

California Department of Education CALPADS Course Codes

The course definitions below reflect instructional practices and national and state curriculum guidelines for CALPADS reporting as of 2026–27.

Agriculture and Natural Resources Sector (AGR)

The Agriculture and Natural Resources sector is designed to provide a foundation in agriculture for agriculture students in California involved in career technical education programs. Students engage in an instructional program that integrates academic and technical preparation and focuses on career awareness, career exploration, and skill preparation in seven pathways. The pathways emphasize real-world, occupationally relevant experiences of significant scope and depth in Agricultural Business, Agricultural Mechanics, Agriscience, Animal Science, Forestry and Natural Resources, Ornamental Horticulture, and Plant and Soil Science. Integral components of classroom and laboratory instruction, supervised agricultural experience projects, and leadership and people skills development prepare students for continued training, advanced educational opportunities, or entry to a career.

Multiple Pathways (Pathway 999)

7100 Intro to Agricultural and Natural Resources

This course typically will include content related to Earth Science in Agriculture or Agriculture Biology. Other Agriscience topics of an introductory nature are also appropriate.

Agricultural Business (Pathway 100)

7110 Introduction to Agricultural Business

This course is focused towards first year agriculture students to provide insight into the different pathways available in agriculture including their application to agriculture business. It is designed to provide students with a unique perspective of agriculture and its impact on American Society.

7111 Intermediate Agricultural Business (Concentrator)

This course will include topics related but not limited to human relationships and effective communication, issue analysis, decision-making and problem-solving, leadership qualities and styles, and ensuring successful completion of group activities. The students then learn and enhance their written and oral communication skills by presenting their views and opinions to the class. Students learn how to arrange and present debates, speeches, and interviews to be effective leaders today.

7112 Advanced Agricultural Business (Capstone)

This course prepares individuals to perform tasks related to agribusiness, marketing, sales, agricultural economics, and management of farm and agriculturally related enterprises. It comprises the study of agribusiness-related careers, farm safety management,

responsibilities of management, government organizations and regulations, basic microeconomics and macroeconomics, agricultural credit, record keeping and accounting, cash flow, introduction to taxes, marketing, history, and current activities of agricultural cooperatives, purchasing, laws of significance to agriculture, and management decision aids.

Agricultural Mechanics (Pathway 101)

7120 Introduction to Agricultural Mechanics

This course provides theory and hands-on experiences that provide opportunities for students to develop basic knowledge and skills in agricultural mechanics. Instructional areas include the fundamentals of maintaining and repairing small gasoline engines, basic electricity, welding, construction, cold metal work, and operating agricultural equipment safely.

7121 Intermediate Agricultural Mechanics (Concentrator)

This course in agriculture mechanics focuses on specialized skill development in welding, fabrication, equipment operation and repair.

7122 Advanced Agricultural Mechanics (Capstone)

This course may include advanced skill development in welding, fabrication, equipment operation and repair.

Agriscience (Pathway 102)

7130 Introduction to Agriscience

This course typically will include content related to Earth Science in Agriculture or Agriculture Biology. Other agriscience topics of an introductory nature are also appropriate.

7131 Intermediate Agriscience (Concentrator)

This course will be the second in a sequence and requires a prerequisite course. Related topics as found with introductory courses and could include Agriculture Chemistry.

7132 Advanced Agriscience (Capstone)

Advanced level agriscience courses will typically be the third course in a sequence. Courses might focus on Physics applied to agriculture.

Sustainable Agriculture (Sub-Pathway 102A)

7133 Introduction to Sustainable Agriculture

This course number is intended for the content of the UCCI adopted course Biology and Sustainable Agriculture. Sustainability is based on a simple principle: Everything that we need for our survival and well-being depends, either directly or indirectly, on our environment. Sustainability creates and maintains the conditions under which humans and the biotic world can exist in productive harmony, that permit fulfilling the social, economic and other requirements of present and future generations.

7134 Intermediate Sustainable Agriculture (Concentrator)

This course number is intended for the content of the UCCI adopted course Chemistry and Agriscience. This course explores the physical and chemical nature of soil as well as the relationships between soil, plants, animals and agricultural practices. Students will examine properties of soil and land and their connections to plant and animal production.

7135 Advanced Sustainable Agriculture (Capstone)

This course number is intended for the content of the UCCI adopted course Advanced Interdisciplinary Science for Sustainable Agriculture. This integrated class combines an interdisciplinary approach to laboratory science and research with agricultural management principles. Using skills and principles learned in the course, students design systems and experiments to solve agricultural management issues currently facing the industry.

Animal Science (Pathway 103)

7140 Introduction to Animal Science

This course imparts information about the care and management of domestic and farm animals. These courses may cover animal nutrition, health, behavior, selection, reproduction, anatomy and physiology, facilities, product processing, and marketing. Students are introduced to various species of large and small livestock, or they may learn how to care for and maintain livestock as a more inclusive study.

7141 Intermediate Animal Science (Concentrator)

This course may focus on a more specific area such as Small Animal Care, Large Animal Care, Aquaculture, Veterinary Science, Animal Anatomy, Animal Nutrition, Animal Reproduction, Dairy Science, Equine Science, or other areas of animal agriculture.

7142 Advanced Animal Science (Capstone)

This course may focus on a specific area such as Small Animal Care, Large Animal Care, Aquaculture, Veterinary Science, Animal Anatomy, Animal Nutrition, Animal Reproduction, Dairy Science, Equine Science, or other areas of animal agriculture. Additionally, capstone courses will address marketing, sales, agricultural economics, cash flow and management of farms, ranches, and animal agriculture related enterprises.

Forestry and Natural Resources (Pathway 104)

7150 Introduction to Forestry and Natural Resources

This course provides insight into the different careers and industries related to Forestry and Natural Resources. Courses will include a focus on an understanding of the importance of forest ecology, recognizing species of trees and forest plants, tree and plant growth and development, forest, and fire management, harvesting, timber stand improvement in both wild land and urban forests.

7151 Intermediate Forestry and Natural Resources (Concentrator)

This course provides a more specific area of focus such as wildlife management, resource management, forestry, and the development of management plans.

7152 Advanced Forestry and Natural Resources (Capstone)

This course provides a more specific area of focus such as wildlife management, resource management, forestry and the development of management plans. This will include marketing, sales, economics, cash flow and management of forest, wildlife and natural resource related enterprises.

Ornamental Horticulture (Pathway 105)

7160 Introduction to Ornamental Horticulture

This course exposes students to the art and science of growing plants, shrubs, trees, flowers, fruits, and vegetables. They provide information regarding the care and propagation of plants, flowers, trees, and shrubs, but place a special emphasis on those used for decorative and aesthetic purposes. In doing so, they cover a wide variety of topics, including greenhouse and nursery operations, soils and media mixtures, fruit and vegetable production, turf/golf course management, interior and exterior plant scaping, irrigation systems, weed and pest control.

7161 Intermediate Ornamental Horticulture (Concentrator)

This course addresses more specific areas of focus to include Landscape Design, Turf Grass propagation, Greenhouse, and Nursery production.

7162 Advanced Ornamental Horticulture (Capstone)

This course expands on the areas of Landscape Design, Turf Grass propagation, Greenhouse, and Nursery production. Additionally, the marketing, sales, economics, cash flow and management of landscape design, greenhouse, nursery, and related enterprises.

Floral Design (Sub-Pathway 105A)

7163 Introduction to Floral Design

This course focuses on the art applied to floral design, care, and handling of cut flowers, and the mechanics of floral design.

7164 Intermediate Floral Design (Concentrator)

This course builds on the introductory course with increased focus on the art of design, handling of cut flowers and the mechanics of floral design while including the selection of quality flowers and greens, budgeting, retail pricing and presentation.

7165 Advanced Floral Design (Capstone)

This course builds on the concentrator course with the addition of marketing, sales, economics, cash flow and management of the retail and wholesale floral business. This will include how to prepare a bid for floral products and services for events.

Plant and Soil Science (Pathway 106)

7170 Introduction to Plant Science

This course provides knowledge about the propagation of plants for food and fiber. These courses may cover such topics as plant growth and health, irrigation, pest and weed control, food and fiber processing, and farm operations. They may also cover the knowledge and skills needed to produce all types of crops or may emphasize a particular area of the agricultural industry.

7171 Intermediate Plant Science (Concentrator)

This course will focus on more specific areas of plant science such as soil science, viticulture, vegetables, grains, and specialty crops. Irrigation and weed and pest control may also be addressed.

7172 Advanced Plant Science (Capstone)

This course will continue to focus on more specific areas such as soil science, viticulture, vegetables, grains specialty crops, irrigation, weed and pest control. Additionally, the marketing, sales, economics, cash flow and management of crops and related enterprises will be addressed.