

# School of Agricultural Sciences and Technology

Charles M. Smallwood, *Dean*

Carl L. Pherson, *Associate Dean, Academic Affairs*  
Harry P. Karle, *Associate Dean, Agricultural Operations*  
To be appointed, *Associate Dean*,  
California Agricultural Technology Institute  
Dennis L. Nef, *Chair, Agricultural Economics*  
Scott A. Williamson, *Acting Chair*,  
Animal Sciences and Agricultural Education  
N. Joanne Caid, *Chair*,  
Enology, Food Science and Nutrition  
Nina Dilbeck, *Chair*,  
Family Studies and Home Economics  
Gary E. Grannis, *Chair, Industrial Technology*  
Gary L. Ritenour, *Chair*,  
Plant Science and Mechanized Agriculture  
Anne V. Rodiek, *Director, Graduate Programs*

**T**he university mission statement emphasizes programs in agriculture and business, reflecting its location in the world's premier agriculture and agribusiness center.

The School of Agricultural Sciences and Technology prepares undergraduate and graduate students for careers in agriculture, industrial technology, industrial arts and home economics. It also fosters applied research and public service programs that contribute to the intellectual, social, cultural and economic vitality of the San Joaquin Valley and California.

## Degrees Offered

**B.S.:** Agricultural Business, Agricultural Education, Agricultural Science (Agricultural Engineering Technology), Animal Sciences, Food and Nutritional Sciences, Industrial Technology (NAIT accredited), Plant Science.

**B.A.:** Home Economics (AHEA accredited), Industrial Arts, Interior Design (FIDER accredited).

**Minors:** Agricultural Business, Agriculture, Animal Sciences, Food and Nutritional Sciences, Home Economics, Industrial Arts, Plant Science.

**M.S.:** Agricultural Business, Agriculture (Agricultural Chemistry, Animal Science), Home Economics, Plant Science.

**M.A.:** Industrial Arts.

Additional degrees are a B.S. in Child Development (see Family Studies and Home Economics) and a Bachelor of Vocational Education (see Industrial Technology). Teaching credential programs offer a secondary single subject credential in agriculture, home economics or industrial arts, plus a specialist teaching credential in agriculture.

## Professional Preparation

**Student Activities.** More than 30 professional associations, honor societies, judging teams, show teams, clubs and social fraternities associated with the school provide excellent opportunities for leadership development and industry contact. Numerous teams participate in regional and national intercollegiate competitions. The Student Executive Council, comprised of representatives from these student organizations, coordinates school-wide functions and works with the Associated Student Senate to obtain activity funding.

**Production Projects.** Supervised student project programs in animal and crop production utilize a hands-on approach for practical application of theory learned in the classroom. To qualify, a student must have coursework in the corresponding major and be enrolled in an Enterprise Management course as well as demonstrate proficiency in equipment operation. Financial support for student enterprise projects is provided by CSU, Fresno's Agricultural Foundation.

## Industry Internships and Cooperative Education.

Non-paid and paid work opportunities abound for qualified students to serve in an industry setting appropriate to their degree and programs of study. Integration of academic credit and work experience is attained by participating in these programs, while professional employment prospects after graduation are greatly enhanced.

**Continuing Education.** Seminars, workshops and field day demonstrations are offered to meet the in-service education needs of the agricultural community. Similar programs provide home economists and industrial technologists opportunities for professional development.

## Instructional Facilities

A 1,083-acre **University Farm Laboratory** adjacent to the campus provides a unique opportunity for students to directly apply the knowledge and skills acquired in the classroom. Vineyard, orchard, vegetable, cotton and field crop enterprise projects, supervised by plant science and mechanized agriculture faculty, develop production and management skills. Similar enterprise projects at the beef, sheep and swine units are supervised by the animal sciences faculty. The modern on-campus dairy, veterinary hospital, quarter horse, and feed mill units plus more than 5,000 acres of Sierra foothill rangeland also support the instructional programs in animal sciences.

Specialized laboratories and facilities for the **Agricultural Science** programs include: agricultural computing, enology, raisin processing, dairy processing, meats, food preparation and product development, seed technology, soil science, ornamental horticulture, and mechanized agriculture.

**Family Studies and Home Economics** students utilize the following laboratories: textiles, fashion/clothing, infant/toddler, and child development.

**Industrial Technology** facilities include: construction, industrial design, fluid power, energy and process control, machine tools, electrical, industrial and general electronics, materials science, transportation, drafting, graphic communications, and Computer Integrated Manufacturing labs.

## Research and Technology Transfer

The agricultural technology development, training and demonstration activities of the **California Agricultural Technology Institute (CATI)** offer students opportunities to interact with faculty and industry experts on state-of-the-art energy, water, production, management and computer applications projects. CATI provides funding for faculty research, industry conferences and special projects conducted through the following entities: Center for Agricultural Business, Center for Irrigation Technology, Viticulture and Enology Research Center, and the San Joaquin Experimental Range.