College of Alameda

Associate In Arts In Communication Studies For Transfer Degree

Overview

College	COA - Liberal Studies and Language Arts
Originator	Jennifer Fowler
Award Type	AA-T Degree

Codes and Dates

State Approval Date	4/17/2012
Curriculum Committee Approval Date	3/15/2011
Board of Trustees Date	4/26/2011
Current Effective Date	8/01/2012
Program Control Number	31202
Top Code	1506.00 - Speech Communication

Description

The Associate of Arts in Communication Studies Transfer Degree (AA-T) is designed for students planning to transfer into the communications major. A student pursuing this degree will meet the AB 1440 Transfer Curriculum Model for CSU.

Associate Degrees for Transfer

California Community Colleges are now offering associate degrees for transfer to the CSU. These may include Associate in Arts (AA-T) or Associate in Science (AS-T) degrees. These degrees are designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an AA-T or AS-T degree are guaranteed admission with junior standing somewhere in the CSU system and given priority

admission consideration to their local CSU campus or to a program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses.

Students who have been awarded an AA-T or AS-T are able to complete their remaining requirements for the 120-unit baccalaureate degree within 60 semester or 90 quarter units.

Students are required to: • Complete 60 semester CSU-transferable units. • Complete the California State University-General Education-Breadth pattern (CSU GE-Breadth); or the Intersegmental General Education Transfer Curriculum (IGETC) pattern. • Complete a minimum of 18 semester units in the major • Obtain of a minimum grade point average (GPA) of 2.0. • Earn a grade of C or higher in all courses required for the major. A "P" (Pass) grade is also an acceptable grade for courses in major if the course is taken on a Pass/No Pass basis.

To view the most current list of College of Alameda Associate Degrees for Transfer and to find out which CSU campuses accept each degree, please go to www.alameda.peralta.edu . Current and prospective community college students are encouraged to meet with a counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.

Program Learning Outcomes

Upon completion of this program a student will be able to:

- Build greater competence in interpersonal, small group, and public communication.
- Express ideas and viewpoints with greater clarity.
- Develop conflict management and leadership skills.

Career Opportunities

Communication careers include but are not limited to: management, social media, customer service, law, sales, consulting, political organizing, broadcasting, marketing, advertising, public relations, human resources, training, education, and many others.

Program Learning Outcomes

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

1. Build greater competence in interpersonal, small group, and public communication.
2. Express ideas and viewpoints with greater clarity.
3. Develop conflict management and leadership skills.

Degree Requirements:

Required Core (3 Units):		**Credit Hours:**	(0 Required)
COMM 045	Public Speaking		3

List A (select two): 6 units		**Credit Hours:**	(0 Required)
COMM 004	The Dynamics of Group Discussion		3
COMM 020	Interpersonal Communication Skills		3
COMM 044	Argumentation		3

List B (select two): 6 units		**Credit Hours:**	(0 Required)
COMM 001A	Introduction to Speech		3
COMM 002A	The Fundamentals of Oral Interpretation of Literature		3
COMM 005	Persuasion and Critical Thinking		3
COMM 006	Intercultural Communication		3
COMM 019	Survey of Mass Media		3
COMM 035A	Forensic Activity 1		1 - 3

List C (select one): 3 - 4 units		**Credit Hours:**	(0 Required)
ANTHR 003	Introduction to Social and Cultural Anthropology		3
ENGL 001B	Composition and Reading		4
ENGL 005	Critical Thinking in Reading and Writing		3
PSYCH 001A	Introduction to General Psychology		3
SOC 001	Introduction to Sociology		3

Total Required Units: 18-19	**Credit Hours:**

IGETC or CSU GE-Breadth Education pattern and elective courses	**Credit Hours:**	(0 Required)
Units Required		41 - 42

Total units required for degree **Credit Hours:** (60 Required)

Total units required for degree	60

Total: 60

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College of Alameda

Associate in Arts In Studio Arts For Transfer

Overview

College	COA - Science, Technology, Engineering, Art, and Mathematics
Originator	John Drew Burgess
Award Type	AA-T Degree

Codes and Dates

State Approval Date	3/02/2021
Curriculum Committee Approval Date	4/07/2015
Board of Trustees Date	6/09/2015
Top Code	1002.00 - Art

Description

The Associate of Arts Degree in Studio Arts for Transfer is designed for students planning to transfer as a Studio Arts major at a CSU. The AA-T in Studio Arts provides students with a strong foundation in the terminology and principles of the visual arts, two-and three-dimensional design, and an introduction to various techniques, media, expression, and personal artistic discovery. Successful completion of the program with a minimum G.P.A. of 2.0 affords students specific guarantees for transfer to the CSU system such as admission to a CSU with junior status, priority admission to their local CSU campus and to a program or major in studio art or similar major. Students interested in the AA-T degree are advised to consult with the Art Program Chair and a Counselor.

Career Opportunities

The career opportunities for a degree in studio arts include a variety of fine arts occupations: professional artist, art educator, civic arts administration, museum handling, administration and curation and also professional gallery ownership and operation. The fine arts represent a commitment to the ongoing cultural dialogue of humanity

Program Learning Outcomes

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

1. Synthesis of art history studies and art studio innovation to promote decision making, problem solving, and empower the individual in society.
2. Development of artistic creative skills to foster aesthetic reflection in life activities.
3. Productive knowledge of the breadth of world creativity in order to respond, form positions, and make decisions of daily life.

Degree Requirements:

Core Curriculum: 12 units **Credit Hours:** (0 Required)

ART 003	History of Western Art: Renaissance to Contemporary Art	3
ART 046	2-D Visual Design	3
ART 047	3-D Visual Design	3
ART 020	Beginning Drawing & Composition	3

Art History Restricted Electives: Select 1 of the following for a total of 3 units **Credit Hours:** (0 Required)

ART 002	History of Western Art: Prehistory through the Middle Ages	3

ART 004 or	History of Modern Art (1800 to Present)	3

Studio Art Restricted Electives: Select three courses from the following for a minimum of 9 units **Credit Hours:** (0 Required)

ART 022	Intermediate Drawing and Composition	3
ART 050	Beginning Painting	3
ART 052	Intermediate Painting	3
ART 062	Intermediate Painting:Watercolor	3

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

Total units required for major 24

CSU and IGETC requirements **Credit Hours:** (0 Required)

G.E. Units Required 36

Credit Hours: (60 Required)

Total: 60

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College of Alameda

Associate Of Arts Degree In Sociology For Transfer

Overview

College	COA - Liberal Studies and Language Arts
Originator	Sabeen Sandhu
Award Type	AA-T Degree

Codes and Dates

State Approval Date	11/24/2014
Curriculum Committee Approval Date	3/02/2021
Board of Trustees Date	5/14/2013
Current Effective Date	1/01/2015
Program Control Number	33032
Top Code	2208.00 - Sociology

Description

Sociology is the critical and applied investigation of everyday life. This approach to academic studies provides students with an analysis of social life, social change, and the social factors and consequences of human behavior using the methods of social science research. Sociologists examine the structure of groups, sub-cultures, organizations, and societies, and how people interact within these contexts. The subject ranges from the families of origin, families of choice, to organized crime, state crime and white collar crime, to religious cults; from the divisions of race, sexuality, gender and social class to the shared beliefs of a common culture; and from the sociology of work to the sociology of the environment.

In order to earn the AA-T in Sociology, students are required to: • Complete 60 semester CSU-transferable units, including the major requirements for this subject. • Complete the California State University-General Education-Breadth pattern (CSU GE-Breadth); or the Intersegmental General Education Transfer Curriculum (IGETC) pattern. • Complete a minimum of 18 semester units in the major • Obtain of a minimum grade point average (GPA) of 2.0. • Earn a grade of C or higher in all courses required for the major. A "P" (Pass) grade is also an acceptable grade for courses in major if the course is taken on a Pass/No Pass basis.

Career Opportunities

The skills you gain with an Associate Arts Degree in Sociology for Transfer are applicable across fields of study and are useful for careers in: education, community organizing, labor research, violence prevention advocates, activists, human service, community service, research and data science, marketing, social work, business, criminology, government, and with various non-profit organizations that help address systemic social problems.

Program Learning Outcomes

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

1. Define the core concepts of sociology (sociological theories, social structures, culture, social inequality and stratification, race, ethnicity, gender, and globalization). {Foundational Knowledge in Sociology}
2. Apply a working sociological imagation to everyday life with a committment to social justice and equality in our diverse world. {Critical Sociological Thinking}
3. Successfully transfer to a four year college/university with robust sociological training. {Personal Enrichment & Lifelong Learning – Sociological Efficacy}

Degree Requirements:

Required Course **Credit Hours:** (0 Required)

SOC 001	Introduction to Sociology	3

Required (two of the following) **Credit Hours:** (0 Required)

SOC 002	Social Problems	3
SOC 120	Introduction to Research Methods	3
MATH 013	Introduction to Statistics	4

Required (two of the following) **Credit Hours:** (0 Required)

SOC 003	Sociology of Women	3
SOC 005	Minority Groups	3
SOC 008	Crime and Deviance	3
PSYCH 012	Human Sexuality	3
SOCSC 125	Statistics for the Social Sciences	3

Required (one of the following) **Credit Hours:** (0 Required)

ANTHR 003	Introduction to Social and Cultural Anthropology	3
HIST 018	20TH Century American Protest Movements	3
POSCI 004	Political Theory	3

Total Units Required for the Major: 18-19 **Credit Hours:**

IGETC or CSU GE-Breadth Education pattern and elective courses **Credit Hours:** (0 Required)

Units Required	41 - 42

Total Units required for Degree **Credit Hours:** (60 Required)

Total Units Required for Degree	60

Total: 60

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College of Alameda

Associate of Arts in Geography for Transfer - AA-T Degree

Overview

College	COA - Science, Technology, Engineering, Art, and Mathematics
Originator	Cady Carmichael
Award Type	AA-T Degree

Codes and Dates

Curriculum Committee Approval Date	3/16/2021
Top Code	2206.00 - Geography

Description

The Associate of Arts in Geography Transfer Degree (AA-T) is designed for students planning to transfer into the geography major. A student pursuing this degree will meet the AB 1440 Transfer Curriculum Model for CSU.

What is Geography? Humans have long pondered their place in the natural world, recognizing both the challenges and opportunities afforded them by the environment and, more recently, the effects of human activities in modifying that environment. This interplay of natural systems and human societies is the subject of the field of geography. Physical geography focuses primarily on the operation of earth's systems upon which humans depend; cultural geography examines how humans live on the earth: how we modify the landscape, organize space, move about, use resources, and create the economies that sustain us.

Associate Degrees for Transfer

California Community Colleges are now offering associate degrees for transfer to the CSU. These may include Associate in Arts (AA-T) or Associate in Science (AS-T) degrees. These degrees are designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an AA-T or AS-T degree are guaranteed admission with junior standing somewhere in the CSU system and given priority admission consideration to their local CSU campus or to a program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses.

Students are required to:

• Complete 60 semester CSU-transferable units.

• Complete the California State University-General Education-Breadth pattern (CSU GE-Breadth); or the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

• Complete a minimum of 18 semester units in the major

• Obtain of a minimum grade point average (GPA) of 2.0.

• Earn a grade of C or higher in all courses required for the major. A "P" (Pass) grade is also an acceptable grade for courses in major if the course is taken on a Pass/No Pass basis.

To view the most current list of College of Alameda Associate Degrees for Transfer and to find out which CSU campuses accept each degree, please go to www.alameda.peralta.edu. Current and prospective community college students are encouraged to meet with a counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.

Career Opportunities

Career Opportunities include but are not limited to: Aerial Photo Interpreter; Agricultural Geographer; Cartographer; Census Analyst; Climatologist; Community Development Specialist; Demographer; Development Specialist; Ecologist; Economic Development Analyst; Environmental Analyst/Planner; Geographical Information Systems Specialist; Map Curator; Natural Resources Manager; Park Ranger Wording in Current CoA Catalog: Skills learned in the study of geography are useful in many rewarding career paths. Urban planners design

livable environments in the city; environmental managers, employed by government agencies and private industry, work to conserve our natural resources; hydrologists manage increasingly scarce water resources; cartographers produce maps for both public and private employers; academic geographers teach at all levels in our educational system; geographic information system (GIS) specialists provide their technical expertise to assist in the planning of structures and projects; foresters, many employed by the National Forest Service or the US Department of Agriculture, manage millions of acres of precious woodlands; park rangers in state and national parks help to maintain the health and beauty of these places and share their knowledge through public information programs.

Program Learning Outcomes

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

1. Describe the spatial organization of the world's peoples, nations, cultural environments
2. Demonstrate knowledge of global physical and environmental processes and develop an appreciation of landscapes.
3. Demonstrate an understanding of how human activities impact the physical environment.

Degree Requirements:

Major Requirements (7 units)		**Credit Hours:**	(0 Required)
GEOG 001 and	Physical Geography		3
GEOG 001L and	Physical Geography Laboratory		1
GEOG 002 or	Cultural Geography		3
GEOG 003 or	World Regional Geography		3

List A: Select 2 courses from the following: (6 - 7 units)		**Credit Hours:**	(0 Required)
GEOG 015	Introduction to Weather and Climate		3
GEOG 018	California Geography		3
GEOG 014	Introduction to Geographic Information Systems		4

List B: Any List A course or Major Requirement course not already used and 1-2 courses from the following: (		**Credit Hours:**	(0 Required)
GEOL 003	Historical Geology		3
GEOL 010	Introduction to Geology		3
ANTHR 003	Introduction to Social and Cultural Anthropology		3

Total Units Required for the Major: 19 - 20	**Credit Hours:**	(0 Required)
Total units required for major		19 - 20

IGETC or CSU GE-Breadth Education pattern and elective courses	**Credit Hours:**	(0 Required)
G.E. Units Required		40 - 41

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

Total: 60

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College of Alameda

Associate Of Arts In Political Science For Transfer Degree

Overview

College	COA - Liberal Studies and Language Arts
Originator	Robert Brem
Award Type	AA-T Degree

Codes and Dates

State Approval Date	3/05/2014
Curriculum Committee Approval Date	3/02/2021
Board of Trustees Date	4/23/2013
Current Effective Date	8/01/2014
Program Control Number	32503
Top Code	2207.00 - Political Science

Description

The Associate in Arts in Political Science for Transfer Degree (AA-T) is designed for students planning to transfer into the political science major. Political Science is the study of politics using the skills of social scientific inquiry. Political inquiry examines the human use of power in relationships creating the structures operating human society. Inquiry into politics explores power in its myriad forms and consequences for people as individuals, in groups, and in society. This realm of psycho-socio-political inquiry is an integrated field of study drawing upon all the disciplines of the Social and Behavioral Sciences as well as in the Arts and Humanities. Upon completion of an AA-T in Political Science, persons have an increased capacity to: demonstrate an overall working knowledge of the principles of governance; demonstrably be able to utilize critical political thinking; and articulate an appreciation of how to apply what is learned in a manner useful in day to day life. This set of outcomes of learning enables students to become more effective citizens in the context of challenges faced by humans in the Modern World System. Successful completion of the program with a minimum G.P.A. of 2.0 affords students specific guarantees for transfer to the CSU system such as admission to a CSU with junior status, priority admission to their local CSU campus and to a program or major in political science or similar major. Students interested in the AA for transfer degree in political science should consult with the departmental faculty chair.

Students are required to: • Complete 60 semester CSU-transferable units. • Complete the California State University-General Education-Breadth pattern (CSU GE-Breadth); or the Intersegmental General Education Transfer Curriculum (IGETC) pattern. • Complete a minimum of 18 semester units in the major • Obtain of a minimum grade point average (GPA) of 2.0. • Earn a grade of C or higher in all courses required for the major. A "P" (Pass) grade is also an acceptable grade for courses in major if the course is taken on a Pass/No Pass basis.

Career Opportunities

Careers often pursued by persons with training and degrees in political scientists include (but are not limited to): multiple levels of public service and leadership, attorney, diplomat, FBI/CIA Agent, foreign-service officer, labor organizer/union representative, legislative aide, politician, public intellectual, research specialist, and teacher. Other career options in Public Administration include: government management (City, County, Regional, State or Federal Levels); administrative and policy analysis; policy analysis; non-profit administration; and planning and resources development.

Program Learning Outcomes

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

1. Demonstrate a degree of mastery of the state of the discipline of political science {theoretical and practical knowledge of the historical background and the foundational principles of government and governance (utilizing: description, definition, summarization & explanation)}; and a working knowledge of these in use; with respect to inter-relatedness of humans in the environment, engaging with people from diverse backgrounds, and in understanding and acknowledging the significance of daily individual and social actions relative to global issues and the emergence of our shared future. {Foundational Knowledge}

2. Demonstrate a degree of proficiency at the life skills of critical political thinking and futures consciousness to better access, evaluate, and interpret ideas found in political philosophy and theory and information enabling people so disciplined to communicate effectively, reach conclusions, and solve problems as citizens - part of the governance structure of a political world - such that they may apply these in their professional pursuits should they choose a path of public service or community leadership, of simply community participants. {Critical Political Thinking}
3. Demonstrate a degree of capacity in personal political efficacy to assume responsibility – consistent with democratic republican values - in the application of socio-political concepts explored in this learning experience (class, classes, program) in a meaningful manner to a person's own self defined reality in the public, private and social sectors (a) as part of their everyday life as engaged citizens in the modern world system; and (b) in the context of global environmental (and other) challenges. {Personal Enrichment & Lifelong Learning – Psycho-Socio-Political Efficacy}

Degree Requirements:

Required Core Course (3 unit):		**Credit Hours:**	(0 Required)
POSCI 001 or	Government and Politics in the United States		3
POSCI 026	U.S. and California Constitution		3
AND			

List A: Three courses (9 units):		**Credit Hours:**	(0 Required)
POSCI 002	Comparative Government		3
POSCI 003	International Relations		3
POSCI 004	Political Theory		3
AND			

List B: Select two (2) courses (6 units) from the following:		**Credit Hours:**	(0 Required)
POSCI 006 or	U.S. Constitution and Criminal Due Process		3
POSCI 008 or	Law and Democracy		3
POSCI 035 or	Introduction to Community Violence Prevention		3
HIST 018 or	20TH Century American Protest Movements		3
POSCI 031 or	Introduction to Public Administration		3
POSCI 037 or	Transformative Social Change and Futures Studies		3
SOC 001 or	Introduction to Sociology		3
SOC 002	Social Problems		3

**Credit is only allowed for either POSCI 6 or POSCI 26, but not both.*

Total Units Required for the Major: 18 **Credit Hours:**

IGETC or CSU GE-Breadth Education pattern and elective courses	**Credit Hours:**	(0 Required)
Units Required		42

Total Units required for Degree	**Credit Hours:**	(60 Required)
Total Units required for Degree		60

Total: 60

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College of Alameda

Associate of Science in Geology

Overview

College	COA - Science, Technology, Engineering, Art, and Mathematics
Originator	Eric Peter Olds
Award Type	AS-T Degree

Codes and Dates

Curriculum Committee Approval Date	3/02/2021
Top Code	1914.00 - Geology

Description

The Associate of Science in Geology Transfer Degree (AS-T) is designed for students planning to transfer into the geology major. A student pursuing this degree will meet the AB 1440 Transfer Curriculum Model for CSU.

An Associate of Science in Geology for Transfer (AS-T) from College of Alameda is intended for students who plan to transfer to a California State University (CSU) campus with a major in Geology. This AS-T degree gives students the opportunity to learn the principles and practices in the various fields of Geology and form a solid knowledge base that will serve as preparation for further education. Upon completion of this program, students will be well prepared for upper division course work in Geology.

Associate Degrees for Transfer

California Community Colleges are now offering associate degrees for transfer to the CSU. These may include Associate in Arts (AA-T) or Associate in Science (AS-T) degrees. These degrees are designed to provide a clear pathway to a CSU major and baccalaureate degree.

California Community College students who are awarded an AA-T or AS-T degree are guaranteed admission with junior standing somewhere in the CSU system and given priority admission consideration to their local CSU campus or to a program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses.

Students are required to:

• Complete 60 semester CSU-transferable units.

• Complete the California State University-General Education-Breadth pattern (CSU GE-Breadth); or the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

• Complete a minimum of 18 semester units in the major

• Obtain of a minimum grade point average (GPA) of 2.0.

• Earn a grade of C or higher in all courses required for the major. A "P" (Pass) grade is also an acceptable grade for courses in major if the course is taken on a Pass/No Pass basis.

To view the most current list of College of Alameda Associate Degrees for Transfer and to find out which CSU campuses accept each degree, please go to www.alameda.peralta.edu. Current and

prospective community college students are encouraged to meet with a counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.

Career Opportunities

Energy resources technicians, laboratory research, professor, hydrologist, flood control specialist, volcanologist, environmental clean-up resource specialist, pollution control manager, seismologist, many other opportunities in geological resource exploration and management.

Program Learning Outcomes

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

1. Demonstrate understanding of the scientific method as it relates to Earth Science
2. Demonstrate analytical and critical thinking skills required to understand Geological processes in the past and present with respect to future problems and solutions.
3. Describe and communicate physical and chemical Earth processes in preparation for transfer and/or employment in Geology or related fields.

Degree Requirements:

Required Courses (28 units)		**Credit Hours:**	(0 Required)
GEOL 001	Introduction to Physical Geology		4
GEOL 003	Historical Geology		3
GEOL 003L	Historical Geology Laboratory		1
CHEM 001A	General Chemistry		5
CHEM 001B	General Chemistry		5
MATH 003A	Calculus I		5
MATH 003B	Calculus II		5

Total units required for major: 28	**Credit Hours:**	(0 Required)
Total Units Required for Major		28

IGETC or CSU GE-Breadth Education pattern and elective courses	**Credit Hours:**	(0 Required)
G.E. Units Required		32

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

Total: 60

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College of Alameda

Associate Of Science In Mathematics For Transfer Degree

Overview

College	COA - Science, Technology, Engineering, Art, and Mathematics
Originator	Vanson Nguyen
Award Type	AS-T Degree

Codes and Dates

State Approval Date	1/24/2019
Curriculum Committee Approval Date	3/02/2021
Board of Trustees Date	4/14/2015
Current Effective Date	8/01/2015
Program Control Number	31145
Top Code	1701.00 - Mathematics, General

Description

The Associate in Science in Mathematics for Transfer Degree (AS-T) is designed for students planning to transfer into the mathematics major. Successful completion of the program with a minimum G.P.A. of 2.0 affords students specific guarantees for transfer to the CSU system such as admission to a CSU with junior status, priority admission to their local CSU campus and to a program or major in mathematics or similar major. Students interested in the AS-T for transfer degree in mathematics should consult with the departmental faculty chair. The AS-T degree will be awarded upon completion of the major course requirements listed below and the CSU General Education breadth or Intersegmental General Education Transfer Curriculum (IGETC) requirements for the Associate in Science Degree listed in the Degrees, Programs & Transfer Requirements section of this Catalog.

Students are required to:

• Complete 60 semester CSU-transferable units.

• Complete the California State University-General Education-Breadth pattern (CSU GE-Breadth); or the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

• Complete a minimum of 18 semester units in the major

• Obtain of a minimum grade point average (GPA) of 2.0.

• Earn a grade of C or higher in all courses required for the major. A "P" (Pass) grade is also an acceptable grade for courses in major if the course is taken on a Pass/No Pass basis.

Career Opportunities

In the modern world, there are many fields that need specialists in mathematics. Careers in mathematics include scientists, researchers, space technicians, mathematics teachers, actuaries and insurance specialists, and people who can combine mathematical knowledge with a scientific, computer, or business background.

Program Learning Outcomes

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

1. Use quantitative reasoning to solve everyday mathematical problems in the workplace and in the home.
2. Read, write, and critique technical writings and analytical arguments.
3. Convey and interpret information through visual representations.

Degree Requirements:

Required Core		**Credit Hours:**	(0 Required)
MATH 003A	Calculus I		5
MATH 003B	Calculus II		5
MATH 003C	Calculus III		5

Select 6 units minimum from the LISTS below with at least 3 units from LIST A		**Credit Hours:**	(0 Required)

List A		**Credit Hours:**	(0 Required)
MATH 003E or	Linear Algebra		3
MATH 003F or	Differential Equations		3

List B		**Credit Hours:**	(0 Required)
MATH 011 or	Discrete Mathematics		4
PHYS 004A or	General Physics with Calculus		5
MATH 012 or	Symbolic Logic		4
MATH 013 or	Introduction to Statistics		4

Total Units Required for the Major: 21-23 **Credit Hours:**

IGETC or CSU GE-Breadth Education pattern and elective courses	**Credit Hours:**	(0 Required)
Units required		37 - 39

Total Units required for Degree	**Credit Hours:**	(60 Required)
Total Units required for Degree		60

Total: 60

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College of Alameda

Automotive Electronics Specialist

Overview

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

Codes and Dates

Curriculum Committee Approval Date	3/02/2021
Board of Trustees Date	1/01/1995
Program Control Number	19828
Top Code	0948.00* - Automotive Technology

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.

A Certificate of Achievement will be awarded upon satisfactory completion of the major course requirements listed below for each option with a minimum GPA of 2.0. A Certificate of Proficiency in Light-Duty Auto Repair is also available upon satisfactory completion of the required courses listed below.

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.

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.

Degree Requirements:

FIRST SEMESTER		**Credit Hours:**	(14 Required)
Degree Major/Certificate Requirements			
ATECH 021	TRANSPORTATION TECHNOLOGY PRINCIPLES		4
ATECH 022	Introduction to Auto Mechanics		4
BUS 208	Communication Skills for Technicians *		3
MATH 225	Mathematics for Technicians		3
SECOND SEMESTER		**Credit Hours:**	(10 Required)
ATECH 012	Automotive Electrical & Electronic Systems		10
THIRD SEMESTER		**Credit Hours:**	(10 Required)
ATECH 042	Advanced Automotive Electronics		10
			Total: 34

*: Candidates for the AS Degree should take Mathematics and English classes required for that degree.

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Laney College

Ceramics

Overview

College	Laney - Liberal Arts
Originator	Anna Vaughan
Award Type	A.A. Degree

Description

A major in ceramics provides the necessary technical knowledge, skills, and aesthetic judgment to students transferring to four-year institutions or professional art schools. The major can lead to a career in industrial design, artist, or as a technician.

A student will have skills to obtain entry level positions as an educator/technician or sole proprietor for a business.

Career Opportunities

start own business; employeed as production potter; ceramicist; technician at a school or community center; teach at community center; add to teaching credential abilities.

Program Learning Outcomes

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

1. Demonstrate ability to load, fire, and unload, gas, and electric kilns
2. Formulate and mix glazes as well as test and evaluate the results.
3. Produce work using the potter's wheel as well as creating work using hand building techniques.

Degree Requirements:

Core Courses (23 units): **Credit Hours:** (0 Required)

ART 020	Beginning Drawing & Composition	3
ART 075	Beginning Figure Sculpture	3
ART 080	Beginning Ceramics	3
ART 081	Continuing Ceramics	3
ART 082	Intermediate Ceramics	3
ART 003	History of Western Art: Renaissance to Contemporary Art	3
ART 084	Special Projects: Ceramics	2
ART 083	Advanced Ceramics	3

Design Course (Select one of the following) (3 units):		**Credit Hours:** (0 Required)
ART 046	2-D Visual Design	3
ART 047	3-D Visual Design	3
ART 040	Color Dynamics: The Interaction of Color	3

Electives (min 3 units):		**Credit Hours:** (0 Required)
ART 001	Introduction to Art History	3
ART 002	History of Western Art: Prehistoric Through the Middle Ages	3
ART 005	History of Asian Art (Past to Present)	3
ART 007	History of African American Art (Past to Present)	3
ART 137	Beginning Figure Drawing and Composition	3
ART 141	Eco Art Matters-Beginning	3
ART 100	Beginning Printmaking	3
ART 035	Beginning Portraiture	2
ART 176	Beginning Sculpture	3

	Credit Hours: (0 Required)
General Education Requirements	19

	Credit Hours: (0 Required)
Electives to meet 60 units	

	Credit Hours: (60 Required)
Total Units	60

Total: 60

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College of Alameda

Chassis Specialist

Overview

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

Codes and Dates

Curriculum Committee Approval Date	3/02/2021
Board of Trustees Date	11/04/2014
Program Control Number	19840
Top Code	0948.00* - Automotive Technology

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.

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.

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.

Degree Requirements:

Program course requirements **Credit Hours:** (34 Required)

ATECH 021	TRANSPORTATION TECHNOLOGY PRINCIPLES	4
ATECH 022	Introduction to Auto Mechanics	4
MATH 225	Mathematics for Technicians	3
BUS 208	Communication Skills for Technicians	3
ATECH 010	Automotive Chassis	10
ATECH 040	Advanced Automotive Chassis	10

Total: 34

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College of Alameda

Dental Assisting

Overview

College	COA - Career and Workforce Education
Originator	Carla Pegues
Award Type	A.S. Degree

Codes and Dates

Curriculum Committee Approval Date	3/16/2021
Board of Trustees Date	8/01/2015
Program Control Number	01124
Top Code	1240.10* - Dental Assistant

Description

The Dental Assisting Program is designed to meet the requirements of the American Dental Association Council on Dental Education for Dental Assistants. The program includes lecture and laboratory practice in the classroom. As part of their field experience, students are required to participate in internships in private offices and at the UCSF Dental School.

The program requires 32 semester units in Dental Assisting, plus 9 semester units in other general education required courses; for a total of 41 units. Students completing all required courses with a minimum grade point average of 2.0 (“C”) will earn a Certificate of Achievement and be qualified to take the Certification Examination of the Dental Assisting National Board (DANB) and the State of California RDA examinations; and will be prepared to assume the responsibilities of assisting the dentist in all phases of general and specialty practice.

The **AS degree in Dental Assisting** will be awarded upon satisfactory completion of the Major Course Requirements and the General Education requirements. A **Certificate of Achievement** will be awarded upon satisfactory completion of the Major Course Requirements.

Career Opportunities

This full-time curriculum is designed to meet the requirements of the American Dental Association Council on Dental Education for Dental Assistants. The program includes lecture and laboratory practice in the classroom. Clinical experience is required in the dental clinics of the University of California and the University of Pacific Dental Schools in San Francisco, as well as in private dental offices. Students completing all required courses with a minimum grade of 75% = C or better grade will earn a Certificate of Achievement and be qualified to take the Certification Examination of the DANB, the State of California RDA examinations, and will be prepared to assume the responsibilities of assisting the dentist in all phases of general practice. The program requires 32 semester units in Dental Assisting, plus 9 semester units in other general education required courses.

Admission is by special application directly to the Dental Assisting Department. The application deadline is April 15 of each year for admission into the program starting the following fall semester. The Dental Assisting Program is allowed to take up to 24 students each fall semester per CODA regulations. All completed applications will be placed in a lottery after the applicant has attended the first mandatory orientation. After the first 24 eligible applicants have been selected, all other applicants will be placed on a wait-list and informed in writing of any openings. Applicants will be notified by mail and email of acceptance into the Dental Assisting program. Applications received after April 15 will be accepted only on a space-available basis.

Eligibility/Admission/Prerequisite and Degree/Certificate Requirements are as follows:

1. Completion of all Dental Assisting courses with a grade of 2.0 (“C”) or better.

2. Possession of a high school diploma or the equivalent is required prior to application to and admission into the program.

3. Official transcripts must be on file in the Admissions and Records Office prior to program application.

4. HLTED 11, CPR (.5 units); OR possession of acurrent BLS/CPR card from an approved provider are required prior to enrollment in the program.

5. Physical and dental examinations, and negative TB and hepatitis test results are required to be submitted to the Dental Assisting Department prior to enrollment in the program.

6. It is highly recommended (but not required) that the following be completed prior to admission into the program and enrollment in Fall term courses: DENTL 251, Dental Terminology and CIS 205, Computer Literacy.

Career Opportunities

Students in this major typically are employed as dental assistants in private dental offices.

Program Learning Outcomes

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

1. Differentiate and evaluate specialty procedures within each of the dental specialties.
2. Communicate verbally using acceptable dental terminology in regards to interpersonal skills and concerns for the patients' welfare.
3. Recognize, support and facilitate the importance of HIPPA laws.
4. Demonstrate acceptable dental office procedures

Degree Requirements:

Prerequisite Requirements: Completion of BLS/CPR for Heathcare providers. **Credit Hours:**

Degree Major Requirements: 32 units **Credit Hours:** (0 Required)

DENTL 220A	Infection Control and Oral Health	2
DENTL 220B	Infection Control and Coronal Polish	1
DENTL 221	Professional Standards	0.5
DENTL 222	Oral Anatomy, Morphology and Body Systems	3.5
DENTL 223	Chairside Procedures	3
DENTL 224A	Dental Radiology	3
DENTL 225	Dental Materials and Lab Procedures	3
DENTL 224B	Dental Radiology II	2
DENTL 226	Advanced Chairside Procedures	3
DENTL 227	Biodental Sciences	2
DENTL 228A	Clinical Rotations and Review	2
DENTL 228B	Clinical Rotations and Review	6
DENTL 229	Practice Management	1.5
DENTL 230	Pit and Fissure Sealants	0.5

Courses outside discipline; also required for the Major/Certificate of Achievement (2 units) **Credit Hours:** (0 Required)

ENGL 201B	Preparation for Composition and Reading	3
PSYCH 001A	Introduction to General Psychology	3
COMM 001A or	Introduction to Speech	3
COMM 020 or	Interpersonal Communication Skills	3
COMM 045	Public Speaking	3

Major Requirement - 41 units **Credit Hours:** (0 Required)

Major Requirement - 41 units 41

General Education and Electives - 19 units **Credit Hours:** (0 Required)

General Education and Electives - 19 units 19

Total units for A.S. Degree **Credit Hours:** (60 Required)

Total: 60

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College of Alameda

Drivetrain Specialist

Overview

College	COA - Career and Workforce Education
Originator	Rick Greenspan
Award Type	A.S. Degree

Codes and Dates

Curriculum Committee Approval Date	3/02/2021
Top Code	0948.00* - Automotive Technology

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.

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.

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.

Degree Requirements:

FIRST SEMESTER		**Credit Hours:**	(14 Required)
Degree Major/Certificate Requirements			
ATECH 021	TRANSPORTATION TECHNOLOGY PRINCIPLES		4
ATECH 022	Introduction to Auto Mechanics		4
BUS 208	Communication Skills for Technicians *		3
MATH 225	Mathematics for Technicians		3
SECOND SEMESTER		**Credit Hours:**	(10 Required)
ATECH 015	DRIVE TRAIN AND AUTOMATIC TRANSMISSIONS		10
THIRD SEMESTER		**Credit Hours:**	(10 Required)
ATECH 045	ADVANCED AUTOMOTIVE TRANSMISSIONS AND TRANSAXLES		10
G.E. Units Required (minimum)		**Credit Hours:**	(26 Required)
			Total: 60

*: Candidates for the AS Degree should take Mathematics and English classes required for that degree.

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College of Alameda

Drivetrain Specialist

Overview

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

Codes and Dates

Curriculum Committee Approval Date	3/02/2021
Top Code	0948.00* - Automotive Technology

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.

A Certificate of Achievement will be awarded upon satisfactory completion of the major course requirements listed below for each option with a minimum GPA of 2.0. A Certificate of Proficiency in Light-Duty Auto Repair is also available upon satisfactory completion of the required courses listed below.

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.

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.

Degree Requirements:

FIRST SEMESTER		**Credit Hours:**	(14 Required)
Degree Major/Certificate Requirements			
ATECH 021	TRANSPORTATION TECHNOLOGY PRINCIPLES		4
ATECH 022	Introduction to Auto Mechanics		4
BUS 208	Communication Skills for Technicians *		3
MATH 225	Mathematics for Technicians		3
SECOND SEMESTER		**Credit Hours:**	(10 Required)
ATECH 015	DRIVE TRAIN AND AUTOMATIC TRANSMISSIONS		10
THIRD SEMESTER		**Credit Hours:**	(10 Required)
ATECH 045	ADVANCED AUTOMOTIVE TRANSMISSIONS AND TRANSAXLES		10
			Total: 34

*: Candidates for the AS Degree should take Mathematics and English classes required for that degree.

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College of Alameda

Engine Performance

Overview

College	COA - Career and Workforce Education
Originator	Rick Greenspan
Award Type	A.S. Degree

Codes and Dates

Curriculum Committee Approval Date	3/02/2021
Program Control Number	01114
Top Code	0948.00* - Automotive Technology

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.

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.

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.

Degree Requirements:

FIRST SEMESTER		**Credit Hours:**	(14 Required)
Degree Major/Certificate Requirements			
ATECH 021	TRANSPORTATION TECHNOLOGY PRINCIPLES		4
ATECH 022	Introduction to Auto Mechanics		4
BUS 208	Communication Skills for Technicians *		3
MATH 225	Mathematics for Technicians *		3

SECOND SEMESTER		**Credit Hours:**	(10 Required)
ATECH 011	Engines, Fuel and Ignition Systems		10

THIRD SEMESTER		**Credit Hours:**	(14 Required)
ATECH 012	Automotive Electrical & Electronic Systems		10
ATECH 024A or	Computer Controls and Fuel Injection		4

FOURTH SEMESTER		**Credit Hours:**	(12 Required)
ATECH 014	ADVANCED ENGINE PERFORMANCE		10
ATECH 027	Smog Check II		2

Atech 11 is a prerequisite for Atech 24. Atech 11 and Atech 12 are prerequisites for Atech 14 and 25. Atech 24A is a prerequisite for

G.E. Units Required (minimum)	**Credit Hours:**	(10 Required)

Total: 60

*: Candidates for the AS Degree should take Mathematics and English classes required for that degree.

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College of Alameda

Engine Performance

Overview

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

Codes and Dates

Curriculum Committee Approval Date	3/02/2021
Program Control Number	19831
Top Code	0948.00* - Automotive Technology

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.

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.

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.

Degree Requirements:

FIRST SEMESTER		**Credit Hours:**	(14 Required)
Degree Major/Certificate Requirements			
ATECH 021	TRANSPORTATION TECHNOLOGY PRINCIPLES		4
ATECH 022	Introduction to Auto Mechanics		4
BUS 208	Communication Skills for Technicians *		3
MATH 225	Mathematics for Technicians *		3
SECOND SEMESTER		**Credit Hours:**	(10 Required)
ATECH 011	Engines, Fuel and Ignition Systems		10
THIRD SEMESTER		**Credit Hours:**	(14 Required)
ATECH 012	Automotive Electrical & Electronic Systems		10
ATECH 024A or	Computer Controls and Fuel Injection		4
FOURTH SEMESTER		**Credit Hours:**	(12 Required)
ATECH 014	ADVANCED ENGINE PERFORMANCE		10
ATECH 027	Smog Check II		2

Atech 11 is a prerequisite for Atech 24. Atech 11 and Atech 12 are prerequisites for Atech 14 and 25. Atech 24A is a prerequisite for

Total: 50

*: Candidates for the AS Degree should take Mathematics and English classes required for that degree.

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College of Alameda

Geography - Associate of Arts Degree

Overview

College	COA - Science, Technology, Engineering, Art, and Mathematics
Originator	Cady Carmichael
Award Type	A.A. Degree

Codes and Dates

Curriculum Committee Approval Date	3/02/2021
Top Code	2206.00 - Geography

Description

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

The A.A. degree in Geography at College of Alameda offers students the opportunity to prepare for a broad range of professions through the study of the spatial distribution of global physical features, environmental processes, and aspects of human culture that impact global environments.

Career Opportunities

Career Opportunities include but are not limited to: Aerial Photo Interpreter; Agricultural Geographer; Cartographer; Census Analyst; Climatologist; Community Development Specialist; Demographer; Development Specialist; Ecologist; Economic Development Analyst; Environmental Analyst/Planner; Geographical Information Systems Specialist; Map Curator; Natural Resources Manager; Park Ranger

Program Learning Outcomes

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

1. Describe the spatial organization of the world's peoples, nations, cultural environments
2. Demonstrate knowledge of global physical and environmental processes and develop an appreciation of landscapes.
3. Demonstrate an understanding of how human activities impact the physical environment.

Degree Requirements:

Required Courses (7 units)		**Credit Hours:** (0 Required)
GEOG 001	Physical Geography	3
GEOG 001L	Physical Geography Laboratory	1
GEOG 002	Cultural Geography	3

Select a minimum of 4 courses from the following: (12-13 units)		**Credit Hours:** (0 Required)
GEOG 003	World Regional Geography	3
GEOG 015	Introduction to Weather and Climate	3
GEOG 018	California Geography	3
GEOG 014 or	Introduction to Geographic Information Systems	4
GEOL 003 or	Historical Geology	3

GEOL 010 or	Introduction to Geology	3
ANTHR 003 or	Introduction to Social and Cultural Anthropology	3

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

Total units required for major 19 - 20

G.E. and Elective Units Required **Credit Hours:** (0 Required)

G.E. Units Required 40 - 41

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

Total: 60

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College of Alameda

Geology - A.S. Degree

Overview

College	COA - Science, Technology, Engineering, Art, and Mathematics
Originator	Eric Peter Olds
Award Type	A.S. Degree

Codes and Dates

Curriculum Committee Approval Date	3/16/2021
Top Code	1914.00 - Geology

Description

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

An Associate of Science in Geology (AS) from College of Alameda is intended for students who are interested in earning a local 2-year degree in Geology. This AS degree gives students the opportunity to learn the principles and practices in the various fields of Geology and form a solid knowledge base that will serve as preparation for employment and/or future studies. Upon completion of this program, students will be well prepared for employment enhancement and advancement, as well as entry-level employment in Geology and related fields.

Career Opportunities

Energy resources technicians, laboratory research, professor, hydrologist, flood control specialist, volcanologist, environmental clean-up resource specialist, pollution control manager, seismologist, many other opportunities in geological resource exploration and management.

Program Learning Outcomes

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

1. Demonstrate understanding of the scientific method as it relates to Earth Science
2. Demonstrate analytical and critical thinking skills required to understand Geological processes in the past and present with respect to future problems and solutions.
3. Describe and communicate physical and chemical Earth processes in preparation for transfer and/or employment in Geology or related fields.

Degree Requirements:

Degree Major Requirements: (28 units)		**Credit Hours:** (0 Required)
GEOL 001	Introduction to Physical Geology	4
GEOL 003	Historical Geology	3
GEOL 003L	Historical Geology Laboratory	1
CHEM 001A	General Chemistry	5
CHEM 001B	General Chemistry	5
MATH 003A	Calculus I	5
MATH 003B	Calculus II	5

Recommended: at least one of the following GE courses:		**Credit Hours:** (0 Required)
GEOL 018 or	Geology of California	3
GEOG 001 or	Physical Geography	3
ANTHR 001 or	Introduction to Physical Anthropology	3
GEOG 014 or	Introduction to Geographic Information Systems	4
GEOL 002 or	Introduction to Mineralogy	4
GEOL 022 or	California Coast Range Studies	3

Total units required for major	**Credit Hours:** (0 Required)
Total units required for major	28

G.E. Units and Electives Required	**Credit Hours:** (0 Required)
G.E. Units Required	32

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

Total: 60

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Laney College

Indigenous Languages and Cultures-Mam

Overview

College	Laney - Liberal Arts
Originator	Arturo Davila-Sanchez
Award Type	Certificate of Achievement

Description

The Certificate of Achievement in Indigenous Languages and Cultures -Mam is designed to assist community members and students develop an understanding and appreciation of an indigenous language still spoken by thousands of Mam people in Central America, Mexico and United States. The certificate is designed to prepare community members and students to know the roots of their Mayan culture and civilization and the Mayan-Mam speakers. Honoring a community-based approach, the Mam courses emphasize a deep knowledge and understanding of the language and the culture.

Career Opportunities

With the arrival of more than 15 000 Mam speakers into the Bay Area in the last 15 years, there is an enormous need for Mam translators and interpreters in our society. Even though most of the families come fro Guatemala and the south of Mexico, they do not speak neither Spanish nor English. Their children attend day-cares, elementary schools, and high schools and need to be educated and trained in their own language. Many schools, clinics, hospitals, and legal companies required services of translation and cultural intermediates. This recent wave of Mam immigrants has created great career opportunities for people who get trained on Mama language and culture. Thus we have created this certificate of achievement in Mam language and culture.

Program Learning Outcomes

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

1. 1.- Demonstrate oral competence in the Mam language
2. 2.- Demonstrate written competence in the Mam language.
3. 3.- Describe and analyze critically the intersections between Mam, Spanish, and English in the US.
4. 4.- Analyze and interpret pre-colonial, colonial, and contemporary oral and written documents and texts of resistance created by the Mayan / Mam people.

Degree Requirements:

Core Courses: (15 units) **Credit Hours:** (0 Required)

SPAN 053A	Beginning Mam Language and Culture	5
SPAN 053B	Intermediate Mam Language and Culture	5

SPAN 053C	Advanced Mam Language and Culture	5

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

SPAN 033A	Beginning Conversational Nauatl	3
LCI 201	Introduction to Translation and Interpretation – Spanish	4
M/LAT 030A	Survey of Latin-American Films	3
M/LAT 030B	Survey of Latin-American Films	3
MUSIC 101	Music Theory and Culture I	3

Total: 18

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Laney College

Performance And Production For Video, Broadcast And Digital Cinematography

Overview

College	Laney - Humanities, Social Sciences
Originator	Vina Cera
Award Type	A.S. Degree

Description

The major in Performance and Production for Video, Broadcast and Digital Cinematography offers the student a wide variety of acting, directing and producing for the digital screen arts, including experience in announcing, interactive journalism and reporting for broadcast, the web and other emerging digital communications, podcasting, scriptwriting, drama, voice-overs, news and sportscasting.

Career Opportunities

film/video producers and directors, television writers/announcers/producers/directors, sports writers/announcers, corporate video/promotions, writing for web sites, training video productions, infomercial production, advertising video, web shopping videos, music videos, voice overs, writing for interactive journalism, acting for various screen productions

Program Learning Outcomes

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

1. Write, perform, record, deliver PSA's, commercials, news scripts and scenes for radio, television, web and film.
2. Analyze scripts to develop a performance which integrates appropriate vocal technique, characterization and emotional interpretation.
3. Create a coherent, industry relevant show reel of work and integrate studies toward professional aspirations.

Degree Requirements:

Degree Major Requirements (min 20 units): **Credit Hours:** (0 Required)

MEDIA 100A	Broadcast Media Announcing and Performance	3
MEDIA 101A	Acting/Directing for Film and Digital Media	3
MEDIA 102A	Broadcast Journalism I	3
MEDIA 104	Beginning Digital Video Production	3
MEDIA 111	Basic Audio Production	3
MEDIA 125	Scriptwriting for Video, Broadcast and Digital Cinematography	3
MEDIA 129	Portfolio Development	1
MEDIA 460A	Occupational Work Experience in Media Communications	1

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

MEDIA 100B	Broadcast Media Announcing and Performance	3
MEDIA 101B	Acting/ Directing for Film and Digital Media	3
MEDIA 102B	Broadcast Journalism II	3
MEDIA 108	Studio Production	3
MEDIA 112	Media Freelancing and Entrepreneurship	3
MEDIA 115	Media-based Computing and Mac OS X	3
MEDIA 130	Final Cut Pro I: Beginning Nonlinear Editing for Video, Broadcast and Digital Cinematography	3
MEDIA 150	Pro Tools: Sound Design/Aesthetics for Video, Broadcast and Digital Cinematography	3

MEDIA 155	Basic Sound Recording and Music Video	3
MEDIA 156	Sound Mixing and Mastering	3

Credit Hours: (0 Required)

Total Major Units: 23

Credit Hours: (0 Required)

General Education Requirements: 19

Credit Hours: (0 Required)

CSU Electives to meet 60

Credit Hours: (60 Required)

Total Units: 60

Total: 60

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Laney College

Performance And Production For Video, Broadcast And Digital Cinematography

Overview

College	Laney - Humanities, Social Sciences
Originator	Vina Cera
Award Type	Certificate of Achievement

Description

The major in Performance and Production for Video, Broadcast and Digital Cinematography offers the student a wide variety of acting, directing and producing for the digital screen arts, including experience in announcing, interactive journalism and reporting for broadcast, the web and other emerging digital communications, podcasting, scriptwriting, drama, voice-overs, news and sportscasting.

Career Opportunities

film/video producers and directors, television writers/announcers/producers/directors, sports writers/announcers, corporate video/promotions, writing for web sites, training video productions, infomercial production, advertising video, web shopping videos, music videos, voice overs, writing for interactive journalism, acting for various screen productions

Program Learning Outcomes

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

1. Write, perform, record, deliver PSA's, commercials, news scripts and scenes for radio, television, web and film.
2. Analyze scripts to develop a performance which integrates appropriate vocal technique, characterization and emotional interpretation.
3. Create a coherent, industry relevant show reel of work and integrate studies toward professional aspirations.

Degree Requirements:

Degree Major/Certificate Requirements: **Credit Hours:** (20 Required)

MEDIA 100A	Broadcast Media Announcing and Performance	3
MEDIA 101A	Acting/Directing for Film and Digital Media	3
MEDIA 102A	Broadcast Journalism I	3
MEDIA 104	Beginning Digital Video Production	3
MEDIA 111	Basic Audio Production	3
MEDIA 125	Scriptwriting for Video, Broadcast and Digital Cinematography	3
MEDIA 129	Portfolio Development	1
MEDIA 460A	Occupational Work Experience in Media Communications	1

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

MEDIA 100B	Broadcast Media Announcing and Performance	3
MEDIA 101B	Acting/ Directing for Film and Digital Media	3
MEDIA 102B	Broadcast Journalism II	3
MEDIA 108	Studio Production	3
MEDIA 112	Media Freelancing and Entrepreneurship	3
MEDIA 115	Media-based Computing and Mac OS X	3
MEDIA 150	Pro Tools: Sound Design/Aesthetics for Video, Broadcast and Digital Cinematography	3
MEDIA 155	Basic Sound Recording and Music Video	3

MEDIA 156	Sound Mixing and Mastering	3
MEDIA 130	Final Cut Pro I: Beginning Nonlinear Editing for Video, Broadcast and Digital Cinematography	3

Total: 23

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Laney College

Video Production For Video, Broadcast And Digital Cinematography

Overview

College	Laney - Humanities, Social Sciences
Originator	Vina Cera
Award Type	A.S. Degree

Description

The associate degree in Video Production for Video, Broadcast and Digital Cinematography covers the entire range of digital video, audio and media production, from script development, hands-on, current professional 2K and 4K production equipment, current editing and other post-production effects and applications, distribution, and media business management. We are also now beginning to expand into the VR/AR world, and integrating basic networking into the department's programs. Production of creative content for video, film, sports and broadcast TV, radio, cable, web, mobile technology, and other emerging communications technologies.

Career Opportunities

Video editor, camera operator, film/video producers, video effects artists, event videographer, sports videographer, audio/visual technician, live entertainment rentals and productions, corporate video/promotions, video for web sites, training video production, infomercial production, advertising video, web shopping videos, music videos

Program Learning Outcomes

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

1. Design and create digital media projects using state-of-the-art technology and skill sets, incorporating digital video/audio, aesthetic design, interactivity, effects graphics and current distribution formats.
2. Apply appropriate critical and creative problem solving skills to analyze the aesthetic and production elements of video, television and other interactive digital media
3. Practice teamwork and collaboration.
4. Create a professional, industry-relevant show reel.

Degree Requirements:

Core Courses (min 14 units): **Credit Hours:** (0 Required)

MEDIA 104	Beginning Digital Video Production	3
MEDIA 111	Basic Audio Production	3
MEDIA 125	Scriptwriting for Video, Broadcast and Digital Cinematography	3
MEDIA 130	Final Cut Pro I: Beginning Nonlinear Editing for Video, Broadcast and Digital Cinematography	3
MEDIA 129	Portfolio Development	1
MEDIA 460A	Occupational Work Experience in Media Communications	1

Select two courses from the following (min 6 units): **Credit Hours:** (0 Required)

MEDIA 070	XR Design: Virtual Reality	3
MEDIA 108	Studio Production	3
MEDIA 120	Making Documentaries	3
MEDIA 122	Music Video Production	3
MEDIA 131	Final Cut Pro II: Intermediate Nonlinear Editing for Video, Broadcast and Digital Cinematography	3
MEDIA 135	Premiere Pro 1: Nonlinear Editing for Video, Broadcast and Digital Cinematography	3
MEDIA 138	DaVinci Resolve: Video Editing	3
MEDIA 180 or	HDSLR Workflow for Digital Photography and Cinematography *	3
PHOTO 180	HDSLR Workflow for Digital Photography and Cinematography	3

MEDIA 181	Red Digital Cinema Production in 4K	3

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

MEDIA 112	Media Freelancing and Entrepreneurship	3
MEDIA 132	Final Cut Pro III: Advanced Nonlinear Editing for Video, Broadcast, and Digital Photography	3
MEDIA 139	DaVinci Resolve: Advanced Video Editing	3
MEDIA 140	After Effects: Motion Graphics for Video, Broadcast and Digital Cinematography	3
MEDIA 150	Pro Tools: Sound Design/Aesthetics for Video, Broadcast and Digital Cinematography	3
MEDIA 155	Basic Sound Recording and Music Video	3
MEDIA 156	Sound Mixing and Mastering	3

Credit Hours: (0 Required)

Total Major Units: 23

Credit Hours: (0 Required)

General Education Requirements: 19

Credit Hours: (0 Required)

Electives to meet 60 15 - 18

Credit Hours: (60 Required)

Total Units: 60

Total: 60

*: Department would prefer students take MEDIA 180 for the degree.

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Laney College

Video Production for Video, Broadcast and Digital Cinematography

Overview

College	Laney - Humanities, Social Sciences
Originator	Vina Cera
Award Type	Certificate of Achievement

Description

The major in Video Production for Video, Broadcast and Digital Cinematography covers the entire range of digital video, audio and media production, from script development, hands-on, current professional 2K and 4K production equipment, current editing and other post-production effects and applications, distribution, and media business management. The program is now beginning to expand into the VR/AR and drone worlds and integrating basic networking into the department's programs. Production of creative content for video, film, sports and broadcast TV, radio, cable, web, mobile technology, and other emerging communications technologies.

Career Opportunities

Video editor, camera operator, film/video producers, video effects artists, event videographer, sports videographer, audio/visual technician, live entertainment rentals and productions, corporate video/promotions, video for web sites, training video production, infomercial production, advertising video, web shopping videos, music videos

Program Learning Outcomes

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

1. Design and create digital media projects using state-of-the-art technology and skill sets, incorporating digital video/audio, aesthetic design, interactivity, effects graphics and current distribution formats
2. Apply appropriate critical and creative problem solving skills to analyze the aesthetic and production elements of video, television and other interactive digital media
3. Practice teamwork and collaboration

Degree Requirements:

Required Courses (min 14 units) **Credit Hours:** (14 Required)

MEDIA 104	Beginning Digital Video Production	3
MEDIA 111	Basic Audio Production	3
MEDIA 125	Scriptwriting for Video, Broadcast and Digital Cinematography	3
MEDIA 129	Portfolio Development	1
MEDIA 130	Final Cut Pro I: Beginning Nonlinear Editing for Video, Broadcast and Digital Cinematography	3
MEDIA 460A	Occupational Work Experience in Media Communications	1

Select two courses from the following (min 6 units) **Credit Hours:** (6 Required)

MEDIA 070	XR Design: Virtual Reality	3
MEDIA 108	Studio Production	3
MEDIA 120	Making Documentaries	3
MEDIA 122	Music Video Production	3
MEDIA 131	Final Cut Pro II: Intermediate Nonlinear Editing for Video, Broadcast and Digital Cinematography	3
MEDIA 135	Premiere Pro 1: Nonlinear Editing for Video, Broadcast and Digital Cinematography	3
MEDIA 138	DaVinci Resolve: Video Editing	3
MEDIA 180 or	HDSLR Workflow for Digital Photography and Cinematography	3
PHOTO 180	HDSLR Workflow for Digital Photography and Cinematography *	3
MEDIA 181	Red Digital Cinema Production in 4K	3

Select one course from the following (min 3 units)		**Credit Hours:** (3 Required)
MEDIA 112	Media Freelancing and Entrepreneurship	3
MEDIA 132	Final Cut Pro III: Advanced Nonlinear Editing for Video, Broadcast, and Digital Photography	3
MEDIA 139	DaVinci Resolve: Advanced Video Editing	3
MEDIA 140	After Effects: Motion Graphics for Video, Broadcast and Digital Cinematography	3
MEDIA 150	Pro Tools: Sound Design/Aesthetics for Video, Broadcast and Digital Cinematography	3
MEDIA 155	Basic Sound Recording and Music Video	3
MEDIA 156	Sound Mixing and Mastering	3

Total: 23

*: MEDIA 180 Is preferred

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Laney College

Virtual Production

Overview

College	Laney - Humanities, Social Sciences
Originator	Koina Freeman
Award Type	Certificate of Achievement

Description

The Virtual Production certificate was created to educate students on the principles and practices of 3D Virtual Production for Film, TV and Media Production. Students will cover analysis and application of concepts of 3D design, Realtime 3D engines (RT3D), Virtual Sets, Motion Capture, Face Capture, Cinematography, Lighting, Audio, Visual Storytelling, and VFX Workflow.

Career Opportunities

COVID-19 has accelerated 3D Virtual TV and Film Production worldwide. Yet there are very few who know how to use these new virtual tools and software. As Hollywood faces mounting pressure to safely resume production and reemploy hundreds of thousands of cast and crew who've been out of work for months, studios and producers are turning to virtual production as a route to reboot TV shows and films halted by the pandemic. Many predict the health crisis will accelerate the industry's use of virtual filming to mitigate risks and reduce the costs of expensive location shoots. "It's the tip of the iceberg," Sam Nicholson (TV Producer - Stargatestudios.net) said. "People have to utilize these tools to get back on line. Once they've utilized them and realized its faster, better, cheaper, you will see a lot more virtual production coming down the pipeline." - LA Times, 28MAY20

Program Learning Outcomes

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

1. Students will be able to design and create a 3D Virtual Production Film or TV project from concept to final product.

Degree Requirements:

Core Courses (12 units) **Credit Hours:** (0 Required)

MEDIA 044A	Virtual Production I	3
MEDIA 044B	Virtual Production II	3
MEDIA 044C	Virtual Production III: Cinematography	3
MEDIA 044D	Virtual Production IV: Capstone	3

Total: 12

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Laney College

XR: Immersive Design

Overview

College	Laney - Humanities, Social Sciences
Originator	Koina Freeman
Award Type	Certificate of Achievement

Codes and Dates

State Approval Date	8/02/2018
Curriculum Committee Approval Date	3/16/2018
Board of Trustees Date	5/08/2018
Current Effective Date	1/01/2019
Program Control Number	36936
Top Code	0699.00* - Other Media and Communications

Description

The XR certificate was created to educate students on the principles of AR and VR Immersive Design for mobile, web, and Head Mounted Displays. Students will cover analysis and application of concepts of design, modeling, world building, lighting, storytelling, and programming.

Career Opportunities

Hundreds of startups and established Silicon Valley Tech companies are building and hiring for Augmented and Virtual Reality applications; from virtual limbs, self-driving cars, retail, real estate, medical, military, construction, architecture, robotics, to entertainment, and 3-D immersive training and education. In 2017 Consumers and businesses spent more than 11 billion dollars on AR/VR. That number is expected to grow to 215 billion dollars by 2021. Demand for workers trained in AR and VR are set to grow exponentially to meet those demands. - cnbc.com

Program Learning Outcomes

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

1. Students will be able to design and create an AR or VR project from concept to final product.
2. Collaborate effectively with production team.
3. Adapt professional skills to most current VR and AR technology industry standards

Degree Requirements:

Core Courses: **Credit Hours:** (19 Required)

MEDIA 070	XR Design: Virtual Reality	3
MEDIA 072	3D Modeling for AR/VR *	3
MEDIA 075	Augmented Reality	3
MEDIA 077	Virtual Cinema	3
MEDIA 080	Advanced AR/VR Unity Training	3
CIS 044	C# for Immersive Design	4

Total: 19

*: Students can substitute with MMART 191.

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