

AGRICULTURE



ASSOCIATE DEGREE & CERTIFICATE PROGRAMS

2019-2020 CATALOG

DESCRIPTION

Agriculture majors are designed for students wishing to explore this diverse industry.

The AS-T in Agriculture Business is designed to prepare students for transfer to a bachelor's degree program in Agricultural Business or related major at a CSU campus. Agricultural Business graduates at the bachelor's level are qualified for employment in a variety of jobs, in areas such as marketing of crops and related agricultural production equipment, banking and production loans, food processing, international marketing and agricultural policy.

The AS-T in Agriculture Plant Science is designed to prepare students for transfer to a bachelor's degree program in Plant Science, Horticulture or related major at a CSU campus. A bachelor's degree in Plant Science prepares students for a career as a plant scientist, agriculture teacher, biotechnologist, agronomist or crop scientist, turf manager, farm manager, weed scientist, entomologist, nursery and garden specialist, researcher, or landscape manager. Agriculture Mechanics courses provide students with skills and knowledge to enter the mechanized agriculture field. A general agricultural background provides students with entry level employment opportunities and skills along with the ability to transfer to a college or university and continue their studies in a wide variety of agricultural fields.

ASSOCIATE DEGREE AND CERTIFICATE PROGRAMS

An **Associate Degree**, depending on the focus of study, is designed to prepare students for transfer into upper-division course work in a bachelor's degree program, or, to prepare students to enter the workforce in a particular vocational field. To qualify for an Associate's Degree, a student must: (1) complete each major-specific course required for the degree with at least a "C" grade or better, (2) complete all Cuesta College general education, graduation and residency requirements, and (3) achieve an overall grade point average of 2.0 for all courses attempted (major, general education, elective).

A **Certificate Program** is designed for students who desire specific training to meet an immediate occupational or personal goal, or for promotion or lateral transfer within their existing field of employment. To qualify for a Certificate of Achievement or a Certificate of Specialization, a student must: (1) complete all courses required for the Certificate with an overall grade point average of 2.0.

DEGREES, CERTIFICATES & AWARDS

- Associate in Science for Transfer (A.S.-T.)
- Certificate of Achievement (C.A.)

CAREER OPPORTUNITIES

- Agricultural Policy
- Banking and Production Loans
- Biotechnologist
- Crop Marketing
- Crop Scientist
- Entomologist
- Farm Manager
- Food Processing
- International Marketing
- Landscape Manager
- Nursery and Garden Specialist
- Plant Scientist

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at Cuesta College. Information for each certificate program can be found by following this link:

www.cuesta.edu/student/studentservices/financial/gainfulemployment

CONTACT

Division Chair: Susan Kline (Interim)
Division Assistant: Tiffanie Kerr
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ASSOCIATE DEGREE FOR TRANSFER PROGRAM**Agriculture Business — Associate in Science for Transfer****Required Courses (13-15 Credits)**

AGB 201	Agriculture Economics	3
AGPS 241	Introduction To Soil Science	3
or CHEM 210FL	Introductory Chemistry With Facilitator Assisted Learning	(4)
or CHEM 201A	General College Chemistry I	(5)
MATH 247	Introduction To Statistics	4
ECON 201A	Principles Of Macroeconomics	3

List A: Three Courses (9-10 Credits)

AGB 202	Introduction To Agricultural Business	3
ACCT 251	Elements Of Accounting For Business Including Agricultural Business	4
AGB 204	Agricultural Sales And Communication	3
AGPS 242	Introduction To Plant Science	3

List B: One Course From Below (3-4 Credits). Or Any Course Not Already Used From List A Above.

BUS 218	Business Law	4
MATH 255	Calculus For Business And Management	3
NUTR 210	Nutrition	3
AGB 210	Introduction To Agricultural Computer Applications	4

Total Credits: 25-29

P (Pass) grade is acceptable for major coursework in the Associate Degrees for Transfer. In addition to major preparation course work listed above, completion of the CSU GE or IGETC pattern is mandatory.

Courses completed for the major can also be double counted towards GE, where appropriate. See a counselor for details.

Click [Here](#) For Program Student Learning Outcomes.

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree may differ from those needed to prepare to transfer. Students who plan to transfer to a four-year college or university should schedule an appointment with a Cuesta College counselor to develop a student education plan (SEP) before beginning their program.

TRANSFER RESOURCES:

CSU and UC Articulation Agreements and Majors Search Engine:

www.ASSIST.org

CSU System Information:

www2.calstate.edu

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that Cuesta College offers a full array of financial aid programs—grants, work study, scholarships, federal loan programs, and fee waivers. These programs are available to both full-and part-time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our Website for additional information: www.cuesta.edu/student/studentservices/financial

ASSOCIATE DEGREE FOR TRANSFER PROGRAM

Agriculture Plant Science — Associate In Science For Transfer

Required Core: (17-18 Credits)

AGPS 241	Introduction To Soil Science	3
AGPS 242	Introduction To Plant Science	3
AGB 201	Agriculture Economics	3
or ECON 201B	Principles Of Microeconomics	(3)
CHEM 210FL	Introductory Chemistry With Facilitator Assisted Learning	4
or CHEM 201A	General College Chemistry I	(5)
MATH 247	Introduction To Statistics	4

List A: Select Once Course (3-5 Credits)

AGPS 243	Plant Propagation And Production	3
CHEM 212A	Organic Chemistry I	5

Total Credits: 20-23

*A (Pass) grade is acceptable for major coursework in the Associate Degrees for Transfer. In addition to major preparation course work listed above, completion of the CSU GE or IGETC pattern is mandatory.

Courses completed for this major can also be double counted towards GE, where appropriate. See a counselor for details.

Click [Here](#) for Program Student Learning Outcomes

CERTIFICATE PROGRAM

Mechanized Agriculture — Certificate of Achievement

Required Courses (21 credits)

AGM 220	Farm Power, Machinery, And Safety	4
AGM 221	Introduction To Agriculture Mechanics	3
AGM 222	Agricultural Safety	2
AGM 223	Agriculture Industrial Power	3
WELD 270A	Basic Welding	3
WELD 275	Blueprint Reading And Industry Practices	3
AGB 204	Agricultural Sales And Communication	3
Total Credits:		21

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Highway 1
San Luis Obispo, California 93403

EARLY CHILDHOOD EDUCATION

ASSOCIATE DEGREE & CERTIFICATE PROGRAMS

2019-2020 CATALOG

DESCRIPTION

Majoring in early childhood education prepares students for careers in a variety of early care and education settings as well as in related fields working with children, birth to age eight, and their families. Our program focuses on child development theory and early childhood education practices, with a particular emphasis on presenting practical information that can be used working with young children. Students will combine learned theories with practice, in actual settings with young children, under the supervision of Cuesta College Lab Teachers.

EARLY CHILDHOOD TEACHER PATHWAYS

Early Childhood Teacher Pathways prepare students to work with children from infancy into middle childhood in various learning environments. The Pathways will educate and train students to become effective teachers, provide hands on learning in the classroom, and support students to develop as teaching professionals.

Students who plan to work in the field of Early Childhood Education are advised to pursue a Child Development Permit (CDP). Early Childhood Education Program course work is approved by the California Commission on Teacher Credentialing as meeting the requirements for the CDP Permits. The six levels of Child Development Permits are: Assistant Teacher, Associate Teacher, Teacher, Master Teacher, Site Supervisor, and Program Director. Students completing the core four courses (ECE 201, 202, 203, and 205) will qualify for an Associate Teacher Certificate, through Cuesta College. Students completing the ECE AA or AS-T degrees (coupled with experience in the field) are eligible for the Child Development Permit at the Teacher level.

ASSOCIATE DEGREE AND CERTIFICATE PROGRAMS

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DEGREES, CERTIFICATES & AWARDS

- Associate in Arts for Transfer (A.A.-T.)
- Associate in Science for Transfer (A.S.-T.)
- Associate in Arts (A.A.)
- Certificate of Achievement (C.A.)

CAREER OPPORTUNITIES

- Before and After School Teacher/Director
- Behavioral Therapist
- Child Life Specialist
- Community College Instructor
- Early Childhood Teacher/Director
- Early Interventionist
- Elementary School Teacher
- Infant and Toddler Educator/Director
- Parent Educator
- Pediatric Specialist
- Resource and Referral Coordinator
- Special Education Paraeducator

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at Cuesta College. Information for each certificate program can be found by following this link: www.cuesta.edu/student/studentservices/finaid/gainfulemployment

CONTACT

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A **Certificate Program** is designed for students who desire specific training to meet an immediate occupational or personal goal or for promotion or lateral transfer within their existing field of employment. To qualify for a Certificate of Achievement or a Certificate of Specialization, a student must 1) complete all courses required for the Certificate with an overall grade point average of 2.0.

ASSOCIATE DEGREE FOR TRANSFER PROGRAM

Child and Adolescent Development — Associate in Arts for Transfer

Required Core Courses (13 credits)

ECE 201	Child Growth And Development	3
HDHS 212	Human Development: Life-Span	3
MATH 247	Introduction To Statistics	4
PSYC 201	Introductory Psychology	3

List A: (6 credits)

Select one course from:

HDHS 202	Child, Family And Community	3
ECE 202	Child, Family And Community	3
HDHS 214	Family, Relationships And Intimacy	3
SOC 201A	Introduction To Sociology	3

Select one course from:

ECE 203	Curriculum Young Children	3
ECE 204	Health, Safety, And Nutrition	3
ECE 206	Observation, Recording Techniques And Assessment	3

Total Credits: 19

P (Pass) grade is acceptable for major coursework in the Associate Degrees for Transfer. In addition to major preparation course work listed above, completion of the CSU GE or IGETC pattern is mandatory.

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Click [Here](#) for Program Student Learning Outcomes

TRANSFER PREPARATION

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TRANSFER RESOURCES:

CSU and UC Articulation Agreements and Major Search Engine:
www.ASSIST.org
 CSU System Information:
www2.calstate.edu

FINANCIAL AID

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www.cuesta.edu/student/studentservices/financial

ASSOCIATE DEGREE FOR TRANSFER PROGRAM

Early Childhood Education — Associate in Science for Transfer

Required Core Courses (26 credits)

ECE 201	Child Growth And Development	3
ECE 202	Child, Family And Community	3
ECE 203	Curriculum For Young Children	3
ECE 204	Health, Safety, And Nutrition	3
ECE 205	Introduction To Early Childhood Education: Principles And Practices	3
ECE 206	Observation, Recording Techniques And Assessment	3
ECE 215	Teaching In A Diverse Society	3
ECE 216	Practicum: Curriculum/Environment Supervised Field Experience	5

Total: 26

*F (Pass) grade is acceptable for major coursework in the Associate Degrees for Transfer.

In addition to major preparation course work listed above, completion of the CSU-GE or IGETC pattern is mandatory.

Courses completed for the major can also be double-counted towards GE where appropriate. See a counselor for details.

Click [here](#) for Program Student Learning Outcomes

ASSOCIATE DEGREE PROGRAM**Child Development/Early Childhood Education — Associate in Arts****Required Courses (29 credits)**

ECE 201	Child Growth And Development	3
ECE 202	Child, Family And Community	3
ECE 203	Curriculum For Young Children	3
ECE 204	Health, Safety, And Nutrition	3
ECE 205	Introduction To Early Childhood Education; Principles And Practices	3
ECE 206	Observation, Recording Techniques And Assessment	3
ECE 215	Teaching In A Diverse Society	3
ECE 216	Practicum: Curriculum/Environment Supervised Field Experience	5
ECE 245	Adult Supervision And Mentoring	3

Choose 6 credits from the following:

ECE 211	Music And Movement Activities For Young Children	1
ECE 212	Childhood And Play	1
ECE 217	The Study Of Parenting: Theory And Practice	3
ECE 220	Art For Children	1
ECE 234	Children's Literature	3
ECE 235	Strategies for Challenging Behaviors in the ECE Classroom	3
ECE 236	Introduction To Children With Special Needs	3
ECE 242	Infant-Toddler Caregiving	3
Total:		35

Click [Here](#) for Program Student Learning Outcomes**CERTIFICATE PROGRAM****Child Development Teacher — Certificate of Achievement****Required Courses (26 credits)**

ECE 201	Child Growth And Development	3
ECE 202	Child, Family And Community	3
ECE 203	Curriculum For Young Children	3
ECE 204	Health, Safety, And Nutrition	3
ECE 205	Introduction To Early Childhood Education; Principles And Practices	3
ECE 206	Observation, Recording Techniques And Assessment	3
ECE 215	Teaching In A Diverse Society	3
ECE 216	Practicum: Curriculum/Environment Supervised Field Experience	5
Total:		26

Click [Here](#) for Program Student Learning Outcomes

Highway 1
San Luis Obispo, California 93403

BUSINESS



ASSOCIATE DEGREE & CERTIFICATE PROGRAMS

2019-2020 CATALOG

DESCRIPTION

Business Administration is a broad area encompassing Accounting, Law, Economics, Trade, Financial Markets, Management, Business Communication, Marketing and Entrepreneurship. Study in this area explores the theories, history, principles, practices, ethics and technologies governing contemporary issues in a global business environment. This program is designed to provide a basic overview of all subject matter and is preparatory lower division coursework for a bachelor's degree in Business.

The Associate in Arts in Business Administration for Transfer Degree is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing this degree (ADT) are guaranteed admission to the CSU system, but not necessarily to a particular campus.

The Career Track degree prepares students for the real world of Business by offering courses that allow students opportunities to acquire practical skills, technical knowledge and experience in a variety of fields of their choosing. The fields of study include Management, Marketing, Accounting, Small Business or General Business.

The Career Track degree allows students to create a personalized degree based upon core Business classes for all students, but also permits optional coursework in a desired profession, which will enhance the student's opportunity for employment or improve their chances of advancement in their current vocational field. The Career Track AA is also a great stepping-stone to a four-year degree in Business, or a related field.

ASSOCIATE DEGREE AND CERTIFICATE PROGRAMS

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DEGREES, CERTIFICATES & AWARDS

- Associate in Science for Transfer (A.S.-T.)
- Associate in Arts (A.A.)
- Certificate of Achievement (C.A.)
- Certificate of Specialization (C.S.)

CAREER OPPORTUNITIES*

- Accounting
 - Advertising
 - Agricultural Business
 - Banking
 - Business Entrepreneur
 - Communications Analyst
 - Computerized Accounting
 - E-Commerce
 - Economic Research
 - Financial Accounting
 - Financial Services
 - Global Business
 - Government & Non-Profits
 - Health Administration
 - Human Resources Manager
 - Information Systems Specialist
 - International Relations
 - Management & Supervision
 - Marketing
 - Merchandising Manager
 - Personnel Manager
 - Product Manager
 - Promotional Specialist
 - Property Manager
 - Public Administration
 - Purchasing
 - Sales Representative
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CONTACT

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- 1) complete all courses required for the Certificate with an overall grade point average of 2.0.

ASSOCIATE DEGREE FOR TRANSFER PROGRAM

Business Administration — Associate in Science for Transfer

Required Core (18 credits)

ACCT 201A	Financial Accounting	4
ACCT 201B	Managerial Accounting	4
BUS 218	Business Law	4
ECON 201A	Principles Of Macroeconomics	3
ECON 201B	Principles Of Microeconomics	3

List A (select one, 3–4 credits)

MATH 255	Calculus For Business And Management	3
or MATH 247	Introduction To Statistics	(4)
or MATH 236	Introduction To Applied Statistics	(3)

List B (select two courses one of which must be BUS 245, 6–8 credits)

BUS 245	Introduction To Business	3
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Any course from List A not already used (Note: only one statistics course may be used in the major).

or CIS 210	Introduction To Computer Applications	(4)
or BUS 227	Business Communications	(4)

Total Credits 27–30

¹P (Pass) grade is acceptable for major coursework in the Associate Degrees for Transfer. In addition to major preparation course work listed above, completion of the LSU GE or IGETC pattern is mandatory.

Courses completed for the major can also be double counted towards GE, where appropriate. See a counselor for details.

[Click Here for Program Student Learning Outcomes](#)

ASSOCIATE DEGREE PROGRAM

Business Administration - Career Track — Associate in Arts

Required Core Courses (14 units)

BUS 245	Introduction To Business	3
BUS 218	Business Law	4
ECON 201A	Principles Of Macroeconomics	3
BUS 227	Business Communications	4

Completion of the Core Courses above, plus ACCT 251, will earn a Certificate of Achievement in Business Administration - Career Track.

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- Small Business Owner
- Transportation Administration
- Utilities Administration

Gainful Employment: Several institutions share institutions to provide students with gainful employment information for specific certificate programs offered at Cuesta College. Information for each certificate program can be found by following this link:

www.cuesta.edu/student/studentservices/finaid/gainfulemployment

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www.cuesta.edu/student/studentservices/finaid

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Business Specialization Options: Students are to select from one of the following areas of Business specialization. This specialization, along with the above required core classes and General Education classes are required for students to complete the Business Administration - Career Track Associate of Arts degree.

Completion of any individual area of Business specialization listed below, will earn a Certificate of Specialization in that area.

Accounting Specialization (11 units)

ACCT 201A	Financial Accounting	4
ACCT 201B	Managerial Accounting	4
ACCT 252	Computerized Accounting Using Quickbooks Pro	3

or

Management Specialization (10 units)

ACCT 251	Elements Of Accounting For Business including Agricultural Business	4
BUS 283	Management And Supervision	3
BUS 285	Human Resource Management	3

or

Marketing Specialization (16 units)

BUS 240	Advertising	3
BUS 241	Sales	3
BUS 243	Marketing	3
ACCT 251	Elements Of Accounting For Business including Agricultural Business	4
BUS 131	E-Commerce: Social Media Marketing	3

or

Small Business Management Specialization (14 units)

BUS 248	Small Business Management	3
BUS 249	Entrepreneurship	4
ACCT 251	Elements Of Accounting For Business including Agricultural Business	4
BUS 130	Introduction To E-Commerce	3

or

E-Commerce Specialization (17 units)

ACCT 251	Elements Of Accounting For Business including Agricultural Business	4
BUS 130	Introduction To E-Commerce	3
BUS 131	E-Commerce: Social Media Marketing	3
BUS 134	E-Commerce: Entrepreneurship	4
and BUS 132	E-Commerce: Information Products	3
or BUS 133	E-Commerce: Physical Products	(3)

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or

General Business Specialization (13 or more units)

ACCT 251 Elements Of Accounting For Business Including
Agricultural Business 4

Students may complete 9 or more units from any Business class containing a BUS prefix (not previously taken and applied to another certificate) to earn a Certificate of Specialization in General Business. This certificate can be in addition to another degree or certificate but course units can not be double counted toward multiple certificates.

or

Military Business Studies Specialization (13 to 16 units)

ACCT 251 Elements Of Accounting For Business Including
Agricultural Business 4

Veterans/Students may receive credit for training received in the military based upon their Military Occupational Specialty (MOS) and the American Council on Education (ACE) recommendations for course credit that relates to the field of Business. Requires evaluation by Business Education faculty to determine MOS course relevance and applicability to an area of Business.

Total Credits: 24-31

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ASSOCIATE DEGREE PROGRAM

Business Administrative Assistant — Associate in Arts

Required Courses (22.5 - 24.5 credits)

BUS 227 Business Communications 4
BUS 228 Office Technology And Telecommunications 3
BUS 229 Business Internship 1-3
ACCT 252 Computerized Accounting Using Quickbooks Pro 3
CIS 154 Essentials Of MS Outlook 2
CIS 173 Adobe Acrobat 1.5
CIS 210 Introduction To Computer Applications 4
CIS 215 Advanced Business Applications 4
or CIS 216 Electronic Spreadsheet Applications (4)
Total Credits: 22.5 - 24.5

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CERTIFICATE PROGRAMS**Business Administration - Career Track — Certificate of Achievement****Required Courses (18 credits)**

BUS 245	Introduction To Business	3
ACCT 251	Elements Of Accounting For Business (including Agricultural Business)	4
BUS 218	Business Law	4
ECON 201A	Principles Of Macroeconomics	3
BUS 227	Business Communications	4
Total Credits:		18

Click [Here](#) for Program Student Learning Outcomes**Business Administrative Assistant — Certificate of Achievement****Required Courses (24.5 credits)**

BUS 227	Business Communications	4
BUS 228	Office Technology And Telecommunications	3
BUS 229	Business Internship	1-3
ACCT 252	Computerized Accounting Using Quickbooks Pro	3
CIS 154	Essentials Of MS Outlook	2
CIS 173	Adobe Acrobat	1.5
CIS 210	Introduction To Computer Applications	4
CIS 215	Advanced Business Applications	4
or CIS 216	Electronic Spreadsheet Applications	(4)
Total Credits:		22.5 - 24.5

Click [Here](#) for Program Student Learning Outcomes**Accounting Clerk — Certificate of Achievement****Required Courses (21 credits)**

BUS 228	Office Technology And Telecommunications	3
BUS 229	Business Internship	3
ACCT 251	Elements Of Accounting For Business I including Agricultural Business	4
ACCT 252	Computerized Accounting Using Quickbooks Pro	3
ACCT 201A	Financial Accounting	4
CIS 210	Introduction To Computer Applications	4
Total Credits:		21

Click [Here](#) for Program Student Learning Outcomes

Accounting Specialization — Certificate of Specialization

This specialization will count as an area of emphasis when completing the Business Administration Career Track AA degree.

Required Courses (11 credits)

ACCT 201A	Financial Accounting	4
ACCT 201B	Managerial Accounting	4
ACCT 252	Computerized Accounting Using Quickbooks Pro	3
Total Credits		11

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Business: Military Business Studies — Certificate of Specialization**Required Credits (A minimum of 9-12 semester credits):**

Veterans/Students may receive credit for training received in the military based upon their Military Occupational Specialty (MOS) and the American Council on Education (ACE) recommendations for course credit that relates to the field of Business. Requires evaluation by Business Education faculty to determine MOS course relevance and applicability to an area of Business.

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E-Commerce Specialization — Certificate of Specialization**Required Courses (13 credits)**

BUS 130	Introduction To E-Commerce	3
BUS 131	E-Commerce: Social Media Marketing	3
BUS 134	E-Commerce: Entrepreneurship	4
BUS 132	E-Commerce: Information Products	3
or BUS 133	E-Commerce: Physical Products	(3)
Total Credits		13

[Click Here](#) for Program Student Learning Outcomes

General Business Specialization — Certificate of Specialization**Required Courses (A minimum of 9 semester credits)**

BUS 218	Business Law	4
BUS 227	Business Communications	4
BUS 245	Introduction To Business	3
ACCT 251	Elements Of Accounting For Business Including Agricultural Business	4
ECON 201A	Principles Of Macroeconomics	3
BUS 260	International Business	3
BUS 283	Management And Supervision	3
BUS 286	Human Relations	3
BUS 240	Advertising	3
BUS 241	Sales	3
or AGB 204	Agricultural Sales And Communication	(3)

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BUS 243	Marketing	3
BUS 248	Small Business Management	3
BUS 249	Entrepreneurship	4
ACCT 201A	Financial Accounting	4
ACCT 201B	Managerial Accounting	4
ACCT 252	Computerized Accounting Using Quickbooks Pro	3
BUS 130	Introduction To E-Commerce	3
BUS 131	E-Commerce: Social Media Marketing	3
BUS 134	E-Commerce: Entrepreneurship	4
BUS 132	E-Commerce: Information Products	3
BUS 133	E-Commerce: Physical Products	3
Total Credits		9-12

Click [Here](#) for Program Student Learning Outcomes

Management Specialization — Certificate of Specialization

Required Courses (9 credits)

BUS 260	International Business	3
BUS 283	Management And Supervision	3
BUS 286	Human Relations	3
Total Credits		9

Click [Here](#) for Program Student Learning Outcomes

Marketing Specialization — Certificate of Specialization

Required Courses (12 credits)

BUS 240	Advertising	3
BUS 241	Sales	3
BUS 243	Marketing	3
BUS 131	E-Commerce: Social Media Marketing	3
Total Credits		12

Click [Here](#) for Program Student Learning Outcomes

Small Business — Certificate of Specialization

Required Courses (10 credits)

BUS 130	Introduction To E-Commerce	3
BUS 248	Small Business Management	3
BUS 249	Entrepreneurship	4
Total Credits		10

Click [Here](#) for Program Student Learning Outcomes



Highway 1
San Luis Obispo, California 93403

COMPUTER INFORMATION SYSTEMS

ASSOCIATE DEGREE & CERTIFICATE PROGRAMS

2019–2020 CATALOG

DESCRIPTION

Computer Information Systems encompasses the fields of Computer Science and Information Systems. Primary fields of study include software development, programming, and applications. Careers in today's information systems require knowledge and hands-on experience in microcomputer applications as well as programming. Professionals in the computing field seek to advance the fundamental understanding of how information is processed, as well as the practical design of software and hardware to accomplish specific functions. The Associate in Science degree requirements are designed to satisfy core requirements for many Computer Science and Information Systems transfer patterns. However, students should consult a counselor and especially the catalog of the intended transfer institution for specific transfer requirements in the major. The program in Computer Information Systems offers students an opportunity to earn an associate's degree as well as coursework in general CIS electives for students in other fields of study campus-wide. The program also offers certificates and courses for high-demand skill areas such as mobile device development.

ASSOCIATE DEGREE AND CERTIFICATE PROGRAMS

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A **Certificate Program** is designed for students who desire specific training to meet an immediate occupational or personal goal, or for promotion or lateral transfer within their existing field of employment. To qualify for a Certificate of Achievement or a Certificate of Specialization, a student must: (1) complete all courses required for the Certificate with an overall grade point average of 2.0.

DEGREES, CERTIFICATES & AWARDS

- Associate in Science (A.S.)
- Certificate of Specialization (C.S.)

CAREER OPPORTUNITIES

- Applications Programmer
- Applications Specialist
- Computing Applications Specialist
- Data Administrator
- Database Administrator
- Database Manager
- Help Desk Technician
- Information Specialist
- Mobile Applications Developer
- Network Administrator
- Network Technician
- Programmer
- Programmer Analyst
- Project Manager
- Software Engineer
- System Administrator
- System Manager
- System Operator
- Systems Analyst
- Systems Integrator
- Systems Programmer
- Web Designer
- Web Developer
- Webmaster

Gainful Employment: Federal regulations require institutions to provide students with certain employment information for specific certificate programs offered at Cuesta College. Information for each certificate program can be found by following this link: www.cuesta.edu/student/studentservices/finaid/gainfulemployment/

CONTACT

Division Chair: Susan Kline (Interim)
Division Assistant: Tiffanie Kerr
Phone: (805) 546-3251
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ASSOCIATE DEGREE PROGRAM**Computer Science — Associate in Science****Required Courses (37 credits)**

CIS 201	Introduction To Computer Science	3
CIS 231	Fundamentals Of Computer Science I	4
CIS 232	Fundamentals Of Computer Science II	2
CIS 233	Fundamentals Of Computer Science III	2
CIS 240	Microcomputer Architecture & Programming	3
CIS 241	Discrete Structures	3
CHEM 201A	General College Chemistry I	5
and		
CHEM 201B	General College Chemistry II	5
or		
PHYS 208A	Principles Of Physics I	(5)
and		
PHYS 208B	Principles Of Physics 2	(5)
MATH 265A	Calculus I	5
MATH 265B	Calculus II	5
Total Credits		37

Click [here](#) for Program Student Learning Outcomes

ASSOCIATE DEGREE PROGRAM**Management Information Systems — Associate in Science****Required Courses (38 credits)**

ACCT 201A	Financial Accounting	4
ACCT 201B	Managerial Accounting	4
BUS 218	Business Law	4
CIS 201	Introduction To Computer Science	3
CIS 210	Introduction To Computer Applications	4
CIS 216	Electronic Spreadsheet Applications	4
or		
CIS 215	Advanced Business Applications	(4)
CIS 231	Fundamentals Of Computer Science I	4
CIS 232	Fundamentals Of Computer Science II	2
ECON 201A	Principles Of Macroeconomics	3
ECON 201B	Principles Of Microeconomics	3
MATH 255	Calculus For Business And Management	3
Total		38

Click [here](#) for Program Student Learning Outcomes

TRANSFER PREPARATION

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TRANSFER RESOURCES:

CSU and UC Articulation Agreements and Majors Search Engine:

www.ASSIST.org

CSU System Information:

www2.calstate.edu

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that Cuesta College offers a full array of financial aid programs—grants, work study, scholarships, federal loan programs, and fee waivers. These programs are available to both full and part-time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information.

www.cuesta.edu/student/studentservices/financial

CERTIFICATE PROGRAMS**Android Developer** — Certificate of Specialization**Required Courses (6 credits)**

CIS 207 Android Development I 3

CIS 208 Android Development II 3

Total Credits: 6Click [Here](#) for Program Student Learning Outcomes**Internet Applications Developer** — Certificate of Specialization**Required Courses (6 credits)**

CIS 103 Fundamentals Of Programming For The Internet 2

CIS 106 Server-Side Programming 4

Total Credits: 6Click [Here](#) for Program Student Learning Outcomes**iOS Developer** — Certificate of Specialization**Required Courses (6 credits)**

CIS 203 iOS Development I 3

CIS 204 iOS Development II 3

Total Credits: 6Click [Here](#) for Program Student Learning Outcomes

Highway 1
San Luis Obispo, California 93403

COMPUTER AND NETWORKING TECHNOLOGY



ASSOCIATE DEGREE & CERTIFICATE PROGRAMS:

2019-2020 CATALOG

DESCRIPTION

Computer and Network Technology program builds a solid foundation in computer and networking theory and applications. The training includes basic electronics, network cabling and infrastructure, computer and networking hardware, desktop and server operating systems, wireless configuration and administration and computer and network diagnostic tools. The goal of the degree is to provide broad training that will prepare a student to install, configure, troubleshoot and administrate all types of computer and network hardware and associated operating systems. Each course in the program is aligned with industry certifications including CompTIA A+, Cisco CCNA, Microsoft Desktop and Server Administration, FOA Copper and Fiber Cabling, and CWNA Wireless certifications. The curriculum is primarily designed for students who are seeking entry-level information and communication technology skills for positions such as network administrator, network engineer, network technician, computer technicians, network installer, and help desk technician.

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DEGREES, CERTIFICATES & AWARDS

- Associate in Science (A.S.)
- Certificate of Specialization (C.S.)

CAREER OPPORTUNITIES

- Computer Repair Specialist
- Computer Technical Support
- Networking Technician
- Wireless Configuration Specialist

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CONTACT

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Email: tiffanie_kerr@cuesta.edu

ASSOCIATE DEGREE PROGRAM**Computer And Networking Technology — Associate in Science****Required Courses (36-37 credits)**

BUS 286	Human Relations	3
or BUS 227	Business Communications	(4)
CNET 218	Wireless Network Communication And Administration	4
CNET 221	Computer Workstation Administration	3
CNET 235	Cyber Security Fundamentals	4
CNET 253	Computer Technician Fundamentals	3
CNET 254	Server Maintenance And Administration	4
CNET 255	Network Infrastructure Fundamentals	4
CNET 260	Networking Fundamentals	2.5
CNET 261	Router Theory And Technology	2.5
CIS 201	Introduction To Computer Science	3
EET 113	Electronics For Computer Technicians	3
Total Units:		36-37

Click [Here](#) for Program Student Learning Outcomes

CERTIFICATE PROGRAMS**Computer Networking Support — Certificate of Specialization****Required Courses (9 units)**

CNET 260	Networking Fundamentals	2.5
CNET 261	Router Theory And Technology	2.5
CNET 235	Cyber Security Fundamentals	4
Total Units:		9

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Computer Support Specialist — Certificate of Specialization**Required Courses (10 credits)**

CNET 221	Computer Workstation Administration	3
CNET 253	Computer Technician Fundamentals	3
CNET 254	Server Maintenance And Administration	4
Total Credits:		10

Click [Here](#) for Program Student Learning Outcomes

Network Infrastructure Specialist — Certificate of Specialization**Required Courses (9.5 credits)**

CNET 219	Network Infrastructure Fundamentals	4
CNET 260	Networking Fundamentals	2.5
EET 169	Residential Wiring	3
Total Units		9.5

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