

Plant Science, B.S.

DEPARTMENT

Department of Plant Science

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MS in Plant Science, M.S.
MN in Plant Science, Minor
BS in Plant Science, B.S.
Courses Offered

The Department of Plant Science at California State University, Fresno is located in the nation's most productive agricultural valley. Our graduates acquire a sound academic background that is deeply rooted in field-based experience in the broad array of disciplines within Plant Science. These include pomology, olericulture, agronomy, environmental horticulture, soils, irrigation, economic entomology, plant pathology, weed science, and mechanized agriculture. Our faculty hold advanced degrees in these disciplines, and regularly integrate this knowledge directly in the field and laboratories. The university's 1000 acre agricultural field laboratory, greenhouse facilities, and the Jordan Agricultural Research Center are home to cutting-edge horticultural and agronomic practices, using the latest innovations in crop production, mechanization, irrigation, soil fertility, propagation, and pest management.

Completion of a degree in Plant Science at California State University, Fresno is your gateway to a career in agriculture. Our program is also designed to provide the academic background for certification/licensing as an Irrigation Specialist, Certified Irrigation Designer, Certified Arborist, California Certified Nursery Professional, Certified Crop Adviser (CCA), Certified Professional Agronomist, Certified Entomologist, CA Department of Pesticide Regulation Certification (Agricultural Pest Control Advisor and Qualified Applicator), Certified Horticulturist, or for advanced studies in Plant Sciences. Our graduates are sought after by many of the world's leading agricultural industries and agencies and many have entered leading graduate (MS, Ph.D.) programs worldwide.

REQUIREMENTS

Bachelor of Science Degree Requirements Plant Science Major

This Bachelor of Science degree is designed to provide graduates with an academic background deeply rooted in field-based experiences in the broad array of disciplines within the Plant Sciences.

1. Major Requirements (78 units)

Core Courses (38 units)

- PLANT 71, 99, 100, 101, 107 or 108, 150, 160, 161, 162, 163, 172, and 172L
- Select three (3) units from MEAG
- Select one (1) unit from PLANT 180, 190, 194I, or 196 in consultation with a faculty adviser.

Electives (24 units)

Select twenty-four (24) units of electives that best meet your career objectives. A maximum of nine (9) units may be lower division, including any department-approved transfer courses. Note: Electives cannot double count in the required core.

- MEAG 3, 20, or 50
- PLANT 1, 20, 30, 40, 41, or 60
- MEAG 103, 112, 113, 114, or 120
- PLANT 105, 120, 121, 122, 123, 124, 130, 132, 133, 140, 141, 142, 143, 164, 165, 166, 167, 168, 170T, 174, or 175

Of the twenty four (24) units of electives required you may select one (1) to three (3) courses from outside of the major from the courses listed below. Additional prerequisites may be required for some courses. Other electives outside the major not listed below may be considered, but will require prior department chair approval and may have additional prerequisites.

- AGBS 1, 28, 31, 100, 109, 110, 117, 120, 130, 140, 150, 155, 160, 162, 163, or 164
- BIOL 124, 125, 132, 140, 150, 156, or 171
- CHEM 105
- EES 185 or 186
- IT 186
- VIT 1, 101, 102, 103, 105, 106, 160, or 165

Additional Requirements (16 units)*

- Area B1 - CHEM 3A
- Area B2 - BIOL 11
- Area B4 - MATH 11
- CHEM 8 or 3B
- CHEM 150

2. General Education requirements (49 units)

3. Other requirements (6 units)

Upper-division writing and Multicultural and International (MI)

4. Sufficient elective units to meet required total units (varies)

5. Total units (120)**

* Ten (10) units of additional requirements (CHEM 3A, BIOL 11, and MATH 11) are also being used to fulfill (10) units of the G.E. requirement.

** G.E. and MI courses can be double-counted with major requirements.

Advising Notes

1. Consult with the Jordan College Advising and Career Development Center (JCACDC) adviser and/or faculty adviser each semester.
2. One semester prior to graduation, contact your JCACDC adviser to prepare and file any necessary course substitutions.
3. CR/NC grading is only permitted for PLANT 194I.
4. All prerequisites require a grade of C or higher.
5. The upper-division writing skills requirement can be met by passing the university examination (UDWE) or by taking an approved upper-division writing skills course (i.e. PLANT 110W) to be taken no sooner than the term in which 60 units are completed. One unit of credit in ENGL 100W may be earned for passing the exam if requested by the student; three to four units of credit will be earned by obtaining a letter grade of C or higher in an approved course
6. Units earned for Community College courses may not count toward upper-division units in the major.
7. Students interested in professional certifications or licensures (Crop Adviser, Pest Control Adviser, Professional Soil Scientist, Certified Horticulturist, etc.) should consult with their faculty adviser, and/or the Jordan College Advising and Career Development Center.

FACULTY

The faculty members hold advanced degrees in their fields of specialization from leading agricultural institutions and universities in the United States. They are well-qualified teachers who, through extensive research and interaction with major agricultural industries, bring a wealth of basic and practical information into the classroom. A faculty academic adviser is

assigned to work with each student to plan and design an individualized program of study to meet the student's educational and career objectives.

Many of the faculty members are involved in one or more of the Centers of the California Agricultural Technology Institute (Center for Irrigation Technology and the Viticulture and Enology Research Center) and the San Joaquin Experimental Range. These centers offer excellent opportunities to undergraduate and graduate students to participate in applied research projects that address and help solve problems faced by California's agricultural industry.

For faculty phone numbers and e-mail, see the campus directory.

For more on the faculty, see the faculty pages.

The faculty pages are updated by the department or program.