Agriculture

Degrees

Agriculture - Animal Science, Associate in Science Degree for Transfer
Agriculture - Animal Science, Associate of Science Degree
Agriculture Business, Associate of Science Degree for Transfer
Agriculture - Plant Science, Associate of Science Degree for Transfer
Agriculture - Plant Science - Horticulture Emphasis, Associate of Science
Agriculture - Plant Science - Crops Emphasis, Associate of Science Degree
Environmental Horticulture, Associate of Science Degree
Forestry, Associate of Science Degree
Forestry, Associate of Arts Degree

Certificates

Agriculture - Animal Science, Certificate of Achievement
Agriculture Business Management, Certificate of Achievement
Agriculture - Plant Science, Certificate of Achievement
Environmental Horticulture, Certificate of Achievement
Forestry, Certificate of Achievement

Registered Veterinary Technician, Job Skills Certificate

Agriculture - Animal Science

Associate in Science Degree for Transfer

The Associate in Science in Agriculture Animal Science for Transfer is designed to provide students a clear pathway to the CSU Animal Science major and completion of the Animal Science baccalaureate degree. The Animal Science major prepares students for occupations in those areas of agriculture involving production, managing, and marketing of livestock. Both the scientific and practical aspects of the production of horse, beef, sheep, swine, dairy cattle and companion animals are stressed in the courses.

Program Learning Outcomes

Upon successful completion, the student will:

- Demonstrate artificial insemination procedures, proper record keeping in the field of animal science, and skills in day to day animal production such as proper care, feeding, and reproduction.
- Practice the proper basic principles of animal safety, evaluate performance such as growth and feed conservation.
- Demonstrate specific skills in animal science such as production, genetics, and nutrition within the animal science discipline needed for employment.
- Identify conformation qualities in cattle, sheep, swine, and dairy cattle.

Requirements for AA-T or AS-T degrees:

The completion of 60 semester units that are eligible for transfer to the California State University, including the following:

- The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
- A minimum of 18 semester units in a major area of emphasis, as determined by the district.
- The obtainment of a minimum grade point average of 2.0.
- The completion of all courses required for the major with a 'C' or better. A 'P' (Pass) grade is not acceptable for courses in the major.

Total Units: 20-21

Required Courses - 14 units

Course #	Name	Units
CHEM B2A	Introductory General Chemistry	4.0
AGBS B2	Agricultural Economics	3.0
ANSC B1	Introduction to Animal Science	3.0
MATH B22	Elementary Probability and Statistics	4.0

List A: Select one from each area

Area 1: Animal Production (3 units)

ANSC B2	Beef Production	3.0
ANSC B4	Dairy Production	3.0
ANSC B5	Swine Production	3.0
ANSC B10	Horse Production	3.0

Area 2: Animal Health (3-5 units)

ANSC B6	Applied Animal Nutrition	4.0
ANSC B7	Animal Diseases	3.0

List B: Select (0-8) units.
Any LIST A course not already used.

ANSC B3	Sheep Production	3.0
BSAD B1	Financial Accounting	4.0
CRPS B5	Plant Science	3.0

Category	**CSU**	**IGETC**
Units in Major	20-21	20-21
Possible double counting of GE's	9	8
General Education	39	37
Electives (CSU Transferrable)	9-10	10-11
Degree Total	60	60

Agriculture - Animal Science
Associate of Science Degree

The Animal Science major prepares students for occupations in those areas of agriculture that involve livestock production and related agribusinesses. Both the scientific and practical aspects of the production of horse, beef, sheep, swine, dairy cattle, poultry, and companion animals are the focus of courses.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate AI procedures, proper record keeping in the field of animal science, and skills in day to day animal production such as proper care, feeding, and reproduction.
- be able to practice proper basic principles of animal safety, evaluate performance such as growth and feed conservation.
- demonstrate specific skills in animal science such as production, genetics, and nutrition within the animal science discipline needed for employment.
- identify conformation qualities in cattle, sheep, and swine.

Total Units: 26
Required Courses

Course #	Name	Units
AGBS B2	Agricultural Economics	3.0
AGRI B1	Agriculture, Environment and Society	3.0
ANSC B1	Introduction to Animal Science	3.0
WEXP B248	Occupational Work Experience Education	3.0
AGRI B49	Agriculture Leadership Training	2.0

Select 6 units from the following

ANSC B2	Beef Production	3.0
ANSC B3	Sheep Production	3.0
ANSC B4	Dairy Production	3.0
ANSC B10	Horse Production	3.0
ANSC B5	Swine Production	3.0

Select 6 units from the following

ANSC B6	Applied Animal Nutrition	4.0
ANSC B7	Animal Diseases	3.0
ANSC B11	Livestock Selection & Evaluation	3.0

Agriculture - Animal Science
Certificate of Achievement

Animal Science Certificate of Achievement Certificate prepares students for entry level employment in food animal production and animal management and care. This program prepares students for careers in Animal Science and entry level production jobs such as feed mill technician, beef technician, swine technician, poultry technician, animal groomer, small animal assistant technician, and pet store employee.

Program Learning Outcomes
Upon successful completion, the student will:
- identify and implement sustainable livestock management practices that will improve livestock quality, provide efficacious management, protect the natural resources, and ensure economic viability of the livestock industry.
- demonstrate specific skills in animal science such as production, genetics, and nutrition within the animal science discipline needed for employment.
- demonstrate a working knowledge of animal production life cycles to develop a ranch management calendar that incorporates scientifically based management decisions and the latest technological advances in livestock husbandry.
- identify and evaluate livestock anatomy and physiology and relate form to function.

Total Units: 33
Required Courses

Course #	Name	Units
AGRI B1	Agriculture, Environment and Society	3.0
ANSC B1	Introduction to Animal Science	3.0
AGRI B49	Agriculture Leadership Training	2.0

Select 22 units from the following

ANSC B2	Beef Production	3.0
ANSC B3	Sheep Production	3.0
ANSC B4	Dairy Production	3.0
ANSC B6	Applied Animal Nutrition	4.0
ANSC B7	Animal Diseases	3.0
ANSC B10	Horse Production	3.0
ANSC B11	Livestock Selection and Evaluation	3.0
ANSC B22	Animals and Society	3.0
ANSC B83	Introduction to Veterinary Technology	4.0
ANSC B10	Horse Production	3.0
ANSC B6	Applied Animal Nutrition	4.0

Select 3 units from the following

ANSC B11	Livestock Selection and Evaluation	3.0
CRPS B2	Forage Crops	3.0
NRES B1	Range Management	3.0

Agriculture Business

Associate of Science Degree for Transfer

The Associate in Science in Agriculture Business for Transfer degree is designed to provide students a clear transfer pathway to the CSU agriculture business major and completion of the agriculture business baccalaureate degree, to grant guaranteed admission to a CSU to a similar major with junior standing, and the ability to complete their remaining requirements within 60 semester or 90 quarter units.

The Associate in Science in Agriculture Business for Transfer degree provides a study of key Agribusiness concepts. Careers in agriculture such as farm management, accounting, marketing of agricultural products, sales, and services require training in business courses such as accounting, computers and salesmanship. Agriculture Business majors will be able to apply the concepts, principles, and terminology of business (economics, management, finance, marketing, and others) to real-world issues and opportunities in the agricultural and life sciences industries.

Program Learning Outcomes
Upon successful completion, the student will:

- Demonstrate the ability to explain microeconomic and macroeconomic concepts, analyze and evaluate agribusiness problems and management decisions, and perform basic algebra and introductory calculus operations in the context of applied economic analysis and optimization.
- Demonstrate skills in fundamental agribusiness principles and analysis techniques into logical decision-making constructs.
- Develop strong communication skills, both oral and written, for the purpose of conveying the results of business analyses in a clear, persuasive, and informative manner.
- Apply the concepts, principles, and terminology of business (economics, management, finance, marketing, and others) to real-world issues and opportunities in the agricultural and life sciences industries.

Requirements for AA-T or AS-T degrees:
The completion of 60 semester units that are eligible for transfer to the California State University, including the following:

- The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
- A minimum of 18 semester units in a major area of emphasis, as determined by the district.
- The obtainment of a minimum grade point average of 2.0.
- The completion of all courses required for the major with a 'C' or better. A 'P' (Pass) grade is not acceptable for courses in the major.

Total Units: 22

Required Courses

Course #	Name	Units
SOIL B1	Introduction to Soil Science	3.0
AGBS B2	Agricultural Economics	3.0
ECON B2	Principles of Economics-Macro	3.0
MATH B22	Elementary Probability and Statistics	4.0

Choose 9 units from the following

AGBS B3	Introduction to Agriculture Business	3.0
CRPS B5	Plant Science	3.0
AGBS B6	Agriculture Sales and Communication	3.0

Choose 3 units from the following

COMP B5	Introduction to Microsoft Office	3.0

Category	**CSU**	**IGETC**
Units in Major	22	22
General Education	39	37
Possible double counting of GE's	15	12
Degree Total	60	60

Agriculture Business Management

Certificate of Achievement

The Certificate of Achievement in Agriculture Business Management is intended for those students who plan to enter the workforce.

The Agriculture Business Management major is made up of agriculture and agricultural business courses pertaining to the industry. Many jobs in agriculture require training in business courses such as accounting, computers and salesmanship. Career opportunities include farm management, marketing of agricultural products, sales and services.

Program Learning Outcomes

Upon successful completion, the student will:

- understand economic concepts and quantitative methods.
- demonstrate critical, integrative, and evaluative thinking.
- have well-developed verbal and written communication skills that are necessary for efficient and clear dissemination of economic analysis, as well as for success in private and public sector careers.
- understand and interpret economic news and trends using economic theory and apply them to agricultural operations for employment that will enhance opportunities and success in agriculture business in the 21st century.
- demonstrate specific skills in agriculture business.
- have an understanding of the business and economics of the agricultural industry, agricultural business, and the implications to the agricultural producer, consumer, and the food system.
- have an understanding of management principles encountered in the day to day operation of an agricultural enterprise.
- understand the production and marketing disciplines needed for employment.

Career Opportunities:

Field Representative: $35,000 - 45,000, Sales Assistant: $30,000 - 40,000 (possible commission options), Marketing Assistant: $30,000-40,000, Business Development Assistant: $40,000-50,000, Warehouse Supervisor: $30,000-40,000, Procurement Assistant: $30,000 - $40,000

Total Units: 26

Required Courses

Course #	Name	Units
AGRI B1	Agriculture, Environment and Society	3.0
AGBS B6	Agricultural Sales and Communication	3.0
WEXP B248	Occupational Work Experience Education	3.0
AGRI B49	Agriculture Leadership Training	2.0

Select 3 units from the following

AGBS B2	Agricultural Economics	3.0
SOIL B1	Introduction to Soil Science	3.0
CRPS B1	Principles of Crop Production	3.0

Select 3 units from the following

COMP B5	Introduction to Microsoft Office	3.0
COMP B2	Introduction to Computer Information Systems	3.0

Select 3 units from the following

CRPS B2	Forage Crops	3.0
NRES B1	Range Management	3.0

Select 3 units from the following

ANSC B1	Introduction to Animal Science	3.0
ANSC B2	Beef Production	3.0
ANSC B4	Dairy Production	3.0
ANSC B10	Horse Production	3.0

Select 3 units from the following

FORE B2	Natural Resources	3.0
FORE B1	Introduction to Forestry	3.0
FORE B3	Wildlife Management	3.0
FORE B5	Identification of California Wildlife	3.0
FORE B6	Forestry Skills	3.0

Agriculture - Plant Science

Associate of Science Degree for Transfer

The Associate in Science in Agriculture Plant Science degree for Transfer is designed to provide students a clear pathway to the CSU agriculture plant science major and completion of the agriculture plant science baccalaureate degree, to grant guaranteed admission to a CSU to a similar major, with junior standing, and the ability to complete their remaining requirements within 60 semester or 90 quarter units.

This program is designed for the plant science student who is interested in transferring to a CSU after graduation. The student may emphasize either the horticultural or crop production aspects of plant science including studies of soils, plant propagation, plant identification, plant pest control, and irrigation.

To Transfer Coursework:
A minimum of 18 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Bachelors of Science Degree Names:
Environmental Horticultural Science, Plant Science, Horticultural Science, Ornamental Horticulture, Landscaping and Groundskeeping, Turf and Turfgrass Management, Viticulture and Enology, Plant Nursery Operations and Management, Greenhouse Operations and Management, Agricultural and Horticultural Plant Breeding.

Program Learning Outcomes
Upon successful completion, the student will:

- identify and utilize pertinent concepts of plant physiology, anatomy, nutrition, reproduction, and pest control to solve plant production problems under field, greenhouse, or landscape conditions.
- identify and utilize pertinent concepts of soil physical, chemical, and biological properties and their interactions with plants to solve plant production problems under field, greenhouse, or landscape conditions.
- identify and utilize pertinent concepts of plant propagation to effectively reproduce plants from seed, stems, leaves, roots, natural propagules, and/or small amounts of tissue in culture and to produce grafted plants.

Career Opportunities:
Ag Business Consultant, Arborist, Botanist/Plant Biologist, Floriculturist / Flower Grower, Floral Designer / Florist, Forester, Greenhouse Grower / Manager, Landscape Designer or Garden Consultant, Sports Turf Superintendent, Tree Technician, Urban Forester, Farm Managers.

Total Units: 26

Required Core - 17 Units

Course #	Name	Units
SOIL B1	Introduction to Soil Science	3.0
CHEM B2A	Introductory to General Chemistry	4.0
AGBS B2	Agricultural Economics	3.0
MATH B22	Elementary Probability and Statistics	4.0
CRPS B5	Introduction to Plant Science	3.0

List A - Select 3 units from the following

ORNH B4	Plant Propagation	3.0
ORNH B6	Ornamental Plant Identification-Ground Covers, Vines, and Dwarf Shrubs	3.0
ORNH B7	Ornamental Plant Identification-Large Shrubs, Small Trees, Large Trees, and Palms	3.0
MCAG B10	Farm Power Operations	3.0

List B - Select 6 units from the following

CRPS B2	Forage Crops	3.0
CRPS B4	Vegetable Production	3.0
ORNH B3	Landscape Installation and Maintenance	3.0

Category	
Units in Major	26.0
CSU GE Breadth	39.0
Possible double counting of GE's	13.0
Electives (CSU Transferrable)	8.0
Degree Total	60.0

Agriculture - Plant Science - Horticulture Emphasis

Associate of Science Degree

This program provides instruction in the planting, growing, harvesting, and marketing of field, forage, and vegetable crops as well as irrigated and range pasture crops. Environmental Horticulture focuses on the science and art concerned with landscape design and installation, floral arts, urban forestry, the urban environment, culture, marketing, and utilization of high value, intensively cultivated flowers, fruits, vegetables, ornamental plants and trees. Career opportunities in Crop Science include farm management, agricultural pest control, fertilizer sales and application, soil laboratory technician, irrigation equipment supply and sales, and agricultural research technician.

The Plant Science AS with a Horticulture emphasis has multiple pathways for BC Gen Ed, CSU and IGETC.

To Transfer Coursework:
A minimum of 28 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Bachelors of Science Degree Names:
Environmental Horticultural Science, Ornamental Horticulture, Horticultural Science, Landscaping and Groundskeeping, Turf and Turfgrass Management, Viticulture and Enology, Plant Nursery Operations and Management, Greenhouse Operations and Management, Agricultural and Horticultural Plant Breeding

Program Learning Outcomes
Upon successful completion, the student will:

- demonstrate managerial and leadership abilities in plant science classes for employment that will enhance opportunities and success in the plant science industry in the 21st century.
- master academic proficiency and demonstrate specific skills within plant science disciplines needed for employment within the industry.
- master skills needed for baccalaureate level education or obtain a certificate

Career Opportunities:
Environmental Horticulture career earnings will range from $25,000 to $85,000 / yr. - Ag Business Consultant, Arborist, Botanist/Plant Biologist, Christmas tree farmer, Floriculturist / Flower Grower, Floral Designer / Florist, Forester, Greenhouse Grower / Manager, Landscape Designer or Garden Consultant, Sports Turf Superintendent, Tree Technician, Urban Forester, Horticultural Writer.

To Achieve the Associate in Science of Plant Science - Horticulture Emphasis: Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Plant Science Associate in Science.

Total Units: 36

Required Courses

Course #	Name	Units
AGBS B2	Agricultural Economics	3.0
AGRI B1	Agriculture, Environment and Society	3.0
ORNH B1	Introduction to Ornamental Horticulture	3.0
ORNH B4	Plant Propagation	3.0
ORNH B7	Ornamental Plant Identification-Large Shrubs, Small Trees, Large Trees, and Palms	3.0
ORNH B8	Introduction to Landscape Design	3.0
CRPS B5	Plant Science	3.0
CRPS B3	Integrated Pest Management	3.0
SOIL B1	Introduction to Soil Science	3.0

Select nine units from the following

ORNH B2	Fundamentals of Nursery Management and Plant Production	3.0
ORNH B3	Landscape Installation and Maintenance	3.0
ORNH B6	Ornamental Plant Identification-Ground Covers, Vines, and Dwarf Shrubs	3.0
ORNH B36	Beginning Floral Design	3.0

Agriculture - Plant Science - Crops Emphasis Associate of Science Degree

This program provides instruction in the planting, growing, harvesting, and marketing of field, forage, and vegetable crops as well as irrigated and range pasture crops.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate managerial and leadership abilities in plant science classes for employment that will enhance opportunities and success in the plant science industry in the 21st century.
- master academic proficiency and demonstrate specific skills within plant science disciplines needed for employment within the industry.
- master skills needed for baccalaureate level education or obtain a certificate.

Career Opportunities:
Farm management, agricultural pest control, Ag chemical sales and application, agricultural laboratory technician, irrigation equipment supply and sales, and agricultural research technician.

Total Units: 27
Required Courses

Course #	Name	Units
AGBS B2	Agricultural Economics	3.0
SOIL B1	Introduction to Soil Science	3.0
AGRI B1	Agriculture, Environment and Society	3.0
CRPS B5	Plant Science	3.0
ORNH B4	Plant Propagation	3.0
CRPS B3	Integrated Pest Management	3.0
CRPS B1	Principles of Crop Production	3.0
CRPS B2	Forage Crops	3.0
CRPS B4	Vegetable Production	3.0

Agriculture - Plant Science Certificate of Achievement

This program provides instruction in the planting, growing, harvesting, and marketing of field, forage, and vegetable crops as well as irrigated and range pasture crops.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate managerial and leadership abilities in plant science classes for employment that will enhance opportunities and success in the plant science industry in the 21st century.
- master academic proficiency and demonstrate specific skills within plant science disciplines needed for employment within the industry.

Career Opportunities:
Farmers, Ranchers, and Other Agricultural Managers, Natural Sciences Managers, Agricultural Technicians, Environmental Science and Protection Technicians, Pesticide Handlers, Sprayers, and Applicators, Vegetation, First-Line Supervisors of Farm Workers, Agricultural Inspectors, Forest and Conservation Workers

Total Units: 24
Required Courses

Course #	Name	Units
SOIL B1	Introduction to Soil Science	3.0
AGRI B1	Agriculture, Environment and Society	3.0
ORNH B4	Plant Propagation	3.0
CRPS B3	Integrated Pest Management	3.0
CRPS B1	Principles of Crop Production	3.0
CRPS B5	Plant Science	3.0
NRES B1	Range Management	3.0
	or	
CRPS B2	Forage Crops	3.0
CRPS B4	Vegetable Production	3.0

Environmental Horticulture
Associate of Science Degree

The Environmental Horticulture Associate in Science degree is designed for the student desiring to enter the workforce after earning a two-year degree. Environmental Horticulture focuses on the science and art concerned with landscape design and installation, floral arts, urban forestry, the urban environment, culture, marketing, and utilization of high value, intensively cultivated flowers, fruits, vegetables, ornamental plants and trees.

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an Environmental Horticulture Associate in Science.

Bachelors of Science Degree Names:
Environmental Horticultural Science, Horticultural Science, Ornamental Horticulture, Landscaping and Groundskeeping, Turf and Turfgrass Management, Viticulture and Enology, Plant Nursery Operations and Management, Greenhouse Operations and Management, Agricultural and Horticultural Plant Breeding.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate managerial and leadership abilities in environmental horticulture classes for employment that will enhance opportunities and success in the horticulture industry in the 21st century.
- master academic proficiency and demonstrate specific skills within environmental horticulture disciplines needed for employment.
- master skills needed for baccalaureate level education or obtain a certificate.

Career Opportunities:
Arborist, Floral Designer or Florist, Greenhouse Grower, Irrigation Specialist, Landscape Architect, Landscape Contractor, Pest Control Advisor, Plant Breeder, Sports Turf Superintendent, Urban Forester and more.

Total Units: 33
Required Courses

Course #	Name	Units
ORNH B1	Introduction to Ornamental Horticulture	3.0
ORNH B2	Fundamentals of Nursery Management and Plant Production	3.0
ORNH B3	Landscape Installation and Maintenance	3.0
ORNH B4	Plant Propagation	3.0
ORNH B6	Ornamental Plant Identification: Ground Covers, Vines, and Dwarf Shrubs	3.0
ORNH B7	Ornamental Plant Identification: Large Shrubs, Small Trees, Large Trees & Palms	3.0
ORNH B8	Introduction to Landscape Design	3.0
ORNH B36	Beginning Floral Design	3.0
CRPS B5	Plant Science	3.0
CRPS B3	Integrated Pest Management	3.0
SOIL B1	Introduction to Soil Science	3.0

Environmental Horticulture
Certificate of Achievement

The Environmental Horticulture Certificate of Achievement is designed for the student desiring specialized training in order to enter the workforce in the least amount of time. Environmental Horticulture focuses on the science and art concerned with landscape design and installation, floral arts, urban forestry, the urban environment, culture, marketing, and utilization of high value, intensively cultivated flowers, fruits, vegetables, ornamental plants and trees.

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an Environmental Horticulture Certificate of Achievement.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate managerial and leadership abilities in environmental horticulture classes for employment that will enhance opportunities and success in the horticulture industry in the 21st century.
- master academic proficiency and demonstrate specific skills within environmental horticulture disciplines needed for employment.
- be able to identify regional trees and plants and their use in the landscape.

Career Opportunities:
Arborist, Floral Designer or Florist, Greenhouse Grower, Irrigation Specialist, Landscape Architect, Landscape Contractor, Pest Control Advisor, Plant Breeder, Sports Turf Superintendent, Urban Forester and more.

Total Units: 29
Required Courses
Semester 1 (8 units)

Course #	Name	Units
AGRI B49	Agriculture Leadership Training	2.0
ORNH B1	Introduction to Ornamental Horticulture	3.0
ORNH B6	Ornamental Plant Identification: Ground Covers, Vines, and Dwarf Shrubs	3.0
	or	
ORNH B3	Landscape Installation and Maintenance	3.0

Semester 2 (7 Units)

ORNH B48WE	Occupational Work Experience Education	1.0
ORNH B4	Plant Propagation	3.0
ORNH B2	Fundamentals of Nursery Management and Plant Production	3.0
	or	
ORNH B8	Introduction to Landscape Design	3.0

Semester 3 (7 Units)

Course #	Name	Units
CRPS B3	Integrated Pest Management	3.0
ORNH B3	Landscape Installation and Maintenance	3.0
	or	
ORNH B6	Ornamental Plant Identification: Ground Covers, Vines, and Dwarf Shrubs	3.0
ORNH B48WE	Occupational Work Experience Education	1.0

Semester 4 (7 Units)

ORNH B7	Ornamental Plant Identification: Large Shrubs, Small Trees, Large Trees & Palms	3.0
ORNH B2	Fundamentals of Nursery Management and Plant Production	3.0
	or	
ORNH B8	Introduction to Landscape Design	3.0
ORNH B48WE	Occupational Work Experience Education	1.0

Forestry

Associate of Arts Degree

The program provides a broad general experience in the arts and science to develop an individual with a well-rounded education, and a core of basic courses which furnish the student with a perspective of the scientific and professional area of forestry, natural resources, fisheries and wildlife. The pre-forestry, resource conservation and wildlife management program at Bakersfield College should conform to the recommended program as prescribed by the school to which the student wishes to transfer. Students planning to go to work after completing a two-year degree should complete the Associate in Science degree and not the Associate in Arts degree. Career opportunities include forestry, fishing industries and wildlife management.

To Achieve the Associate in Arts
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Forestry Associate in Arts.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate managerial and leadership abilities in agriculture classes for employment that will enhance opportunities and success in the agriculture industry in the 21st century.
- master skills needed for baccalaureate level education or obtain a certificate.
- demonstrate specific skills within agriculture disciplines

Total Units: 24

Required Courses

Course #	Name	Units
AGBS B2	Agricultural Economics	3.0
SOIL B1	Introduction to Soil Science	3.0
AGRI B1	Agriculture, Environment and Society	3.0
FORE B2	Natural Resources	3.0
FORE B6	Forestry Skills	3.0
FORE B1	Introduction to Forestry	3.0
	or	
FORE B3	Wildlife Management	3.0
WEXP B248	Occupational Work Experience Education	1.0
AGRI B49	Agriculture Leadership Training	2.0

Choose 3 units from the following

FORE B4	Wildlife Law Enforcement	3.0
FORE B5	Identification of California Wildlife	3.0
FORE B7	Wildland Fire Management	3.0
CRPS B3	Integrated Pest Management	3.0
COMP B2	Introduction to Computer Information Systems	3.0
COMP B5	Introduction to Microsoft Office	3.0

Forestry

Associate of Science Degree

The program provides a broad general experience in the arts and science to develop an individual with a well-rounded education, and a core of basic courses which furnish the student with a perspective of the scientific and professional area of forestry, natural resources, fisheries and wildlife. The pre-forestry, resource conservation and wildlife management program at Bakersfield College should conform to the recommended program as prescribed by the school to which the student wishes to transfer. Students planning to go to work after completing a two-year degree should complete the Associate in Science degree.

To Achieve the Associate in Science
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Forestry Associate in Arts.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate managerial and leadership abilities in agriculture classes for employment that will enhance opportunities and success in the agriculture industry in the 21st century.
- master skills needed for baccalaureate level education or obtain a certificate.
- demonstrate specific skills within agriculture disciplines needed for employment

Career opportunities:
Forestry, fishing industries and wildlife management.

Total Units: 31

Required Courses

Course #	Name	Units
AGBS B2	Agricultural Economics	3.0
SOIL B1	Introduction to Soil Science	3.0
AGRI B1	Agriculture, Environment and Society	3.0
CRPS B3	Integrated Pest Management	3.0
FORE B1	Introduction to Forestry	3.0
FORE B2	Natural Resources	3.0
FORE B6	Forestry Skills	3.0
WEXP B248	Occupational Work Experience Education	1.0
AGRI B49	Agriculture Leadership Training	2.0

Select 7 units from the following

Course #	Name	Units
FORE B3	Wildlife Management	3.0
FORE B4	Wildlife Law Enforcement	3.0
FORE B5	Identification of California Wildlife	3.0
FORE B7	Wildland Fire Management	3.0
CRPS B10	Plant Biology	4.0
NRES B1	Range Management	3.0
NRES B2	Parks and outdoor Recreation	3.0
BIOL B11	Concepts of Biology	4.0
COMP B2	Introduction to Computer Information Systems	3.0
COMP B5	Introduction to Microsoft Office	3.0

Forestry

Certificate of Achievement

The Certificate of Achievement in Forestry is designed for students desiring to enter the workforce after completing one year of college. Many technician level careers are available in the forestry/natural resources/wildlife fields. Career opportunities include Forestry, natural resources, wildlife, parks and outdoor recreation, fisheries, rangeland and watershed technician positions.

To Achieve the Certificate of Achievement
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Forestry Certificate of Achievement.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate managerial and leadership abilities in agriculture classes for employment that will enhance opportunities and success in the agriculture industry in the 21st century.
- master skills needed for baccalaureate level education or obtain a certificate.
- demonstrate specific skills within agriculture disciplines needed for employment.

Total Units: 33
Required Courses

Course #	Name	Units
AGBS B2	Agricultural Economics	3.0
SOIL B1	Introduction to Soil Science	3.0
AGRI B1	Agriculture, Environment and Society	3.0
FORE B1	Introduction to Forestry	3.0
FORE B2	Natural Resources	3.0
FORE B6	Forestry Skills	3.0
WEXP B248	Occupational Work Experience Education	1.0
AGRI B49	Agriculture Leadership Training	2.0

Select 12 units from the following

FORE B3	Wildlife Management	3.0
FORE B4	Wildlife Law Enforcement	3.0
FORE B5	Identification of California Wildlife	3.0
FORE B7	Wildland Fire Management	3.0
CRPS B3	Integrated Pest Management	3.0
CRPS B10	Plant Biology	4.0
NRES B1	Range Management	3.0
NRES B2	Parks and Outdoor Recreation	3.0
BIOL B11	Concepts of Biology	4.0
COMP B5	Introduction to Microsoft Office	3.0

Registered Veterinary Technician

Job Skills Certificate

This certificate prepares students for the California Veterinary Medical Board RVT Licensing Exam. Students must also complete the CVMB required clinic hours by working in a veterinary hospital/clinic. Course eligibility expires five years from the time it is completed for the state exam. Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Registered Veterinary Technicians Job Skills Certificate. Students who do not choose to become licensed RVT's are still able to work in the field as Animal Health Technicians.

To Achieve the Job Skills Certificate
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Registered Veterinary Technician Job Skills Certificate.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate proficiency in animal care procedures and skills required for employment and enhancement of opportunities and success in the veterinary/pet care industry.
- master academic proficiency in veterinary medicine needed to obtain a job skills certificate.
- improve program graduate success rates for passing California Veterinary Medical Board licensing exam.

Total Units: 17.5
Required Courses

Course #	Name	Units
ANSC B83	Introduction to Veterinary Technology	4.0
ANSC B84	Small Animal Diseases	1.5
ANSC B85	Large Animal Diseases	1.5
ANSC B86	Pharmacology for Veterinary Technicians	1.5
ANSC B88	Surgery, Dental and Anesthesiology for Veterinary Technicians	1.5
ANSC B90	Emergency Medicine, Surgery/Nursing Procedures for Veterinary Technicians	2.0
ANSC B92	Clinical Pathology for Veterinary Technicians	2.0
ANSC B94	Caged Birds, Laboratory, and Exotic Animal Medicine	2.0
ANSC B96	Radiology, Ultrasound, and Diagnostic Imaging for Veterinary Technology	1.5