

# College of Alameda

## Airframe

### Overview

College	COA - Career and Workforce Education
Originator	Hoi Ko
Award Type	A.S. Degree

### Description

The AS degree will be awarded upon satisfactory completion of the major course requirements for each option and the General Education requirements listed in the Degrees and Programs section of this Catalog.

The Airframe and Powerplant Certificates of Achievement curricula include theory and practical experience in construction, inspection, overhaul, repair, and maintenance of aircraft structures, systems, and powerplants. The program is approved by the Federal Aviation Administration. Upon completion of each course with a minimum grade of "C," the student will be eligible to apply for the FAA examination for the Airframe and Powerplant license.

The aviation program is offered at the College of Alameda aviation facility located at the north end of the Oakland International Airport. Our state-of-the-art facility includes five aircraft, aircraft system mockup trainers, and a computer lab. This is a two-year evening-only program each class runs five days a week, 3 hours a night. See the Program Coordinator for information on F.A.A. testing. Mandatory attendance is required for this program to comply with F.A.A. regulations. Any time missed must be made up. The AMT student will need to purchase ranging from \$150 to \$400 dollars worth of tools during the course of this program.

### Career Opportunities

An airframe and powerplant mechanic (A&P) is certified and responsible to inspect and maintain aircraft. Job opportunities are available literally all over the world.

### Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Student will interpret and assess aircraft systems as to airworthy condition. Student will demonstrate an ability to maintain these aircraft systems. Student will apply their knowledge of systems to evaluate FAA publications as to airworthy standard. Maintenance record recording will be completed to FAA standards.
2. Prepare for personal, educational and/or career goals.
3. Perceive, understand, and engage in verbal and nonverbal communication.
4. Understand and demonstrate personal, civic, social, environmental responsibility and cooperation in order to become a productive local and global citizen.

### Degree Requirements:

#### Evening Program Sequence

**Credit Hours:** (44 Required)

#### *Degree Major/Certificate Requirements*

AMT 056L	Basic Science of Aviation Technology Lab	3
AMT 056	Basic Science of Aviation Maintenance Technology Lecture	6.5
AMT 058L	Survey of Aviation Maintenance Technology Laboratory	3
AMT 058	Survey of Aviation Maintenance Technology Lecture	6.5
AMT 062L	Airframe Systems I	3
AMT 062	Airframe Systems I	6.5

AMT 064L	Airframe Systems II	3
AMT 064	Airframe Systems II	6.5
AMT 066L	Airframe Systems and Review	2
AMT 066	Airframe Systems and Review	4

**Total: 44**

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# Laney College

## Anthropology

### Overview

College	Laney - Mathematics and Sciences
Originator	Donald Moore
Award Type	AA-T Degree

### Codes and Dates

Board of Trustees Date	6/14/2016
Program Control Number	32973
Top Code	2202.00 - Anthropology

### Description

The Associate in Arts Degree in Anthropology for Transfer (AA-T ANTHR) is designed to prepare students for a seamless transfer with junior status and priority admission to a local CSU campus to a program or major in Anthropology or similar major for completion of a baccalaureate degree. Students are required to complete:

- 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.

- Obtainment of a minimum grade point average of 2.0. Students must earn a C or better in all courses required for the major or area of emphasis.
- No more than 60 semester units are required.

The Associate in Arts Degree in Anthropology for Transfer (AA-T ANTHR) will also assist Anthropology major students to transfer to a U.C. or other baccalaureate institutions. Students are advised to consult with a counselor to verify transfer requirements.

### Career Opportunities

Attend graduate school, work for nonprofit and for profit organizations, museums, zoos, and government

### Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Analyze cultural aspects of human prehistory, including American cultural diversity and traditions of past civilizations world-wide
2. Apply knowledge of genetics & evolutionary forces to analyze diversity in human populations
3. Apply holistic analysis to social phenomena

### Degree Requirements:

<b>Core Courses (3 courses or 9 units)</b>		<b>Credit Hours:</b> (0 Required)
ANTHR 001	Introduction to Physical Anthropology	3
ANTHR 002	Introduction to Archaeology and Prehistory	3
ANTHR 003	Introduction to Social and Cultural Anthropology	3
<b>Select three courses or 8 units:</b>		<b>Credit Hours:</b> (0 Required)
ANTHR 001L	Physical Anthropology Laboratory	1
MATH 013	Introduction to Statistics	4
SOC 120	Introduction to Research Methods	3

<b>Choose 1 course from the following (3 units):</b>	<b>Credit Hours:</b> (0 Required)
ANTHR 007      Magic, Religion and Witchcraft	3
ANTHR 014      Introduction to the Anthropology of Race, Class, Ethnicity, and Society	3
ANTHR 019      Anthropology of Sex and Gender	3
ETHST 013      Introduction to Community Based Research in Urban America	3
HUMAN 040      Religions of the World	3
SOC 001          Introduction to Sociology	3
<b>Total Major Units</b>	<b>Credit Hours:</b> (0 Required)
20	
<b>IGETC or CSU GE-Breadth Education pattern (37-39)</b>	<b>Credit Hours:</b> (0 Required)
37 - 39	
<b>CSU Transferable General Elective Courses to meet 60 units</b>	<b>Credit Hours:</b> (0 Required)
<b>Total Units</b>	<b>Credit Hours:</b> (60 Required)
	<b>Total: 60</b>

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# College of Alameda

## Auto Paint

### Overview

College  
Originator  
Award Type

COA - Career and Workforce Education  
Peter Ha  
A.S. Degree

### Description

The AS degree will be awarded upon satisfactory completion of the major course requirements listed below and the General Education requirements for the Associate in Arts Degree listed in the Degrees and Programs section of this Catalog.

A Certificate of Achievement in Auto Paint will be awarded to those students completing a minimum of 25 units as outlined below with a 2.0 GPA.

Upon registering for a class in the Auto Body and Paint program, the student will receive a list of required basic tools. The student will be expected to provide tools that relate to the particular course in which he/she has enrolled. The purpose of this requirement is to assure that students graduating from the program who wish to enter the trade possess the necessary tools.

### Career Opportunities

Students in this field work in automotive paint sales and distribution and collision repair environments

### Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Explain through essay and orally each of the undercoat categories and demonstrate application to substrates.
2. Make necessary computation of VOC's and log these computations into BAAQMD acceptable standards.
3. Analyze and correct paint failures and problems.
4. Disassemble, clean, test, and diagnose spray guns used under Sec. 8, Rule 45.

### Degree Requirements:

#### Degree Major/Certificate Requirements: 25 units

**Credit Hours:** (0 Required)

#### *AUTO PAINT*

AUTOB 030	Basic Methods of Paint Preparation and Equipment	10
AUTOB 040	Advanced Study in Refinishing	10
MATH 225	Mathematics for Technicians	3
AUTOB 016	Introduction to Automotive Plastic Parts Repair	2

#### Peralta General Education requirements: 19 - 22 units

**Credit Hours:**

#### Electives: 13 - 16 units

**Credit Hours:**

#### Total units required for degree

**Credit Hours:** (60 Required)

**Total: 60**

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# College of Alameda

## Biology

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### Overview

College	COA - Science, Technology, Engineering, Art, and Mathematics
Originator	Reza Majlesi
Award Type	A.S. Degree

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### Codes and Dates

Current Effective Date	6/28/2017
Program Control Number	09005
Top Code	0401.00 - Biology, General

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### Description

The AS degree in Biology will be awarded upon satisfactory completion of the major course requirements listed below and the General Education requirements for the Associate in Science Degree listed in the Degrees, Programs & Transfer Requirements section of this Catalog.

#### Disciplines Description:

What is Biology? Biologists study life from a scientific perspective. We are fascinated by the myriad ways that living organisms survive and cooperate with each other, and study how these ways came into being. The Biology Department at College of Alameda offers courses that consider the smallest biological molecules, whole organisms, and the entire ecosystem of the Earth. All the courses in biology help you to have a clear understanding of the scientific processes -- both philosophical and technical -- used to gather this knowledge.

What is special about Biology at College of Alameda? When you take our classes you will be taking courses that transfer to UC and CSU campuses and to private colleges and universities. Most of our classes have laboratory sections where you get hands-on experience with life forms, and personalized interaction with your instructors. Our classes are small in size with a low ratio of students to instructor. We believe this makes for the best training of a biologist. You will become actively involved in your own education. Finally, we offer classes all day, every day, including the weekends, and many nights during the week.

### Career Opportunities

Why Study Biology? Biologists take very diverse career paths. Some enter health fields like medicine, dentistry, nursing, physical therapy, and pharmacy. Others enter into research in environmental and conservation areas. Training in biology can also lead to careers in biotechnology and other fields of technology. Because we ourselves are life forms, interacting with and dependent on other life forms, it is important for any educated person to have an understanding of the basics of biology. This is why we invite and encourage all students to take at least one of our courses.

### Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Design the scientific method to formulate questions, explore experiments to test hypotheses, interpret experimental results to draw conclusions, communicate results both orally and in writing, and evaluate the use of the scientific method from published sources critically.
2. Apply evolutionary theory at the molecular, cellular, organismal and population levels to explain the unity and diversity of living things.

### Degree Requirements:

**Degree Major Requirements**

**Credit Hours:** (33 Required)

BIOL 001A	General Biology	5
BIOL 001B	General Biology	5
CHEM 001A	General Chemistry	5
CHEM 001B	General Chemistry	5
MATH 016A	Calculus for Business & the Life & Social Sciences	3
PHYS 004A	General Physics with Calculus	5
PHYS 004B	General Physics with Calculus	5

**Total: 33**

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# Laney College

## Business Administration 2.0

### Overview

College	Laney - Humanities, Social Sciences
Originator	Kim Glosson
Award Type	AS-T Degree

### Description

The Associate in Science in Business Administration 2.0 for Transfer Degree is designed to prepare students for a seamless transfer with junior status and priority admission to a local CSU campus to a program or major in Business Administration or similar major for completion of a baccalaureate degree. Students are required to complete:

- 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.

- Obtainment of a minimum grade point average of 2.0. Students must earn a C or better in all courses required for the major or area of emphasis.
- No more than 60 semester units are required.

The Associate in Science in Business Administration 2.0 for Transfer Degree will also assist Business Administration major students to transfer to a U.C. or other baccalaureate institutions. Students are advised to consult with a counselor to verify transfer requirements.

### Career Opportunities

an transfer to a four-year university; administrative supervisor; financial analyst; business consultant

### Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Analyze a business situation and recommend a solution or plan for improvement, applying legal and ethical principles in business decision making.
2. Obtain information related to the profession using traditional and electronic sources. Synthesize the information into a business report.
3. Analyze data and prepare common business and personal financial reports.

### Degree Requirements:

<b>Core Courses (17 units):</b>		<b>Credit Hours:</b>	(0 Required)
BUS 001A	Financial Accounting		4
BUS 001B	Managerial Accounting		4
BUS 002	Introduction to Business Law		3
ECON 001	Principles of Economics (Macro-Economics)		3
ECON 002	Principles of Economics (Micro-Economics)		3
<b>Select both classes (7 units):</b>		<b>Credit Hours:</b>	(0 Required)
MATH 013	Introduction to Statistics		4
MATH 016A	Calculus for Business and the Life and Social Sciences		3
<b>Required for degree (3 units):</b>		<b>Credit Hours:</b>	(0 Required)

BUS 010 Introduction to Business 3

Total Major Units: **Credit Hours:** (0 Required) 27

IGETC or CSU GE-Breadth Education pattern: **Credit Hours:** (0 Required) 37 - 39

CSU Transferable General Elective Courses to meet 60 **Credit Hours:** (0 Required)

Total Units: **Credit Hours:** (60 Required) 60

**Total: 60**

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# College of Alameda

## Business Information Worker--Quick Start

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### Overview

College	COA - Science, Technology, Engineering, Art, and Mathematics
Originator	Jesse L. Norman
Award Type	Certificate of Achievement

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### Description

The Business Information Worker--Quick Start (BIW) Certificate of Achievement was developed with employer input and teaches the top skills needed by businesses that employ office professionals. BIW courses cover entry-level to advanced administrative computer skills and prepare students to obtain related industry certifications.

Students satisfactorily completing the required courses in the following certificate course block (16 units) will be eligible for the Certificate of Achievement. Confer with a counselor or the division dean concerning the specific pattern of requirements for this program.

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### Career Opportunities

Basic skills in computer applications are required for the vast majority of jobs today. Occupation Count: 23 SOC Code Occupational Title Entry Level Education 11-3021 Computer and Information Systems Managers Bachelor's degree 15-1111 Computer and Information Research Scientists Master's degree 15-1122 Information Security Analysts Bachelor's degree 15-1132 Software Developers, Applications Bachelor's degree 15-1133 Software Developers, Systems Software Bachelor's degree 15-1134 Web Developers Associate's degree 15-1141 Database Administrators Bachelor's degree 15-1143 Computer Network Architects Bachelor's degree 15-1152 Computer Network Support Specialists Associate's degree 17-2061 Computer Hardware Engineers Bachelor's degree 27-3042 Technical Writers Bachelor's degree 41-2011 Cashiers No formal educational credential 41-9041 Telemarketers No formal educational credential 43-3071 Tellers High school diploma or equivalent 43-4051 Customer Service Representatives High school diploma or equivalent 43-9021 Data Entry Keyers High school diploma or equivalent 43-9022 Word Processors and Typists High school diploma or equivalent 43-9061 Office Clerks, General High school diploma or equivalent 43-9071 Office Machine Operators, Except Computer High school diploma or equivalent 43-9199 Office and Administrative Support Workers, All Other High school diploma or equivalent 49-2022 Telecommunications Equipment Installers and Repairers, Except Line Installers Postsecondary non-degree award 49-9052 Telecommunications Line Installers and Repairers High school diploma or equivalent 49-9099 Installation, Maintenance, and Repair Workers, All Other High school diploma or equivalent

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### Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Develop a broad understanding of American Business and how business calculations are performed.
  2. Understanding of computer concepts, e-mail, file management, Windows operating system, and introduces applications at the level to recognize differences between tools.
  3. Identify and solve business problems with utilizing and understanding which specific application (MS Word, MS Excel, MS Outlook, MS PowerPoint) is required to solve the business problems
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### Degree Requirements:

<b>Required Courses: 16 units</b>	<b>Credit Hours: (16 Required)</b>
CIS 001 Introduction to Computer Information Systems	4
BUS 010 Introduction to Business	3
CIS 205 Computer Literacy	1
CIS 223A Introduction to Microsoft Word I	1

CIS 223B	Introduction to Excel	1
CIS 223D	Introduction to MS PowerPoint I	1
CIS 223E	Introduction to Outlook	1
CIS 223F	Computer Keyboarding Proficiency	1
MATH 225	Mathematics for Technicians	3

**Total units required for Certificate of Achievement: 16 units**

**Credit Hours:** (16 Required)

**Total: 32**

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# College of Alameda

## Desktop Support Technician

### Overview

College	COA - Science, Technology, Engineering, Art, and Mathematics
Originator	Jesse L. Norman
Award Type	Certificate of Achievement

### Description

Students satisfactorily completing the required courses in the following certificate course block (16 units) will be eligible for the Certificate of Achievement. Confer with a counselor or the division dean concerning the specific pattern of requirements for this program.

### Career Opportunities

Occupation Count: 23 SOC Code Occupational Title Entry Level Education 11-3021 Computer and Information Systems Managers Bachelor's degree 15-1111 Computer and Information Research Scientists Master's degree 15-1122 Information Security Analysts Bachelor's degree 15-1132 Software Developers, Applications Bachelor's degree 15-1133 Software Developers, Systems Software Bachelor's degree 15-1134 Web Developers Associate's degree 15-1141 Database Administrators Bachelor's degree 15-1143 Computer Network Architects Bachelor's degree 15-1152 Computer Network Support Specialists Associate's degree 17-2061 Computer Hardware Engineers Bachelor's degree 27-3042 Technical Writers Bachelor's degree 41-2011 Cashiers No formal educational credential 41-9041 Telemarketers No formal educational credential 43-3071 Tellers High school diploma or equivalent 43-4051 Customer Service Representatives High school diploma or equivalent 43-9021 Data Entry Keyers High school diploma or equivalent 43-9022 Word Processors and Typists High school diploma or equivalent 43-9061 Office Clerks, General High school diploma or equivalent 43-9071 Office Machine Operators, Except Computer High school diploma or equivalent 43-9199 Office and Administrative Support Workers, All Other High school diploma or equivalent 49-2022 Telecommunications Equipment Installers and Repairers, Except Line Installers Postsecondary non-degree award 49-9052 Telecommunications Line Installers and Repairers High school diploma or equivalent 49-9099 Installation, Maintenance, and Repair Workers, All Other High school diploma or equivalent

### Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Demonstrate the ability to analyze typical user problems and construct solutions to them in the problem areas of operating systems, office suites, hardware, networks, and printing.
2. Demonstrate the ability to install, configure, and troubleshoot windows operating systems, hardware devices and drivers, and manage the windows desktop environment.
3. Demonstrate the understanding of system administration tasks for maintaining virtual servers.

### Degree Requirements:

<b>Certificate of Achievement Requirements: 16 units</b>		<b>Credit Hours:</b> (16 Required)
CIS 001	Introduction to Computer Information Systems	4
CIS 201	Introduction to Computer Hardware	4
CIS 226A	Desktop Support Technician I	3
CIS 226B	Desktop Support Technician II	3
CIS 239	Help Desk Tools and Techniques	2

**Total: 16**

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# College of Alameda

## English

### Overview

College	COA - Liberal Studies and Language Arts
Originator	Maurice Jones
Award Type	A.A. Degree

### Codes and Dates

Curriculum Committee Approval Date	5/18/2021
Board of Trustees Date	11/04/2014
Current Effective Date	1/01/2022
Top Code	1501.00 - English

### Description

The AA degree in English will be awarded upon satisfactory completion of the major course requirements listed below and the General Education requirements for the Associate in Arts Degree listed in the Degrees and Programs section of this Catalog.

College of Alameda's English major serves students with a wide variety of goals, including transfer to U.C., C.S.U., or other four-year institutions. See a counselor to develop your own program of study.

### Career Opportunities

Individuals completing an AA in English become office administrators, tutors, secretaries, associate copywriters, and customer account representatives. Professions for English majors completing a BA include administration, management, professional writing, teaching, editing, advertising, publicity, marketing, and publishing. English is frequently studied as a pre-law major.

### Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Engage in active, purposeful critical reading.
2. Assess, in writing, the tools and materials given to succeed at the workplace or in the community and be able to suggest suggest changes to increase effectiveness.
3. Evaluate information critically to develop claims and support them.
4. Develop an understanding and appreciation for worldwide cultures and diverse perspectives through active and purposeful reading and writing.

### Degree Requirements:

<b>Degree Major Requirements: 7 units</b>	<b>Credit Hours:</b> (7 Required)
ENGL 005 and Critical Thinking in Reading and Writing	3
ENGL 001B Composition and Reading	4
<b>Select four courses (12 units) from the following:</b>	<b>Credit Hours:</b> (12 Required)
ENGL 010A Creative Writing	3
ENGL 010B Creative Writing	3
ENGL 030A Introduction to American Literature I	3
ENGL 030B Introduction to American Literature II	3
ENGL 031 Survey of African-American Literature	3

ENGL 032A	Contemporary Women Writers	3
ENGL 047	Children's Literature	3
ENGL 079	Introduction to LGBTQ Literature	3

**Total units required for major: 19 units** **Credit Hours:** (0 Required)

**Local GE Required units = 19 – 22 units** **Credit Hours:** (22 Required)

**Electives = 19-22 units** **Credit Hours:** (19 Required)

**Total units required for degree = 60 units** **Credit Hours:**

**Total: 60**

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# College of Alameda

## Humanities

### Overview

College	COA - Liberal Studies and Language Arts
Originator	Matthew Goldstein
Award Type	A.A. Degree

### Description

The AA degree in Humanities will be awarded upon satisfactory completion of the major course requirements listed below and the General Education requirements for the Associate in Arts Degree listed in the Degrees and Programs section of this Catalog.

### Career Opportunities

An AA degree in Humanities can be applied to a range of careers in education, arts, science, business, medicine, law, psychology, sociology, anthropology, theology, social work, tourism, and nonprofit organizations.

### Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Increase critical understanding of the aesthetics of human-made environments.
2. Analyze selected works of creative expression in relation to various historical and cultural contexts.
3. Synthesize elements from a wide range of disciplines to appreciate and evaluate artworks, ideas, and performances from around the world.

### Degree Requirements:

<b>Degree Major Requirements: 3 units</b>	<b>Credit Hours:</b> (0 Required)
HUMAN 001      Introduction to the Humanities	3
<b>Select two courses from the following: (6 units)</b>	<b>Credit Hours:</b> (0 Required)
HUMAN 002      Human Values	3
HUMAN 003      Future Studies	3
HUMAN 013A     Myth, Symbol and Folklore	3
HUMAN 040      Religions of the World	3
ASAME 045A     Asian American History to 1945	3
ASAME 045B     Asian American History from 1945 - Present	3
<b>Select one course from the following: (3 units)</b>	<b>Credit Hours:</b> (0 Required)
ART 001          Introduction to Art History	3
MUSIC 010       Music Appreciation	3
<b>Select one course from the following: (3 units)</b>	<b>Credit Hours:</b> (0 Required)
MATH 015        Mathematics for Liberal Arts Students	3
PHIL 001         Introduction to Philosophy	3
PHIL 002         Social and Political Philosophy	3
PHIL 004         Philosophy of Religion	3

PHIL 005	Ethical Problems	3
PHIL 010	Logic	3
PHIL 020A	History of Ancient Greek Philosophy	3
PHIL 020B	History of Modern European Philosophy	3

**Select one course from the following: (3 units)****Credit Hours:** (0 Required)

ENGL 030A	Introduction to American Literature I	3
ENGL 030B	Introduction to American Literature II	3
ENGL 031	Survey of African-American Literature	3
ENGL 032A	Contemporary Women Writers	3
ENGL 017A	Shakespeare	3
ENGL 079	Introduction to LGBTQ Literature	3

**Total units required for major: 18 units****Credit Hours:****General Education requirements: 19 - 22 units****Credit Hours:****Electives: 20 - 23 units****Credit Hours:****Total units required for degree: 60 units****Credit Hours:** (60 Required)**Total: 60**

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# College of Alameda

## Law School Pathway Certificate of Achievement

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### Overview

College	COA - Liberal Studies and Language Arts
Originator	Robert Brem
Award Type	Certificate of Achievement

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### Codes and Dates

Curriculum Committee Approval Date	3/19/2019
Board of Trustees Date	5/14/2019
Current Effective Date	8/01/2019
Top Code	2207.00 - Political Science

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### Description

**The Law School Guided Pathway program** is designed to help students interested in a career in law to understand the processes of qualifying for and applying to law school, while mentoring students in how to transition from community college to a four-year university, and sustaining the momentum to pursue professional/graduate school. In partnership with the California State Bar and California Community College State Chancellor's office; the Pathway to Law School initiative at College of Alameda seeks to enhance opportunities and advancement in the legal profession for diverse populations, particularly those who have been underrepresented in the practice of law. Completion of the course sequence and internship experience in the field leads to a **Law School Guided Pathway Certificate of Achievement**.

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### Career Opportunities

Careers in Law: Careers often pursued by persons with training and degrees in law include (but are not limited to): Attorney (Defense and Prosecution), Civil or Criminal Law, Court Reporter, Judge, Paralegal, and can often be in organizational leadership & consulting.

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### Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Demonstrate a working knowledge of the foundational principles of the practice of law in a democracy.
  2. Demonstrate critical evaluation skills to apply ideas in law and democracy in various contexts, in one's roles in working towards healthy community building.
  3. Articulate how to effectively apply the principles and skills of law and democracy in one's own life as persons, workers, or citizens living in one's own community.
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### Degree Requirements:

Required Courses	Credit Hours:	(27 - 28 Required)
POSCI 008	Law and Democracy	3
POSCI 026 or	U.S. and California Constitution	3
POSCI 001	Government and Politics in the United States	3
HIST 007A	History of the United States to 1877	3
HIST 007B	History of the United States since 1865	3
SOC 120 or	Introduction to Research Methods	3

MATH 013	Introduction to Statistics	4
ENGL 001A	Composition and Reading	4
ENGL 005	Critical Thinking in Reading and Writing	3
COMM 044	Argumentation	3
COUN 201	Orientation to College: Student Success and Support Program	1
POSCI 451 or	Occupational Work Experience In Politics and Public Affairs	2 - 3
POSCI 041	Service Learning: Law, Democracy, and Public Administration	3

**Total: 27.000 - 28.000**

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# College of Alameda

## Light-duty Auto Repair

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### Overview

College	COA - Career and Workforce Education
Originator	Rick Greenspan
Award Type	Certificate of Achievement

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### Description

The Automotive Technology curriculum is designed to prepare students for employment as apprentice auto mechanics or to allow students to continue toward a Baccalaureate degree in other advanced schools of technology in preparation for future management and teaching careers in the automotive industry.

The College of Alameda ATECH program is certified by the National Institute for Automotive Service Excellence (ASE), and was recognized as the "Best Auto Mechanics Training Program" in California in 1999 and again in 2002 by the Industry Planning Council of the Motor Vehicle Manufacturers Association.

Instruction covers safety, trade ethics, use of hand and power tools, as well as the theory, repair and testing of automobiles and their components. Special emphasis is placed on the diagnosis and repair of electronic and computer control systems in late model automobiles.

Upon registering for a class in the automotive major area, a student will receive a list of required basic tools. The student will be expected to purchase tools that relate to the course in which he/she has enrolled. The purpose of this requirement is to assure that all students graduating from the program possess tools in a quantity sufficient for trade entry as an apprentice.

Upon graduating with an Associate in Science (AS) degree, the beginning apprentice will have the union four-year night school requirement waived. The graduate with only a Certificate of Completion will have two of the required four years of night school waived. The National Institute for Automotive Service Excellence (ASE) will give one-year experience credit for the two-year program towards the ASE certification program in Auto Mechanics.

Confer with the division counselor for the specific course pattern of requirements and prerequisites. Students may not take more than one of the following 10-unit "major" courses in a single semester: ATECH 10, 11, 12, 14, 15, 40, 41, 42, and 45. Priority for enrollment in any "major" class will be given to students with the most seniority in the program. A minimum grade of "C" in ATECH 21 and 26 may be required for enrollment in a student's first "major" course.

Associate in Science (AS) Degree and Certificate of Achievement Programs:

It is recommended that these courses be completed prior to enrollment in any of the "major" Auto Mechanics classes:

- Completion of ENGL 268A-268B or ESL 253A-253B, or equivalent with a grade of "C" or better.
- One year of high school algebra or completion of MATH 225 with a grade of "C" or better.

The AS degree will be awarded upon satisfactory completion of the major course requirements listed below for each option and the General Education requirements for the Associate in Arts Degree listed in the Degrees, Programs & Transfer Requirements section of this Catalog.

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### Career Opportunities

The Automotive Technology curriculum is designed to prepare students for employment as apprentice auto mechanics. Upon registering for a class in the automotive major area, a student will receive a list of required basic tools. The student will be expected to purchase tools that relate to the course in which he/she has enrolled. The purpose of this requirement is to assure that all students graduating from the program possess tools in a quantity sufficient for trade entry as an apprentice. Upon graduating with an Associate in Science (AS) degree, the beginning apprentice will have the union four-year night school requirement waived. The graduate with only a Certificate of Completion will have two of the required four years of night school waived. The National Institute for Automotive Service Excellence (ASE) will give one year experience credit for our two-year program towards the ASE certification program in Auto Mechanics.

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## Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Be 'lifelong learners' in the field of automotive technology, keeping up with changes in vehicles, in diagnostics and in repair procedures through a commitment to continual learning and training.
2. Communicate effectively with customers, supervisors and co-workers.
3. Apply critical thinking and problem solving skills in the process of diagnosing and repairing vehicles.
4. Competently perform industry standard automotive repair procedures, using proper tools, procedures and diagnostic techniques, as specified in the NATEF program certification process.

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## Degree Requirements:

### Certificate of Achievement Requirements

**Credit Hours:** (16 Required)

ATECH 022	Introduction to Auto Mechanics	4
ATECH 026	Introduction to Automotive Electrical Systems	4
ATECH 024A	Computer Controls and Fuel Injection	4
ATECH 234	Introduction to Brakes, Alignment and Headlamp Aiming	4

**Total: 16**

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# College of Alameda

## Powerplant

### Overview

College	COA - Career and Workforce Education
Originator	Hoi Ko
Award Type	A.S. Degree

### Description

The AS degree will be awarded upon satisfactory completion of the major course requirements for each option and the General Education requirements listed in the Degrees and Programs section of this Catalog.

The Airframe and Powerplant Certificates of Achievement curricula include theory and practical experience in construction, inspection, overhaul, repair, and maintenance of aircraft structures, systems, and powerplants. The program is approved by the Federal Aviation Administration. Upon completion of each course with a minimum grade of "C," the student will be eligible to apply for the FAA examination for the Airframe and Powerplant license.

The aviation program is offered at the College of Alameda aviation facility located at the north end of the Oakland International Airport. Our state-of-the-art facility includes five aircraft, aircraft system mockup trainers, and a computer lab. This is a two-year evening-only program each class runs five days a week, 3 hours a night. See the Program Coordinator for information on F.A.A. testing. Mandatory attendance is required for this program to comply with F.A.A. regulations. Any time missed must be made up. The AMT student will need to purchase ranging from \$150 to \$400 dollar worth of tools during the course of this program.

### Career Opportunities

An airframe and powerplant mechanic (A&P) is certified and responsible to inspect and maintain aircraft. Job opportunities are available literally all over the world.

### Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Student will interpret and assess aircraft systems as to airworthy condition. Student will demonstrate an ability to maintain these aircraft systems. Student will apply their knowledge of systems to evaluate FAA publications as to airworthy standard. Maintenance record recording will be completed to FAA standards.
2. Prepare for personal, educational and/or career goals.
3. Perceive, understand, and engage in verbal and nonverbal communication.
4. Understand and demonstrate personal, civic, social, environmental responsibility and cooperation in order to become a productive local and global citizen.

### Degree Requirements:

Degree Major/Certificate Requirements		Credit Hours: (50 Required)
AMT 056L	Basic Science of Aviation Technology Lab	3
AMT 056	Basic Science of Aviation Maintenance Technology Lecture	6.5
AMT 058L	Survey of Aviation Maintenance Technology Laboratory	3
AMT 058	Survey of Aviation Maintenance Technology Lecture	6.5
AMT 070L	Theory of Powerplants I	2.5
AMT 070	Theory of Powerplants I	5
AMT 074L	Theory of Powerplants II	2.5

AMT 074	Theory of Powerplants II	5
AMT 076L	Advanced Powerplants I	3
AMT 076	Advanced Powerplants I	5
AMT 078L	Advanced Powerplants II	3
AMT 078	Advanced Powerplants II	5

*Recommended:*

*AMT 270, Aviation Maintenance Technology Preparation (1-3) (if needed)*

**General Education requirements: 19 - 22 units**

**Credit Hours:** (19 - 22 Required)

**Total: 69.000 - 72.000**

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# College of Alameda

## Powerplant

### Overview

College	COA - Career and Workforce Education
Originator	Hoi Ko
Award Type	Certificate of Achievement

### Description

The Airframe and Powerplant Certificates of Achievement curricula include theory and practical experience in construction, inspection, overhaul, repair, and maintenance of aircraft structures, systems, and powerplants. The program is approved by the Federal Aviation Administration. Upon completion of each course with a minimum grade of "C," the student will be eligible to apply for the FAA examination for the Airframe and Powerplant license.

The aviation program is offered at the College of Alameda aviation facility located at the north end of the Oakland International Airport. Our state-of-the-art facility includes five aircraft, aircraft system mockup trainers, and a computer lab. This is a two-year evening-only program each class runs five days a week, 3 hours a night. See the Program Coordinator for information on F.A.A. testing. Mandatory attendance is required for this program to comply with F.A.A. regulations. Any time missed must be made up. The AMT student will need to purchase ranging from \$150 to \$400 dollar worth of tools during the course of this program.

### Career Opportunities

An airframe and powerplant mechanic (A&P) is certified and responsible to inspect and maintain aircraft. Job opportunities are available literally all over the world.

### Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Student will interpret and assess aircraft systems as to airworthy condition. Student will demonstrate an ability to maintain these aircraft systems. Student will apply their knowledge of systems to evaluate FAA publications as to airworthy standard. Maintenance record recording will be completed to FAA standards.
2. Prepare for personal, educational and/or career goals.
3. Perceive, understand, and engage in verbal and nonverbal communication.
4. Understand and demonstrate personal, civic, social, environmental responsibility and cooperation in order to become a productive local and global citizen.

### Degree Requirements:

Degree Major/Certificate Requirements		Credit Hours: (50 Required)
AMT 056L	Basic Science of Aviation Technology Lab	3
AMT 056	Basic Science of Aviation Maintenance Technology Lecture	6.5
AMT 058L	Survey of Aviation Maintenance Technology Laboratory	3
AMT 058	Survey of Aviation Maintenance Technology Lecture	6.5
AMT 070L	Theory of Powerplants I	2.5
AMT 070	Theory of Powerplants I	5
AMT 074L	Theory of Powerplants II	2.5
AMT 074	Theory of Powerplants II	5
AMT 076L	Advanced Powerplants I	3

AMT 076	Advanced Powerplants I	5
AMT 078L	Advanced Powerplants II	3
AMT 078	Advanced Powerplants II	5

*Recommended:*

*AMT 270, Aviation Maintenance Technology Preparation (1-3) (if needed)*

**Total: 50**

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# Laney College

## Theatre Arts

### Overview

College	Laney - Liberal Arts
Originator	Michael Torres
Award Type	AA-T Degree

### Codes and Dates

State Approval Date	11/23/2014
Board of Trustees Date	5/13/2014
Current Effective Date	8/24/2015
Program Control Number	33030
Top Code	1007.00 - Dramatic Arts

### Description

The Associate in Arts Degree in Theater Arts for Transfer is designed to prepare students for a seamless transfer with Junior status and priority admission to their local CSU campus to a program or major in Theater Arts or similar Major for completion of a baccalaureate degree. Students are required to complete: \*a minimum of 18 semester units in the major with a grade of C or better while maintaining a GPA of at least 2.0 in all CSU transferable coursework. \*60 semester CSU-transferable units using the California State University-General Education-Breadth pattern. \*No more than 60 semester units are required. The Associate in Arts Degree in Theater Arts for Transfer will also assist Theater Arts major students to transfer to a U.C. or other Baccalaureate institutions. Students are advised to consult with a counselor to verify transfer requirements.

### Career Opportunities

Acting Directing Stage Managing Crew Lighting design

### Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Demonstrate the fundamental performance and technical production processes for the theatre arts
2. Articulate the historical and cultural dimensions of theatre, including the works of leading playwrights, actors, directors, and designers, past and present.
3. Develop a clear understanding of the interaction between script, actor, and audience and the areas of scenery, lighting, sound, and costume.

### Degree Requirements:

<b>Core Requirements- - 9 units (3 courses) all of the following:</b>	<b>Credit Hours:</b> (9 Required)
<i>Degree Major Requirements:</i>	
THART 002 Introduction to the Theatre Arts	3
THART 021 Acting I	3
THART 031 Rehearsal and Production I	3
<b>Electives- 9 units (3 courses) from the following:</b>	<b>Credit Hours:</b> (9 Required)
THART 020 Script Analysis	3
THART 022 Acting II	3
THART 041 Introduction to Stage Lighting	3
THART 040 Stagecraft	3
<b>Total Major Units:</b>	<b>Credit Hours:</b> (18 Required)
<b>IGETC or CSU GE-Breadth Education pattern:</b>	<b>Credit Hours:</b> (37 - 39 Required)

37 - 39

**Total Units**

60

**Credit Hours:** (60 Required)

**Total: 133.000 - 135.000**

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