

2024-2025

## Certificate of Achievement in Plant Science

Complete the following program of study(Major #C.6103.CA). Major requirements (16 units minimum).

The Plant Science Certificate of Achievement provides students with the skills and knowledge necessary for a career in plant science. Students will gain an in-depth understanding of the anatomy, physiology, and cultivation of plants, the development and properties of soil, as well as the nuanced relationship between agriculture and the local environment. The certificate is designed for students who have an interest in pursuing careers in plant science, soil science, horticulture, or agriculture. By obtaining this certificate, students will complete many of the courses required by the Associate in Science in Agricultural Plant Science for Transfer Degree and gain the knowledge and skills necessary for entry-level positions in plant-science-related positions.

**Name:** \_\_\_\_\_ **Student ID:** \_\_\_\_\_ **Date:** \_\_\_\_\_

### Course Overview and Selection

#### Required Core Courses:

Course	Course Description	Units	Completed	In Progress	Planned
<b>PLS 2 and PLS 2L</b>	Soils (3) and Soils Lab (1)	<b>4</b>			
<b>PLS 1 and PLS 1L</b>	Introduction to Plant Science (3) and Plant Science Lab (1)	<b>4</b>			
<b>MATH 11 or STAT 7</b>	Elementary Statistics or Elementary Statistics	<b>4</b>			

#### Take one option from below:

Course	Course Description	Units	Completed	In Progress	Planned
<b>BIOL 7 or BIOL 13 and BIOL 13L</b>	Field Biology (5) or or Environmental Science Lecture (3) and Environmental Science Lab (1)	<b>4-5</b>			

#### Notes:

**Total Units 16 -17**

#### Program Learning Outcomes:

A student who successfully completes this certificate of achievement will be able to:

1. Identify the anatomy of plants and describe their major physiological processes.
2. Explain the development of soil, as well as the composition and properties of soil.
3. Identify the plant, soil, and environmental factors that influence plant growth, and how they can be manipulated to alter plant growth.
4. Describe the relationship between agriculture and the local environment.

#### Comments:

Faculty Advisors: Whitford