Peralta Community College District

Accounting

Overview

College	Merritt College
Originator	Fereshteh Mofidi
Award Type	A.A. Degree

Description

Accountants play an essential role in keeping businesses within their budgets, and this program offers real-world application of skills related to private accounting, institutional accounting, certified public accounting, and other career opportunities within the private and public sectors.

To qualify for the **Associate of Arts in Accounting** degree, students must satisfactorily complete the Degree Major requirements specified below and the local AA/ AS General Education requirements. See the Associate Degrees and Certificates section of this catalog for more information on the local AA/AS overall requirements and the local AA/AS General Education requirements.

Career Opportunities

Private accounting, institutional accounting, CPA, bank officer, consumer credit officer, financial analyst, financial planner, loan officer, insurance analyst, investment account executive.

Program Learning Outcomes

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

1. Synthesize business communication techniques to create, revise and evaluate verbal and written business messages.
2. Apply knowledge of financial accounting, including content, concepts and structure of the various statements for internal and external use.
3. Evaluate the process of identifying, gathering, measuring, summarizing and analyzing financial data in business organizations.

Degree Requirements:

Degree Major Requirements: **Credit Hours:** (21 Required)

BUS 001A	Financial Accounting	4
BUS 001B	Managerial Accounting	4
BUS 010	Introduction to Business	3
ECON 001	Principles of Economics (Macro-Economics)	3
ECON 002	Principles of Economics (Micro-Economics)	3
CIS 001	Introduction to Computer Information Systems	4

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

Bus 2, Introduction to Business Law (3)

Bus 5, Human Relations in Business (3)

Bus 70, Introduction to Marketing (3)

Total: 21

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Peralta Community College District

Accounting

Overview

College	Merritt College
Originator	Fereshteh Mofidi
Award Type	Certificate of Achievement

Description

Accountants play an essential role in keeping businesses within their budgets, and this program offers real-world application of skills related to private accounting, institutional accounting, certified public accounting, and other career opportunities within the private and public sectors.

A **Certificate of Achievement** will be awarded upon satisfactory completion of the certificate requirements specified below.

Career Opportunities

Private accounting, institutional accounting, CPA, bank officer, consumer credit officer, financial analyst, financial planner, loan officer, insurance analyst, investment account executive.

Program Learning Outcomes

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

1. Synthesize business communication techniques to create, revise and evaluate verbal and written business messages.
2. Apply knowledge of financial accounting, including content, concepts and structure of the various statements for internal and external use.
3. Evaluate the process of identifying, gathering, measuring, summarizing and analyzing financial data in business organizations.

Degree Requirements:

Certificate of Achievement Requirements:		**Credit Hours:** (18 Required)
BUS 001B	Managerial Accounting	4
BUS 005	Human Relations in Business	3
BUS 010	Introduction to Business	3
CIS 001	Introduction to Computer Information Systems	4
Plus: Any additional Business course(s)		4
		Total: 18

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Peralta Community College District

Business Management

Overview

College	Merritt College
Originator	Fereshteh Mofidi
Award Type	Certificate of Achievement

Description

The **Business Management** program involves the coordinating of efforts and resources within an office, department, organization or company to achieve defined objectives.

The certificate includes core requirements and the choice of two emphases: human resources management or entrepreneurship/small business management.

The human resources management emphasis allows the students to explore the human resources management field as a career choice and gain an entry-level support position in a human resources department. The entrepreneurship/small business management is designed to aid students who want to own their own business or who work for small or virtual businesses.

A **Certificate of Achievement** will be awarded upon satisfactory completion of the core certificate requirements and the requirements for one emphasis specified below.

Career Opportunities

General/operations manager and office manager

Program Learning Outcomes

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

1. Synthesize business communication techniques to create, revise and evaluate verbal and written business messages.
2. Research and evaluate business plans that can be used for planning and financing.
3. Employ appropriate management, finance, accounting, and marketing techniques required to operate a business.

Degree Requirements:

Certificate of Achievement Core Requirements: **Credit Hours:** (13 - 14 Required)

BUS 001A or	Financial Accounting	4
BUS 020 and	General Accounting	3
BUS 002	Introduction to Business Law	3
BUS 050	Principles of Management	3
CIS 001	Introduction to Computer Information Systems	4

Choose One Emphasis: **Credit Hours:** (9 Required)

Emphasis in Human Resources Management: **Credit Hours:** (0 Required)

BUS 051	Supervisory Management	3
BUS 052	Psychology and Human Relations	3
BUS 056	Human Resources Management	3

Emphasis in Entrepreneurship/Small Business Management:		**Credit Hours:** (0 Required)
BUS 054	Small Business Management	3
BUS 070	Introduction to Marketing	3
BUS 076	E-Commerce/Entrepreneurship	3

Credit Hours:

Total: 22.00 - 23.00

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Peralta Community College District

Data Analysis and Entry Using Genbank

Overview

College	Merritt College
Originator	Hank Fabian
Award Type	Certificate of Proficiency

Description

With billions of DNA bases in amniotic genomes, scientists and technicians rely on computers to help analyze and understand the data they sequence. Skills in the presentation of research in both text and oral formats are essential to success in both industry and academic settings. This certification prepares students to analyze and discuss their findings in writing, and to excel when organizing the products of their research. **A Certificate of Proficiency will be awarded upon completion of the requirements below. The Certificate of Proficiency is not indicated on the students' transcript.**

Career Opportunities

Lab technician in genomics and related areas. Most prestigious internships require original scientific inquiry; graduate schools as well as major universities look favorably upon applicants who have achieved this.

Program Learning Outcomes

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

1. Demonstrate ability to mine GenBank and interpret data.
2. Compose a publishable scientific paper.

Degree Requirements:

Required Courses:		**Credit Hours:** (14 Required)
BIOSC 030	Genomics Theory	4
BIOSC 031	Advanced Genomics Theory	4
BIOSC 034	Writing for the Scientific Journal	3
BIOSC 042	Mining GenBank	3
		Total: 14

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Peralta Community College District

DNA Sequencing and Analysis for Nano-Chip Technology

Overview

College	Merritt College
Originator	Hank Fabian
Award Type	Certificate of Achievement

Description

The latest innovation in DNA sequencers is Nano-Chip technology. Nano-Chip DNA sequencers present an emerging technology that is compact, hooking up to a laptop computer and generating long DNA reads in very large throughput. Currently, we are the only community college teaching this method of DNA sequencing, as all others are genome institutes, biotech companies and advanced university research laboratories. This technology is poised to become staple instrumentation in every biological and health field.

This certificate provides comprehensive instruction in areas that include both Nano-Chip sequencing as well as original scientific inquiry, data analysis, and presentations.

A **Certificate of Achievement** will be awarded upon satisfactory completion of the certificate requirements specified below.

Career Opportunities

Entry-level to advanced biotechnology industry positions, lab technician, forensic science; will assist students in transferring to four-year universities.

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. Demonstrate mastery of nanopore sequencing
4. Write and present a scientific paper of journal quality

Degree Requirements:

Required Courses: **Credit Hours:** (28 - 31 Required)

BIOSC 013	Research Design	1
BIOSC 030	Genomics Theory	4
BIOSC 031	Advanced Genomics Theory	4
BIOSC 034	Writing for the Scientific Journal	3
BIOSC 035	Micro-Robotics in DNA Sequencing	5
BIOSC 036	Scientific Presentation	3
BIOSC 037	Principles of Long Polymerase Chain Reaction (PCR)	1
BIOSC 042	Mining GenBank	3
BIOSC 060	Personalized (Desk-top) Sequencing	3
COPED 484B	Occupational Work Experience in Bioscience	1 - 4

Choose either 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: 31.00 - 35.00

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Peralta Community College District

DNA Shearing, Size Selection and Quality Assurance

Overview

College	Merritt College
Originator	Hank Fabian
Award Type	Certificate of Proficiency

Description

Prior to sequencing, DNA needs to be cut into pre-sized segments. Students will learn Hydroshear and Covaris technologies as well as Sage science technologies and bioanalytical procedures. In addition, fragment size analysis and DNA quality are assessed. **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, forensic science

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. Demonstrate and explain DNA Shearing techniques.
4. Demonstrate and explain bioanalytical techniques.

Degree Requirements:

Required Courses: **Credit Hours:** (16 Required)

BIOSC 030	Genomics Theory	4
BIOSC 031	Advanced Genomics Theory	4
BIOSC 035	Micro-Robotics in DNA Sequencing	5
BIOSC 040	DNA Shearing Techniques for Shotgun Sequencing in Genomics	3
	Total: 16	

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Peralta Community College District

Maintenance of DNA

Overview

College	Merritt College
Originator	Hank Fabian
Award Type	Certificate of Proficiency

Description

DNA sequencing is dependent upon the copying of DNA in prominent applications. This certificate covers DNA replication in-vitro (in the lab) using the Polymerase Chain Reaction (PCR) and cloning by harnessing the power of bacteria for both DNA sequencing and creation for storage of Genomic libraries. These tools are absolutely essential for a job in biotechnology laboratories as well as forensic sciences. Coursework includes the use of microrobotic instruments such as colony pickers. **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, forensic science

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. Demonstrate ability to create and maintain bacterial acquired chromosome (BAC) libraries.

Degree Requirements:

Required Courses:		**Credit Hours:** (14 Required)
BIOSC 030	Genomics Theory	4
BIOSC 031	Advanced Genomics Theory	4
BIOSC 035	Micro-Robotics in DNA Sequencing	5
BIOSC 037	Principles of Long Polymerase Chain Reaction (PCR)	1
		Total: 14

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Peralta Community College District

Phylogenetic Analysis

Overview

College	Merritt College
Originator	Hank Fabian
Award Type	Certificate of Proficiency

Description

This certificate 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: 14.00 - 15.00

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Peralta Community College District

Scientific Presentation for Genomics

Overview

College	Merritt College
Originator	Hank Fabian
Award Type	Certificate of Proficiency

Description

Designing a research project must include an end product such as a poster presentation or scientific paper. Research presentation skills in text and oral formats are essential to success in both industry and academic settings. This certificate prepares students to discuss their findings in writing and oral presentations, as well as to develop confidence when fielding questions about their research. **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; will assist students in transferring to four-year universities.

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. Write and present a scientific paper of journal quality

Degree Requirements:

Required Courses: **Credit Hours:** (15 Required)

BIOSC 013	Research Design	1
BIOSC 030	Genomics Theory	4
BIOSC 031	Advanced Genomics Theory	4
BIOSC 034	Writing for the Scientific Journal	3
BIOSC 036	Scientific Presentation	3

Total: 15

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Peralta Community College District

Academic Composition Skills

Overview

College	Berkeley City College
Originator	Jennifer Lowood
Award Type	Certificate of Competency

Description

This certificate 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 allows for success in career goals.

Program Learning Outcomes

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

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

Degree Requirements:

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

ENGL 508A	and	Academic Composition Skills: Prewriting and Organization	0
ENGL 508B	and	Academic Composition Skills: Paragraph Development, Analysis, and Research	0
ENGL 508C		Academic Composition Skills: Sentence Structure and Proofreading	0

Peralta Community College District

Android Programming

Overview

College	Laney College
Originator	Patrick McDermott
Award Type	Certificate of Achievement

Description

This certificate is designed to teach students how to program native apps mobile device applications to run on Android phones and tablets. Students learn the basics of programming in Java, and the specifics of how to program for Android devices. Students completing this certificate program will be qualified for employment as entry-level app developers and quality assurance technicians.

Career Opportunities

Students completing this certificate program will be qualified for employment as entry-level app developers and quality assurance technicians.

Program Learning Outcomes

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

1. Analyze a problem and interpret technical specifications to create and program appropriate algorithmic solutions that include the use of control structures, parameters and return values
2. Design and implement abstract data types using classes, encapsulation, inheritance, polymorphism, exceptions, events, multithreading, collections and generics
3. Create User Interfaces UIs using controls, layout managers, adaptors, menus and dialogs
4. Implement Android applications incorporating activities, services, content providers, broadcast receivers, location tracking, maps, and Internet access
5. Use SQLite for database storage, Media Player, and telephony APIs
6. Write and debug apps using multiple threads, including their use to optimize power efficiency and performance.

Degree Requirements:

Complete the following courses: **Credit Hours:** (15 Required)

CIS 006	Introduction to Computer Programming	5
CIS 025 or	Object Oriented Programming Using C++	4
CIS 036A	Java Programming Language I	4
CIS 043A	Android Programming	3
CIS 043B	Advanced Android Programming	3

Total: 15

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Peralta Community College District

Biomanufacturing Production

Overview

College	Laney College
Originator	Leslie Blackie
Award Type	A.S. Degree

Description

The associates degree continues to build on the courses taught for the certificates of proficiency and achievement to prepare graduates to work in the biomanufacturing/pharmaceutical industry as technicians. Students will learn how to operate and maintain the equipment used to manufacture protein pharmaceutical products; culture bacterial, yeast, and mammalian cells and recover the proteins that those cells produce. Students will follow good manufacturing practices by maintaining records in order to comply with quality assurance procedures and government regulations.

Career Opportunities

Manufacturing Technician, Production Technician, Laboratory Technician, Quality Control Technician

Program Learning Outcomes

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

1. PLO # 6 Describe and practice laboratory safety guidelines relating to working with laboratory equipment.
2. PLO # 1 Set up and manipulate laboratory equipment, carry out experimental procedures and identify possible sources of error.
3. PLO # 2 Maintain a laboratory notebook according to standard scientific guidelines
4. PLO # 3 Write clear, well-documented reports or SOPs or other documentation required in the lab using the language of science
5. PLO # 4 Apply mathematics to solve quantitative problems.
6. PLO # 5 Explain and discuss both verbally and in writing the science concepts listed in the course content, as well as their relevance to everyday events and circumstances in a broad interdisciplinary context.

Degree Requirements:

First semester — **Credit Hours:** (9 - 10 Required)

BIOL 075	Fundamentals of Biotechnology	2
MATH 208	Mathematics for Laboratory Sciences	3
CHEM 030A or	Introductory General Chemistry	4
CHEM 001A	General Chemistry	5

Second Semester — **Credit Hours:** (7 - 8 Required)

BIOL 003 or	Microbiology	5
BIOL 073	Cell Culture Principles and Techniques	4
BIOL 076	Principles of Biomanufacturing	3

Third Semester **Credit Hours:** (7 Required)

BIOL 072A	Biotech Instrumentation: Good Manufacturing Practices and Safe Chemical Handling	1
BIOL 072B	Biotech Instrumentation: Clean Room	1
BIOL 072C	Biotech Instrumentation: PCR	1
BIOL 072D	Biotech Instrumentation: Protein Purification and Quality Control	1
BIOL 074	Scientific Communication	3

Fourth Semester **Credit Hours:** (7 Required)

BIOL 077	Business and Regulatory Practices in Biomanufacturing	3
BIOL 079	Bioreactor Cell Culture and Protein Recovery	4

Credit Hours:

Additional courses to fulfill requirements in General Education and Electives required. Recommendations include Englis

Total: 30.00 - 32.00

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Peralta Community College District

Biomanufacturing Skills

Overview

College	Laney College
Originator	Leslie Blackie
Award Type	Certificate of Proficiency

Description

The Biomanufacturing Program is designed to provide students with the knowledge and skills necessary for employment in the biomanufacturing/pharmaceutical industry. It functions as a career ladder program, intending to train students in basic biotechnology and biomanufacturing skills in one semester, earning a Certificate of Proficiency in Biomanufacturing Skills.

Career Opportunities

Glassware washing, documentation coordinators, laboratory support workers, quality control inspectors

Program Learning Outcomes

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

1. Program level outcome # 1 Setup and manipulate laboratory equipment, carry out experimental procedures and identify possible sources of error Bio 75 SLO # 1 Demonstrate competence in using laboratory equipment and techniques used in class Chem 30A SLO # 4 Perform laboratory techniques correctly using appropriate safety procedures.
2. Program Level outcome # 2 Maintain a laboratory notebook according to standard scientific guidelines. Bio 75 SLO # 4 Effectively document observations and conclusions in a laboratory notebook and communicate teh scientific information using formal laboratory reports and oral presentations.
3. Program level outcome # 3 Write clear, well documented lab reports using the language of science Math 208 SLO # 3 Prepare data to be analyzed using a spreadsheet program. Chem 30A SLO # 5 calculate experimental values from laboratory data and interpret the results.
4. PLO # 4 Apply mathematical problems to solve quantitative problems. Math 208SLO # 4 Estimate dosages, concentrations and dilutions Chem 30ASLO # 1 use dimensional analysis to solve quantitative probems and evaluate the results of calculations to make sure they are physically reasonable.

Degree Requirements:

Certificate of Proficiency Requirements: **Credit Hours:** (9 - 10 Required)

BIOL 075	Fundamentals of Biotechnology	2
MATH 208	Mathematics for Laboratory Sciences	3
CHEM 001A or	General Chemistry	5
CHEM 030A	Introductory General Chemistry	4

Total: 9.00 - 10.00

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Peralta Community College District

Biomanufacturing

Overview

College	Laney College
Originator	Leslie Blackie
Award Type	Certificate of Achievement

Description

Students continue their academic training by taking additional courses to earn a Certificate of Achievement in Biomanufacturing gaining the skills and knowledge necessary for a higher level of employment within the manufacturing sector of the pharmaceutical industry.

Career Opportunities

Manufacturing and production ex. material handlers, manufacturing assistant, instrumentation and calibration technicians, media prep assistant Research and Development ex. laboratory assistant, green house worker, animal caretakers Quality control/Quality Assurance (QA/QC) ex. QC technician, QA specialist or assistant

Program Learning Outcomes

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

1. Setup and manipulate laboratory equipment, carry out experimental procedures and identify possible sources of error.
2. Maintain a laboratory notebook according to standard scientific guidelines
3. Write clear, well documented lab reports using the language of science
4. Apply mathematical problems to solve quantitative problems
5. Explain and discuss both verbally and in writing the science concepts listed in the course content, as well as their relevace to everyday events and circumstances in a broad interdisciplinary context.

Degree Requirements:

First Semester		**Credit Hours:** (9 - 10 Required)
BIOL 075	Fundamentals of Biotechnology	2
MATH 208	Mathematics for Laboratory Sciences	3
CHEM 030A or	Introductory General Chemistry	4
CHEM 001A	General Chemistry	5

Second Semester		**Credit Hours:** (7 - 8 Required)
BIOL 076	Principles of Biomanufacturing	3
BIOL 003 or	Microbiology	5
BIOL 073	Cell Culture Principles and Techniques	4

Total: 16.00 - 18.00

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Peralta Community College District

Communication Studies

Overview

College	Berkeley City College
Originator	Cora Leighton
Award Type	AA-T Degree

Codes and Dates

State Approval Date	4/01/2013
Curriculum Committee Approval Date	4/18/2013
Board of Trustees Date	5/14/2013
Program Control Number	32530
Top Code	1506.00 - Speech and Rhetorical Studies
CIP Code	23.1000: Speech and Rhetorical Studies.

Description

The Associate in Arts in Communication for Transfer Degree is designed to prepare students to complete the baccalaureate degree in communication upon transferring into the CSU system. Communication skills are essential to forming and maintaining personal relationships, acquiring and excelling in a job, and relating to the world around us. Through the study and practice of interpersonal, professional, and intercultural communication skills, students will learn how their perceptions and self-esteem affect their interactions with others. Beyond this, students will improve their abilities to speak, write, and present information effectively, whether in face-to-face interactions or in public or mass-media settings. Students who successfully complete the AA-T in Communication 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 communication 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) 18-19 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

N/A

Program Learning Outcomes

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

1. Use speaking and listening skills to resolve conflict and get their messages across as intended in interpersonal, small group, and organizational dynamics.
2. Deliver presentations that are clear in content, structure, and delivery.
3. Research and analyze the influence and impact of mass media and culture on society.

Degree Requirements:

Complete the following core requirement courses:		**Credit Hours:** (0 Required)
COMM 005	Persuasion & Critical Thinking	3
COMM 020	Interpersonal Communication Skills	3
COMM 045	Public Speaking	3

List A--Select two of the following courses:		**Credit Hours:** (0 Required)
COMM 003	Introduction to Human Communication	3
COMM 006	Intercultural Communication	3
COMM 019	Survey of Mass Media	3

List B--Select one of the following courses:		**Credit Hours:** (0 Required)
ANTHR 003	Introduction to Social and Cultural Anthropology	3
COMM 004	The Dynamics of Group Discussion	3
COMM 010	Gender and Communication	3
ENGL 001B	Composition and Reading	4
ENGL 005	Critical Thinking in Reading and Writing	3
PSYCH 001A	Introduction to General Psychology	3
SOC 001	Introduction to Sociology	3

Unit Calculation:	**Credit Hours:** (60 Required)
Total Units Required for the Major	18 - 19
Total units that may be double-counted	9 - 15
General Education (CSU GE or IGETC) Units	37 - 39
Elective (CSU Transferable) Units	11 - 20
Total Degree Units	60

TWO-YEAR COURSE SEQUENCE BEGINNING IN THE FALL SEMESTER You can use the following pattern to complete the Associate in Arts in Communication Studies

1st Semester/Fall **Credit Hours:** (0 Required)

COMM 020	Interpersonal Communication Skills	3
General Education and Electives		12
Total Units 1st Semester/Fall		15

2nd Semester/Spring **Credit Hours:** (0 Required)

COMM 006	Intercultural Communication	3
COMM 045	Public Speaking	3
General Education and Electives		9
Total Units 2nd Semester/Spring		15

3rd Semester/Fall **Credit Hours:** (0 Required)

COMM 003	Introduction to Human Communication	3
PSYCH 001A	Introduction to General Psychology	3
General Education and Electives		9
Total Units 3rd Semester/Fall		15

4th Semester/Spring **Credit Hours:** (0 Required)

COMM 005	Persuasion & Critical Thinking	3
General Education and Electives		12
Total Units 4th Semester/Spring		15

Total: 60

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Peralta Community College District

Film, Television, And Electronic Media

Overview

College	Berkeley City College
Originator	Rachel Simpson
Award Type	AS-T Degree

Codes and Dates

Curriculum Committee Approval Date	4/16/2015
Board of Trustees Date	1/01/2016
Current Effective Date	1/01/2016
Top Code	0604.20 - Radio and Television*
CIP Code	09.0701: Radio and Television.

Description

The Multimedia Arts AS-T Degree in Film, Television, and Electronic Media offers a foundation in film theory, sound, and production. The program is interdisciplinary and focuses on developing critical thinking, artistic and technical skills for careers in film and media industries. Students who successfully complete the AS-T in Film, Television, and Electronic Media 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 multimedia art 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 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 a Berkeley City College counselor for additional information and to verify transfer requirements.

Career Opportunities

film & video production, editing, motion graphics, audio recording and sound design, cinematography, documentary production, narrative filmmaking, and film criticism.

Program Learning Outcomes

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

1. Demonstrate entry-level skills in film, television, and electronic media via completed projects.
2. Evaluate design principles, aesthetic forms, historical context and social relevance of multimedia works.
3. Collaborate effectively within a diverse team environment

Degree Requirements:

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

HUMAN 021	Film: Art and Communication	3
MMART 110	Scriptwriting and Storyboarding I	3
MMART 148A	Sound Recording and Editing	2
MMART 148LA	Sound Recording and Editing Lab	1
MMART 141A	Video Production I	3
MMART 141B	Video Production II:Directing & Producing	3

Restricted Electives--Select 3 units from the following: **Credit Hours:** (0 Required)

COPED 468B	Occupational Work Experience in Multimedia Arts	3
MMART 142	Visual Storytelling & Cinematography	3
MMART 150A	Video Editing I	2
MMART 150LA	Video Editing I Lab	1
MMART 150B	Video Editing II	2
MMART 150LB	Video Editing II Lab	1
MMART 150C	Video Editing III	2
MMART 150LC	Video Editing III Lab	1
MMART 152A	Motion Graphics/After Effects I	2
MMART 152LA	Motion Graphics/After Effects I Lab	1

Unit Calculation	**Credit Hours:** (60 Required)
Major Requirements	18
General Education and Electives	42
Elective (CSU Transferable) Units	6 - 8
	Total: 60

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Peralta Community College District

iOS Programming

Overview

College	Laney College
Originator	Patrick McDermott
Award Type	Certificate of Achievement

Codes and Dates

Curriculum Committee Approval Date	10/07/2016
Top Code	0707.10 - Computer Programming/Programmer, General*
CIP Code	11.0201: Computer Programming/Programmer, General.

Description

This certificate is designed to teach students how to program native apps (mobile device applications) to run on iPhones, iPads, and other iOS devices. Students learn the basics of programming in Swift or a similar language, and also Java or C++. Students also learn the specifics of how to program for iPhones. Students completing this certificate program will be qualified for employment as entry-level app developers and quality assurance technicians.

Career Opportunities

Students completing this certificate program will be qualified for employment as entry-level app developers and quality assurance technicians

Program Learning Outcomes

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

1. Analyze a problem and interpret technical specifications to create and program appropriate algorithmic solutions that include the use of control structures, parameters and return values
2. Design and implement abstract data types using classes, encapsulation, inheritance and polymorphism
3. Develop and test Swift classes and protocols, implementing projects using Xcode
4. Extend User Interface Kit (UIKit) classes to create custom view controllers
5. Compare and contrast core graphics classes

Degree Requirements:

Complete the following courses: **Credit Hours:** (15 Required)

CIS 006	Introduction to Computer Programming	5
CIS 068A	iOS Programming	3
CIS 068B	Advanced iOS Programming	3
CIS 025 or	Object Oriented Programming Using C++	4
CIS 036A	Java Programming Language I	4

Total: 15

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Peralta Community College District

Science

Overview

College	Laney College
Originator	Amy Bohorquez
Award Type	A.S. Degree

Codes and Dates

State Approval Date	9/04/2016
Curriculum Committee Approval Date	3/18/2016
Board of Trustees Date	5/10/2016
Current Effective Date	8/22/2016
Program Control Number	35232
Top Code	4902.00 - Biological and Physical Sciences
CIP Code	30.0101: Biological and Physical Sciences.

Description

Science courses emphasize problem solving, critical thinking and synthesis of information. Students will practice laboratory safety, carry out experimental procedures, and identify possible sources of error. Students will learn to apply principles of scientific inquiry, differentiate a theory from a hypothesis, and differentiate fact from opinion in regard to sciences. Students will develop the connection of the relevance of science to everyday events and circumstances in a broad interdisciplinary context. For the Associate of Science, students must complete the General Education pattern and elective courses for an additional 40 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

This degree will help students transfer, focus on pre-allied health courses and develop basic skills in science.

Program Learning Outcomes

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

1. Analyze and critically evaluate scientific information
2. Synthesize multiple concepts, integrating and connecting scientific information
3. Properly use scientific equipment, following appropriate safety guidelines

Degree Requirements:

Select a minimum of 18 units from at least two disciplines **Credit Hours:** (0 Required)

Biology Courses

BIOL 001A	General Biology	5
BIOL 001B	General Biology	5
BIOL 002	Human Anatomy	5
BIOL 003	Microbiology	5
BIOL 004	Human Physiology	5
BIOL 020A	Human Anatomy and Physiology	5

BIOL 020B	Human Anatomy and Physiology	5

Credit Hours: (0 Required)

Chemistry Courses

CHEM 001A	General Chemistry	5
CHEM 001B	General Chemistry	5
CHEM 030A	Introductory General Chemistry	4
CHEM 030B	Introductory Organic and Biochemistry	4

Credit Hours: (0 Required)

Mathematics Courses

MATH 003A	Calculus I	5
MATH 003B	Calculus II	5
MATH 013	Introduction to Statistics	4

Credit Hours: (0 Required)

Physics Courses

PHYS 003A	General Physics	5
PHYS 003B	General Physics	5
PHYS 004A	General Physics with Calculus	5
PHYS 004B	General Physics with Calculus	5
PHYS 004C	General Physics with Calculus	5

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

18 - 20

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

19

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

21 - 23

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