

Berkeley City College

Biology

Overview

College	BCC - Business/STEM/Media Art
Originator	Pieter de Haan
Award Type	AS-T Degree

Codes and Dates

State Approval Date	7/01/2016
Curriculum Committee Approval Date	4/16/2015
Board of Trustees Date	1/01/2016
Current Effective Date	8/01/2022
Program Control Number	35109
Top Code	0401.00 - Biology, General

Description

The Associate of Science Degree for Transfer (AS-T) in Biology is designed for students who plan to transfer to CSU as biology majors. In this program, they gain exposure to the five main topics of biology (cell, molecular, organismal biology, evolution and ecology).

Students who successfully complete the AS-T in Biology 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 biology 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 the following: (1) The Intersegmental General Education Transfer Curriculum (IGETC for STEM) Breadth Requirements (31 units) and (2) 39 semester units with a grade of C or better in the major or area of emphasis and an overall minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework. For a more detailed description of Associate Degrees for Transfer, see "Associate Degrees for Transfer (ADT) to a California State University" on page XX.

Students are advised to consult with a Berkeley City College counselor for additional information and to verify transfer requirements.

Career Opportunities

This program provides a sequential course of study that prepares students for transfer to four-year institutions with a Biology major or acquisition of Biology proficiency necessary for career fields that emphasize the value of familiarity with biology. This program prepares students to entry level biological lab positions.

Program Learning Outcomes

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

1. Demonstrate skills in the scientific methods used in the biological sciences.
2. Explain core concepts of biology: chemical makeup of biomolecules and their importance in the structure and function of the cell; functions of organelles, cellular processing, including respiration, photosynthesis, mitosis, meiosis, transcription/translation, and fundamental biological concepts in classical and molecular genetics, and molecular biology; classification, life cycles, physiology, anatomy and development of animals, plants, fungi, protista and prokaryotes.
3. Explain the core concepts of evolution and ecology.

Degree Requirements:

Required Courses	Credit Hours:	(39 Required)
BIOL 001A	General Biology	5
BIOL 001B	General Biology	5
CHEM 001A	General Chemistry	5
CHEM 001B	General Chemistry	5
MATH 003A	Calculus I	5
MATH 013	Introduction to Statistics	4
PHYS 003A	General Physics	5
PHYS 003B	General Physics	5
	Credit Hours:	(0 Required)
Major Requirements		39
General Education and Electives		21

***Please note that students can only take the IGETC for Stem as the GE pattern for this program.

Total: 39

Berkeley City College

Biotechnology

Overview

College	BCC - Business/STEM/Media Art
Originator	Barbara Des Rochers
Award Type	A.S. Degree

Codes and Dates

State Approval Date	2/28/2016
Curriculum Committee Approval Date	11/15/2018
Board of Trustees Date	1/08/2019
Current Effective Date	8/01/2019
Program Control Number	09056
Top Code	0430.00* - Biotechnology and Biomedical Technology

Description

Biotechnology draws from many disciplines, including genetics, immunology, chemistry, physics, mathematics and computer science. Recent advances in biotechnology have resulted in major contributions to the fields of medicine, pharmacy, public health and agriculture. The Associate of Science degree in Biotechnology at Berkeley City College prepares students for employment as technicians and research associates in the pharmaceutical and biotechnology industries, state and federal laboratories, and a range of clinical and academic laboratories. The program also incorporates coursework for those students desiring to transfer to CSU/UC prior to entering the workforce.

Career Opportunities

Technician, research assistant and research associate positions in pharmaceutical and biotechnology industries, state and federal laboratories and academic and private research laboratories.

Program Learning Outcomes

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

1. Demonstrate knowledge and facility with standard laboratory methods and procedures, advanced techniques used in immunology and genetics laboratories, laboratory mathematics, tissue culture, proper handling and disposal of hazardous materials and good laboratory practices.
 2. Demonstrate an ability to work independently and as a member of a team, to read and interpret laboratory protocols, to analyze and troubleshoot results, to utilize information provided in scientific papers when necessary, and to maintain a legible laboratory notebook with accurately recorded data.
 3. Demonstrate an understanding of basic concepts in biology and chemistry, an ability to write a scientific paper and present data in an oral presentation and an ability to address ethical concerns associated with stem cells and recombinant DNA technologies.
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Degree Requirements:

	Credit Hours: (0 Required)	
<i>Required Courses: (18 units):</i>		
BIOL 032	Scientific Literature and Writing	3
BIOL 033	Immunology	4
BIOL 034	Genetics	3
BIOL 034L	Genetics Laboratory	2
BIOL 050A	Introductory Biotechnology with Laboratory	4
BIOL 050D	Cell and Tissue Culture	2
	Credit Hours: (0 Required)	
<i>Select 3 from the following: (10-15 units)</i>		
BIOL 050B or	Protein Chemistry and Fermentation	3
BIOL 050C or	Stem Cell Biology and Advanced Molecular Techniques	3
BIOL 051 or	Introduction to Bioinformatics	4
BIOL 001A or	General Biology	5
CHEM 001A or	General Chemistry	5
PHYS 003A or	General Physics	5
PHYS 004A	General Physics with Calculus	5
	Credit Hours: (0 Required)	
<i>Select 1 from the following: (3-5 units)</i>		
MATH 001 or	Pre-Calculus	4

MATH 003A or	Calculus I	5
MATH 016A	Calculus for Business and the Life and Social Sciences	3

Total Major Requirements: 31-38 units

Credit Hours:

General Education and Electives: 22-29 units

Credit Hours:

Total Units: 60

Credit Hours:

Berkeley City College

Business Administration 2.0

Overview

College	BCC - Business/STEM/Media Art
Originator	Chris Bernard
Award Type	AS-T Degree

Codes and Dates

State Approval Date	3/14/2013
Curriculum Committee Approval Date	4/12/2012
Program Control Number	31629
Top Code	0505.00* - Business Administration

Description

The Associate in Science for Transfer degree in Business Administration 2.0 will help students develop communications, critical thinking, and problem solving skills. They will also learn how to convey ideas skillfully and effectively in writing and presentations. Students who successfully complete the AS-T in Business Administration 2.0 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 business administration 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) 27 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 for additional information and to verify transfer requirements.

Career Opportunities

Prepares students for transfer and for further studies in Business Administration.

Program Learning Outcomes

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

1. Analyze a business situation and recommend a solution or plan for improvement, applying legal and ethical principles in business decision making.
 2. Obtain information related to the profession using traditional and electronic sources and synthesize the information into a business report.
 3. Analyze data and prepare common business and personal financial reports.
 4. Analyze impact of globalization on culture, politics, and economics.
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Degree Requirements:

Required Courses		Credit Hours: (27 Required)
BUS 001A	Financial Accounting	4
BUS 001B	Managerial Accounting	4
ECON 001	Principles of Economics (Macro-Economics)	3
ECON 002	Principles of Economics (Micro-Economics)	3
BUS 002	Introduction to Business Law	3
MATH 016A	Calculus for Business and the Life and Social Sciences	3
MATH 013	Introduction to Statistics	4
BUS 010	Introduction to Business	3

General Education and Elective Courses **Credit Hours:** (33 Required)

Total: 60

College of Alameda

Research Skills

Overview

College	COA - Liberal Studies and Language Arts
Originator	Jane McKenna
Award Type	Certificate of Competency

Codes and Dates

State Approval Date	4/15/2019
Curriculum Committee Approval Date	11/06/2018
Board of Trustees Date	1/08/2019
Current Effective Date	8/01/2019
Program Control Number	37799
Top Code	4930.14 - Study Skills

Description

The Certificate of Competency in Research Skills is designed to provide students with a foundation in information literacy, critical thinking, ethical use of information, and research. This certificate is intended to improve the research and information literacy skills of student desiring to increase their capacity for pursuing college-level coursework, gaining employment in today's digital workforce, and community engagement. Students enrolled in the Research Skills program may use the certification as a means of providing college instructors and employers of their ability to find, evaluate, and use credible and relevant information in an ethical manner.

Students are required to complete three courses for a total of six (6) instructional hours. Each course must be completed with a grade of Pass or Satisfactory Progress.

Career Opportunities

The O*NET Content Model's data descriptor for Work Activity: Getting Information (defined as "Observing, receiving, and otherwise obtaining information from all relevant sources.") includes legal, educational, medical, and financial occupations (see attachment for full list of SOC occupations).

Program Learning Outcomes

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

1. Apply information literacy skills to academic, professional, and personal life.
2. Complete a basic research project from topic development to information source selection, evaluation, and citation.
3. Analyze, synthesize, and apply information practically and ethically.

Degree Requirements:

Required Courses (2 hours each)

LIS 511	Research Skills I	2.0125
LIS 512	Research Skills II	2.0125
LIS 513	Research Skills III	2.0125

Noncredit: (6.3 Required)

Total hours: 6

0

Noncredit: (0 Required)

Total: 6.3

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Berkeley City College

Community Health Worker

Overview

College	BCC - Liberal Arts and Social Sciences
Originator	Melina Winterton
Award Type	Certificate of Completion

Codes and Dates

State Approval Date	9/20/2018
Curriculum Committee Approval Date	2/05/2018
Board of Trustees Date	2/27/2018
Current Effective Date	8/01/2022
Program Control Number	37085
Top Code	1261.00* - Community Health Care Worker

Description

The Community Health Worker certificate is a 104-hour non-credit certificate option designed for students who plan to pursue a career as a Community Health Worker (CHW). California has a labor shortage in Community Health, and recent changes to MediCal have made this a rapidly growing field in the Bay Area.

The certificate enables students to gain exposure to various career options in community health, and develop skills necessary for entry-level employment in the field. Topics covered include: overview of community health work, terminology and basic physiology, assessment of health promotion programs, individual and community advocacy, basic skills for the profession, survey of community health workers and agencies, cultural humility, implicit bias, professional behavior, ethics, and all nine industry standard CHW core competencies (communications, professional and personal development, cultural competency and ethnic diversity, health care systems, barriers and resources, technology).

Students may elect to continue their education through Berkeley City College's non-credit Social Work and Human Services Work Readiness Certificate, or the for-credit Peer Support Specialist Certificate, which leads to various Associated Degrees for Transfer.

Career Opportunities

Entry-level paraprofessional/volunteer positions as a community health worker in positions such as: Community Health Worker Family Advocate or Support Worker Community Health Advocate or Aide Peer Counselor or Educator Public Health Aide Social Worker Assistant Street Outreach Worker Wellness Ambassador Women's Health Advocate Youth Worker

Program Learning Outcomes

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

1. Explain the career opportunities as a community health worker
 2. Demonstrate skills for placement in entry-level volunteer, internship, or paid opportunities
 3. Determine a successful pathway to reach career goals as a community health worker
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Degree Requirements:

Required Course	Noncredit:	(105 Required)
HUSV 500A and Community Health Worker I		52.5
HUSV 500B Community Health Worker II		52.5
		Total: 105

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Berkeley City College

Global Studies

Overview

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

Codes and Dates

State Approval Date	2/13/2017
Curriculum Committee Approval Date	2/15/2018
Board of Trustees Date	5/08/2018
Current Effective Date	8/01/2022
Program Control Number	35529
Top Code	2210.20 - Global Studies

Description

The Associate in Arts in Global Studies for Transfer Degree is designed for students planning to transfer into several related majors such as Global Studies, Global Politics, International Relations, International Studies, and Comparative Government. Through interdisciplinary coursework, students will gain exposure to the global scope of contemporary and historical issues. Global Studies focuses on topics such as geographical and cultural diversity, economic interdependence and inequality, global political institutions, international environmental challenges, and global citizenship. Students pursuing the AA-T in Global Studies will study the development of global ideas, organizations, and actors; global interdependence at different points in human history; diverse practices in human civilization across time and space; and interdisciplinary research methods and modes of inquiry.

Students who successfully complete the AA-T in Global Studies 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 Global Studies 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) 21-23 semester units with a grade of C or better in the major and an overall minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework.

Students are advised to consult with the Social Sciences Department Chair or Berkeley City College counselor for additional information and to verify transfer requirements.

Career Opportunities

The AA-T in Global Studies is designed for students planning to transfer to another institution of higher learning and is not focused on workforce training.

Program Learning Outcomes

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

1. Define concepts in global studies (e.g., globalization, interdependence, development, regional and cultural diversity, inequality, world problems, states and international organizations).
2. Identify, analyze, and discuss the global dimensions to various cultural, social, geographic, economic, and/or political issues, past and present.
3. Demonstrate skills in the methods and theories used to study global topics.

Degree Requirements:

Required Courses	Credit Hours:	(0 Required)
POSCI 020 Global Issues		3
POSCI 019 Introduction to Global Studies		3
Restricted Electives--Select 15 units from a minimum of four of the five areas below	Credit Hours:	(0 Required)
Area 1: Culture and Society	Credit Hours:	(0 Required)
ANTHR 003 Introduction to Social and Cultural Anthropology		3
HIST 003B World History Since 1500		3
Area 2: Geography	Credit Hours:	(0 Required)
GEOG 001L Physical Geography Laboratory		1
GEOG 003 World Regional Geography		3
Area 3: Economics	Credit Hours:	(0 Required)
ECON 001 Principles of Economics (Macro-Economics)		3

ECON 002	Principles of Economics (Micro-Economics)	3
Area 4: Politics		Credit Hours: (0 Required)
POSCI 002	Comparative Government	3
POSCI 003	International Relations	3
Area 5: Humanities		Credit Hours: (0 Required)
SPAN 002A	Intermediate Spanish I	5
SPAN 002B	Intermediate Spanish II	5
Unit Calculations		Credit Hours: (60 Required)
Total Units for the Major		21 - 25
General Education (CSU GE or IGETC) Units		35 - 39
Total Degree Units		60
		Total: 60

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	3/22/2021
Curriculum Committee Approval Date	11/19/2020
Board of Trustees Date	1/19/2021
Current Effective Date	8/01/2022
Program Control Number	40702
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
-

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 Europe to 1500		3
HIST 002B or History of Europe Since 1500		3
HIST 003A and World History to 1500		3
HIST 003B World History Since 1500		3
List B—Select 3 units from the following:	Credit Hours:	(0 Required)
HIST 003A World History to 1500		3
HIST 003B World History Since 1500		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

Credit Hours: (0 Required)

Total Units for the Major	18
General Education (CSU GE or IGETC) Units	42
Total Degree Units	60

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Berkeley City College

Mathematics

Overview

College
Originator
Award Type

BCC - Business/STEM/Media Art
Claudia Abadia
AS-T Degree

Description

Students who successfully complete the AS-T in Mathematics earn specific guarantees for transfer to the CSU system: admission to a CSU with junior status and priority admission to a local CSU campus and to a program or major in Mathematics 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) 21-23 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. For a more detailed description of Associate Degrees for Transfer, see "Associate Degrees for Transfer (ADT) to a California State University" on page XX.

Students are advised to consult with a Berkeley City College Counselor for additional information and to verify transfer requirements.

Career Opportunities

n/a

Program Learning Outcomes

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

1. apply mean value theorems
 2. solve linear systems, integration problems, and problems for multivariable functions
 3. graph and analyze basic functions
 4. calculate derivatives
 5. solve differential equations and analyze the solution sets
-

Degree Requirements:

Required Courses	Credit Hours:	(0 Required)
MATH 003A Calculus I		5
MATH 003B Calculus II		5
MATH 003C Calculus III		5
MATH 003E Linear Algebra		3
Select one course from the following:	Credit Hours:	(0 Required)
MATH 003F Differential Equations		3
MATH 011 Discrete Mathematics		4
MATH 013 Introduction to Statistics		4
PHYS 004A General Physics with Calculus		5
Total for Major: 21-23 units	Credit Hours:	
General Education and Elective Courses: 37-39	Credit Hours:	(0 Required)
Total Units: 60	Credit Hours:	(0 Required)

Berkeley City College

Peer Support Specialist

Overview

College	BCC - Liberal Arts and Social Sciences
Originator	Melina Winterton
Award Type	Certificate of Achievement

Codes and Dates

State Approval Date	2/03/2017
Curriculum Committee Approval Date	11/03/2016
Board of Trustees Date	12/13/2016
Current Effective Date	1/01/2017
Program Control Number	30951
Top Code	2104.00* - Human Services

Description

The Peer Support Specialist Certificate of Achievement program provides a comprehensive foundation in cultural fluency, communication, and the core competencies for Peer Support Specialists.

This certificate is designed to help California meet the statewide challenges and the rapidly expanding need for social work, public health, and human service professionals. Specifically, by providing core competency compliant education/training for the Peer Support Specialist designation.

Students' training will allow them to become well-rounded employees who are able to participate as team members in social work and human service agencies and settings. The program is aligned with the AA-T in Social Work and Human Services and all courses in this certificate stack towards this transfer degree.

Career Opportunities

Paraprofessional capacities in social work and human services allow students to pursue entry-level positions in community health organizations, non-profit social service agencies, or governmental social work departments. Peer Support Specialist Community Health Worker Family Advocate or Support Worker Community Health Advocate or Aide Peer Counselor or Educator Public Health Aide Social Worker Assistant Street Outreach Worker Wellness Ambassador Women's Health Advocate Youth Worker

Program Learning Outcomes

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

1. Demonstrate a fundamental knowledge of the role, scope, ethical, and legal issues of work for entry-level employment in social work and human services positions, such as Peer Support Specialist, Case Manager, Navigator, or Advocate.
 2. Demonstrate culturally appropriate communication skills for entry-level employment in social work and human services, such as Peer Support Specialist, Case Manager, Navigator, or Advocate.
 3. Apply boundary settings skills and emotional regulation skills appropriate for entry-level social work and human services positions, such as Peer Support Specialist, Case Manager, Navigator, or Advocate.
-

Degree Requirements:

Required Courses	Credit Hours: (18 Required)
COMM 006 and Intercultural Communication	3
HUSV 121 and Introduction to Social Work and Human Services	3
HUSV 120A and Social Work and Human Services Seminar	1
HUSV 120B and Social Work and Human Services Fieldwork	2
PSYCH 001A and Introduction to General Psychology	3
SOC 001 and Introduction to Sociology	3
SOC 002 and Social Problems	3

Total: 18

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Merritt College

Academic Composition Skills

Overview

College	Merritt - Division I
Originator	Evan Nichols
Award Type	Certificate of Competency

Codes and Dates

State Approval Date	4/15/2019
Curriculum Committee Approval Date	11/18/2021
Board of Trustees Date	1/08/2019
Current Effective Date	8/01/2019
Program Control Number	37818
Top Code	1501.00 - English

Description

The Academic Composition Skills, Certificate of Competency ensures necessary skills in fundamentals of English composition and research for students enrolled in composition courses. Students who complete this program 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 prepares them for college level courses that would lead to career opportunities.

Program Learning Outcomes

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

1. Demonstrate fundamental composition skills in order to write well organized, well developed, well edited, and clear essays in transfer-level English and other transfer-level classes.
2. Demonstrate fundamental research skills in order to write well researched and well documented research papers in transfer-level English and other transfer-level classes.

Degree Requirements:

Required Courses	Noncredit: (52.5 - 787.5 Required)
ENGL 508A Academic Composition Skills: Prewriting and Organization	17.5 - 262.5
ENGL 508B Academic Composition Skills: Paragraph Development, Analysis, and Research	17.5 - 262.5
ENGL 508C Academic Composition Skills: Sentence Structure and Proofreading	17.5 - 262.5

Competency Requirement **Noncredit:** (0 Required)

Writing tutors, under the supervision of the course instructor, are responsible for evaluating student writing competencies as required for each course. For example, students who demonstrate all competencies for English 508A will then be required to demonstrate competencies for English 508B or 508C. Students will have up to six weeks to meet the competencies of all three courses by the end of a semester.

Total: 52.500 - 787.500

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Laney College

Baking And Pastry

Overview

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

Codes and Dates

State Approval Date	2/18/2021
Curriculum Committee Approval Date	10/16/2020
Board of Trustees Date	12/14/2020
Current Effective Date	1/01/2021
Program Control Number	09034
Top Code	1306.30* - Culinary Arts

Description

Rise to the Challenge! Do you have a passion for food, creative expression with a sense of diligence and discipline? The Culinary Baking and Pastry Program at Laney College prepares you for an entry level baking employment, baker, pastry chef/owner and food industry trend setter or a stepping stone to a four year college. Your experience in our program includes classroom lectures reinforced with lab kitchen production. The Baking and Pastry AS Degree or Certificate of Achievement integrates the techniques and knowledge you need for the industry. The program integrates safety, leadership, math, food science, and operational efficiency.

Career Opportunities

Career opportunities with the Baking and Pastry certificate include, but are not limited to: baker, cake decorator, pastry chef, dessert plater, caterer, recipe tester, candy maker, and chocolatier. Skills acquired in the certificate will also prepare students for business ownership in the culinary industry.

Program Learning Outcomes

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

1. Demonstrate food safety and sanitation practices while using baking and pastry related equipment.
2. Apply fundamental baking and pastry techniques and their variations to a wide range of classic and contemporary pastries, breads, cake candy and plated desserts.
3. Interpret recipes or formulas both orally and written and evaluate products base on ingredients, cost, method, timing, appearance, texture and overall eating quality.

Degree Requirements:

First Semester (13 units):		Credit Hours:	(0 Required)
CULIN 088	Introduction to Food and Culture		3
CULIN 203	Introduction to Baking Foundations		4
CULIN 204	Baking Fundamentals		4
CULIN 215	Culinary Math Fundamentals		1
CULIN 217	Formulas and Food Costs		1
Second Semester (9 units):		Credit Hours:	(0 Required)
CULIN 205	Artisan Breads		5
CULIN 206	Cake Decorating		4
Third Semester (10 units):		Credit Hours:	(0 Required)
CULIN 207	International Patisserie		5
CULIN 208	Confiserie (Candy and Chocolate Making)		5

Fourth Semester (8 units):

CULIN 221	Managing Food Sanitation		1
CULIN 209	Contemporary Plated Desserts		6
CULIN 236	Culinary Career Development		1

Credit Hours: (0 Required)

Total Major Units: **Credit Hours:** (0 Required) 40

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

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

Total: 60

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Laney College

Baking And Pastry

Overview

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

Codes and Dates

State Approval Date	2/18/2021
Curriculum Committee Approval Date	10/16/2020
Board of Trustees Date	12/14/2020
Current Effective Date	1/01/2021
Program Control Number	21565
Top Code	1306.30* - Culinary Arts

Description

Rise to the Challenge! Do you have a passion for food, creative expression with a sense of diligence and discipline? The Culinary Baking and Pastry Program at Laney College prepares you for an entry level baking employment, baker, pastry chef/owner and food industry trend setter or a stepping stone to a four year college. Your experience in our program includes classroom lectures reinforced with lab kitchen production. The Baking and Pastry AS Degree or Certificate of Achievement integrates the techniques and knowledge you need for the industry. The program integrates safety, leadership, math, food science, and operational efficiency.

Career Opportunities

Career opportunities with the Baking and Pastry certificate include, but are not limited to: baker, cake decorator, pastry chef, dessert plater, caterer, recipe tester, candy maker, and chocolatier. Skills acquired in the certificate will also prepare students for business ownership in the culinary industry.

Program Learning Outcomes

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

1. Demonstrate food safety and sanitation practices while using baking and pastry related equipment.
2. Apply fundamental baking and pastry techniques and their variations to a wide range of classic and contemporary pastries, breads, cake candy and plated desserts.
3. Interpret recipes or formulas, both orally and written, and evaluate products base on ingredients, cost, method, timing, appearance, texture and overall eating quality.

Degree Requirements:

First Semester (13 units)		Credit Hours:	(0 Required)
CULIN 088	Introduction to Food and Culture		3
CULIN 203	Introduction to Baking Foundations		4
CULIN 204	Baking Fundamentals		4
CULIN 215	Culinary Math Fundamentals		1
CULIN 217	Formulas and Food Costs		1
Second Semester (9 units):		Credit Hours:	(0 Required)
CULIN 205	Artisan Breads		5
CULIN 206	Cake Decorating		4
Third Semester (10 units):		Credit Hours:	(0 Required)
CULIN 207	International Patisserie		5
CULIN 208	Confiserie (Candy and Chocolate Making)		5

Fourth Semester (8 units):**Credit Hours:** (0 Required)

CULIN 221	Managing Food Sanitation	1
CULIN 209	Contemporary Plated Desserts	6
CULIN 236	Culinary Career Development	1

Credit Hours: (40 Required)

Total Major Units: 40

Total: 40

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Laney College

Bookkeeping

Overview

College	Laney - Humanities, Social Sciences
Originator	Linda Chi
Award Type	Certificate of Achievement

Codes and Dates

State Approval Date	12/13/2016
Curriculum Committee Approval Date	5/06/2016
Board of Trustees Date	10/11/2016
Current Effective Date	1/23/2017
Program Control Number	35371
Top Code	0502.00* - Accounting

Description

The Bookkeeping Certificate is designed to add the skills needed to enter the accounting profession within a short period of time. The program covers theoretical, analytical, and computer application skills required to apply for jobs as bookkeepers, or as clerks in the following positions: general ledger, accounts receivable, accounts payable, payroll, and income tax. Graduates of the program will have knowledge of double-entry accounting, preparation of journals, adjustments, payroll documents, tax forms, and bank reconciliation, as well as proficiency in Excel, Computerized Accounting and QuickBooks.

Career Opportunities

The successful completion of this program will allow students to apply for positions in bookkeeping, and clerical positions such as general ledger, accounts receivable, accounts payable, payroll, and income tax.

Program Learning Outcomes

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

1. Computational Skills: Input financial transactions and prepare financial statements.
2. Design and create a business spreadsheet using Microsoft Excel application to summarize business transactions.
3. Ethics and Personal Responsibility: Apply legal, accounting and ethical principles when preparing business reports.

Degree Requirements:

Required core courses (5.5 units)	Credit Hours: (0 Required)
BUS 206 Certified Bookkeeper Exam Review	4
BUS 239 QuickBooks	1.5
Electives (select a min of 11 units):	Credit Hours: (0 Required)
BUS 001A Financial Accounting	4
BUS 024 Computerized Accounting Principles	3
BUS 043B Introduction to Microsoft Excel for Business Applications	4
BUS 209 Fundamentals of Income Tax	4
	Credit Hours: (0 Required)
Total Major Units	16.5
"Recommended But Not required"	Credit Hours: (0 Required)
BUS 001B Managerial Accounting	4
BUS 004 Cost Accounting	3

BUS 020	General Accounting	3
BUS 021	Payroll Accounting	2

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Merritt College

Bridge to Medical Assistant Program

Overview

College	Merritt - Division III
Originator	Muwafaqu Al-Asad
Award Type	Certificate of Completion

Codes and Dates

Curriculum Committee Approval Date	11/18/2021
Current Effective Date	8/01/2022
Top Code	1208.00* - Medical Assisting

Description

The Bridge to Medical Assistant Careers Certificate is a non-credit certificate option designed for students who plan to pursue a career as medical assistants. The certificate enables students to gain exposure to various career options as a medical assistant and will develop the skills necessary to enter employment in the field. Students can continue their education through Merritt College's Allied Health Credit-certificated programs such as Medical Assisting, Health Navigation, Nursing, Radiology Technician, and the Histotechnology program and/or a variety of Associate Degrees for Transfer (Nurse practitioner, Physician's Assistant, etc.).

Upon completion of this certificate, students can take a National Health Career Association (NHA) Certified Medical Assistant (CMA) national examination.

Career Opportunities

Entry-level medical assistant career such as: doctor's offices, clinics, and other medical facilities to perform administrative and certain clinical duties under the direction of a physician. Administrative duties may include scheduling appointments, maintaining medical records, billing, and coding information for insurance purposes. Clinical duties may include taking and recording vital signs and medical histories, preparing patients for examination, drawing blood, and administering medications as directed by physician.

Program Learning Outcomes

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

1. Clearly communicate through writing, speaking, listening, and reading in the Medical Assistant Program.
2. Demonstrate both administrative and clinical skills for entry-level placement in medical assistant career opportunities.
3. Determine a successful pathway to reach career goals as a medical assistant.

Degree Requirements:

Major Core Courses: 280 hours		Noncredit: (280 Required)
MEDAS 503	The Language of Medicine	52.5
MEDAS 504	Introduction to Medical Assisting	52.5
MEDAS 505	Introduction to Pharmacology	52.5
MEDAS 506	Administrative Skill	52.5
MEDAS 507	Clinical Skill	52.5
MEDAS 508	Heartsaver First Aid -CPR & AED	17.5

Recommended Course

Noncredit: (0 Required)

ESOL 590 English for Special Purposes

0

Total: 280

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Laney College

Chinese Music

Overview

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

Description

The Chinese Music A.A. recognizes mastery of Chinese Music essentials. Students will examine basic music theory, solo performance techniques, Chinese Music History; Jianpu notation, instrumentation, Chinese Opera traditions, and ensemble playing techniques. After completing this program, students will be able to play concerts, compose music, participate in recording sessions, or continue with their studies by transferring to a four-year Music program, especially in Ethnomusicology.

Career Opportunities

Performer, instructor, coach, conductor, recording artist, lecturer.

Program Learning Outcomes

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

1. Employ proper instrumental or vocal technique to construct properly prepared musical phrasing.
2. Apply basic music theory and skills.
3. Synthesize music skills ability, music theory knowledge, and instrumental or vocal technique into informed performances.

Degree Requirements:

Survey of Chinese Music and Opera (6 units):	Credit Hours:	(0 Required)
MUSIC 014A Introduction to Chinese Opera		3
MUSIC 053B Music of China		3
Performance (8 units from the following)	Credit Hours:	(0 Required)
<i>Courses in this category may be repeated 3 times.</i>		
MUSIC 032 Chinese Orchestra		1
MUSIC 054 Chinese Small Ensemble		1
Theory, Skills, and Piano (5 units):	Credit Hours:	(0 Required)
MUSIC 101 Music Theory and Culture I		3
MUSIC 121 Music Skills I		1
MUSIC 130 Elementary Piano Method I		1
Total Major Units	Credit Hours:	(0 Required)
<i>Total Major Units:</i>		
19		
General Education Requirements:	Credit Hours:	(0 Required)
19		
	Credit Hours:	(0 Required)
Elective courses to meet 60		
	Credit Hours:	(60 Required)

Total: 60

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Laney College

Chinese Music

Overview

College	Laney - Liberal Arts
Originator	John Reager
Award Type	Certificate of Achievement

Description

The Certificate of Achievement in Chinese Music recognizes mastery of Chinese music essentials. Students will examine basic music theory, solo performance techniques, Chinese Music History; Jianpu notation, instrumentation, Chinese Opera traditions, and ensemble playing techniques. After completing this program, students will be able to play concerts, compose music, participate in recording sessions, or continue with their studies towards an associate degree.

Career Opportunities

Performer, instructor, coach, conductor, recording artist, lecturer.

Program Learning Outcomes

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

1. Employ proper instrumental or vocal technique to construct properly prepared musical phrasing.
2. Apply basic music theory and skills.
3. Synthesize music skills ability, music theory knowledge, and instrumental or vocal technique into informed performances.

Degree Requirements:

Survey of Chinese Music and Opera (6 units):		Credit Hours: (3 Required)
MUSIC 014A	Introduction to Chinese Opera	3
MUSIC 053B	Music of China	3
Performance (8 units)		Credit Hours: (8 Required)
<i>Courses in this category may be repeated 3 times.</i>		
MUSIC 032	Chinese Orchestra	4
MUSIC 054	Chinese Small Ensemble	4
Theory, Skills, and Piano (5 units):		Credit Hours: (5 Required)
MUSIC 101	Music Theory and Culture I	3
MUSIC 121	Music Skills I	1
MUSIC 130	Elementary Piano Method I	1

Total: 19

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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

Career opportunities with the Culinary Arts & Restaurant Management certificate include, but are not limited to: 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 Product Developer, Food & Beverage Manager, and Cooking Instructor. Skills acquired in the certificate will also prepare students for business ownership such as Restaurateur, Food Truck Owner, and Independent Business Owner/Consultant.

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 (7 units):		Credit Hours:	(0 Required)
CULIN 210	Introduction to Culinary Arts		4
CULIN 215	Culinary Math Fundamentals		1
CULIN 217	Formulas and Food Costs		1

CULIN 218	Ingredients and Equipment		1
Second Semester (7 units):		Credit Hours:	(0 Required)
CULIN 221	Managing Food Sanitation		1
CULIN 223	Stocks, Soups and Sauces		1
CULIN 224	Principals of Heat Cooking		1
CULIN 227	Dynamic Heat Cooking		4
Third Semester (12 units):		Credit Hours:	(0 Required)
CULIN 230	Garde Manger and Contemporary American Bistro Cooking		7
CULIN 232	Dining Room Service and Management		1
CULIN 235	Culinary Nutrition		3
CULIN 236	Culinary Career Development		1
Fourth Semester (13 units):		Credit Hours:	(0 Required)
CULIN 240	International Cuisine		7
CULIN 241	Principles of Food, Beverage, and Labor Controls		3
CULIN 242	Supervision in the Hospitality Industry		3
Total Major Units:		Credit Hours:	(0 Required) 39
General Education Requirement:		Credit Hours:	(0 Required) 19
Electives to meet 60 units:		Credit Hours:	(0 Required)
Total Units:		Credit Hours:	(60 Required) 60
Recommended but not required		Credit Hours:	(0 Required)
CULIN 203 or	Introduction to Baking Foundations		4
CULIN 204	Baking Fundamentals		4
		Total:	60

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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 (7 units):	Credit Hours:	(0 Required)
CULIN 210	Introduction to Culinary Arts	4
CULIN 215	Culinary Math Fundamentals	1
CULIN 217	Formulas and Food Costs	1
CULIN 218	Ingredients and Equipment	1
Second Semester (7 units):	Credit Hours:	(0 Required)
CULIN 221	Managing Food Sanitation	1

CULIN 223	Stocks, Soups and Sauces	1
CULIN 224	Principals of Heat Cooking	1
CULIN 227	Dynamic Heat Cooking	4
Third Semester (12 units):		Credit Hours: (0 Required)
CULIN 230	Garde Manger and Contemporary American Bistro Cooking	7
CULIN 232	Dining Room Service and Management	1
CULIN 235	Culinary Nutrition	3
CULIN 236	Culinary Career Development	1
Fourth Semester (13 units):		Credit Hours: (0 Required)
CULIN 240	International Cuisine	7
CULIN 241	Principles of Food, Beverage, and Labor Controls	3
CULIN 242	Supervision in the Hospitality Industry	3
		Credit Hours: (39 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

Total: 39

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Laney College

Culinary Foundations

Overview

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

Codes and Dates

State Approval Date	3/19/2021
Curriculum Committee Approval Date	10/18/2019
Board of Trustees Date	12/10/2019
Current Effective Date	6/01/2021
Program Control Number	40701
Top Code	1306.30* - Culinary Arts

Description

The Culinary Foundations Certificate of Achievement is composed of courses designed for the individual seeking to acquire culinary skills for employment within the exciting and fast-growing food service industry. The program of study includes courses in knife skills, ingredient identification, cooking methods (i.e., sautéing, poaching, grilling), hands-on food production, and food costs. When completed, the courses may be applied to the Culinary Arts and Restaurant Management CA or AS degree.

Career Opportunities

Career opportunities with the Culinary Foundations certificate include, but are not limited to: Cook's Assistant/Commis, Cook (Station, Line and/or Short-Order), Personal Chef, Caterer, Food Writer, Recipe Tester, Food Truck Owner, Food Product Developer.

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 and preparation.
2. Apply classical cooking terminology and techniques

Degree Requirements:

Core Courses (13 units):		Credit Hours:	(13 Required)
CULIN 210	Introduction to Culinary Arts		4
CULIN 215	Culinary Math Fundamentals		1
CULIN 217	Formulas and Food Costs		1
CULIN 218	Ingredients and Equipment		1
CULIN 223	Stocks, Soups and Sauces		1
CULIN 224	Principals of Heat Cooking		1
CULIN 227	Dynamic Heat Cooking		4
Total: 13			

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Laney College

Digital Fabrication Technology - Art

Overview

College	Laney - Liberal Arts
Originator	Mary Catherine Bassett
Award Type	Certificate of Achievement

Description

This certificate was created to help students develop professional skills in computer and software driven fabrication. This program takes a multi-material approach to fabricating all kinds of parts, installations, and sculptures. There is an emphasis on learning software skills that aid in the automation of manufacturing along with the hand skills required for finishing projects and creating works of art.

Career Opportunities

fabricator, manager, technician, artist, designer, CAD designer, educator

Program Learning Outcomes

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

1. Solve problems for the iterative process of design and fabrication.
2. Execute planning, measurement, and analysis of a project.
3. Create works using digital fabrication independently of instruction
4. Work collaboratively with Highschool students and community partners.

Degree Requirements:

Required Fundamental Courses (8 units)	Credit Hours: (8 Required)
<i>Program Courses</i>	
ART 047 3-D Visual Design	3
ART 176 Beginning Sculpture	3
CARP 224A Digital Fabrication I	2
Computer Assisted Design (CAD) (1 Course)	Credit Hours: (3 - 4 Required)
<i>Program Courses</i>	
ENGIN 022 Engineering Graphics	3
ARCH 125 Digital Tools for Architecture and Design	3
WDTEC 030 CAD/CAM Techniques in the Cabinet-Making Industry	4
ARCH 104A Beginning Computer Aided Drafting (CAD)	3
Application of Fundamentals (7 units)	Credit Hours: (7 Required)
<i>Program Courses</i>	
CARP 224B Digital Fabrication II	2
ART 071 Continuing Sculpture	2
ART 080 Beginning Ceramics	3
Continued Fundamentals (6 units)	Credit Hours: (6 Required)
<i>Program Courses</i>	
WDTEC 010 Wood Technology I	3
WELD 205 Introduction to Welding	3
Cooperative Education (Minimum 2 Units)	Credit Hours: (2 Required)

Program Courses

ART 466C	Occupational Work Experience in Art	1 - 4
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Recommended Courses (Not Required)**Credit Hours:** (0 Required)*Program Courses*

ART 046	2-D Visual Design	3
ART 082	Intermediate Ceramics	3
ART 074	Special Projects: Sculpture	2

Total: 26.000 - 27.000

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Merritt College

Economics 2.0

Overview

College
Originator
Award Type

Merritt - Division II
Shahbaz Shahbazi
AA-T Degree

Description

The study of Economics at Merritt College is intended to provide students with knowledge, appreciation and ability to analyze the production, distribution and consumption of wealth in human society.

The Associate Degree for Transfer (ADT) program allows students to fulfill lower division major requirements at a community college and guarantees transfer with junior status to the California State University (CSU) system. Students who complete an ADT and transfer to a similar major at a CSU are guaranteed a pathway to finish their baccalaureate degrees in 60 semester units.

This Economics Associate in Arts for Transfer (AA-T) degree program requires students to meet the following requirements:

1. Completion of 60 semester units that are eligible for transfer to the CSU system, including the following:
 - a. The Intersegmental GE Transfer Curriculum (IGETC) or the California State University GE-Breadth Requirements (CSU GE-Breadth).
 - b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
 - c. A minimum of 12 semester units earned at Merritt College.
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 AA-T requirements and CSU GE-Breadth or IGETC.

Career Opportunities

Career opportunities in business, law, journalism, education, politics, finance and banking, government, public and private overseas service, and labor leadership are possible with a degree in economics. Also, students can continue their studies at a four-year university.

Program Learning Outcomes

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

1. Analyze the current economic conditions in the United States and identify appropriate fiscal and monetary policy options in relation to the US economy.
2. Apply fundamental economic concepts, including the construction of the primary economic models.
3. Evaluate complex social and economic problems using the theoretical tools and quantitative methods of economics.

Degree Requirements:

Major Core Courses (15 units)		Credit Hours: (0 Required)
ECON 001	Principles of Economics (Macro-Economics)	3
ECON 002	Principles of Economics (Micro-Economics)	3
MATH 013	Introduction to Statistics	3
MATH 003A	Calculus I	3
List A: Select two courses from the following (8 units)		Credit Hours: (0 Required)
BUS 001A	Financial Accounting	4
BUS 001B	Managerial Accounting	4
MATH 003B	Calculus II	4
List B: Select one course from the following or any course not used in List A (3 units)		Credit Hours: (0 Required)
MATH 003C	Calculus III	3
Total Units that may be double-counted (The transfer GE Area limits must not be exceeded)		Credit Hours: (0 Required) 14
IGETC or CSU GE-Breadth Education Pattern requirement IGETC or CSU GE-Breadth Education Units		Credit Hours: (0 Required) 37 - 39
CSU Transferable Elective courses CSU Transferable Elective courses to meet 60 units as needed		Credit Hours: (0 Required) 11 - 14
Total Units Required for Degree		Credit Hours: (60 Required)
		Total: 60

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Laney College

History

Overview

College	Laney - Humanities, Social Sciences
Originator	Blake Johnson
Award Type	AA-T Degree

Codes and Dates

State Approval Date	5/29/2019
Curriculum Committee Approval Date	2/22/2019
Board of Trustees Date	3/26/2019
Current Effective Date	8/01/2019
Program Control Number	38060
Top Code	2205.00 - History

Description

The Associate in Arts Degree in History for Transfer (AA-T HIST) is designed to provide students with an understanding of both a diverse array of societies and how and why the historical process shaped our world. Through the coursework associated with the History AA-T, students will address questions of identity, community, knowledge, consciousness, intelligibility, communication, and meaning as they explore the broad disciplinary terrain of history.

Students are required to complete:

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

The Associate in Arts Degree in History for Transfer (AA-T HIST) will also assist History 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

A History AA-T Degree into a history program provides students with the large range of potential educational and career opportunities afforded a graduate in the humanities and/or social sciences that include, but by no means are limited to, careers in education, public service, law, business, and creative arts.

Program Learning Outcomes

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

1. Apply knowledge of the historical process within particular fields of history and effective analysis and evaluation of historical cause and effect.
2. Apply historical methodology and critical and creative thinking skills to analyze and evaluate primary and secondary sources and historical arguments.
3. Analyze and evaluate the diverse historical identities, forces, and structures that have shaped past and present human history and continue to influence human history.

Degree Requirements:

Core Courses (6 units):	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 two courses (6 units):	Credit Hours: (0 Required)
HIST 002A or History of Europe to 1500	3
HIST 003A World History to 1500	3
HIST 002B or History of Europe Since 1500	3
HIST 003B World History Since 1500	3
List B: Area 1: Diversity Select one course (3 units):	Credit Hours: (0 Required)
<i>Including HIST 3A or HIST 3B if not used in List A.</i>	
HIST 003A World History to 1500	3
HIST 003B World History Since 1500	3
HIST 019 History of California	3
AFRAM 001 Introduction to African American Studies	3
AFRAM 030 African American History: Africa to 1865	3
AFRAM 031 African American History: 1865-1945	3
AFRAM 032 African American History: 1945 to the Present	3
ASAME 045A Asian-American History to 1945	3
ASAME 045B Asian American History From 1945 to the Present	3
ETHST 001 Introduction to Ethnic Studies	3
ETHST 012 Economics and Social Change: Racial Conflict and Class in America	3
ETHST 013 Introduction to Community Based Research in Urban America	3
ETHST 014 Community Building and Transformation in Urban America	3
GEOG 002 Cultural Geography	3
M/LAT 019 History of the Mexican American	3
M/LAT 034 History of Latinos in the United States: 1800 to Present	3
NATAM 001 History of Native American Indians	3
Area 2: Breadth Select one course (3 units):	Credit Hours: (0 Required)
<i>Including any List A course if not already used.</i>	
HIST 002A History of Europe to 1500	3
HIST 002B History of Europe Since 1500	3
HIST 003A World History to 1500	3
HIST 003B World History Since 1500	3
HIST 019 History of California	3
GEOG 003 World Regional Geography	3
POSCI 001 Government and Politics in the United States	3
POSCI 002 Comparative Government	3
POSCI 003 International Relations	3
SOCSC 019 Introduction to Global Studies	3
SOCSC 020 Global Issues	3
Total Major Units:	Credit Hours: (0 Required) 18
IGETC or CSU GE-Breadth Education Pattern	Credit Hours: (0 Required) 37 - 39

Credit Hours: (0 Required)

Electives to meet 60 units

Total Units

Credit Hours: (60 Required)

Total Units:

60

Total: 60

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Merritt College

Histotechnician

Overview

College	Merritt - Division III
Originator	Feather Ives
Award Type	Certificate of Achievement

Codes and Dates

State Approval Date	3/12/2019
Curriculum Committee Approval Date	11/15/2018
Board of Trustees Date	1/08/2019
Current Effective Date	6/01/2019
Program Control Number	35315
Top Code	1205.00* - Medical Laboratory Technology

Description

The Merritt College **Histotechnician Certificate of Achievement** program provides on-campus and on-site technical training in the field of histotechnology, focusing on routine tissue sample preparation, special stains and techniques such as immunohistochemistry, in situ hybridization, fluorescence microscopy and genomics. Training on campus will utilize samples routinely prepared in both clinical and research facilities. As part of their formal training, students of histotechnology will work through study guides provided by the American Society of Clinical Pathologists (ASCP) for its certification examination. Partnerships with local facilities will allow for work experience and internship sites required for certification of histotechnician graduates and will provide further training for those interested in research and/or careers in the private sector. Completion of this Program qualifies students for HT or HTL certification through ASCP.

A **Certificate of Achievement** will be awarded upon successful completion of the requirements below.

Career Opportunities

Career opportunities may include positions in hospital and clinical diagnostic labs, biotech histotechnology labs, academic research labs, agricultural and plant pathology labs, and veterinarian labs.

Program Learning Outcomes

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

1. Identify tissues as well as prepare tissue samples for analysis following ASCP/NAACLS guidelines.
2. Demonstrate good laboratory practices, as well as skilled handling of histotech, microscopy and genomics laboratory equipment, including trouble-shooting.

Degree Requirements:

Required Courses

Credit Hours:

Human Anatomy and Physiology Prerequisites

Credit Hours: (10 Required)

BIOL 002 and	Human Anatomy	5
BIOL 004 or	Human Physiology	5
BIOL 020A and	Human Anatomy and Physiology	5
BIOL 020B	Human Anatomy and Physiology	5

Chemistry Prerequisite

Credit Hours: (4 - 5 Required)

CHEM 001A or	General Chemistry	5
CHEM 030A	Introductory General Chemistry	4

Core Courses**Credit Hours:** (44 Required)

BIOL 003	Microbiology	5
BIOSC 009	General Histology	5
BIOSC 030 or	Genomics Theory	4
BIOSC 050	Genetic Diseases	4
BIOSC 055	Beginning Histotechniques	5
BIOSC 056	Advanced Histotechniques	5
BIOSC 101	Theory and Practice of Microscopy	6
BIOSC 102	Fluorescence Microscopy and Specimen Prep	6
COPED 476G	Occupational Work Experience in Histotechnology	4

Recommended Sequence of Courses**Credit Hours:****Recommended Sequence****Credit Hours:** (0 Required)

1st Semester Courses

BIOSC 101	Theory and Practice of Microscopy	6
BIOL 002	Human Anatomy	5

2nd Semester Courses

BIOSC 102	Fluorescence Microscopy and Specimen Prep	6
CHEM 001A	General Chemistry	5

3rd Semester Courses

BIOSC 009	General Histology	5
BIOL 004	Human Physiology	5

4th Semester Courses

BIOSC 055	Beginning Histotechniques	5
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5th Semester Courses

BIOSC 056	Advanced Histotechniques	5
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Any Semester

BIOL 003	Microbiology	5
BIOSC 050 or	Genetic Diseases	4
BIOSC 030	Genomics Theory	4

Final Semester

COPED 476G	Occupational Work Experience in Histotechnology	4
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Total: 58.000 - 59.000

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Merritt College

Illumina HiSeq DNA Sequencing

Overview

College
Originator
Award Type

Merritt - Division III
Nathan Peabody
Certificate of Proficiency

Description

The Illumina HiSeq DNA Sequencing certificate program offers a unique opportunity to study DNA. The central emphasis of this certificate is the mastery of sample preparation and operation, and analysis of DNA using the Illumina HiSeq DNA Sequencer. A Certificate of Proficiency will be awarded upon satisfactory completion of the courses specified below. The Certificate of Proficiency is not indicated on the student's transcript.

Career Opportunities

Laboratory Technician in either a facility that uses any Illumina sequencer or as a laboratory technician in any facility where DNA is analyzed, with special emphasis on high throughput, short read assemblies as well as medical genomics, pathogen analysis and agricultural applications.

Program Learning Outcomes

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

1. Students will be able to prepare samples, operate all relevant devices, interpret data, and trouble shoot problems related to the Illumina HiSeq DNA Sequencer.
 2. Students will be able to design and complete an experiment using the Illumina HiSeq DNA Sequencer, interpret findings and participate in writing a report targeted for a peer-reviewed scientific journal.
-

Degree Requirements:

Certificate of Proficiency		Credit Hours: (16 Required)
BIOSC 030	Genomics Theory	4
BIOSC 032	Good Laboratory Practices in Genomics	1
BIOSC 033	Research Design in Genomics	1
BIOSC 037	Principles of Long Polymerase Chain Reaction (PCR)	1
BIOSC 040	DNA Shearing Techniques for Shotgun Sequencing in Genomics	3
BIOSC 072	DNA Sequencing using Bridge Amplification for the Illumina HiSeq	3
BIOSC 090	Internship in Genomics	3

Total: 16

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Laney College

Industrial Maintenance

Overview

College	Laney - Career and Technical Education
Originator	Adam Balogh
Award Type	Certificate of Achievement

Description

The Laney College Machine Technology Industrial Maintenance is a multi-disciplinary career technical education certificate that prepares students for work in a wide range of industries. The certificate covers mechanics, machining, electrical and welding skills which play a critical role in the industrial maintenance field. Students also receive an OSHA 30-hour industrial safety certificate. The certificate prepares students for entry-level positions performing installation, maintenance and repair operations on industrial equipment (such as blowers, pumps, motors) and infrastructure (such as piping, conveyance systems) in a wide range of industries (such as refineries, utilities, manufacturing plants).

Career Opportunities

industrial maintenance machinist; industrial maintenance technician; pump and motor repair technician Currently and for the foreseeable future, industrial maintenance is a high demand occupation. Demand is driven by moderate growth in the field and an aging workforce with a high percentage of workers facing retirement over the next five years. A recent study by Bayworks (a consortium of water and wastewater utilities covering the nine bay counties) showed 59% of their workforce in the industrial maintenance machinist/mechanic field will be facing retirement in the next five years. Another study by the Industrial Maintenance Machinist group of the Bay Area CTE Deans showed over 900 job openings a year in the Bay Area with wages ranging from \$19.50 an hour to \$31.50 an hour. Currently there are no industrial maintenance training programs in the Bay Area Community Colleges. For the past two years Laney Machine Technology has been working with BayWorks, Bay Ship & Yacht, Shell and Tesoro refineries, Posco Steel, Leslie Salt, Selway Tool, the International Association of Machinist and other large companies to develop the curriculum for this certificate and an advanced second year program. The high demand and high wages in this career field offer a great career opportunity for Laney graduates.

Program Learning Outcomes

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

1. Demonstrate safe work procedures while operating and repairing electrical and mechanical systems including use and disposal of hazardous materials.
2. Develop skills that enable precision and productivity in the repair and setup of mechanical systems.
3. Demonstrate technical literacy in reading and writing technical documents, determining required specifications based on engineering drawings and use of mathematics in problem solving.

Degree Requirements:

Core Courses (24.5 units):		Credit Hours: (24.5 Required)
MACH 205	Engineering Drawings for Machinists, Welders, and Industrial Maintenance Technicians	3
MACH 206	Industrial Hydraulics and Pneumatics	2
MACH 207	Theory, Operation and Maintenance of Mechanical Drives	3
MACH 210	Machine Technology I	5
E/ET 011	Commercial Electricity for HVAC	2
E/ET 203	Basic Electricity	3
E/ET 223	CAL-OSHA 30-Hour Construction Industry Training for Electrical & Electronics Technology2	
WELD 205	Introduction to Welding	3
WELD 215	Welding for ECT Technicians	1.5
Math Requirement (3-4 units):		Credit Hours: (3 - 4 Required)

MATH 220A	and	Technical Mathematics with Algebra - Part 1 (Lab)	0.5
MATH 220B	and	Technical Mathematics with Algebra - Part 2 (Lab)	0.5
MATH 220C	and	Technical Mathematics with Algebra - Part 3 (Lab)	0.5
MATH 220D	and	Technical Mathematics with Algebra - Part 4 (Lab)	0.5
MATH 220E	and	Technical Mathematics with Geometry - Part 1 (Lab)	0.5
MATH 220F	or	Technical Mathematics with Geometry - Part 2 (Lab)	0.5
MATH 221		Technical Mathematics	4

Total: 27.500 - 28.500

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Laney College

Machine Technology

Overview

College	Laney - Career and Technical Education
Originator	Adam Balogh
Award Type	A.S. Degree

Description

The Laney College Machine Technology AS degree is a career technical education program that prepares students for work as a machinist and CNC operator and/or programmer. The degree provides students with the theoretical knowledge and hands-on skills required for precision manufacturing, specifically metalcutting, using both conventional and modern computer numerically controlled (CNC) machine tools. The coursework also covers technical mathematics and a survey of welding processes.

Career Opportunities

machinist, manual machinist, CNC machinist, CNC machine operator, CNC setup technician, CNC programmer

Program Learning Outcomes

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

1. Demonstrate safe work procedures while operating hand tools and machine tools, as well as use of personal protective equipment and disposal of hazardous materials.
2. Develop a foundation of skills for operating conventional and CNC machine tools to manufacture and repair parts to meet engineering specifications.
3. Demonstrate technical literacy in reading and writing technical documents, determining required specifications based on engineering drawings, applying mathematics in problem solving and using computer software in design and manufacture.

Degree Requirements:

Core Courses (33 units):		Credit Hours: (0 Required)
MACH 020	CAD Solid Modeling with Solidworks	4
MACH 030	Introduction to CNC Programming	4
MACH 031	Advanced CNC and CAD/CAM Programming	4
MACH 205	Engineering Drawings for Machinists, Welders, and Industrial Maintenance Technicians	3
MACH 210	Machine Technology I	5
MACH 220	Machine Technology II	5
MACH 230	Machine Technology III	5
WELD 205	Introduction to Welding	3
Math Requirement (4 units):		Credit Hours: (0 Required)
MATH 220A	Technical Mathematics with Algebra - Part 1 (Lab)	0.5
MATH 220B	Technical Mathematics with Algebra - Part 2 (Lab)	0.5
MATH 220C	Technical Mathematics with Algebra - Part 3 (Lab)	0.5
MATH 220D	Technical Mathematics with Algebra - Part 4 (Lab)	0.5
MATH 220E	Technical Mathematics with Geometry - Part 1 (Lab)	0.5
MATH 220F	Technical Mathematics with Geometry - Part 2 (Lab)	0.5
MATH 220G or	Technical Mathematics with Trigonometry (Lab)	1
MATH 221	Technical Mathematics	4

Total Major Units:	Credit Hours: (0 Required)	37
General Education Requirements	Credit Hours: (0 Required)	19
Electives to meet 60 units	Credit Hours: (0 Required)	
Total Units:	Credit Hours: (60 Required)	60
	Total: 60	

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Laney College

Machine Technology

Overview

College	Laney - Career and Technical Education
Originator	Adam Balogh
Award Type	Certificate of Achievement

Description

The Laney College Machine Technology CA is a career technical education program that prepares students for work as a machinist and CNC operator and/or programmer. The certificate provides students with the theoretical knowledge and hands-on skills required for precision manufacturing, specifically metalcutting, using both conventional and modern computer numerically controlled (CNC) machine tools. The coursework also covers technical mathematics and a survey of welding processes.

Career Opportunities

machinist, manual machinist, CNC machinist, CNC machine operator, CNC setup technician, CNC programmer

Program Learning Outcomes

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

1. Demonstrate safe work procedures while operating hand tools and machine tools, as well as use of personal protective equipment and disposal of hazardous materials.
2. Develop a foundation of skills for operating conventional and CNC machine tools to manufacture and repair parts to meet engineering specifications.
3. Demonstrate technical literacy in reading and writing technical documents, determining required specifications based on engineering drawings, applying mathematics in problem solving and using computer software in design and manufacture.

Degree Requirements:

Core Courses (33 units):		Credit Hours: (33 Required)
MACH 020	CAD Solid Modeling with Solidworks	4
MACH 030	Introduction to CNC Programming	4
MACH 031	Advanced CNC and CAD/CAM Programming	4
MACH 205	Engineering Drawings for Machinists, Welders, and Industrial Maintenance Technicians	3
MACH 210	Machine Technology I	5
MACH 220	Machine Technology II	5
MACH 230	Machine Technology III	5
WELD 205	Introduction to Welding	3
Math Requirement (4 units):		Credit Hours: (4 - 7 Required)
MATH 220A	Technical Mathematics with Algebra - Part 1 (Lab)	0.5
MATH 220B	Technical Mathematics with Algebra - Part 2 (Lab)	0.5
MATH 220C	Technical Mathematics with Algebra - Part 3 (Lab)	0.5
MATH 220D	Technical Mathematics with Algebra - Part 4 (Lab)	0.5
MATH 220E	Technical Mathematics with Geometry - Part 1 (Lab)	0.5
MATH 220F	Technical Mathematics with Geometry - Part 2 (Lab)	0.5
MATH 220G or	Technical Mathematics with Trigonometry (Lab)	1
MATH 221	Technical Mathematics	4

Merritt College

Mathematics

Overview

College	Merritt - Division II
Originator	Rebecca Uhlman
Award Type	A.S. Degree

Codes and Dates

Curriculum Committee Approval Date	11/18/2021
Current Effective Date	1/01/2022
Program Control Number	01218
Top Code	1701.00 - Mathematics, General

Description

The AS degree in Mathematics will be awarded upon satisfactory completion of the Major course requirements and the General Education requirements.

Career Opportunities

Accounting and Finance: Accounts payable or receivables clerk, assistant to a CPA Insurance: Sales agent, Claims adjuster Operations: Operations assistant

Program Learning Outcomes

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

1. Express mathematical concepts and techniques clearly and concisely using symbolic and ordinary language.
2. Use quantitative reasoning to solve a variety of mathematical problems in the workplace and in the home.
3. Demonstrate mastery of the various mathematical concepts and techniques needed to succeed in subsequent courses of increasing complexity.

Degree Requirements:

Select at least one course from the following:

Credit Hours: (4 - 5 Required)

Degree Major Requirements:

MATH 001	Pre-Calculus	4
MATH 003A	Calculus I	5

Select remaining units from the following:

Credit Hours: (13 - 14 Required)

MATH 002	Precalculus with Analytic Geometry	5
MATH 003B	Calculus II	5
MATH 003C	Calculus III	5
MATH 003D	Linear Algebra and Differential Equations	5
MATH 013	Introduction to Statistics	4
MATH 015	Mathematics for Liberal Arts Students	3
MATH 016A	Calculus for Business and Life/Social Sciences	3
MATH 016B	Calculus for Business and Life/Social Sciences	3
MATH 050	Trigonometry	3
MATH 202	Geometry	0

MATH 203

Intermediate Algebra

0

Total: 17.000 - 19.000

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Merritt College

Medical Genomics

Overview

College
Originator
Award Type

Merritt - Division III
Gisele Giorgi
Certificate of Achievement

Description

The Certificate in Medical Genomics offers an unique opportunity to study DNA, from a medical perspective. SNP detection and genetic disease detection will be emphasized, along with bacterial and viral disease identification. Mastery of sample preparation, operation, and analysis of DNA using the most modern sequencers and preparatory instruments will be emphasized.

Career Opportunities

General medical bio technician, computer science technician, biotech sales representative, medical laboratory technician, water and food safety technician, pharmacology technician.

Program Learning Outcomes

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

1. Students will be able to prepare samples, operate all relevant devices, interpret data, and trouble shoot problems related to contemporary DNA Sequencing.
2. Students will be able to assess genetic abnormalities via SNP detection.
3. Students will demonstrate a knowledge of genetic diseases including their symptoms and treatments, societal impact, and diagnosis..

Degree Requirements:

Credit Hours: (36 Required)

CHEM 030A	Introductory General Chemistry	4
CHEM 030B	Introductory Organic and Biochemistry	4
BIOL 004	Human Physiology	5
BIOSC 030	Genomics Theory	4
BIOSC 031	Advanced Genomics Theory	4
BIOSC 032	Good Laboratory Practices in Genomics	1
BIOSC 037	Principles of Long Polymerase Chain Reaction (PCR)	1
BIOSC 040	DNA Shearing Techniques for Shotgun Sequencing in Genomics	3
BIOSC 041	Microfluidic Electrophoresis	1
BIOSC 042	Mining GenBank	3
BIOSC 060	Personalized (Desk-top) Sequencing	3
BIOSC 033	Research Design in Genomics	1
BIOSC 050	Genetic Diseases	4
BIOSC 051	Medical Genomics	3
BIOSC 090	Internship in Genomics	3

Credit Hours: (3 Required)

BIOSC 061	Sequence Analysis Using MacVector	1
BIOSC 062	Methodologies in Phylogenetics Using PAUP	1
BIOSC 063	Introduction to Character Tracing Using MacClade	1

Total: 47

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Laney College

Music Industry

Overview

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

Codes and Dates

State Approval Date	5/09/2019
Curriculum Committee Approval Date	10/16/2020
Board of Trustees Date	12/14/2020
Current Effective Date	1/01/2021
Program Control Number	36572
Top Code	1005.00* - Commercial Music

Description

The Associate in Arts Degree in Music Industry Studies is designed for music students whose career goals are focused on the recording industry, concert promotions, and other commercial ventures. Students will explore aspects of the music production process including: recording, marketing, and distribution.

Career Opportunities

Audio Engineer, Digital Sound Editor, Small Business Entrepreneur, Concert Promoter, Manager, Event Producer, Arranger, Songwriter.

Program Learning Outcomes

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

1. Students will employ proper audio engineering and midi techniques to produce sound recording projects.
2. Students will create original music projects in line with current industry standards.
3. Analyze a situation in the music industry and recommend a solution or plan for improvement.

Degree Requirements:

Group 1: Core Courses (11 units):		Credit Hours: (0 Required)
MUSIC-CM 001A	Beginning MIDI and Electronic Music	3
MUSIC-CM 002A	Introduction to Songwriting	3
MUSIC 149	Music Business	3
MUSIC-CM 003A	Introduction to Live Sound Systems	2
Group 2: Electives (9 units from the following):		Credit Hours: (0 Required)
MUSIC-CM 460	Occupational Work Experience in Commercial Music	1 - 4
MEDIA 111	Basic Audio Production	3
MEDIA 122	Music Video Production	3
MEDIA 150	Pro Tools: Sound Design/Aesthetics for Video, Broadcast and Digital Cinematography	3
MEDIA 155	Basic Sound Recording and Music Video	3
MEDIA 156	Sound Mixing and Mastering	3
MUSIC 101	Music Theory and Culture I	3
MUSIC 105	Classic Guitar I	1
MUSIC 117	Voice I	1

MUSIC 121	Music Skills I	1
MUSIC 130	Elementary Piano Method I	1
MUSIC-CM 001B	Intermediate MIDI and Electronic Music	3
MUSIC-CM 001C	Advanced MIDI and Electronic Music	3
MUSIC-CM 002B	Intermediate Songwriting	3
MUSIC 151	Pop Music Ensemble	1
MUSIC-CM 003B	Intermediate Sound Systems	2

Total Major Units: **Credit Hours:** (0 Required)
 Total Major Units: 20

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

Credit Hours: (0 Required)

Elective courses to meet 60

Credit Hours: (60 Required)

Total Units: 60

Total: 60

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Laney College

Music Industry

Overview

College	Laney - Liberal Arts
Originator	John Reager
Award Type	Certificate of Achievement

Codes and Dates

State Approval Date	5/09/2019
Curriculum Committee Approval Date	5/08/2020
Board of Trustees Date	10/13/2020
Current Effective Date	1/01/2021
Program Control Number	37932
Top Code	1005.00* - Commercial Music

Description

The Music Industry Studies Certificate of Achievement is designed for music students whose career goals are focused on the recording industry, concert promotions, and other commercial ventures. Students will explore aspects of the music production process including: recording, marketing, and distribution.

Career Opportunities

Audio Engineer, Digital Sound Editor, Small Business Entrepreneur, Concert Promoter, Manager, Event Producer, Arranger, Songwriter. Students who receive this degree will be Career opportunities

Program Learning Outcomes

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

1. Students will employ proper audio engineering and midi techniques to produce sound recording projects.
2. Students will create original music projects in line with current industry standards.
3. Analyze a situation in the music industry and recommend a solution or plan for improvement.

Degree Requirements:

Group 1: Core Courses (11 units):	Credit Hours: (11 Required)
MUSIC-CM 001A Beginning MIDI and Electronic Music	3
MUSIC-CM 002A Introduction to Songwriting	3
MUSIC 149 Music Business	3
MUSIC-CM 003A Introduction to Live Sound Systems	2
Group 2: Electives (9 units from the following):	Credit Hours: (9 Required)
MEDIA 111 Basic Audio Production	3
MEDIA 122 Music Video Production	3
MEDIA 150 Pro Tools: Sound Design/Aesthetics for Video, Broadcast and Digital Cinematography	3
MEDIA 155 Basic Sound Recording and Music Video	3
MEDIA 156 Sound Mixing and Mastering	3
MUSIC 101 Music Theory and Culture I	3
MUSIC 105 Classic Guitar I	1
MUSIC 117 Voice I	1
MUSIC 121 Music Skills I	1
MUSIC 130 Elementary Piano Method I	1
MUSIC-CM 001B Intermediate MIDI and Electronic Music	3

MUSIC-CM 001C	Advanced MIDI and Electronic Music	3
MUSIC-CM 002B	Intermediate Songwriting	3
MUSIC 151	Pop Music Ensemble	1
MUSIC-CM 003B	Intermediate Sound Systems	2
MUSIC-CM 460	Occupational Work Experience in Commercial Music	1 - 4

Total: 20

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Merritt College

Personal Trainer

Overview

College	Merritt - Division I
Originator	Alexis Alexander
Award Type	Certificate of Proficiency

Codes and Dates

Curriculum Committee Approval Date	10/23/2021
Board of Trustees Date	3/22/2012
Top Code	0835.20* - Fitness Trainer

Description

The Personal Trainer certificate program prepares students for a career in personal fitness training. The program emphasizes the development of skills and the acquisition of knowledge in the areas of cardiovascular health, strength, flexibility, nutrition programs, exercise science and body composition assessment. Trainers will be ready to apply and interpret this experience and knowledge to provide fitness recommendations for their clients.

Career Opportunities

Career opportunities include Personal Trainer, Aerobics Instructor, Fitness Coordinator, Fitness Director, Fitness Instructor, Fitness Specialist, Fitness Trainer, Group Exercise Instructor, and Group Fitness Instructor.

Program Learning Outcomes

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

1. Perform a comprehensive health-related fitness assessment and design a fitness program for each phase of training.
2. Provide basic nutritional recommendations.
3. Evaluate and perform selected exercises and series of exercises.

Degree Requirements:

Certificate of Proficiency		Credit Hours:	(7.5 Required)
BIOL 024	Basic Human Anatomy and Physiology		4
COMM 020	Interpersonal Communication Skills		3
NUTR 010	Nutrition		4
PE 039	Weight Training		0.5
PE 203	Fitness for Personal Trainers		3
Total:			14.5

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Merritt College

Phylogenetic Analysis

Overview

College	Merritt - Division III
Originator	Nathan Peabody
Award Type	Certificate of Proficiency

Codes and Dates

Curriculum Committee Approval Date	10/13/2016
Board of Trustees Date	11/14/2016
Current Effective Date	1/23/2017
Top Code	0430.00* - Biotechnology and Biomedical Technology

Description

The Certificate of Proficiency in Phylogenetic Analysis is an introduction to phylogenetic analysis, a type of bioinformatics. It is not enough to just sequence DNA. You must also analyze what you have. With billions of bases to analyze, scientists and technicians rely on computers to help understand the data they sequence. Phylogenetics provides a comparative map of the history of life and is used in fields from conservation to pandemics. Students will create phylogenetic maps of species, many of which have never been sequenced. **A Certificate of Proficiency will be awarded upon completion of the requirements below. The Certificate of Proficiency is not indicated on the student's transcript.**

Career Opportunities

Entry-level to advanced biotechnology industry positions, lab technician in labs that assess commonalities and disparities between species.

Program Learning Outcomes

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

1. Perform good laboratory practices in a genomics lab
2. Demonstrate basic laboratory skills for genomics
3. Create and explain an original phylogenetic tree

Degree Requirements:

Required Courses:	Credit Hours: (11 Required)
BIOSC 030 Genomics Theory	4
BIOSC 031 Advanced Genomics Theory	4
BIOSC 042 Mining GenBank	3
Choose BIOSC 061, 062, and 063 OR BIOSC 039:	Credit Hours: (3 - 4 Required)
BIOSC 061 and Sequence Analysis Using MacVector	1
BIOSC 062 and Methodologies in Phylogenetics Using PAUP	1
BIOSC 063 or Introduction to Character Tracing Using MacClade	1
BIOSC 039 Comparative Genomics and Phylogenetics	4

Total: 14.000 - 15.000

Laney College

Quality Control

Overview

College	Laney - Career and Technical Education
Originator	Adam Balogh
Award Type	Certificate of Achievement

Description

The Laney College Quality Control Certificate of Achievement is a career technical education program that prepares students for work as a quality control (QC) technician or quality assurance (QA) technician. The certificate provides students with the theoretical knowledge and hands-on skills required for precision measurement of manufactured parts according to specifications in engineering drawings using hand tools and sophisticated modern equipment like coordinate measuring machines (CMMs). The coursework also covers technical mathematics and a survey of machining processes.

Career Opportunities

quality control (QC) technician, quality assurance (QA) technician

Program Learning Outcomes

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

1. Develop a foundation of skills for using precision measuring tools and metrology equipment to inspect parts and assemblies and ensure they meet engineering specifications.
2. Demonstrate technical literacy in reading and writing technical documents, determining required specifications based on engineering drawings, developing inspection plans, applying statistical process control, applying mathematics in problem solving.
3. Demonstrate effective work practices for inspection rooms, including: establishment of good lab practices, proper care and maintenance of measuring tools, calibration of tools and equipment.

Degree Requirements:

Core Courses (16 units):		Credit Hours: (16 Required)
MACH 075	Geometric Dimensioning and Tolerancing	2
MACH 205	Engineering Drawings for Machinists, Welders, and Industrial Maintenance Technicians	3
MACH 210	Machine Technology I	5
MACH 211	Dimensional Metrology	3
MACH 212	Introduction to Quality Assurance	3
Math Requirement (4 units):		Credit Hours: (4 Required)
MATH 220A	Technical Mathematics with Algebra - Part 1 (Lab)	0.5
MATH 220B	Technical Mathematics with Algebra - Part 2 (Lab)	0.5
MATH 220C	Technical Mathematics with Algebra - Part 3 (Lab)	0.5
MATH 220D	Technical Mathematics with Algebra - Part 4 (Lab)	0.5
MATH 220E	Technical Mathematics with Geometry - Part 1 (Lab)	0.5
MATH 220F	Technical Mathematics with Geometry - Part 2 (Lab)	0.5
MATH 220G or	Technical Mathematics with Trigonometry (Lab)	1
MATH 221	Technical Mathematics	4
		Total: 20

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Laney College

Research Skills

Overview

College	Laney - Mathematics and Sciences
Originator	Yiping Wang
Award Type	Certificate of Competency

Codes and Dates

State Approval Date	4/15/2019
Curriculum Committee Approval Date	11/30/2018
Board of Trustees Date	1/08/2019
Current Effective Date	6/01/2019
Program Control Number	37796
Top Code	4930.14 - Study Skills

Description

The Certificate of Competency in Research Skills is designed to provide students with a foundation in information literacy, critical thinking, ethical use of information, and research. This certificate is intended to improve the research and information literacy skills of student desiring to increase their capacity for pursuing college-level coursework, gaining employment in today's digital workforce, and community engagement. Students enrolled in the Research Skills program may use the certification as a means of providing college instructors and employers of their ability to find, evaluate, and use credible and relevant information in an ethical manner.

Career Opportunities

n/a

Program Learning Outcomes

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

1. Apply information literacy skills to academic, professional, and personal life.
2. Analyze, synthesize, and apply information practically and ethically.

Degree Requirements:

Courses (min 9 hours)	Noncredit: (9.1 Required)
<i>Students must complete a minimum of 9 class hours</i>	
LIS 511 Research Skills I	3.01
LIS 512 Research Skills II	3.01
LIS 513 Research Skills III	3.01
Competency Requirement:	Noncredit: (0 Required)
Teacher or department will determine if student has met the competencies of the program and document it.	0
Total: 9.1	

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Merritt College

Research Skills

Overview

College	Merritt - Division I
Originator	Nghiem Thai
Award Type	Certificate of Competency

Codes and Dates

Curriculum Committee Approval Date	11/18/2021
Current Effective Date	8/01/2022
Program Control Number	37798
Top Code	4930.14 - Study Skills

Description

The Certificate of Competency in Research Skills is designed to provide students with a foundation in information literacy, critical thinking, ethical use of information, and research. This certificate is intended to improve the research and information literacy skills of students desiring to increase their capacity for pursuing college-level coursework, gaining employment in today's digital workforce, and community engagement. Students enrolled in the Research Skills program may use the certification to demonstrate to college instructors and employers their ability to find, evaluate, and use credible and relevant information in an ethical manner.

Students are required to complete three courses for a total of nine (9) instructional hours. Each course must be completed with a grade of Pass or Satisfactory Progress.

Career Opportunities

Any occupations in the educational, financial, legal, and medical fields that involve observing, receiving, and otherwise obtaining information.

Program Learning Outcomes

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

1. Apply information literacy skills to academic, professional, and personal life.
2. Complete a basic research project from topic development to information source selection, evaluation, and citation.
3. Analyze, synthesize, and apply information practically and ethically.

Degree Requirements:

Required Courses		Noncredit:	(9.1 Required)
LIS 511	Research Skills I		3.01
LIS 512	Research Skills II		3.01
LIS 513	Research Skills III		3.01

Total: 9.1

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Merritt College

Social And Behavioral Sciences

Overview

College	Merritt - Division I
Originator	Janine Nkosi
Award Type	A.A. Degree

Description

The Associate in Arts in Social and Behavioral Sciences degree program provides students with a broad perspective on human behavior. It is designed to stimulate appreciation for, and understanding of, values, ideas, and artifacts of culture and society. Critical thinking skills and self-understanding through these courses provide a framework for lifelong study and meaningful social change. Successful completion of the curriculum in Social and Behavioral Sciences offers students a breadth of knowledge that could be focused into single discipline degrees as well as applied to an interdisciplinary degree. The degree is intended for those who are considering transfer but have not decided on a major or for those who are required to complete a degree for job promotion. In all cases, students should consult with a counselor to develop their own program of study.

For the Associate in Arts Degree in Social and Behavioral Sciences, students must complete 18 units from at least two discipline areas listed below, the General Education pattern, and any needed electives for a total of 60 units. Students must receive a minimum grade of "C" or better in all courses for their major in order to qualify for the degree. As this degree alone may not be complete preparation for transfer, students wishing to transfer to a 4-year institution should meet with a counselor to develop a plan which addresses all transfer requirements.

Career Opportunities

The degree is intended for those who are considering transfer but have not decided on a major; those who are required to complete a degree for job promotion; or individuals who may wish to further their education and are considering a major that is interdisciplinary in focus. This degree provides a foundation for future study and potential careers such as health and human services, education, intelligence analyst, client service specialist, business development manager, a project manager, web developer, technical writer, advertising or marketing, paralegal or legal assistant, public relations, and human resources.

Program Learning Outcomes

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

1. Implement core concepts, theories, skills, and perspectives from various disciplines within Social Sciences for personal and professional growth.
2. Critically evaluate the diversity of human behavior and experience in order to better understand cultures and society.
3. Critically analyze community and/or societal issues from varying perspectives to advance social, economic and/or environmental justice.

Degree Requirements:

Major Core Courses Credit Hours: (3 Required)

Group A: Select one course for 3 units from the following:

POSCI 001	or	Government and Politics in the United States	3
POSCI 002	or	Comparative Government	3
POSCI 005	or	American Politics and Minority Groups	3

Major Core Courses Credit Hours: (3 Required)

Group B: Select one course for 3 units from the following:

PSYCH 001A	or	Introduction to General Psychology	3
PSYCH 006	or	Social Psychology	3
PSYCH 010	or	Psychology and Life: Basic Principles	3
PSYCH 012	or	Human Sexuality	3
PSYCH 028	or	Introduction to Research Methods in Psychology	3

Major Core Courses Credit Hours: (3 Required)

Group C: Select one course 3 units from the following:

SOC 001	or	Introduction to Sociology	3
SOC 002	or	Social Problems	3

Major Electives Credit Hours: (9 Required)

Select three courses for 9 units from any Group A, B, or C course not already used or the following:

Note: A maximum of 6 units from any one discipline can count toward the degree. Students who develop an interest in one area should consult with a cou

ADJUS 021	Introduction to Administration of Justice	3
AFRAM 016	The Prison Industrial Complex: African American Incarceration	3
AFRAM 019	Racism in the United States	3
AFRAM 030	African-American History: Africa to 1865	3
AFRAM 031	African-American History: 1865-1945	3
AFRAM 038	Environmental Racism and Justice	3
ANTHR 003	Introduction to Social and Cultural Anthropology	3
ANTHR 005	American Indian History and Culture	3
ANTHR 007	Magic, Religion and Witchcraft	3
ASAME 030	Asians and Asian-Americans Through Films	3

ASAME 032	Asian-American Psychology	3
ASAME 045A	Asian-American History to 1945	3
ASAME 045B	Asian-American History from 1945 to the Present	3
COMM 006	Intercultural Communication	3
COMM 010	Gender and Communication	3
COMM 020	Interpersonal Communication Skills	3
ECON 001	Principles of Economics (Macro-Economics)	3
ECON 002	Principles of Economics (Micro-Economics)	3
ENVMT 002	Introduction to Sustainable Environmental Systems	3
GEOG 002	Cultural Geography	3
HIST 007A	History of the United States to 1877	3
HIST 007B	History of the United States Since 1865	3
HLTED 001	Exploring Health Issues	3
M/LAT 012	United States Relations with Mexico and Latin America	3
POSCI 001	Government and Politics in the United States	3
POSCI 002	Comparative Government	3
POSCI 005	American Politics and Minority Groups	3
PSYCH 001A	Introduction to General Psychology	3
PSYCH 006	Social Psychology	3
PSYCH 010	Psychology and Life: Basic Principles	3
PSYCH 012	Human Sexuality	3
PSYCH 028	Introduction to Research Methods in Psychology	3
SOC 001	Introduction to Sociology	3
SOC 002	Social Problems	3

Total: 18

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Laney College

Social Sciences

Overview

College	Laney - Humanities, Social Sciences
Originator	Felipe Wilson
Award Type	A.A. Degree

Codes and Dates

State Approval Date	5/03/2019
Curriculum Committee Approval Date	2/22/2019
Board of Trustees Date	3/26/2019
Current Effective Date	6/01/2019
Program Control Number	19059
Top Code	2201.00 - Social Sciences, General

Description

These courses emphasize a multidisciplinary approach to the understanding and study of human behavior and social organization. Students study and analyze human societies; the institutions, organizations and groups that comprise them; and the way individuals and groups relate to one another. Students develop an understanding of the various theories and methodologies of the disciplines, as well as skills in applying their knowledge in critical and useful ways as they navigate their own lives within a constantly changing and complex social world.

For the Associate of Social Sciences, students must complete the General Education pattern and elective courses for an additional 42 units. Students must complete 18 units in the area of emphasis courses with a grade of "C" or better, 19 units of general education requirements, and an additional 23 units of elective courses for a total 60 units. As this degree alone may not be complete preparation for transfer, students wishing to continue at the UC or CSU system should meet with a counselor to develop a transfer plan which addresses all general education and lower-division transfer requirements.

Career Opportunities

Rather than career preparation, this curriculum is intended to prepare students for transfer to four year institutions with the benefit of introductory diverse course work.

Program Learning Outcomes

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

1. Apply and communicate discipline-appropriate approaches to critically analyze and evaluate social processes and structures.
2. Apply and communicate social science methodologies in the analysis and evaluation of the consequences of social actions or forces and their impact upon individuals and social structures.
3. Apply and communicate analyses and evaluation of the foundations, opportunities, and challenges of diversity within the human experience.

Degree Requirements:

Select 18 units from at least TWO discipline areas (18 units): **Credit Hours:** (0 Required)
 * or ** or *** or **** *Students will receive credit for one course only.*

AFRAM		Credit Hours: (0 Required)
AFRAM 001	Introduction to African American Studies	3
AFRAM 002	Black Economics	3
AFRAM 005	The African American Family in the United States	3
AFRAM 008	African-American Politics	3
AFRAM 011	Perceptions of the African American Male in America	3
AFRAM 012	Psychology of African Americans	3

AFRAM 014A	Social Psychology of African American Male/Female Relationships	3
AFRAM 016	The Prison Industrial Complex: African American Incarceration	3
AFRAM 018	African Heritage of Latin America	3
AFRAM 023	Perceptions of African American Women	3
AFRAM 030	African American History: Africa to 1865	3
AFRAM 031	African American History: 1865-1945	3
AFRAM 035	Women of Color	3
AFRAM 038	Environmental Racism and Justice	3
AFRAM 045	Religion and the African American Church in America	3
ANTHR		Credit Hours: (0 Required)
ANTHR 002	Introduction to Archaeology and Prehistory	3
ANTHR 003	Introduction to Social and Cultural Anthropology	3
ANTHR 007	Magic, Religion and Witchcraft	3
ANTHR 014	Introduction to the Anthropology of Race, Class, Ethnicity, and Society	3
ASAME		Credit Hours: (0 Required)
ASAME 021	Asian-American Communities	3
ASAME 026	Politics in Modern Asia	3
ASAME 030	Asians and Asian-Americans Through Films	3
ASAME 032	Asian-American Psychology	3
ASAME 035	Women of Color	3
ASAME 045A	Asian-American History to 1945	3
ASAME 045B	Asian American History From 1945 to the Present	3
BIOL		Credit Hours: (0 Required)
BIOL 027	Human Sexuality	3
BUS		Credit Hours: (0 Required)
BUS 005	Human Relations in Business	3
COMM		Credit Hours: (0 Required)
COMM 019	Survey of Mass Media	3
COUN		Credit Hours: (0 Required)
COUN 030	Personal Growth and Development	3
COUN 230	Strategies for Personal Development	3
CULIN		Credit Hours: (0 Required)
CULIN 088	Introduction to Food and Culture	3
ECOMN		Credit Hours: (0 Required)
ECON 001	Principles of Economics (Macro-Economics)	3
ECON 002	Principles of Economics (Micro-Economics)	3
ENGIN		Credit Hours: (0 Required)
ENGIN 100	Earth Systems: Sustainability, Ecology & Environmental Justice for Technicians & Engineers	3
ETHST		Credit Hours: (0 Required)
ETHST 001	Introduction to Ethnic Studies	3
ETHST 003	Race, Gender and Sports	3

ETHST 012	Economics and Social Change: Racial Conflict and Class in America	3
ETHST 013	Introduction to Community Based Research in Urban America	3
ETHST 014	Community Building and Transformation in Urban America	3
ETHST 030	Introduction to Race, Gender and Health	3
ETHST 050	Introduction to Race, Class and Schools	3
GEOG		Credit Hours: (0 Required)
GEOG 001	Physical Geography	3
GEOG 002	Cultural Geography	3
GEOG 003	World Regional Geography	3
GEOG 018	California Geography	3
HLTED		Credit Hours: (0 Required)
HLTED 001	Exploring Health Issues	3
HIST		Credit Hours: (0 Required)
HIST 002A	History of Europe to 1500	3
HIST 002B	History of Europe Since 1500	3
HIST 003A	World History to 1500	3
HIST 003B	World History Since 1500	3
HIST 007A	History of the United States to 1877	3
HIST 007B	History of the United States Since 1865	3
HIST 019	History of California	3
JOURN		Credit Hours: (0 Required)
JOURN 062	Survey of Mass Media	3
LABST		Credit Hours: (0 Required)
LABST 010	American Labor Movement	3
LABST 013	Economics for Labor and Community Leadership	3
LABST 021	Workplace Organizing	3
LABST 030	Labor Law	3
M/LAT		Credit Hours: (0 Required)
M/LAT 012	United States Relations with Mexico and Latin America	3
M/LAT 019	History of the Mexican American	3
M/LAT 023	Psychology of Latinas and Latinos	3
M/LAT 031	Survey of Chicana/Latina Women	3
M/LAT 032	African Heritage of Latin America	3
M/LAT 033	Introduction to Chicana/o and Latina/o Studies	3
M/LAT 034	History of Latinos in the United States: 1800 to Present	3
M/LAT 035	Women of Color	3
NATAM		Credit Hours: (0 Required)
NATAM 001	History of Native American Indians	3
NATAM 002	Native American Indians in Contemporary Society	3
NATAM 035	Women of Color	3
POSCI		Credit Hours: (0 Required)
POSCI 001	Government and Politics in the United States	3

POSCI 002	Comparative Government	3
POSCI 003	International Relations	3
POSCI 004	Political Theory	3
POSCI 006	The U.S. Constitution and Criminal Due Process	3
POSCI 016	State and Local Government	3
POSCI 021	Overview of the California Court System and State Law	3
PSYCH		Credit Hours: (0 Required)
PSYCH 001A	Introduction to General Psychology	3
PSYCH 006	Social Psychology	3
PSYCH 007A	Psychology of Childhood	3
PSYCH 012	Human Sexuality	3
PSYCH 021	Lifespan Human Development	3
PSYCH 024	Abnormal Psychology	3
PSYCH 028	Introduction to Research Methods in Psychology	3
SOC		Credit Hours: (0 Required)
SOC 001	Introduction to Sociology	3
SOC 002	Social Problems	3
SOC 005	Minority Groups	3
SOC 008	Crime and Deviance	3
SOC 013	Sociology of the Family	3
SOC 120	Introduction to Research Methods	3
SOCS		Credit Hours: (0 Required)
SOCS 019	Introduction to Global Studies	3
SOCS 020	Global Issues	3
		Credit Hours: (0 Required)
Total Major Units:		18
		Credit Hours: (0 Required)
General Education Requirements:		19
		Credit Hours: (0 Required)
Electives to meet 60 units:		
		Credit Hours: (60 Required)
Total Units:		60
		Total: 60

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Merritt College

Urban Agroecology

Overview

College	Merritt - Division II
Originator	Benjamin Nelson
Award Type	Certificate of Achievement

Codes and Dates

State Approval Date	2/20/2021
Curriculum Committee Approval Date	11/12/2020
Board of Trustees Date	1/19/2021
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		4

ENVMT 003	Social Issues in Agriculture	3
ENVMT 005	Bay Area Food Culture	3
ENVMT 012 or	Environmental Racism and Justice	3
AFRAM 038	Environmental Racism and Justice	3
ENVMT 035	Introduction to Urban Agroecology	3

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

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 2 units.*

BIOL 005	Botany	4
BIOL 015	Environmental Biology	3
BIOL 029	Introduction to Biodiversity	4
BIOL 061H	Natural History of the Bay Area: Butterflies and Moths	2
ENVMT 008	Introduction to Outdoor Education	3
ENVMT 014	Environmental Impact Reports	2
ENVMT 039C	Geographical Information Systems Applications	4
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
ENVMT 476F	Occupational Work Experience in Environmental Management	1 - 4
GEOG 001	Physical Geography	3
GEOL 021	Bay Area Field Studies	1 - 2
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

Berkeley City College

Psychology

Overview

College	BCC - Liberal Arts and Social Sciences
Originator	Melina Bersamin
Award Type	AA-T Degree

Codes and Dates

State Approval Date	1/05/2017
Curriculum Committee Approval Date	11/13/2014
Board of Trustees Date	1/27/2015
Current Effective Date	8/01/2022
Program Control Number	31026
Top Code	2001.00 - Psychology, General

Description

The Associate in Arts in Psychology for Transfer Degree is designed for students planning to transfer into the psychology major. A study of psychology is built upon the scientific study of human behavior and mental processes. Students pursuing the AA-T in Psychology will study the nature of consciousness and the development of the person; basic processes of human perception, learning, cognition and motivation; the relationship of behavior to physiology; and the nature of psychological disorders and how psychologists use their knowledge to help improve the quality of people's lives.

Students who successfully complete the AA-T in Psychology earn specific guarantees for transfer to the CSU system: admission to a CSU with junior status and priority admission to a CSU campus and to a program or major in psychology 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) 19-20 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

N/A

Program Learning Outcomes

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

1. Analyze major psychological theories and concepts.
2. Read critically and write effective essays.
3. Analyze and utilize empirical findings.

Degree Requirements:

Required courses	Credit Hours:	(0 Required)
PSYCH 001A Introduction to General Psychology		3
PSYCH 021 Lifespan Human Development		3
MATH 013 Introduction to Statistics		4
PSYCH 028 Introduction to Research Methods in Psychology		3
Select One.	Credit Hours:	(0 Required)
BIOL 010 or Introduction to Biology		4
PSYCH 061 Introduction to Biological Psychology		3
Select One.	Credit Hours:	(0 Required)
PSYCH 006 or Social Psychology		3
SOC 001 Introduction to Sociology		3
Total Required Units in Major	Credit Hours:	(0 Required)
Total Required Units in Major		22 - 23
IGETC or CSU GE-Breadth Education pattern and elective courses	Credit Hours:	(0 Required)
Units Required		37 - 38
Total Units Required for Degree	Credit Hours:	(60 Required)

Total: 60

Berkeley City College

Research Skills

Overview

College	BCC - Office of Instruction
Originator	Jenny Yap
Award Type	Certificate of Competency

Codes and Dates

State Approval Date	4/15/2019
Curriculum Committee Approval Date	11/15/2018
Board of Trustees Date	1/08/2019
Current Effective Date	8/01/2019
Program Control Number	37797
Top Code	4930.14 - Study Skills

Description

The Certificate of Competency in Research Skills is designed to provide students with a foundation in information literacy, critical thinking, ethical use of information, and research. This certificate is intended to improve the research and information literacy skills of students desiring to increase their capacity for pursuing college-level coursework, gaining employment in today's digital workforce, and community engagement. Students enrolled in the Research Skills program may use the certification as a means of providing college instructors and employers of their ability to find, evaluate, and use credible and relevant information in an ethical manner.

Students are required to complete three courses for a total of nine (9) instructional hours. Each course must be completed with a grade of Pass.

Career Opportunities

Any occupations in the educational, financial, legal, and medical fields that involve observing, receiving, and otherwise obtaining information.

Program Learning Outcomes

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

1. Apply information literacy skills to academic, professional, and personal life.
 2. Complete a basic research project from topic development to information source selection, evaluation, and citation.
 3. Analyze, synthesize, and apply information practically and ethically.
-

Degree Requirements:

Required Courses		Noncredit: (9.1 Required)
LIS 511	Research Skills I	3.01
LIS 512	Research Skills II	3.01
LIS 513	Research Skills III	3.01
		Total: 9.1

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Berkeley City College

Social and Human Service Work Readiness

Overview

College	BCC - Liberal Arts and Social Sciences
Originator	Melina Winterton
Award Type	Certificate of Completion

Codes and Dates

Current Effective Date	8/01/2022
Top Code	2104.00* - Human Services

Description

Students who complete the Social and Human Service Work Readiness Certificate of Completion receive training on individual and group facilitation skills, fundamentals of the referral process, mental health crisis management, and wellness recovery action plans (WRAP) and qualify to receive the nationally recognized Mental Health First Aid (MHFA) certificate. A significant portion of the training covers trauma-informed self-care and successful personal/professional boundary setting. This program is required training for students in work-based learning opportunities as Mental Health Ambassadors at Berkeley City College.

The MHFA credential and specific skills-training provides students with the ability to empower fellow students with skills to successfully persist and complete their academic journey. Participants will learn to lead peer-to-peer support groups and provide 1:1 peer-support sessions. Students who complete this program will be able to demonstrate their training has met national standards for Mental Health First Aid, and many core competencies for Peer Support Specialists, which enhances their ability to find employment in a variety of social and human service settings.

Career Opportunities

Peer Support Specialist Community Health Worker Family Advocate or Support Worker Community Health Advocate or Aide Peer Counselor or Educator Public Health Aide Social Worker Assistant Street Outreach Worker Wellness Ambassador Women's Health Advocate Youth Worker

Program Learning Outcomes

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

1. Demonstrate fundamental understanding of mental health crisis management, including obtaining the Mental Health First Aid Certificate (MHFA) issues by the National Council on Mental Wellbeing
 2. Demonstrate awareness of trauma-informed self-care
 3. Demonstrate entry-level group and individual facilitation skills.
-

Degree Requirements:

Required Courses	Noncredit:	(52.5 Required)
HUSV 510A and Mental Health Ambassador Training I		24.5
HUSV 510B Mental Health Ambassador Training II		28
		Total: 52.5

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Berkeley City College

Social Work and Human Services

Overview

College	BCC - Liberal Arts and Social Sciences
Originator	Linda McAllister
Award Type	AA-T Degree

Codes and Dates

Current Effective Date	8/01/2022
Top Code	2104.00* - Human Services

Description

The Associate in Arts in Social Work and Human Services for Transfer Degree is designed for students who plan to transfer to a four-year institution as Social Work and Human Services majors. In this program, the students gain exposure to the field of social and human service work.

Students who successfully complete the AA-T in Social Work and Human Services earn specific guarantees for transfer to the CSU system: admission to a CSU with junior status and priority admission to a CSU campus and to a program or major in Social Work and Human Service 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 Inter-segmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements and (2) 28 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. For a more detailed description of Associate Degrees for Transfer, see "Associate Degrees for Transfer (ADT) to a California State University" on page XX.

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

Adoption Social Worker, Case Manager, Case Worker, Child Protective Services Social Worker (CPS Social Worker), Family Protection Specialist, Family Resource Coordinator, Family Service Worker, Foster Care Social Worker, School Social Worker, Youth Services Specialist, Case Manager, Clinical Social Worker, Clinical Therapist, Clinician, Counselor, Licensed Clinical Social Worker (LCSW), Mental Health Therapist, Social Worker, Substance Abuse Counselor, Therapist, Clinical Social Worker, Hospice Social Worker, LMSW (Licensed Master Social Worker), Medical Social Worker, Nephrology Social Worker, Oncology Social Worker, Psychosocial Coordinator, Renal Social Worker, Social Work Case Manager, Social Worker

Program Learning Outcomes

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

1. Students will develop an understanding of the historical context of social work.
2. Students will learn how to apply critical analysis in assessing client needs.

Degree Requirements:

Required Courses	Credit Hours: (22 Required)
HUSV 121 and Introduction to Social Work and Human Services	3
HUSV 120A and Social Work and Human Services Seminar	1
HUSV 120B and Social Work and Human Services Fieldwork	2
MATH 013 and Introduction to Statistics	4
SOC 001 and Introduction to Sociology	3
PSYCH 001A and Introduction to General Psychology	3
BIOL 025 and Human Biology	3
ECON 001 or Principles of Economics (Macro-Economics)	3
ECON 002 Principles of Economics (Micro-Economics)	3

Select two courses from the following:	Credit Hours: (6 Required)
COMM 006 or Intercultural Communication	3
SOC 002 or Social Problems	3
SOC 005 or Minority Groups	3
ANTHR 003 or Introduction to Social and Cultural Anthropology	3
CHDEV 051 or Child Growth and Development	3
ENGL 005 or Critical Thinking in Reading and Writing	3
HIST 007A or History of the United States to 1877	3
HIST 007B or History of the United States Since 1865	3
PSYCH 021 Lifespan Human Development	3

Major Requirements: 28 units

Credit Hours: (0 Required)

General Education (IGETC or CSU GE) and Electives

Credit Hours: (32 Required)

Total Units

Credit Hours:

Total: 60

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Berkeley City College

Tutor Training

Overview

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

Codes and Dates

State Approval Date	1/12/2021
Curriculum Committee Approval Date	10/01/2020
Board of Trustees Date	10/27/2020
Current Effective Date	8/01/2022
Program Control Number	40380
Top Code	0802.00* - Educational Aide (Teacher Assistant)

Description

Students who receive the Tutor Training Certificate of Completion will have completed all coursework to qualify to receive International Tutor Training Program certificates, which show that they are able to tutor effectively in at least one specific discipline and to empower fellow students to be independent, resilient, and self-confident learners.

Because the College Reading and Learning Association (CRLA) has determined that Berkeley City College meets the guidelines to award International Tutor Training Program Certifications (ITTPC), certified tutors are able to demonstrate that their training has met international standards, which enhances their ability to find employment in high schools, community colleges, and adult schools, as well as in private tutoring.

Career Opportunities

Students who complete this program qualify for the College Reading and Learning Association guidelines for International Tutor Training Program Certifications (ITTPC), a nationally recognized program. Certified tutors are able to demonstrate that their training has met national standards, which enhances their ability to find employment in community colleges and adult schools, as well as in private tutoring.

Program Learning Outcomes

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

1. demonstrate the ability to tutor effectively, fostering independent learning and resilience, teaching targeted skills and concepts, and addressing students' psychological barriers to learning
 2. demonstrate the ability to tutor effectively in subject-specific and/or skill-specific areas, teaching targeted skills and concepts, demonstrating cultural awareness and sensitivity to diversity, and addressing students' special needs
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Degree Requirements:

Required Courses	Noncredit: (21 Required)
EDUC 510A and Tutor Training I	10.5
EDUC 510B Tutor Training II	10.5
	Total: 21

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Berkeley City College

Child and Adolescent Development

Overview

College	BCC - Liberal Arts and Social Sciences
Originator	Jenny Lowood
Award Type	AA-T Degree

Codes and Dates

Curriculum Committee Approval Date	11/18/2021
Current Effective Date	8/01/2022
Top Code	1305.10 - Child and Adolescent Development

Description

The Associate in Arts Degree in Child and Adolescent Development for Transfer is designed to prepare students for a seamless transfer with junior status and priority admission to a local CSU campus to a program or major in Child and Adolescent Development or similar major for completion of a baccalaureate degree. This option of study is intended for students who aspire to careers in a variety of areas, as teachers of young children, teacher educators, home visitors, child and family advocates, parent-child educators, or program directors, among other options.

Students who successfully complete the AA-T in Child and Adolescent Development earn specific guarantees for transfer to the CSU system: admission to a CSU with junior status and priority admission to a local CSU campus and to a program or major in Child and Adolescent Development 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) 19-20 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. For a more detailed description of Associate Degrees for Transfer, see "Associate Degrees for Transfer (ADT) to a California State University" on page XX.

Students are advised to consult with a Berkeley City College counselor for additional information and to verify transfer requirements.

Career Opportunities

This option of study is intended for students who aspire to careers in a variety of areas, as teachers of young children, teacher educators, home visitors, child and family advocates, parent-child educators, or program directors, among other options.

Program Learning Outcomes

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

1. Synthesize research-based theories, including principles and practices of child and adolescent development and learning.
 2. Utilize critical thinking skills to analyze, evaluate, and make decisions concerning complex contemporary issues and the interactions among individuals and across societies.
 3. Use scientific methodologies to analyze human development from infancy through adolescence.
 4. Demonstrate knowledge of development in all learning domains from conception through adolescence, including knowledge about typical and atypical development.
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Degree Requirements:

Required Courses

Required Courses

CHDEV 051 and	Child Growth and Development	3
MATH 013 and	Introduction to Statistics	4
PSYCH 001A and	Introduction to General Psychology	3
SOC 013 and	Sociology of the Family	3
ENGL 047	Children's Literature	3

Elective

Choose one of the following:

EDUC 018 or	Mathematical Concepts for Teachers	3
PSYCH 021 or	Lifespan Human Development	3
BIOL 010 or	Introduction to Biology	4
POSCI 001	Government and Politics in the United States	3

Total: 19.000 - 20.000

