project or activity take place? *Projects are limited to two years. If your project extends beyond this time period, you can extend it with another application.*

Starting date: October 27

Ending Date: 2020

Can project be easily disassembled? If so, how and when will it be disassembled? What condition will the project be left in when project is finished? *No project can use cement, concrete, or plaster without specific request and permission.* Yes it can be easily disassembled.

Funding

How is this project going to be funded? How is the work and cost of the project going to be supported? Please list funding sources and chances of success from each source.

Self-funded until grant is written and approved.

Strategic Context

How does the project relate to SEF's and Cal Poly's missions?

This project will enable a Cal Poly Horticulture student to experiment and increase crop diversity while proving that alternative crops and productions techniques can be used effectively in San Luis Obispo's climate. This projects experimental aspect coincides with the experimental farms mission as an area

for students to explore uncommon agricultural practices and Cal Poly mission of education and agricultural improvement.

Contract

By signing below, I **Marcel Mueller** hereby request consideration, acceptance, and approval of the above project/activity proposal. I am committed to complete the project/activity as outlined in the Guidelines for Projects and Activities of the SEF Development Document. I understand that if activity is not completed by end time as specified in this document I will need to resubmit this proposal. It is further understood that a revised activity project proposal may be necessary before approval.

Marcel Mueller

Signature

This project is approved for implementation upon approval, first by identified SEF Faculty Facilitator and then by HCS Department Head, (presently Pete Schwartz and Scott Steinmaus respectively) and then Cal Poly Risk Management

By signing below, I hereby approve this project for implementation.

Pete Schwartz, SEF Faculty Facilitator

Scott Steinmaus, HCS Department Head

Cal Poly Risk Management Representative