

Berkeley City College

Academic Composition Skills

Overview

College	BCC - Liberal Arts and Social Sciences
Originator	Jenny Lowood
Award Type	Certificate of Competency

Codes and Dates

State Approval Date	2/09/2017
Curriculum Committee Approval Date	11/19/2020
Current Effective Date	8/01/2021
Program Control Number	35507
Top Code	1501.00 - English

Description

This certificate ensures necessary skills in fundamentals of English composition and research for students enrolled in composition courses. Students who complete this program will have skills which will help them succeed in future courses that require essay writing.

Career Opportunities

This program is designed to ensure that students have academic skills required to be successful in their academic goals, which ultimately allows for success in career goals.

Program Learning Outcomes

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

1. Write well organized, well developed, well edited, and clear essays
-

Degree Requirements:

Select one		Noncredit: (0 Required)
ENGL 508A	Academic Composition Skills: Prewriting and Organization	17.5 - 262.5
ENGL 518A	Writing Workshop	35
Select one		Noncredit: (0 Required)
ENGL 508B	Academic Composition Skills: Paragraph Development, Analysis, & Research	17.5 - 262.5
ENGL 518B	Writing Workshop	35
Select one		Noncredit: (0 Required)
ENGL 508C	Academic Composition Skills: Sentence Structure and Proofreading	17.5 - 262.5
ENGL 518C	Writing Workshop	35
ENGL 518D	Writing Workshop	35
Total Hours		Noncredit: (0 Required)
52.5-787.5		0

Berkeley City College

English for Speakers of Other Languages: Advanced

Overview

College	BCC - Liberal Arts and Social Sciences
Originator	Gabriel Winer
Award Type	Certificate of Proficiency

Codes and Dates

Curriculum Committee Approval Date	11/19/2020
Board of Trustees Date	5/26/2020
Current Effective Date	8/01/2021
Top Code	4930.87 - English as a Second Language - Integrated

Description

The Advanced Certificate of Proficiency in ESOL verifies that a student has successfully completed a minimum of 10 units and a maximum of 15 units in one of the following patterns: 1) three ESOL core classes (Reading and Writing, Listening and Speaking, and Grammar) at the advanced level; 2) two ESOL core classes at the advanced level and any college-credit class taught in English from any other discipline. Students interested in completing this certificate should consult with the ESOL program chair and a counselor.

Career Opportunities

This certificate will help prepare students for vocational programs and job advancement.

Program Learning Outcomes

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

1. write clear and effective, well organized, well developed, well edited, and logically sound sentences, paragraphs, and essays, citing sources appropriately
 2. apply active reading strategies in order to comprehend, critically analyze, and explain ideas in texts
 3. express ideas fluently, accurately, and appropriately in spoken American English; demonstrate comprehension of and respond appropriately to spoken American English; and demonstrate knowledge of and use of American cultural conventions in oral communications
 4. use grammatical structures to accurately and effectively express ideas in English
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Degree Requirements:

Choose two or three of the following core courses (8-14 units total):	Credit Hours:	(0 Required)
ESOL 050A Advanced Listening and Speaking		4
ESOL 052 Advanced Reading and Writing		6
ESOL 274A Grammar 4		4

If you have only taken two of the above courses, you can fulfill the requirements with: (0 Required)
Any course numbered 1-249 taught in English (2-5 units)

Total Units **Credit Hours:** (10 - 15 Required)

Total: 10.000 - 15.000

Berkeley City College

English for Speakers of Other Languages: High Intermediate

Overview

College	BCC - Liberal Arts and Social Sciences
Originator	Gabriel Winer
Award Type	Certificate of Proficiency

Codes and Dates

Curriculum Committee Approval Date	4/09/2020
Board of Trustees Date	5/26/2020
Current Effective Date	1/01/2021
Top Code	4930.87 - English as a Second Language - Integrated

Description

The High Intermediate Certificate of Proficiency in ESOL verifies that a student has successfully completed a minimum of 10 units and a maximum of 15 units in one of the following patterns: 1) three ESOL core classes (Reading and Writing, Listening and Speaking, and Grammar) at the High Intermediate level; 2) two ESOL core classes at the High Intermediate level and any college-credit class taught in English from any other discipline. Students interested in completing this certificate should consult with the ESOL program chair and a counselor.

Career Opportunities

This certificate will help prepare students for vocational programs and job advancement.

Program Learning Outcomes

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

1. write clear and effective, well organized, well developed, well edited, and logically sound sentences, paragraphs, and essays, citing sources appropriately
 2. apply active reading strategies in order to comprehend, critically analyze, and explain ideas in texts
 3. express ideas fluently, accurately, and appropriately in spoken American English; demonstrate comprehension of and respond appropriately to spoken American English; and demonstrate knowledge of and use of American cultural conventions in oral communications
 4. use grammatical structures to accurately and effectively express ideas in English
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Degree Requirements:

Choose two or three of the following core courses (8-14 units total):	Credit Hours:	(0 Required)
ESOL 253 Reading and Writing 3		6
ESOL 263A Listening and Speaking 3		4
ESOL 273A Grammar 3		4

If you have only taken two of the above courses, you can fulfill the requirements with: (0 Required)
any course numbered 1-249 taught in English (2-5 units)

Total Units **Credit Hours:** (10 - 15 Required)

Total: 10.000 - 15.000

Berkeley City College

History

Overview

College	BCC - Liberal Arts and Social Sciences
Originator	Timothy Rose
Award Type	AA-T Degree

Codes and Dates

State Approval Date	6/29/2017
Curriculum Committee Approval Date	11/19/2020
Board of Trustees Date	4/25/2017
Current Effective Date	1/01/2018
Program Control Number	32292
Top Code	2205.00 - History

Description

The Associate in Arts for Transfer Degree (AA-T) in History is designed to provide students with an understanding of a diverse array of societies and how the historical process informed the content of world culture. Through the course work associated with the History AA-T, students will address questions of identity, knowledge, consciousness, intelligibility, communication, and meaning as they compass the broad disciplinary terrain of history. Students who successfully complete the AA-T in History earn specific guarantees for transfer to the CSU system: admission to a CSU with junior status and priority admission to their local CSU campus and to a program or major in History or a similar major. Students transferring to a CSU campus will be required to complete no more than 60 units after transfer to earn a bachelor's degree. Students are required to complete 60 semester units that are eligible for transfer to a California State University, including both of the following: (1) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements and (2) 18 semester units with a grade of C or P or better in the major and an overall minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework. See page XX for a more detailed description of Associate Degrees for Transfer. Students are advised to consult with a Berkeley City College counselor and/or the Social Sciences Department Chair for additional information and to verify transfer requirements.

Career Opportunities

This degree prepares students to transfer to a 4-year college or university with a History major.

Program Learning Outcomes

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

1. Demonstrate knowledge of the historical process within particular fields of history and effectively link historical cause and effect
 2. Apply historical methodology and critical thinking in order to analyze primary and secondary sources and historical arguments
 3. Interpret the diverse historical forces which have shaped the past and inform the content of the present
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Degree Requirements:

Required Courses	Credit Hours:	(0 Required)
HIST 007A History of the United States to 1877		3
HIST 007B History of the United States Since 1865		3
List A—Select 6 units from the following:	Credit Hours:	(0 Required)
HIST 002A and History of European Civilization		3
HIST 002B or History of European Civilization		3
HIST 003A and World History to 1500		3

HIST 003B Modern World History: 1500-Present 3

List B—Select 3 units from the following:

Credit Hours: (0 Required)

HIST 003A World History to 1500 3
HIST 003B Modern World History: 1500-Present 3
HIST 021 U.S. Women: A Social History 3
HIST 031 Contemporary Middle East: The Politics of Nationalism 3

List C—Select 3 units from the following:

Credit Hours: (0 Required)

HIST 019 History of California 3
ART 001 Introduction to Art History 3
ETHST 001 Introduction to Ethnic Studies 3
WS 001 Introduction to Women's Studies 3
MUSIC 015A Jazz, Blues, and Popular Music in the American Culture 3
AFRAM 033 The Roots of African-American Culture 3
ASAME 011 Introduction to Asian American and Pacific Islander Studies 3
M/LAT 033 Introduction to Chicana/o and Latina/o Studies 3

Unit Calculation

Credit Hours: (60 Required)

Total Units for the Major 18
Total Units that may be double-counted 3 - 6
General Education (CSU GE or IGETC) Units 37 - 39
Elective (CSU Transferable) Units 6 - 11
Total Degree Units 60

Total: 60

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Merritt College

Administration of Justice

Overview

College
Originator
Award Type

Merritt - Division III
Mildred Oliver
AS-T Degree

Description

The Associate in Science in Administration of Justice for Transfer (AS-T) degree program is for students who plan to transfer and complete a bachelor's degree at a California State University (CSU) or another four-year college or university. Successful completion of this degree affords students specific guarantees for admission to the CSU system with junior status to a program or major in Administration of Justice or a similar major such as Law Enforcement, Correctional Administration, Social Science, and Pre-Law.

The program is for those preparing for a career in criminal justice. It is also for those currently employed in an administration of justice agency who seek training for career advancement. A set of core courses provides knowledge of the criminal justice system and the training necessary to enter various careers in the criminal justice sector including jobs in public law enforcement agencies, municipal police, probation officers, county deputy sheriffs, correctional offices, game wardens, state parks, and private security.

To qualify for the Associate in Arts in Administration of Justice for Transfer (AS-T) degree, students are required to complete the following Major course and General Education requirements:

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

See the *Transfer Information* section of this catalog for more information on AS-T requirements and CSU GE-Breadth or IGETC.

Career Opportunities

The program prepares students for positions such as police officer, deputy sheriff, state or federal patrol and investigative officer, correctional aide, security specialist, community service officer, police cadet, and reserve officer, as well as manager and supervisor in these individual fields. Placement may depend on job availability and the successful completion of an entrance examination.

Program Learning Outcomes

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

1. Demonstrate an understanding and ability to analyze crime, policies, procedures, and the people that shape the justice system.

2. Bridge policies and procedures with practical knowledge and apply that knowledge to prospective careers in the criminal justice sector.
3. Demonstrate the critical thinking skills necessary to effectively evaluate problems in the criminal justice system and provide solutions to these problems nationally and locally.
4. Create and contribute to an environment conducive and accepting of in-depth analysis and critique of social policy and social justice issues as it relates to socioeconomic status, race, gender, ethnicity, and culture.

Degree Requirements:

Degree Major Requirements

Credit Hours:

Core (6 units)

Credit Hours: (0 Required)

ADJUS 021	and	Introduction to Administration of Justice	3
ADJUS 022	and	Concepts of Criminal Law	3

List A: Select a minimum of 6 units from the following courses:

Credit Hours: (6 Required)

ADJUS 024		Legal Aspects of Evidence	3
ADJUS 025		Community Relations	3
ADJUS 026		Introduction to Forensic Investigation	3
ADJUS 051		Juvenile Law and Procedures	3
ADJUS 056		Criminal Investigation	3
ADJUS 063		Introduction to Corrections	3

List B: Two Courses (min. 6 units)

Credit Hours: (6 - 7 Required)

MATH 013		Introduction to Statistics	4
PSYCH 001A		Introduction to General Psychology	3
SOC 001		Introduction to Sociology	3

Total Units for the Major 18 -19

Credit Hours:

Total Units that may be double-counted : 12

Credit Hours:

General Education (CSU-GE or IGETC) Units: 39 - 37

Credit Hours:

Elective (CSU Transferable) Units: 9 - 11

Credit Hours:

Total Degree Units (maximum): 60

Credit Hours:

Total: 18.000 - 19.000

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College of Alameda

African-American Studies

Overview

College	COA - Liberal Studies and Language Arts
Originator	Jody Campbell
Award Type	A.A. Degree

Description

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

The discipline of African American Studies at the College Of Alameda will give you a deep appreciation and understanding of the impact that people of African descent have had on the ancient and modern worlds. You will draw from multiple academic disciplines, including history, sociology, communication, literature, art, dance, anthropology, and political science. Through these academic lenses you will gain a broader understanding of the African diasporic experience in the U.S. and beyond as you will critically analyze the struggles, triumphs, and rich traditions both past and present. You will learn from instructors who are active in the community and their areas of academic specialization. Students in African American Studies at the College of Alameda can elect to study in Africa during the summer session through our study abroad program to Accra Ghana. Future study abroad opportunities within the African diaspora will include Mexico, Cuba, Haiti, Jamaica, and Brazil.

Career Opportunities

African American studies graduates from the College Of Alameda are prepared to work in many situations requiring appreciation of cultural diversity, gender equity, and social awareness. Recent graduates have gone on to peruse four year degrees at Cal, Davis, UCLA, Howard, SFSU, and other major colleges throughout the country and abroad. Other COA scholars have elected to peruse professional careers in, politics, social service programs, counseling services, nonprofits, and other community based organizations.

Program Learning Outcomes

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

1. Students will learn about the rich history and vast contributions that African Americans have made to the U.S. and beyond.
 2. Students will study the multidimensions of the African diaspora throughout the world by analyzing the various arts, sciences, literatures, political movements, and national identities.
 3. Students will be exposed to the African/African American struggle for social justice and equality throughout the diaspora.
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Degree Requirements:

Major Requirements (18 units)		Credit Hours: (18 Required)
AFRAM 030	African American History: Africa to 1865	3
AFRAM 031	African American History: 1865-1945	3
AFRAM 032	African American History: 1945 to Present	3
AFRAM 018	African Heritage of Latin America	3
SOC 005	Minority Groups	3
AFRAM 005	The African American Family in the United States	3

Elective Choices: 3 or more units from the following recommended GE courses Credit Hours: (9 Required)

AFRAM 008	African American Politics	3
AFRAM 014A	Social Psychology of African American Male/Female Relationships	3
PSYCH 018	Psychology of Race and Ethnicity in the U.S.	3
ENGL 031	Survey of African-American Literature	3

Total: 30

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College of Alameda

Associate Of Arts In Anthropology For Transfer Degree

Overview

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

Codes and Dates

State Approval Date	2/11/2019
Curriculum Committee Approval Date	4/17/2018
Board of Trustees Date	6/12/2018
Current Effective Date	8/01/2019
Program Control Number	37416
Top Code	2202.00 - Anthropology

Description

The Anthropology Program at College of Alameda offers students the opportunity to study humankind from biological, historic, prehistoric and cultural perspectives. Anthropology introduces students to ways to investigate and understand humanity in ways that are personally enriching and have practical application in their lives. Courses include the evolution of human biological structures, including human genetic variation, cultural aspects of past and present societies around the world and the impact of cultural ideal on human behavior and biology.

The Anthropology Associate of Arts Degree for Transfer Degree (AA-T) is designed to meet the lower division requirements for Anthropology majors at CSU, UC and other four-year baccalaureate degree programs. Students in the Anthropology AA-T program at College of Alameda are expected to complete a minimum of 18 semester units in the major with a grade of "C" or higher, while maintaining an overall GPA average of at least 2.0 in all CSU/UC transferable coursework. Students are required to complete a total of 60 semester CSU/UC transferable units (including Anthropology major units) using the California State University General Education Breadth pattern (CSU-GE Breadth) or the Intersegmental General Education Transfer Curriculum (IGETC) in order to transfer to university with junior status. Students are strongly advised to consult with a College of Alameda counselor and the Anthropology Department chair early and often for additional information and to verify transfer requirements.

Career Opportunities:

A Bachelor's degree (BA) in Anthropology is a gateway for people who want to work in international business, non-profit corporations, social and community service, criminal justice, museum studies, urban planning, travel industries and health care professions. With additional degrees (graduate work), rewarding careers in higher education, research, cultural resource management and government are available.

Career Opportunities

A Bachelor's degree (BA) in Anthropology is a gateway for people who want to work in international business, non-profit corporations, social and community service, criminal justice, museum studies, urban planning, travel industries and health care professions. With additional degrees (graduate work), rewarding careers in higher education, research, cultural resource management and government are available.

Program Learning Outcomes

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

1. Explain core concepts of Anthropology, including biological, socio-cultural and archaeological aspects of the discipline.
2. Demonstrate an understanding of the scientific methods (skills) used by contemporary anthropologists.
3. Apply holistic perspective to discuss appreciation for the genetic and cultural diversity of humans in the past and present, around the world.

Degree Requirements:

Required Courses (3 courses or 9 units)	Credit Hours: (9 Required)
ANTHR 001 Introduction to Physical Anthropology	3
ANTHR 002 Introduction to Archaeology and Prehistory	3
ANTHR 003 Introduction to Social and Cultural Anthropology	3

List A Select 3-4 units (1-2 courses) from the following:		Credit Hours: (3 - 4 Required)
ANTHR 001L	Physical Anthropology Laboratory	1
MATH 013	Introduction to Statistics	4
SOCSC 125	Statistics for the Social Sciences	3

List B: Select 1-2 courses (3-5 units) from the following (including any Credit Hours selected previously) from List A)		Credit Hours: (3-4 Required)
SOC 120 or	Introduction to Research Methods	3
GEOG 014 or	Introduction to Geographic Information Systems	4
BIOL 024 or	Basic Human Anatomy and Physiology	4
GEOL 001 or	Introduction to Physical Geology	4

List C: Select at least 1 course (3-4 units) from the following elective courses (including any Courses) not selected previously for credit		Credit Hours: (3-4 Required)
ANTHR 007	Magic, Religion, and Witchcraft	3
ANTHR 019	Anthropology of Sex and Gender	3
ANTHR 021	Introduction to Forensic Anthropology	3
COMM 005	Persuasion and Critical Thinking	3
GEOG 002	Cultural Geography	3
KIN 033	Aerobics	1

Total Units Required for the Major **Credit Hours:**
19-20

IGETC or CSU GE-Breadth Education pattern and elective courses **Credit Hours:**
41-40 units

Total Units required for Anthropology AA-T Degree **Credit Hours:**
60 units

Total: 18.000 - 22.000

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Merritt College

Communication Studies

Overview

College	Merritt - Division I
Originator	Hilary Altman
Award Type	AA-T Degree

Codes and Dates

Curriculum Committee Approval Date	11/12/2020
Current Effective Date	8/01/2021
Program Control Number	31076
Top Code	1506.00 - Speech Communication

Description

Communication skills are essential to forming and maintaining personal relationships, acquiring and excelling in a job, and relating to the world around us. Through the study and practice of interpersonal, professional, and intercultural communication skills, students will learn how their perceptions and self-esteem affect their interactions with others. Beyond this, students will improve their abilities to speak, write, and present information effectively, whether in face-to-face interactions or in public or mass-media settings. The Communication program prepares students to transfer to a four-year college or university to obtain a degree in Communication or a related Social Science field. The courses in the program also improve job attainment and performance skills, providing students with the training necessary for public speaking, customer service, conflict resolution, and interviewing. Students who complete the AA-T degree requirements in Communication will learn and practice cultural awareness, situation analyses, and goal-oriented solutions to practical problems, giving them valuable assets in their future relationships and workplaces. Lastly, this course of study improves students' logic and reasoning skills, thus providing the foundation for understanding math and science, the world around them, and the skills and insights necessary to think through ethical issues and achieve their goals. The AA-T degree in Communication will be awarded upon satisfactory completion of the Major course requirements and the General Education requirements.

The Associate in Arts in Communication Studies for Transfer will be awarded upon satisfactory completion of the Major course requirements and the General Education requirements which are as follows:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following: A. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirements.
- B. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.
3. It should be noted that title 5 section 55063(a) also requires that students must earn a C or better in all courses required for the major or area of emphasis.

Career Opportunities

Customer Service Representative Salesperson Nonprofit Organizer Consultant Focus Group Facilitator Interviewer Human Resource Representative Negotiator Startup job in mass media organization

Program Learning Outcomes

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

1. Cultural Competency- Interact with people of different cultures in ways that result in shared understanding
2. Critical Listening and Thinking- Speak, listen, and think critically, to set goals for effective communication, resolve conflict, and get your message across

3. Public Speaking- Deliver presentations that are clear in message and voice, using appropriate nonverbal communication.
4. Relationship between Mass Media and Face-to-Face Communication- Analyze the impact and influence that mass media and mediated communication have on face-to-face interactions
5. Group Cohesion- Strengthen group cohesion through shared vision creation and development
6. Self-Awareness and Ethics- Know how your own upbringing and cultural background affects your perceptions of yourself and others and integrate ethics in your everyday communication interactions

Degree Requirements:

List A Required 3 Courses (9 units)

Credit Hours: (9 Required)

COMM 020	Interpersonal Communication Skills	3
COMM 004	Dynamics of Group Discussion	3
COMM 045	Public Speaking	3

List B Any 2 Courses (6 units)

Credit Hours: (6 Required)

COMM 019	Survey of Mass Media	3
COMM 003	Introduction to Human Communication	3
COMM 006	Intercultural Communication	3

List C Any 1 Course (3 units)

Credit Hours: (3 Required)

ANTHR 003	Introduction to Social and Cultural Anthropology	3
ENGL 005	Critical Thinking in Reading and Writing	3
SOC 001	Introduction to Sociology	3
COMM 010	Gender and Communication	3
PSYCH 001A	Introduction to General Psychology	3

Total Units for the Major: 18

Credit Hours:

Total Units that may be double-counted: 9 - 12

Credit Hours:

General Education (CSU-GE or IGETC) UNITS: 39 - 37

Credit Hours:

Elective (CSU Transferable) Units: 12 - 14

Credit Hours:

Total Degree Units: 60

Credit Hours:

Total: 18

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Merritt College

Computer Project Management

Overview

College
Originator
Award Type

Merritt - Division II
Courtney Brown
Certificate of Achievement

Codes and Dates

Curriculum Committee Approval Date
Top Code

9/10/2020
0702.00* - Computer Information Systems

Description

The Computer Project Management Certificate of Achievement Program is a workforce program providing instruction in the application of Software Engineering skills to Business projects that use Computers for process improvement or innovation. It includes training in both principles of management and software engineering to support successful completion of these projects. It also equips the non-technical project manager to manage software projects enabling them to compete for project management positions in the software development work force.

Specifically, students will learn use of the software engineering process and application of skills, tools, and techniques to manage project activities; enumeration of project goals as sequences of tasks with clearly defined beginning, end, scope, and resources; analysis of project goals to create a prioritized task list that will lead to successful completion; analysis of budget and human resources to develop a utilization plan; and communication of progress, status, and milestones. Skills applicable to any kind of project are supplemented by instruction in software engineering to support one of the prevalent project management needs of the local Silicon Valley and Bay Area workforce. These enable the design of integrated software systems to efficiently fulfill business processes and needs.

To qualify for the Computer Project Management Certificate of Achievement Program, students must complete 14-15 units of required core courses with the option to complete 2 units (120-150 hours) of Occupational Work Experience (OWE) in Project Management. This OWE qualifies them to take the Certified Associate Project Manager (CAPM) examination from the governing body Project Management Institute.

Career Opportunities

• Computer and Information Systems Managers (SOC 11-3021): Excludes "Computer Occupations" (15-1111 through 15-1199). • Computer Systems Analysts (SOC 15-1121): • Information Security Analysts (SOC 15-1122): Excludes "Computer Network Architects" (15-1143).

Program Learning Outcomes

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

1. Manage activities with defined beginning and end in time, defined scope and resources accomplish a singular goal.
 2. Coordinate a project team to deliver the on-time, on-budget results.
 3. Prioritize activities and communicate results, milestones, and deadlines.
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Degree Requirements:

Required Program Courses	Credit Hours: (14 - 15 Required)
BUS 050 and Principles of Management	3
CIS 001 or Introduction to Computer Information Systems	4
CIS 005 and Introduction to Computer Science	5
CIS 051 and Introduction to Information Technology Project Management	4
CS 080 Software Engineering	3

Restricted Electives	Credit Hours: (0 - 5 Required)
<i>Select 0 - 5 units from the courses below.</i>	
CIS 469 Occupational Work Experience in Security Administration	2
BUS 083 Introduction to Digital Marketing	3

Optional Occupational Work Experience	Credit Hours: (0 Required)
<i>Students who select COPED 469 from the list of electives below are able to provide evidence of applicable work experience on their college transcript. The student must secure 150 hours of paid work, or 120 hours of unpaid work in project management.</i>	

Total: 14.000 - 20.000

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Merritt College

Conservation and Resource Management

Overview

College	Merritt - Division II
Originator	Bradley Balukjian
Award Type	Certificate of Achievement

Codes and Dates

Curriculum Committee Approval Date	11/12/2020
Current Effective Date	8/01/2021
Program Control Number	38648
Top Code	0115.00* - Natural Resources

Description

The Conservation and Resource Management Certificate of Achievement offers students a practical approach to ecological management practices. Students learn basic concepts of environmental science, are prepared for more specialized coursework, and establish minimum qualifications for entry-level employment.

Students in the Conservation and Resource Management program will:

- Build a solid foundation in the principles of ecology, and then learn to apply them to solve environmental problems.
 - Focus on habitat restoration, natural resource conservation and management, water quality and watershed analysis, outdoor education, urban planning, and vegetation surveys.
 - Participate in field trips and field-based courses to sites around the Bay Area.
 - Prepare for the following careers: Environmental educator, environmental consultant, habitat restoration technician, watershed analyst, parks maintenance technician, ranger, naturalist, ecologist.
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Career Opportunities

Career opportunities may include: Biological scientists and technicians, conservation scientists and technicians, environmental science and protection technicians, environmental scientists and specialists, fish and game wardens, forest and conservation technicians and workers, foresters, geographers, hydrologists, museum conservators and technicians, natural science managers, soil and plant scientists, and zoologists and wildlife biologists.

Program Learning Outcomes

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

1. Articulate the history of the conservation movement in the U.S. (with particular emphasis on California) and put the current state of natural resource management in its proper historical context.
 2. Explain basic principles of ecology and how these principles are used in management and stewardship of natural spaces.
 3. Demonstrate an understanding of how parks and other public natural spaces operate and function.
 4. Demonstrate practical field skills used in the management and stewardship of natural resources.
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Degree Requirements:

Major Core Courses		Credit Hours: (25 Required)
BIOL 015	Environmental Biology	3
COPED 476F	Occupational Work Experience in Environmental Management and Technology	3
ENVMT 001	Environmental Careers	1

ENVMT 002	Introduction to Sustainable Environmental Systems	3
ENVMT 002L	Introduction to Sustainable Environmental Systems Lab	1
ENVMT 055	Principles of Conservation and Land Management	3
ENVMT 056	Management of Public Parks and Natural Resources	3
ENVMT 057	Park Operations Practices and Skills	4
GEOL 021	Bay Area Field Studies	1
ENVMT 012 or	Environmental Racism and Justice	3
AFRAM 038	Environmental Racism and Justice	3

Major Elective Courses**Credit Hours:** (2 Required)*Select one course for a minimum of two (2) units from the following:*

ENVMT 008	Introduction to Outdoor Education	3
ENVMT 011	Sustainable Urban and Regional Planning	3
ENVMT 014	Environmental Impact Reports	2
ENVMT 040	From Tree to Sea: A Bay Area Environmental Cross-Section	3
ENVMT 044	Introduction to Creek and Watershed Restoration: General Aspects	3
LANHT 081	Arborist Equipment Fundamentals	2

Interdisciplinary Elective Courses**Credit Hours:** (2 Required)*Select any combination of courses for a a minimum of two (2) units from the following:*

ART 166	Beginning Botanical Drawing	2
BIOL 009	Marine Biology	4
BIOL 029	Introduction to Biodiversity	4
BIOL 060A	Natural History of the Bay Area: The Local Parks	0.5
BIOL 060B	Natural History of the Bay Area: Mt. Diablo State Park	1
BIOL 060C	Natural History of the Bay Area: Herpetology	2
BIOL 061E	Natural History of the Tide Pools of the Greater Bay Area	0.5
BIOL 061H	Natural History of the Bay Area: Butterflies and Moths	2
BIOL 061I	Natural History of the Bay Area: Bryophytes	2
BIOL 061K	Natural History of the Bay Area: Lichens	2
BIOL 062S	Natural History of the Islands of California	2
BIOL 080A	Raptors of Central California and the Bay Area	0.5
BIOL 080B	Bird Singing: The Ecology of Bird Songs and Identification by Ear	0.5
BIOL 080C	Fundamentals of Ornithology and Birding in Central California/Bay Area	0.5
GEOG 001	Physical Geography	3
GEOL 001	Introduction to Physical Geology	4
GEOL 012	Environmental Geology	3
LANHT 002	Plant Materials: Tree ID and Culture with Lab (Day)	3
LANHT 002E	Plant Materials: Tree ID and Culture (Evening)	3
LANHT 005A	Plant Materials: Fall Native Plant ID and Culture with Lab (Day)	3
LANHT 005B	Plant Materials: Spring Native Plant ID and Culture with Lab (Day)	3
LANHT 005EA	Plant Materials: Fall Native Plant ID and Culture (Evening)	3
LANHT 005EB	Plant Materials: Spring Native Plant ID and Culture (Evening)	3
LANHT 010	Insect Pests	3

LANHT 016	Soil Management	3
LANHT 023	Plant Terminology	2.5
LANHT 045A	Mushroom Cultivation I	2
LANHT 050	Plant Taxonomy	3
NATAM 076E	California Indian Ecology on the Central Coast	1.5
LANHT 053	Alpines Lab	1

Total: 29

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Laney College

Culinary Arts and Restaurant Management

Overview

College	Laney - Career and Technical Education
Originator	Chantal Martin
Award Type	A.S. Degree

Codes and Dates

State Approval Date	8/06/2018
Program Control Number	36939
Top Code	1307.10* - Restaurant and Food Services and Management

Description

Is food your art? Do you love the sound and smell of sizzling food? Do you enjoy "nourishing" people with the recipes you create? Deep down, do you secretly feel you could be the next Top Chef? If you answered yes to any of these questions, the Restaurant Management program could be the place for you!

The major in Restaurant Management offers technical trade theory and practical laboratory experiences in restaurant management and cooking procedures that prepare students for entry into the numerous and diverse job classifications of this exciting and growing industry. Students have the opportunity to demonstrate their talents and capabilities in the operations and supervision of the food preparation facilities at Laney College. With classes in safety, leadership, math, nutrition, and operational efficiency, the Restaurant Management AS Degree and Certificate of Achievement integrate the techniques and knowledge needed for success in this dynamic industry.

Note: This program includes frequent application of fractions, decimals, and percentages. The department recommends, if needed, to take an introductory Mathematics course to assist with these concepts

Career Opportunities

Cook, Station Cook (Line, Grill, Short-Order, etc . . .), Sous Chef, Chef de Cuisine, Private or Personal Chef, Caterer, Food Sales/Buyer, Food Writer, Recipe Tester, Food Truck Owner, Food Product Developer, Restaurateur, Independent Business Owner/Consultant, Food & Beverage Manager, Teacher.

Program Learning Outcomes

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

1. Apply the concepts and techniques of food safety, sanitation, personal hygiene, and professionalism in food handling, preparation, proper service techniques, and dining room management including the use of commercial equipment and tools.
 2. Use classical cooking terminology and demonstrate station organization.
 3. Apply procedures in order to run a cost effective food service establishment, including: menu analysis, labor cost, and human resource practices to manage restaurant staff.
-

Degree Requirements:

First Semester (8 units):

CULIN 234 or Introduction to Cooking Techniques *

Credit Hours: (0 Required)

5

CULIN 212	Introduction to Culinary Arts	5
CULIN 214	Hospitality Careers and Skills Development	1
CULIN 215	Culinary Math Fundamentals	1
CULIN 217	Recipes, Formulas, and Food Costs	1

Second Semester (7 units):**Credit Hours:** (0 Required)

CULIN 033	Managing Food Sanitation	1
CULIN 223	Stocks, Soups and Sauces	1
CULIN 224	Principles of Heat Cooking	1
CULIN 227	Thermodynamic Cooking Techniques	4

Third Semester (11 units):**Credit Hours:** (0 Required)

CULIN 031	Garde Manger and Contemporary American Bistro Cooking	7
CULIN 053	Culinary Nutrition	3
CULIN 232	Dining Room Service and Management	1

Fourth Semester (13 units):**Credit Hours:** (0 Required)

CULIN 041	International Cuisine	7
CULIN 050	Principles of Food, Beverage, and Labor Controls	3
CULIN 051	Supervision in the Hospitality Industry	3

Credit Hours: (0 Required)

Total Major Units: 39

Recommended but not required**Credit Hours:** (0 Required)

CULIN 203 or	Introduction to Baking Foundations	4
CULIN 204	Baking Fundamentals	4

Credit Hours: (0 Required)

General Education Requirement: 19

Credit Hours: (0 Required)

Electives to meet 60 units:

Credit Hours: (60 Required)

Total Units: 60

Total: 60

*: * Course only offered during the summer session.

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Laney College

Culinary Arts and Restaurant Management

Overview

College	Laney - Career and Technical Education
Originator	Chantal Martin
Award Type	Certificate of Achievement

Codes and Dates

State Approval Date	8/06/2018
Program Control Number	36938
Top Code	1307.10* - Restaurant and Food Services and Management

Description

Is food your art? Do you love the sound and smell of sizzling food? Do you enjoy "nourishing" people with the recipes you create? Deep down, do you secretly feel you could be the next Top Chef? If you answered yes to any of these questions, the Restaurant Management program could be the place for you!

The major in Restaurant Management offers technical trade theory and practical laboratory experiences in restaurant management and cooking procedures that prepare students for entry into the numerous and diverse job classifications of this exciting and growing industry. Students have the opportunity to demonstrate their talents and capabilities in the operations and supervision of the food preparation facilities at Laney College. With classes in safety, leadership, math, nutrition, and operational efficiency, the Restaurant Management AS Degree and Certificate of Achievement integrate the techniques and knowledge needed for success in this dynamic industry.

Note: This program includes frequent application of fractions, decimals, and percentages. The department recommends, if needed, to take an introductory Mathematics course to assist with these concepts

Career Opportunities

Cook, Station Cook (Line, Grill, Short-Order, etc . . .), Sous Chef, Chef de Cuisine, Private or Personal Chef, Caterer, Food Sales/Buyer, Food Writer, Recipe Tester, Food Truck Owner, Food Product Developer, Restaurateur, Independent Business Owner/Consultant, Food & Beverage Manager, Teacher.

Program Learning Outcomes

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

1. Apply the concepts and techniques of food safety, sanitation, personal hygiene, and professionalism in food handling, preparation, proper service techniques, and dining room management including the use of commercial equipment and tools
 2. Synthesize classical cooking terminology and station organization.
 3. Apply the procedures in order to run a cost effective food service establishment, including: menu analysis, labor cost, and human resource practices to manage restaurant staff.
-

Degree Requirements:

First Semester (8 units):		Credit Hours:	(0 Required)
CULIN 234 or	Introduction to Cooking Techniques *		5
CULIN 212	Introduction to Culinary Arts		5
CULIN 214	Hospitality Careers and Skills Development		1

CULIN 215	Culinary Math Fundamentals	1
CULIN 217	Recipes, Formulas, and Food Costs	1
Second Semester (7 units):		Credit Hours: (0 Required)
CULIN 033	Managing Food Sanitation	1
CULIN 223	Stocks, Soups and Sauces	1
CULIN 224	Principles of Heat Cooking	1
CULIN 227	Thermodynamic Cooking Techniques	4
Third Semester (11 units):		Credit Hours: (0 Required)
CULIN 031	Garde Manger and Contemporary American Bistro Cooking	7
CULIN 053	Culinary Nutrition	3
CULIN 232	Dining Room Service and Management	1
Fourth Semester (13 units):		Credit Hours: (0 Required)
CULIN 041	International Cuisine	7
CULIN 050	Principles of Food, Beverage, and Labor Controls	3
CULIN 051	Supervision in the Hospitality Industry	3
Recommended but not required:		Credit Hours: (0 Required)
CULIN 203 or	Introduction to Baking Foundations	4
CULIN 204	Baking Fundamentals	4
		Credit Hours: (39 Required)
Total Major Units		39
		Total: 39

*: Course only offered during the summer session.

College of Alameda

Data Analytics

Overview

College
Originator
Award Type

COA - Science, Technology, Engineering, Art, and Mathematics
Jesse L. Norman
Certificate of Proficiency

Description

The Data Analytics Certificate of Proficiency includes proficiency in MS Office applications, basic computer programming skills, database management system fundamentals, SQL, PL/SQL, Business Intelligence (BI) tools such as Tableau, general understanding of Geographical Information Systems and statistical software, R.

Career Opportunities

According to a study published by Broadening Advanced Technological Education Connections (BATECH), in 2014, there were 700,000 online job postings for occupations supporting Big Data. 130,030 of those job postings were related to data analytics and related positions. Although the majority of the job postings require a bachelor's or higher degree, massive demands exist for associate degrees or certificate holders with data analytics skills. This program will prepare students for entry level jobs advertised as data analysts and domain analysts in various industries.

Program Learning Outcomes

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

1. Design and write computer programs to generate descriptive statistics and explore data with graphs
 2. Demonstrate the ability manage unstructured and structured data and design of large scale database systems.
-

Degree Requirements:

Required Core	Credit Hours:	(0 Required)
CIS 121 and Introduction to Statistical Software Programming	3	3
CIS 122 and Data Analysis Using Statistical Software	3	3
CIS 123 Introduction to Big Data and Analytics	3	3
Electives	Credit Hours:	
	Total: 9	

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College of Alameda

Diesel Mechanics

Overview

College	COA - Career and Workforce Education
Originator	John Taylor
Award Type	Certificate of Achievement

Codes and Dates

Board of Trustees Date	6/12/2018
Program Control Number	19827
Top Code	0947.00* - Diesel Technology

Description

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

Helpful Qualities for Success in the Program

- Proficiency in basic math, reading, communication and personal computers.
- Experience in High School auto shop.
- Self-discipline, Mechanical aptitude, and ability.
- Good physical condition and coordination.
- Commitment to continuing education in advancing technologies.

Registered students will receive a list of required basic tools for classes to prepare them to enter the trade, adequately prepared upon graduating.

Previous description:

The Diesel Mechanics program in heavy duty truck and diesel mechanics prepares students to enter the job market as beginning mechanics or apprentices in this field, and allows students to continue their education toward the Baccalaureate degree in advanced schools of technology or as teachers in this field of specialization, or to broaden their skills in areas of management. Instruction includes the use of hand and power tools, elementary through advanced principles of diesel engines theory and operation; maintenance and repair of automotive and marine-type diesel engines and auxiliary equipment; and use of testing equipment.

Upon registering for a class in Diesel Mechanics, the student will receive a list of required basic tools. In addition, the student will be expected to provide tools that relate to the particular course in which he/she has enrolled. The purpose of this requirement is to assure that students graduating from the program possess tools in sufficient quantity to enter the trade adequately prepared.

A Certificate of Achievement in Diesel Mechanics will be awarded upon satisfactory completion of the major course requirements listed below.

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

Career Opportunities

The Diesel Mechanics program in heavy duty truck and diesel mechanics prepares students to enter the job market as beginning mechanics or apprentices in this field.

Program Learning Outcomes

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

1. Apply safe work habits and practices.
2. Troubleshoot and perform repairs in mechanical, electrical, and electronic systems.
3. Use computers to diagnose equipment and research information.
4. Perform preventative maintenance and inspections including engine tune-ups, front-end alignments, and brake service.
5. Operate shop machinery and equipment including hoists, overhead cranes, forklifts, hydraulic jacks, steam cleaners, floor jacks, disassembly stands, grinders, drill presses, hydraulic presses, and bead blasters.
6. Select and use precision tools such as torque wrenches, micrometers, dial indicators, tap and dies, and bore gauges.
7. Maintain professional attitude in challenging working conditions, develop self-confidence and pride in workmanship and think analytically and make professional decisions.

Degree Requirements:

FIRST SEMESTER		Credit Hours: (10 Required)
<i>Degree Major/Certificate Requirements</i>		
DMECH 011	Heavy-Duty Truck Chassis, Transmission, and Drive Axles	4
DMECH 020A	Truck Mechanics I	6
SECOND SEMESTER		Credit Hours: (12 Required)
DMECH 012	Heavy-Duty Truck's Electrical System and Brake System	4
DMECH 020B	Truck Mechanics II	6
AUTOB 012	Service Welding for Transportation Technology	2
THIRD SEMESTER		Credit Hours: (14 Required)
DMECH 014	DIESEL ENGINES	4
DMECH 021A	DIESEL ENGINES I	6
A TECH 023	Automotive Air Conditioning	4
FOURTH SEMESTER		Credit Hours: (10 Required)
DMECH 015	DIESEL ENGINES II	4
DMECH 021B	DIESEL ENGINES II	6
<i>Recommended:</i>		
<i>Students may wish to take additional courses from the following, in consultation with a counselor:</i>		
<i>Dmech 20C, Truck Mechanics III (4)</i>		
<i>Dmech 20D, Truck Mechanics IV (4)</i>		
<i>Dmech 21C, Diesel Engines Lecture/Laboratory (6)</i>		
<i>Dmech 21D, Diesel Engines Lecture/Laboratory (6)</i>		

Total: 46

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College of Alameda

Diesel Mechanics

Overview

College
Originator
Award Type

COA - Career and Workforce Education
John Taylor
A.S. Degree

Description

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

Helpful Qualities for Success in the Program

- Proficiency in basic math, reading, communication and personal computers.
- Experience in High School auto shop.
- Self-discipline, Mechanical aptitude, and ability.
- Good physical condition and coordination.
- Commitment to continuing education in advancing technologies.

Registered students will receive a list of required basic tools for classes to prepare them to enter the trade, adequately prepared upon graduating.

Previous description:

The Diesel Mechanics program in heavy duty truck and diesel mechanics prepares students to enter the job market as beginning mechanics or apprentices in this field, and allows students to continue their education toward the Baccalaureate degree in advanced schools of technology or as teachers in this field of specialization, or to broaden their skills in areas of management. Instruction includes the use of hand and power tools, elementary through advanced principles of diesel engines theory and operation; maintenance and repair of automotive and marine-type diesel engines and auxiliary equipment; and use of testing equipment.

Upon registering for a class in Diesel Mechanics, the student will receive a list of required basic tools. In addition, the student will be expected to provide tools that relate to the particular course in which he/she has enrolled. The purpose of this requirement is to assure that students graduating from the program possess tools in sufficient quantity to enter the trade adequately prepared.

A Certificate of Achievement in Diesel Mechanics will be awarded upon satisfactory completion of the major course requirements listed below.

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

Career Opportunities

The Diesel Mechanics program in heavy duty truck and diesel mechanics prepares students to enter the job market as beginning mechanics or apprentices in this field.

Program Learning Outcomes

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

1. Apply safe work habits and practices.
2. Troubleshoot and perform repairs in mechanical, electrical, and electronic systems.
3. Use computers to diagnose equipment and research information.

4. Perform preventative maintenance and inspections including engine tune-ups, front-end alignments, and brake service.
5. Operate shop machinery and equipment including hoists, overhead cranes, forklifts, hydraulic jacks, steam cleaners, floor jacks, disassembly stands, grinders, drill presses, hydraulic presses, and bead blasters.
6. Select and use precision tools such as torque wrenches, micrometers, dial indicators, tap and dies, and bore gauges.
7. Maintain professional attitude in challenging working conditions, develop self-confidence and pride in workmanship and think analytically and make professional decisions.

Degree Requirements:

FIRST SEMESTER

Credit Hours: (10 Required)

Degree Major/Certificate Requirements:

DMECH 011	Heavy-Duty Truck Chassis, Transmission, and Drive Axles	4
DMECH 020A	Truck Mechanics I	6

SECOND SEMESTER

Credit Hours: (12 Required)

DMECH 012	Heavy-Duty Truck's Electrical System and Brake System	4
DMECH 020B	Truck Mechanics II	6
AUTOB 012	Service Welding for Transportation Technology	2

THIRD SEMESTER

Credit Hours: (14 Required)

DMECH 014	DIESEL ENGINES	4
DMECH 021A	DIESEL ENGINES I	6
ATECH 023	Automotive Air Conditioning	4

FOURTH SEMESTER

Credit Hours: (10 Required)

DMECH 015	DIESEL ENGINES II	4
DMECH 021B	DIESEL ENGINES II	6

Recommended:

Students may wish to take additional courses from the following, in consultation with a counselor:

Dmech 20C, Truck Mechanics III (4)

Dmech 20D, Truck Mechanics IV (4)

Dmech 21C, Diesel Engines Lecture/Laboratory (6)

Dmech 21D, Diesel Engines Lecture/Laboratory (6)

Total: 46

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Merritt College

Digital Marketing

Overview

College
Originator
Award Type

Merritt - Division II
Carrie Maultsby
Certificate of Achievement

Description

The Digital Marketing Certificate of Achievement prepares students with the knowledge, skills, and attributes necessary for obtaining work in the fields of marketing that is applicable to the public, private, and non profit sector. This certificate program will enable students to integrate foundational marketing concepts with practical technical skills, which ensures they gain real-world applied knowledge to be truly job-ready. It aims to develop the student's understanding of marketing and provide a framework for students to think about concepts such as segmentation, targeting, value propositions, and metrics. Students will be assessed throughout the course through exercises on the topics. This program can be completed within one year, culminating in a Certificate of Achievement in addition to a co-branded Facebook certification.

Career Opportunities

Completion of this certificate will provide students with the coursework they need to work in entry-level digital marketing positions such as digital marketing coordinator, online community manager, email marketing coordinator, content marketing coordinator, or social media assistant, marketing analyst.

Program Learning Outcomes

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

1. Demonstrate job readiness by using industry-standard marketing tools such as: Facebook Ads Manager, Google Analytics, Google Ads, Google Sheets, Google Slides, and Mailchimp.
2. Demonstrate job readiness by creating a comprehensive digital marketing plan using core frameworks, analyzing A/B test results and Google Analytics report data, executing an original ad for Facebook and Google Search and Display, and developing an email marketing campaign using Mailchimp.

Degree Requirements:

Program Requirements

Credit Hours: (16 Required)

Major Core Courses

BUS 074	Introduction to Advertising	3
BUS 083	Introduction to Digital Marketing	3
BUS 090	Content Marketing and Branding	3
BUS 092 or	Digital Advertising: Search and Display	3
BUS 094 and	Email Marketing	3
BUS 096	Marketing Analytics and Performance Optimization	4

One Year Course Sequence

Credit Hours: (0 Required)

Year 1 First Semester

BUS 083	Introduction to Digital Marketing	3
BUS 090	Content Marketing and Branding	3

Credit Hours: (0 Required)

Year 1 Second Semester

BUS 074	Introduction to Advertising	3
BUS 092 or	Digital Advertising: Search and Display	3
BUS 094 and	Email Marketing	3
BUS 096	Marketing Analytics and Performance Optimization	4

Total: 22

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Laney College

Digital Newsgathering

Overview

College	Laney - Liberal Arts
Originator	Eleni Gastis
Award Type	Certificate of Achievement

Description

The Certificate of Achievement in Digital Newsgathering provides foundational knowledge and hands-on training that prepares students for jobs in the media realm. The certificate serves as a comprehensive and multi-discipline overview of content and skills needed by the modern journalist.

Career Opportunities

reporting, copywriting, public relations, communication, screenwriting, social media, brand management.

Program Learning Outcomes

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

1. Assemble a portfolio of appropriate photographs, writings, journals or digital media that reflects the skills and understanding of techniques of journalism.
 2. Write news, features, and opinion pieces in newspaper style.
 3. Apply media law, fact-checking and ethics to the journalistic process.
-

Degree Requirements:

Core Courses (9 units):	Credit Hours:	(6 Required)
JOURN 033 Smartphone Reporting		3
JOURN 021 Newswriting		3
JOURN 069 Multimedia Reporting for Journalists		3
	Total:	9

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Laney College

ESOL Advanced

Overview

College	Laney - Liberal Arts
Originator	Amanda Price
Award Type	Certificate of Competency

Description

The ESOL Advanced Certificate of Competency verifies that a student has successfully completed three ESOL core classes (Reading and Writing, Listening and Speaking, and Grammar) at the advanced level. Students interested in completing this certificate should consult with the ESOL department chair and a counselor.

Career Opportunities

This certificate will help prepare students for vocational programs and job advancement.

Program Learning Outcomes

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

1. Demonstrate intermediate skills in English listening, speaking, reading, and/or writing which will allow them to achieve their personal, vocational, and academic goals.
-

Degree Requirements:

Courses (min 172 hours)

Noncredit: (245 Required)

Students must complete a minimum of 172 class hours

ESOL 550	Advanced Listening and Speaking	70
ESOL 552	Advanced Reading and Writing	105
ESOL 574	Grammar 4	70

Competency Requirement

Noncredit:

Teacher or department will determine if student has met the competencies of the program and document it.

Total: 245

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Laney College

ESOL Advanced Reading and Writing

Overview

College
Originator
Award Type

Laney - Liberal Arts
Anne Agard
Certificate of Competency

Description

The Advanced ESOL Reading and Writing-CP1 Certificate of Competency verifies that multilingual students have gained critical academic skills to support their successful completion of college transfer English composition courses, other coursework and career goals.

Career Opportunities

This program is designed to ensure that students have academic skills required to be successful in their academic goals, which ultimately allows for success in career goals.

Program Learning Outcomes

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

1. Independently utilize reading strategies to critically integrate ideas into own writing.
 2. Identify and revise for own problem areas in writing.
 3. Locate and appropriately cite information from print and electronic sources— from libraries, the Internet, databases, and elsewhere—evaluate its relevance and reliability, and incorporate it effectively into essays.
-

Degree Requirements:

Students must complete a minimum of 110 hours.

Noncredit: (52.5 - 157.5 Required)

ESOL 559A and	Advanced Reading and Writing Workshop: Developing Critical Reading, Writing and Thinking Skills	26.25
ESOL 559B and	Advanced Reading and Writing Workshop: Applying Reading, Writing and Critical Thinking Skills	26.25
ESOL 552 or	Advanced Reading and Writing	105
ESOL 559C and	Advanced Reading and Writing Workshop: Strengthening Critical Reading, Writing and Thinking Skills	26.25
ESOL 559D and	Advanced Reading and Writing Workshop: Consolidating Critical Reading, Writing, and Thinking Skills	26.25

Competency Requirement:

Noncredit: (0 Required)

Teacher or department will determine whether student has met the competencies for the program and document it.

Total: 52.500 - 157.500

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Laney College

ESOL Intermediate Reading and Writing

Overview

College	Laney - Liberal Arts
Originator	Anne Agard
Award Type	Certificate of Competency

Description

The Intermediate ESOL-CP1 Certificate of Competency verifies that multilingual students have gained critical academic skills to prepare for successful completion of college level coursework and career goals.

Career Opportunities

This program is designed to ensure that students have academic skills required to be successful in their academic goals, which ultimately allows for success in career goals.

Program Learning Outcomes

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

1. Independently utilize reading strategies to critically integrate ideas into own writing.
 2. Construct clear, effective, well-organized, well-developed, well-edited, and logically sound sentences, paragraphs and essays with appropriate citation of sources, satisfying intermediate ESOL standards.
-

Degree Requirements:

Students must complete a minimum of 125 hours.		Noncredit: (157.5 Required)
ESOL 512 and	Reading and Writing 2	105
ESOL 557A and	Intermediate Reading & Writing Workshop: Developing Critical Reading, Writing and Thinking Skills	20.25
ESOL 557B or	Intermediate Reading & Writing Workshop: Expanding Critical Reading, Writing and Thinking Skills	20.25
ESOL 513 and	Reading and Writing 3	105
ESOL 557C and	Intermediate Reading & Writing Workshop: Strengthening Critical Reading, Writing and Thinking Skills	20.25
ESOL 557D	Intermediate Reading & Writing Workshop: Consolidating Critical Reading, Writing and Thinking Skills	20.25
		Total: 157.5

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College of Alameda

Gospel Music Performance

Overview

College	COA - Science, Technology, Engineering, Art, and Mathematics
Originator	Silvester Henderson
Award Type	Certificate of Achievement

Description

The Inaugural “**Gospel Music Performance Certificate of Achievement**” is an academic and career-oriented program of study for those creative musicians and students looking to develop their skills in the performance of African American Gospel Music. This program of study prepares students for professional careers and employment in various types of Faith-Based Communities. Also, students will experience professional instruction, performance opportunities, and an equity-focused urban music curriculum. College of Alameda music program enjoys access to local and nationally noted African American Gospel and Faith-Based Artists and Performers.

Career Opportunities

Whether you are interested in directing, performing or being behind the scenes, there are multiple career opportunities available to students and community members who earn a Certificate of Achievement in Gospel Music Performance at College of Alameda, including Performer, Music Programs Administrator, Choirmaster, Community Music Educator, Music Production Supervisor, Marketing Manager, Accompanist, Composer and many other creative endeavors.

Program Learning Outcomes

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

1. Demonstrate the technical skills, musicianship, and understanding of repertory as solo and/or as ensemble performers
 2. Comprehend the organizational patterns and common elements of music and apply this understanding to aural, verbal, and visual analyses
 3. Create original or derivative music at an appropriate level for this certificate
 4. Integrate the range of musical knowledge and skills learned over the course of study
-

Degree Requirements:

Core Requirement A: 4 courses as follows (8 units)		Credit Hours: (8 Required)
MUSIC 001A	Musicianship	3
MUSIC 015A	JAZZ, BLUES AND POPULAR MUSIC IN THE AMERICAN CULTURE	3
MUSIC 117	Voice I	1
MUSIC 130	Elementary Piano Method I	1
Core Requirement B: Complete at least two semesters of MUSIC 025 (4 units)		Credit Hours: (4 Required)
MUSIC 025	College Choir	2
Select a minimum of 6 units from the following courses:		Credit Hours: (20 Required)
MUSIC 118	Voice II	1

MUSIC 119	Voice III	1
MUSIC 120	Voice IV	1
MUSIC 028	Small Ensemble Improvisation / Jazz Theory	2
MUSIC 131	Elementary Piano Method II	1
MUSIC 132	Elementary Piano Method III	1
MUSIC 133	Elementary Piano Method IV	1
MUSIC 009	Introduction to World Music	3
MUSIC 010	Music Appreciation	3
MUSIC 001B	Musicianship	3
MUSIC 015B	JAZZ, BLUES AND POPULAR MUSIC IN THE AMERICAN CULTURE	3

Total: 32

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Laney College

Jazz

Overview

College	Laney - Liberal Arts
Originator	John Reager
Award Type	A.A. Degree

Description

The Jazz Associate in Arts Degree recognizes mastery of Jazz essential. Students will examine basic Jazz theory, performance techniques, improvisation skills, and Jazz History; Chord Voicings, Alphabet System, evolution of styles from Blues and Ragtime to the present; ensemble playing techniques including: blending, tone production, chart reading, and solo improvisation. After completing this program, students will be able to play concerts, compose music, participate in recording sessions, or continue with their studies towards a baccalaureate degree.

Career Opportunities

Performer, recording artist, arranger, composer, music teacher, promoter, arts management, arts administration, music critic, music consultant.

Program Learning Outcomes

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

1. Identify, construct, and play elements of Jazz Theory including: Chord construction, proper use of Alphabet Chord Symbols, use of Medieval church modes, diminished scales, whole tone scales, Lydian dominants, Blues scales, and melodic minor modes.
2. Jazz History: Successful students will identify, explain, and analyze concepts from the history of Jazz.
3. Performance: Successful students will synthesize their knowledge of style (Jazz history), theory (use of correct modes and chord voicings), and other improvisation techniques into live public performances.

Degree Requirements:

Group 1: Jazz History - (6 units):	Credit Hours:	(0 Required)
MUSIC 015A and Jazz, Blues and Popular Music in the American Culture		3
MUSIC 015B Jazz, Blues, and Popular Music in the American Culture		3
Group 2: Jazz Piano - Select a minimum of two units from the following (2 units):	Credit Hours:	(0 Required)
<i>May include repeatable courses for a total of 2 units</i>		
MUSIC 138 Jazz Piano I		1
MUSIC 139 Jazz Piano II		1
MUSIC 140 Jazz Piano III		1
MUSIC 141 Jazz Piano IV		1
MUSIC 150 Applied Music		1
Group 3: Jazz Ensemble Performance - Select a minimum of 4 units from the following (4 units):	Credit Hours:	(0 Required)
<i>May include repeatable courses for a total of 4 units</i>		
MUSIC 126 Jazz Orchestra		1
MUSIC 127 Jazz Combos		1
MUSIC 129 Jazz Orchestra Repertoire		1

MUSIC 144	Intermediate Jazz Combos	1
MUSIC 145	Advanced Jazz Combos	1
MUSIC 151	Pop Music Ensemble	1

GROUP 4: Music Theory - (12 units):**Credit Hours:** (0 Required)

MUSIC 101	Music Theory and Culture I	3
MUSIC 102	Music Theory and Culture II	3
MUSIC 103	Music Theory and Culture III	3
MUSIC 104	Music Theory and Culture IV	3

GROUP 5: Musicianship (Music Skills)- (4 units):**Credit Hours:** (0 Required)

MUSIC 121	Music Skills I	1
MUSIC 122	Music Skills II	1
MUSIC 123	Music Skills III	1
MUSIC 124	Music Skills IV	1

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

28

Credit Hours: (0 Required)*General Education Requirements:*

19

Credit Hours:*Electives to Meet 60 Units:***Total Units:**

60

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

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College of Alameda

Jazz Studies/Popular Music Performance

Overview

College	COA - Science, Technology, Engineering, Art, and Mathematics
Originator	Glen Pearson
Award Type	Certificate of Achievement

Description

The Jazz Studies/Popular Music Performance Certificate of Achievement provides experience and exposure to key components of Jazz and popular commercial music performance, allowing the combining of student desires for enhanced artistic expression with practical skills; the overall aim is equipping students with the aptitude and skill set necessary for the pursuit of employment opportunities within the music/entertainment industry.

Career Opportunities

Whether you are interested in directing, performing or being behind the scenes, there are multiple career opportunities available to students and community members who earn a Certificate of Achievement in Jazz Studies/Popular Music Performance at College of Alameda, including Performer, Music Programs Administrator, Community Music Educator, Music Production Supervisor, Marketing Manager, Jazz Ensemble Director, Accompanist, Composer and many other creative endeavors.

Program Learning Outcomes

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

1. Demonstrate the technical skills, musicianship, and understanding of repertory as solo and/or as ensemble performers
 2. Comprehend the organizational patterns and common elements of music and apply this understanding to aural, verbal, and visual analyses
 3. Create original or derivative music at an appropriate level for this certificate
 4. Integrate the range of musical knowledge and skills learned over the course of study
-

Degree Requirements:

Core Requirement A: 4 courses as follows (8 units)		Credit Hours: (8 Required)
MUSIC 001A	Musicianship	3
MUSIC 015A	JAZZ, BLUES AND POPULAR MUSIC IN THE AMERICAN CULTURE	3
MUSIC 130	Elementary Piano Method I	1
MUSIC 117	Voice I	1
Core Requirement B: Complete at least two semesters of MUSIC 028 (4 units)		Credit Hours: (4 Required)
MUSIC 028	Small Ensemble Improvisation / Jazz Theory	2
Select a minimum of 8 units from the following courses:		Credit Hours: (20 Required)
MUSIC 131	Elementary Piano Method II	1
MUSIC 132	Elementary Piano Method III	1
MUSIC 133	Elementary Piano Method IV	1
MUSIC 025	College Choir	2
MUSIC 118	Voice II	1

MUSIC 119	Voice III	1
MUSIC 120	Voice IV	1
MUSIC 009	Introduction to World Music	3
MUSIC 010	Music Appreciation	3
MUSIC 001B	Musicianship	3
MUSIC 015B	JAZZ, BLUES AND POPULAR MUSIC IN THE AMERICAN CULTURE	3

Total: 32

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Laney College

Journalism

Overview

College	Laney - Liberal Arts
Originator	Eleni Gastis
Award Type	A.A. Degree

Codes and Dates

State Approval Date	4/15/2016
Program Control Number	01150
Top Code	0602.00* - Journalism

Description

The Journalism Department offers practical newspaper experience and academic preparation for students preparing to transfer to four-year institutions. Emphasis is placed on new technologies and preparation for media jobs in a computer-oriented society. Additional areas of study include journalism history, ethics, law, and the role of the press in our society.

Career Opportunities

Students who complete the Journalism program are prepared for careers in the expanding communications field, which includes print, online and video journalism, along with computer production skills.

Program Learning Outcomes

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

1. Assemble a portfolio of appropriate photographs, writings, journals or digital media that reflects the skills and understanding of techniques of journalism.
2. Write news, features, and opinion pieces in newspaper style.
3. Apply media law, fact-checking and ethics to the journalistic process.

Degree Requirements:

Core Curriculum (24 units):	Credit Hours:	(0 Required)
JOURN 018A News Production I		4
JOURN 018B News Production II		4
JOURN 018C News Production III		4
JOURN 021 Newswriting		3
JOURN 062 or Survey of Mass Media		3
COMM 019 Survey of Mass Media		3
COMM 045 Public Speaking		3
GRART 032 Digital Documents (Adobe InDesign)		3
Electives: Select one class from the following (3 units):	Credit Hours:	(0 Required)
JOURN 069 or Multimedia Reporting for Journalists		3
JOURN 033 Smartphone Reporting		3
MEDIA 102A Broadcast Journalism I		3
M/SVN 082 Essentials of Managerial Communications		3

JOURN 020 or	Photojournalism I	3
PHOTO 020	Photojournalism I	3

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

General Education Requirements: **Credit Hours:** (0 Required) 19

Elective courses to meet 60 **Credit Hours:** (0 Required)

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

Total: 60

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Laney College

Associate In Arts Degree For Transfer In Journalism

Overview

College	Laney - Liberal Arts
Originator	Eleni Gastis
Award Type	AA-T Degree

Codes and Dates

State Approval Date	3/27/2015
Program Control Number	33179
Top Code	0602.00* - Journalism

Description

The Associate in Arts in Journalism for Transfer Degree (AA-T JOURN) is designed to prepare students for a seamless transfer with junior status and priority admission to their CSU campus to a program or major in Journalism or similar major for completion of a baccalaureate degree.

Students are required to complete:

- Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - (A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
 - (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtainment of a minimum grade point average of 2.0. Students must earn a C or better in all courses required for the major or area of emphasis.
- No more than 60 semester units are required.

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

Career Opportunities

Students who complete the degree seek jobs in the vast, and changing, field of communications. They become reporters, photographers, copy editors, computer production staff, webmasters as well as jobs in public relations.

Program Learning Outcomes

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

1. Assemble a portfolio of appropriate photographs, writings, journals or digital media requiring skills and understanding of techniques of journalism.
 2. Write news, features, and opinion pieces in newspaper style.
 3. Apply media law, fact-checking and ethics to the journalistic process.
-

Degree Requirements:

Core Courses (10 units):

JOURN 018A News Production I

Credit Hours: (0 Required)

4

JOURN 021	Newswriting	3
JOURN 062 or	Survey of Mass Media	3
COMM 019	Survey of Mass Media	3

LIST A: Select one of the following (3-4 units):**Credit Hours:** (0 Required)

JOURN 018B	News Production II	4
PHOTO 020 or	Photojournalism I	3
JOURN 020	Photojournalism I	3
JOURN 069	Multimedia Reporting for Journalists	3

LIST B: Select two of the following (min 6 units):**Credit Hours:** (0 Required)

COMM 044	Argumentation	3
ENGL 005	Critical Thinking in Reading and Writing	3
PHIL 010	Logic	3
POSCI 001	Government and Politics in the United States	3

Credit Hours: (0 Required)

Total Major Units: 19 - 20

Credit Hours: (0 Required)

IGETC or CSU GE-Breadth Education pattern 37 - 39

Credit Hours: (0 Required)

CSU Transferrable General Elective Courses to meet 60 units

Credit Hours: (60 Required)

Total Units: 60

Total: 60

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College of Alameda

Making with Hand Tools

Overview

College
Originator
Award Type

COA - Science, Technology, Engineering, Art, and Mathematics
Jayne Smithson
Certificate of Completion

Description

The Making with Hand Tools Certificate demonstrates that an individual has completed three areas of instruction in working with hand tools: safety, project design, and project completion. Making with Hand Tools is intended to support individuals in completing course work, expressing creativity, exploring entrepreneurship, and extending employment skills.

A student completing this program will have a grounding in the safe use of hand tools, design equipment, and preliminary manufacturing in the Maker environment to develop and complete a project, have a deeper understanding of team work and peer instruction, and gain additional skills that can be useful in transferring to a university and advancing in jobs in any field requiring the use of hand tools, communication, and critical thinking.

Career Opportunities

Entry level skills for any career that requires the safe use of hand tools in the design and completion of projects. The program suits entry-level workers in any of the industries in the Manufacturing Sector as defined by the U.S. Bureau of Labor Statistics, and the skill set spans all listed sub-sectors (<https://www.bls.gov/iag/tgs/iag31-33.htm>).

Program Learning Outcomes

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

1. Safely use hand tools to design and complete a project.
-

Degree Requirements:

Required Courses

Noncredit: (6.3 - 21 Required)

MAKR 520A and Hand Tools - Introduction and Safety	2.1
MAKR 520B and Hand Tools - Design and Testing	2.1 - 6.3
MAKR 520C and Hand Tools - Production	2.1 - 12.6

Total: 6.300 - 21.000

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Laney College

Mathematics

Overview

College	Laney - Mathematics and Sciences
Originator	David Ross
Award Type	A.S. Degree

Codes and Dates

State Approval Date	7/04/2016
Curriculum Committee Approval Date	12/04/2015
Board of Trustees Date	3/22/2016
Current Effective Date	8/22/2016
Program Control Number	35111
Top Code	1701.00 - Mathematics, General

Description

This associate degree is designed for students who complete the first two years of college math. It differs from our transfer degree in the IGETC or CSU Breadth Requirements. Students interested in this degree should consult with a counselor and the chair of the Mathematics Department. The degree will be awarded upon completion of the major course requirements listed below and the General Education requirements for the Associate in Science Degree.

Career Opportunities

Scientists, researchers, mathematics teachers, actuaries, and in general workers in fields that require mathematical knowledge together with a scientific, computing, or business background.

Program Learning Outcomes

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

1. Application Problems: Students should be able to read word problems, identify the type of problem, synthesize relevant information, create a mathematical relationship (equation) to determine unknown quantities and solve to determine the answer to the question posed.
2. Solving Problems Algebraically: Students should be able to use algebraic manipulation to find solutions to problems/equations both with and without a calculator.
3. Graphs: Students should be able to analyze, create and solve problems using graphs.

Degree Requirements:

Degree Major Requirements:	Credit Hours: (15 Required)
MATH 003A Calculus I	5
MATH 003B Calculus II	5
MATH 003C Calculus III	5

Select one from the following: <i>(if you choose both, other courses are optional):</i>	Credit Hours: (3 Required)
MATH 003E or Linear Algebra	3
MATH 003F Differential Equations	3

Select one course from the following <i>if necessary to complete at least 21 units for the major:</i>	Credit Hours: (3 - 4 Required)
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MATH 013 or	Introduction to Statistics	4
MATH 011	Discrete Mathematics	4

Total Major Units 21-22**Credit Hours:****General Education Requirements: 19 units****Credit Hours:** (19 Required)**Electives****Credit Hours:** (20 Required)**Total: 60.000 - 61.000**

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Merritt College

Natural History and Resources

Overview

College	Merritt - Division II
Originator	Bradley Balukjian
Award Type	Certificate of Achievement

Codes and Dates

Curriculum Committee Approval Date	11/12/2020
Current Effective Date	8/01/2021
Program Control Number	38649
Top Code	0115.00* - Natural Resources

Description

The Natural History and Resources Certificate of Achievement educates students on the biodiversity of the Bay Area and beyond and how that biodiversity interacts with humans in different ecosystems and scales. Coursework provides a foundation on local flora, fauna, and geology, as well as an ecosystem-driven approach to explore natural resources such as water, forests, and ecosystem services. Graduates of the program can expect to be prepared for entry-level employment in the field of natural resources and the environment.

Students in the Natural History and Resources program will:

- Discover the vast diversity of animals, plants, fungi, and microscopic organisms through courses in botany, ornithology, entomology, herpetology, and more.
 - Learn the principles of biogeography and the interplay between biology and geology.
 - Participate in field trips and field courses around the Bay Area and beyond.
 - Prepare for the following careers: Environmental educator, environmental consultant, habitat restoration technician, parks maintenance technician, ranger, biologist, curatorial assistant, or collections manager.
-

Career Opportunities

Career opportunities may include: Biological scientists and technicians, conservation scientists and technicians, environmental science and protection technicians, environmental scientists and specialists, fish and game wardens, forest and conservation technicians and workers, foresters, geographers, hydrologists, museum conservators and technicians, natural science managers, soil and plant scientists, and zoologists and wildlife biologists.

Program Learning Outcomes

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

1. Provide an overview of the form and function of local biodiversity (flora and fauna) and understand the ecological roles of these organisms.
 2. Demonstrate an understanding of the various ecosystems and natural resources in the Bay Area and their importance.
 3. Demonstrate practical skills, such as species identification, field documentation, and environmental impact report preparation, used by professionals in the field.
-

Degree Requirements:

Major Core Courses		Credit Hours:	(15 Required)
BIOL 029	Introduction to Biodiversity		4
ENVMT 001	Environmental Careers		1

ENVMT 002	Introduction to Sustainable Environmental Systems	3
ENVMT 002L	Introduction to Sustainable Environmental Systems Lab	1
GEOG 001	Physical Geography	3
ENVMT 012 or	Environmental Racism and Justice	3
AFRAM 038	Environmental Racism and Justice	3

Major Elective Courses**Credit Hours:** (9 Required)*Select any combination of courses for a minimum of nine (9) units from the following:*

ART 166	Beginning Botanical Drawing	2
BIOL 009	Marine Biology	4
BIOL 015	Environmental Biology	3
BIOL 060A	Natural History of the Bay Area: The Local Parks	0.5
BIOL 060B	Natural History of the Bay Area: Mt. Diablo State Park	1
BIOL 060C	Natural History of the Bay Area: Herpetology	2
BIOL 061E	Natural History of the Tide Pools of the Greater Bay Area	0.5
BIOL 061H	Natural History of the Bay Area: Butterflies and Moths	2
BIOL 061I	Natural History of the Bay Area: Bryophytes	2
BIOL 061K	Natural History of the Bay Area: Lichens	2
BIOL 062S	Natural History of the Islands of California	2
BIOL 080A	Raptors of Central California and the Bay Area	0.5
BIOL 080B	Bird Singing: The Ecology of Bird Songs and Identification by Ear	0.5
BIOL 080C	Fundamentals of Ornithology and Birding in Central California/Bay Area	0.5
GEOLOGY 001	Introduction to Physical Geology	4
GEOLOGY 012	Environmental Geology	3
LANHT 002	Plant Materials: Tree ID and Culture with Lab (Day)	3
LANHT 002E	Plant Materials: Tree ID and Culture (Evening)	3
LANHT 005A	Plant Materials: Fall Native Plant ID and Culture with Lab (Day)	3
LANHT 005B	Plant Materials: Spring Native Plant ID and Culture with Lab (Day)	3
LANHT 005EA	Plant Materials: Fall Native Plant ID and Culture (Evening)	3
LANHT 005EB	Plant Materials: Spring Native Plant ID and Culture (Evening)	3
LANHT 010	Insect Pests	3
LANHT 016	Soil Management	3
LANHT 023	Plant Terminology	2.5
LANHT 050	Plant Taxonomy	3
NATAM 076E	California Indian Ecology on the Central Coast	1.5

Interdisciplinary Elective Courses**Credit Hours:** (2 Required)*Select any combination of courses for a minimum of two (2) units from the following:*

BIOL 015	Environmental Biology	3
COPED 476F	Occupational Work Experience in Environmental Management and Technology	3
ENVMT 005	Oakland Food Culture	3
ENVMT 008	Introduction to Outdoor Education	3
ENVMT 014	Environmental Impact Reports	2
ENVMT 035	Introduction to Urban Agroecology	3

ENVMT 040	From Tree to Sea: A Bay Area Environmental Cross-Section	3
ENVMT 044	Introduction to Creek and Watershed Restoration: General Aspects	3
ENVMT 055	Principles of Conservation and Land Management	3
ENVMT 056	Management of Public Parks and Natural Resources	3
ENVMT 057	Park Operations Practices and Skills	4
GEOLOGY 021	Bay Area Field Studies	1 - 2
LANHT 045A	Mushroom Cultivation I	2
LANHT 081	Arborist Equipment Fundamentals	2
ENVMT 011	Sustainable Urban and Regional Planning	3

Total: 26

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Laney College

Transfer Program Readiness for Multilingual Students

Overview

College	Laney - Liberal Arts
Originator	Anne Agard
Award Type	Certificate of Achievement

Description

The Transfer Program Readiness Certificate of Achievement verifies that multilingual students have demonstrated readiness to succeed in in a four-year college transfer program.

Career Opportunities

This program is designed to ensure that students have academic skills required to be successful in their academic goals, which ultimately allows for success in career goals. This program also provides international students with evidence of advanced English proficiency, a qualification that opens many career opportunities when they return to their native countries.

Program Learning Outcomes

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

1. Develop individual perspectives in essays that demonstrate critical thinking skills, command of standard grammar, and logical organization.
 2. Locate and appropriately cite information from print and electronic sources--from libraries, the internet, databases and elsewhere; evaluate its relevance and reliability; and incorporate it effectively into essays.
 3. Function as a productive member of a college class by cooperating in interactive learning.
-

Degree Requirements:

Complete the following courses (17 units):	Credit Hours:	(3 - 7 Required)
ESOL 052 and Advanced Reading and Writing		6
ESOL 050A and Advanced Listening and Speaking		4
ENGL 001A and Composition and Reading		4
COUN 024 or College Success		3
COUN 030 or Personal Growth and Development		3
COUN 057 Career and Life Planning		3

Total: 3.000 - 7.000

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Merritt College

Urban Agroecology

Overview

College	Merritt - Division II
Originator	Bradley Balukjian
Award Type	Certificate of Achievement

Codes and Dates

Curriculum Committee Approval Date	11/12/2020
Current Effective Date	8/01/2021
Program Control Number	38650
Top Code	0199.00* - Other Agriculture and Natural Resources

Description

The Urban Agroecology Certificate of Achievement trains students in the skills and practices of urban agriculture, focusing on ecologically restorative food production, project planning, and small-scale enterprise development. Graduates of the program will be prepared for entry-level employment in the local urban agriculture industry or non-profit organizations.

Students in the Urban Agroecology program will:

- Learn the principles of sustainable farming and food systems in the urban environment.
- Plan and design home, school, and community gardens and farms.
- Find out about food production, food access in under-served communities, and public health implications of food distribution.
- Get hands-on training to work for the following: Small-scale farm enterprises, non-profit organizations relating to food and public health, food policy organizations.

Career Opportunities

Career opportunities may include: Agriculture and food science technicians; farming, fishing, and forestry supervisors; food scientists and technologists; greenhouse and nursery workers; and farm workers and laborers.

Program Learning Outcomes

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

1. Contribute to the development of locally-owned enterprises based in the production, processing, distribution, and sale of fresh foods.
2. Develop and implement groundbreaking techniques for carrying out sustainable agriculture in conjunction with ecosystem restoration.
3. Serve as educators in their own communities, inspiring and enabling others to contribute to our cities' health and sustainability through personal choices.
4. Increase social equity by increasing employment, management, and ownership opportunities for the East Bay's most economically vulnerable residents.

Degree Requirements:

Major Core Courses		Credit Hours:	(18 Required)
ENVMT 001	Environmental Careers		1
ENVMT 002	Introduction to Sustainable Environmental Systems		3
ENVMT 002L	Introduction to Sustainable Environmental Systems Lab		1
ENVMT 003	Social Issues in Agriculture		3

ENVMT 005	Oakland Food Culture	3
ENVMT 035	Introduction to Urban Agroecology	3
ENVMT 035L	Urban Agroecology Lab	1
ENVMT 012 or	Environmental Racism and Justice	3
AFRAM 038	Environmental Racism and Justice	3

Major Elective Courses**Credit Hours:** (5 Required)*Select any combination of courses for a minimum of five (5) units from the following:*

ENVMT 016	Introduction to Healthy Community Systems	3
LANHT 028A	Permaculture Design I	3
LANHT 045A	Mushroom Cultivation I	2
LANHT 076	Edible Landscaping	3
LANHT 077	Crop Production, Marketing and Sales	1.5
NUTR 031	Food-Production Systems	3

Interdisciplinary Elective Courses**Credit Hours:** (2 Required)*Select any combination of courses for a minimum of two (2) units from the following:*

BIOL 015	Environmental Biology	3
BIOL 029	Introduction to Biodiversity	4
BIOL 060C	Natural History of the Bay Area: Herpetology	2
BIOL 061H	Natural History of the Bay Area: Butterflies and Moths	2
COPED 476F	Occupational Work Experience in Environmental Management and Technology	3
ENVMT 008	Introduction to Outdoor Education	3
ENVMT 011	Sustainable Urban and Regional Planning	3
ENVMT 014	Environmental Impact Reports	2
ENVMT 040	From Tree to Sea: A Bay Area Environmental Cross-Section	3
ENVMT 044	Introduction to Creek and Watershed Restoration: General Aspects	3
ENVMT 055	Principles of Conservation and Land Management	3
ENVMT 056	Management of Public Parks and Natural Resources	3
ENVMT 057	Park Operations Practices and Skills	4
GEOG 001	Physical Geography	3
GEOL 021	Bay Area Field Studies	1
LANHT 002	Plant Materials: Tree ID and Culture with Lab (Day)	3
LANHT 002E	Plant Materials: Tree ID and Culture (Evening)	3
LANHT 005A	Plant Materials: Fall Native Plant ID and Culture with Lab (Day)	3
LANHT 005B	Plant Materials: Spring Native Plant ID and Culture with Lab (Day)	3
LANHT 005EA	Plant Materials: Fall Native Plant ID and Culture (Evening)	3
LANHT 005EB	Plant Materials: Spring Native Plant ID and Culture (Evening)	3
LANHT 010	Insect Pests	3
LANHT 016	Soil Management	3
LANHT 023	Plant Terminology	2.5
LANHT 045A	Mushroom Cultivation I	2
LANHT 050	Plant Taxonomy	3
LANHT 081	Arborist Equipment Fundamentals	2

NATAM 076E

California Indian Ecology on the Central Coast

1.5

Total: 25

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College of Alameda

Violence Prevention

Overview

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

Description

Exploration of leadership, prevention, and intervention knowledge and skills relative to the field of violence prevention and local community peace building; classroom and field based learning through peer group and individual projects, community based action research, and internships; curriculum contextualized to student career goals; designed for college ready individuals who are interested in working in the field of violence prevention and community building; completion of two 3 unit courses in addition to 2-4 units of internship and/or employment experience in the field. The program includes training in conflict resolution and mediation, self-care, theories, and methods for social change as well as coaching through professional development areas identified through a SWOT (Strengths, Weaknesses, Opportunities and Threats) analysis completed every semester.

Career Opportunities

For individuals interested in careers and leadership opportunities in the field of violence prevention. Bloomberg Business, Idealist.org and Cal Jobs (State of California) all show an increasing need for skilled employees that have the knowledge and skills to navigate through systems and communities to prevent violence. A variety of positions can be acquired by someone with a Certificate in Violence Prevention Strategies. According to the labor market data for the State of California, there is a 6.9% projected increase for Child, Family and School Social Workers, an 11.8% increase for Clergy members, a 13% increase among Counselors, Social Workers and other Specialists. Some other potential careers that see an increase, that we also know are directly related to preventing violence in our communities are Health Educators, with a projected 16% increase and Police and Sheriff Patrol Officers at a 7.7% increase. This certificate program will help prepare individuals in the job market to meet the growing needs of social support and care giving that professions listed above provide.

Program Learning Outcomes

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

1. Demonstrate the skills of critical evaluation and application of these ideas (of violence prevention) in various contexts, which you'll have learned about – and in your role in building healthy community.
2. Demonstrate a working knowledge of the theory (an overall working knowledge of historical background and foundational principles) and practice of the field of violence prevention and healthy community
3. Articulate how to effectively apply these principles and skills in violence prevention and healthy community building in your own life as professionals and as people living in your own community.

Degree Requirements:

Required Courses:	Credit Hours:	(8 - 10 Required)
POSCI 035 and Introduction to Community Violence Prevention		3
POSCI 036 and Applied Peacebuilding and Violence Prevention		3
POSCI 451 and Occupational Work Experience In Politics and Public Affairs		2 - 4

*** Students must have a minimum of two units of COPED to meet the requirements of this certificate; they may register for up to four units; stu**

Total: 8.000 - 10.000

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Berkeley City College

School Readiness Teacher

Overview

College	BCC - Liberal Arts and Social Sciences
Originator	Jenny Lowood
Award Type	Certificate of Achievement

Codes and Dates

Curriculum Committee Approval Date	10/15/2020
Current Effective Date	8/01/2021
Top Code	0899.00* - Other Education

Description

The School Readiness Teacher Certificate of Achievement Program is a 24-unit certificate designed for students who plan to pursue a career as a public school teacher. This program is designed for students interested in teaching early primary aged children. This program also prepares students to qualify for the California Child Development Permit, which authorizes work in the instruction of children in before-school, after-school, and other school age or publicly funded programs.

Career Opportunities

Students who complete this program will be eligible to work in preschool settings as teachers or resource and referral counselors; in elementary school settings as before-school, after-school teachers, and instructional assistants or paraprofessional educators, or in transitional kindergartens, K-3 as aides or special education aides.

Program Learning Outcomes

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

1. Integrate understanding of the needs, the characteristics and multiple influences on development of children birth to age eight as related to high quality care and education of young children.
2. Design, implement and evaluate environments and activities that support positive, developmental play and learning outcomes for all children.
3. Apply effective guidance and interaction strategies that support all children's social learning, identity and self-confidence.
4. Develop strategies that promote partnerships between programs, teachers, families and their communities.
5. Apply ethical standards and professional behaviors that demonstrate understanding of the needs, the characteristics and multiple influences on the development of children birth to age eight as related to high quality care and education of early primary aged children.

Degree Requirements:

Course Requirements

Credit Hours: (24 Required)

Course Requirements

CHDEV 051 and	Child Growth and Development	3
EDUC 002 and	Child, Family, Community, and Schools	3
EDUC 003 and	Introduction to Curriculum	3
EDUC 004 and	Principles and Practices of Teaching Early Childhood and Early Primary Children	3
EDUC 005 and	Observation, Assessment and Documentation Tools, Methods, and Strategies	3

EDUC 006 and	Health, Safety and Nutrition	3
EDUC 007 and	Teaching in a Diverse Society	3
EDUC 008	Practicum in Early Childhood and Early Primary Education	3

Total: 24

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