

Degree and Certificate Program Descriptions

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| AVIATEK 021 | Power Plant Troubleshooting & Testing | 4 |
| AVIATEK 022 | Power Plant Troubleshooting & Testing Lab | 2 |
| AVIATEK 023** | Inspection and Evaluation | 4 |
| AVIATEK 024** | Inspection and Evaluation Lab | 2 |

AIRFRAME MAINTENANCE TECHNICIAN (CA)

MAJOR CODE: 0950.10

This coursework is designed to improve the knowledge and job skills of Aircraft Maintenance Technicians who are working or wishing to work in the aircraft maintenance industry. Training is given in servicing and overhauls various power plant systems and its components. Aviation Maintenance students use a repair station and three well-equipped laboratories as they work through their hands-on, modularized sequences of courses. This program is certified by the Federal Aviation Association (FAA).

Gainful Employment

To find information about the careers for which this certificate prepares you, the costs associated with the program, median debt accumulated by students completing the program, and time to completion, please visit the Gainful Employment Disclosure website at: <http://wlaac.edu/Gainful-Employment/index.aspx>.

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| Required courses | | 48 |
| AVIATEK 001 | Maintenance Procedures | 4 |
| AVIATEK 002 | Maintenance Procedures Lab | 2 |
| AVIATEK 003 | Basic Aircraft Science | 4 |
| AVIATEK 004 | Basic Aircraft Science Lab | 2 |
| AVIATEK 005 | Basic Electricity and Auxiliary Systems | 4 |
| AVIATEK 006 | Basic Electricity and Auxiliary Systems Lab | 2 |
| AVIATEK 007 | Electrical and Instrument Systems | 4 |
| AVIATEK 008 | Electrical and Instrument Systems Lab | 2 |
| AVIATEK 009 | Assembly, Rigging, and Inspection | 4 |
| AVIATEK 010 | Assembly, Rigging, and Inspection Lab | 2 |
| AVIATEK 011 | Aircraft Metal Assembly | 4 |
| AVIATEK 012 | Aircraft Metal Assembly Lab | 2 |
| AVIATEK 013 | Hydraulic, Landing Gear, and Fuel Systems | 4 |
| AVIATEK 014 | Hydraulic, Landing Gear, and Fuel Systems Lab | 2 |
| AVIATEK 023 | Inspection and Evaluation | 4 |
| AVIATEK 024 | Inspection and Evaluation Lab | 2 |

BIOLOGY

SCIENCE DIVISION

BIOLOGY (AS-T)

MAJOR CODE: 0401.00

The Associate in Science in Biology for Transfer (AS-T) is designed to provide a solid lower-division preparation for students who intend to transfer to a California State University (CSU) for a bachelor's degree in Biology or similar major. This degree is designed to provide a clear pathway to a CSU and guarantee admissions to a CSU. Although, students are guaranteed admissions, it is not to any particular campus or program in the CSU system. Students will be required to meet with a counselor for specific university major preparation at the college of their choice in order to facilitate a seamless transition. This coursework will satisfy the lower division Biology requirements at some of the CSU campuses. Information on which campuses accept this degree can be found at <http://www.sb1440.org/>

This degree complies with The Student Transfer Achievement Reform Act (Senate Bill 1440). To earn an Associate Degree for Transfer, students must meet the following requirements:

- (1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both the following:
 - (A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirements.
 - (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- (2) Obtainment of a minimum grade point average of 2.0
- (3) A grade of "C" or better in all courses required for the major or area of emphasis.

Program Learning Outcomes: Upon successful completion of this program, students will be able to...

- Explain how scientists investigate causes of natural biological phenomena.
- Explain how living things are organized, reproduce, acquire matter & energy, and inherit & express genetic instructions.
- Utilize biological information to make informed decisions about environmental issues.
- Utilize biological information to make informed decisions about personal issues.
- Perform basic biological lab procedures.

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| Required Courses | | 10 |
| Biology 006 | General Biology I | 5 |
| Biology 007 | General Biology II | 5 |

Degree and Certificate Program Descriptions

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|---|--|
| AA-T Associate in Arts Degree for Transfer | CA Certificate of Achievement |
| AS-T Associate in Science Degree for Transfer | CN Certificate of Completion (noncredit) |
| AA Associate of Arts degree | CY Certificate of Competency (noncredit) |
| AS Associate of Science degree | SC Skills Certificate (non-transcribed) |

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|--|---------------------------------------|------------|--------------|
| LIST A: | | 25 | |
| Chemistry 101 | General Chemistry I | 5 | |
| Chemistry 102 | General Chemistry II | 5 | |
| Math 261 | Calculus I | 5 | |
| Physics 37 | Physics for Engineers & Scientists I | 5 | |
| Physics 38 | Physics for Engineers & Scientists II | 5 | |
| TOTAL MAJOR UNITS | | 35 | |
| | | CSU | IGETC |
| Total Double Counted Units | | 9 | 9 |
| General Education (CSU GE or IGETC for STEM) Units | | 33 | 31 |
| Elective (CSU Transferable) Units | | 1 | 3 |
| TOTAL DEGREE UNITS | | | 60 |

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| Required courses | | 30 |
| BIOLOGY 006 | General Biology I | 5 |
| BIOLOGY 007 | General Biology II | 5 |
| CHEM 211 | Organic Chemistry for Science Majors I | 5 |
| CHEM 212 | Organic Chemistry for Science Majors II | 5 |
| MATH 260 | Pre-Calculus | 5 |
| MATH 261 | Calculus I | 5 |
| Elective courses (chosen from the following) | | 8-10 |
| CHEM 101 | General Chemistry AND | 5 |
| CHEM 102 | General Chemistry II OR | 5 |
| PHYSICS 006 | General Physics I AND | 4 |
| PHYSICS 007 | General Physics II | 4 |
| Additional LACCD GE plan units | | 18 |
| (21 units, minus 3 units that may be waived from area E for this "high-unit" major) | | |
| Degree-applicable elective units | | 2-4 |
| TOTAL | | 60 |

BIOLOGY (AS)

MAJOR CODE: 0401.00

The Associate of Arts degree in Biology includes coursework that aligns with specific lower-division major requirements for the Biology, Biological Science, and related majors at various universities within the University of California (UC) and California State University (CSU) systems.

Students interested in transferring to a four-year college or university with a major in Biology or related fields of study may also consider the Associate in Science in Biology for Transfer degree. Students are encouraged to visit the Transfer Center for complete information regarding transfer requirements for the institution of their choice. Students interested in transfer are also encouraged to consult the Counseling Office for individualized educational planning.

The Associate of Science degree in Biology will provide the student with a strong basic foundation in this science. The curriculum is generally required of lower-division life science majors, as well as pre-dental, pre-medical, pre-optometry, pre-pharmacy, and pre-veterinary students.

Program Learning Outcomes: Upon successful completion of this program, students will be able to...

- Explain how scientists investigate causes of natural biological phenomena.
- Explain how living things are organized, reproduce, acquire matter & energy, and inherit & express genetic instructions.
- Utilize biological information to make informed decisions about environmental issues.
- Utilize biological information to make informed decisions about personal issues.
- Perform basic biological lab procedures.

BUSINESS

BUSINESS DIVISION

(Also see BUSINESS ADMINISTRATION, MANAGEMENT)

The Business Associate of Arts degree is a survey of the fundamental aspects of all phases of business including entrepreneurship, management/leadership, marketing, financial management and institutions, investing through the securities market, and challenges facing global markets.

The Associate of Arts degree in Business is primarily designed for career and technical education and workforce training/development. The Associate of Arts degree in Business provides a broad background of business knowledge which can be applied in most businesses.

Students interested in transferring to a four-year college or university with a major in Business Administration or other Business-related major may consider the Associate of Arts degree in Business Administration. Students should consult the Transfer Center or the Counseling Office for major preparation and general education requirements of the particular transfer institution of their choice.

Degree and Certificate Program Descriptions

Program Learning Outcomes: Upon successful completion of this program, students will be able to...

- Use business formulas to calculate and solve quantitative problems. Analyze financial operations of a typical business. (Corporate Math)
- Adopt a variety of practices that adhere to a company's culture of moral business principals. Maintain trust, confidentiality and business integrity in the workplace. (Corporate Human Resources-HR)
- Maneuver in the operational workflow of an organization through effective use of time management and utilization of appropriate resources. (Corporate Workflow)

BUSINESS (AA)

MAJOR CODE: 0501.00

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| Required courses | | 35-36 |
| ACCTG 001* | Introductory Accounting I | 5 |
| ACCTG 002* | Introductory Accounting II | 5 |

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|-------------|----------------------------------|---|
| CO SCI 901* | Intro to Computers and Their Use | 3 |
| BUS 001* | Introduction to Business | 3 |
| BUS 005 | Business Law I | 3 |
| MGMT 001 | Principles of Management | 3 |
| MGMT 013 | Small Business Entrepreneurship | 3 |
| MKTG 001 | Principles of Selling | 3 |
| MKTG 021 | Principles of Marketing | 3 |

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|---|------------------------------------|----------|
| Elective units (chosen from the following) | | 3 |
| BUS 031 | Business English | 3 |
| BUS 032 | Business Communications | 3 |
| BUS 038 | Business Computations | 3 |
| MGMT 2 | Organization and Management Theory | 3 |
| FINANCE 2 | Investments | 3 |

* Recommended for students also pursuing Business Administration Associate Degree for Transfer AS-T

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| Additional LACCD GE plan units | | 18 |
| (21 units, minus 3 major units that may be double-counted as GE) | | |

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| Degree-applicable elective units | | 3-4 |
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|--------------|--|-----------|
| TOTAL | | 60 |
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BUSINESS (CA)

MAJOR CODE: 0501.00

This program is designed to prepare the student for entry into the business community in such entry-level positions as bookkeeper, accounting clerk, or assistant auditor. Skills

required for maintaining records, controlling finances, and preparing financial reports are taught.

Gainful Employment

To find information about the careers for which this certificate prepares you, the costs associated with the program, median debt accumulated by students completing the program, and time to completion, please visit the Gainful Employment Disclosure website at: <http://wlaac.edu/Gainful-Employment/index.aspx>.

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|-------------------------|----------------------------------|-----------|
| Required courses | | 29 |
| ACCTG 001 | Introductory Accounting I | 5 |
| CO SCI 901 | Intro to Computers and Their Use | 3 |
| BUS 001 | Introduction to Business | 3 |
| BUS 031 | Business English | 3 |
| BUS 032 | Business Communications | 3 |
| BUS 038 | Business Computations | 3 |
| BUS 005 | Business Law I | 3 |
| MGMT 001 | Principles of Management | 3 |
| MKTG 001 | Principles of Selling | 3 |
| MKTG 021 | Principles of Marketing | 3 |

BUSINESS ADMINISTRATION

BUSINESS DIVISION

(Also see BUSINESS, MANAGEMENT)

BUSINESS ADMINISTRATION (AS-T)

MAJOR CODE: 1001.00

The Associate in Science in Business Administration for Transfer (AS-T) is a degree that provides a solid lower-division preparation for students who intend to transfer to a California State University (CSU) for a bachelor's degree in Business Administration. This degree is designed to provide a clear pathway to a CSU and guarantee admissions to a CSU. Although, students are guaranteed admissions, it is not to any particular campus or program in the CSU system. Students will be required to meet with a counselor for specific university major preparation at the college of their choice in order to facilitate a seamless transition.

This degree complies with The Student Transfer Achievement Reform Act (Senate Bill 1440). Information on which campuses accept this degree can be found at <http://www.sb1440.org/>.

Students who complete an ADT and transfer to a similar major at a CSU are guaranteed a pathway to finish their

Degree and Certificate Program Descriptions

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| AA Associate of Arts degree | CY Certificate of Competency (noncredit) |
| AS Associate of Science degree | SC Skills Certificate (non-transcribed) |

baccalaureate degrees in 60 semester or 90 quarter units. These degrees require students to meet both of the following requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district and meeting the requirements of an approved transfer model curriculum.
2. Obtainment of a minimum grade point average of 2.0.

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| Required courses | 19 |
| ACCTG 001 | Introductory Accounting I 5 |
| ACCTG 002 | Introductory Accounting II 5 |
| ECON 001 | Principles of Economics I 3 |
| ECON 002 | Principles of Economics II 3 |
| BUS 005 | Business Law I 3 |
| Elective units, list A (chosen from the following) | 4-5 |
| MATH 236 | Calculus for Business and Social Science 5 |
| MATH 227 | Statistics 4 |
| Elective units, list B (chosen from the following) | 5-6 |
| And any course from List A not already used. | |
| COS 901 | Computers and Their Use 3 |
| BUS 001 | Introduction to Business 3 |
| Additional CSU GE or IGETC units | 28-30 |
| (37-39 units, minus 9 major units that may be double-counted as GE) | |
| CSU-transferable elective units | 0-4 |
| TOTAL | 60 |

BUSINESS ADMINISTRATION (AA)

MAJOR CODE: 0505.00

The Associate of Arts degree in Business Administration includes coursework that aligns with specific lower-division major requirements for Business Administration and related majors at various universities within the University of California (UC) and California State University (CSU) systems.

Students are encouraged to visit the Transfer Center for complete information regarding transfer requirements for the

institution of their choice. Students interested in transfer are also encouraged to consult the Counseling Office for individualized educational planning.

Career opportunities in Business Administration are available for multiple professions including accounting managers, stockbrokers, financial consultants, insurance brokers, marketing managers and computer specialists. In addition, a prospective professor of business may get a start in the associate and baccalaureate programs in business administration.

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| Required courses | 26-27 |
| ACCTG 1 | Introductory Accounting I 5 |
| ACCTG 2 | Introductory Accounting II 5 |
| BUS 005 | Business Law I 3 |
| CO SCI 901 | Introduction to Computer and Their Use 3 |
| ECON 001 | Principles of Economics I 3 |
| ECON 002 | Principles of Economics II 3 |
| MATH 227 | Statistics 4 |
| | OR |
| MATH 236 | Calculus for Business & Social Science 5 |
| Additional LACCD GE plan units | 18 |
| (21 units, minus 3 major units that may be double-counted as GE) | |
| Degree-applicable elective units | 5-6 |
| TOTAL | 60 |

CHEMISTRY

SCIENCE DIVISION

CHEMISTRY (AA)

MAJOR CODE: 1905.00

The Associate of Arts degree in Chemistry includes coursework that aligns with specific lower-division major requirements for the Chemistry major at various universities within the University of California (UC) and California State University (CSU) systems. Additional coursework in Math and Physics is required at some UC and CSU campuses.

Students are encouraged to visit the Transfer Center for complete information regarding transfer requirements for the institution of their choice. Students interested in transfer are also encouraged to consult the Counseling Office for individualized educational planning.