Berkeley City College
Biotechnology Research Laboratory Assistant

Overview

College	BCC - Business/STEM/Media Art
Originator	Barbara Des Rochers
Award Type	Certificate of Achievement

Description

The Advanced Certificate of Achievement in Biotechnology prepares students for biotechnology technician and research assistant positions in industry and academic research laboratories. The certificate is designed for students who have completed the Certificate of Achievement in Biotechnology and want to progress in their education and training so that they can either enter the workforce directly or transfer to a 4 year institution. The certificate also has been designed for students who have completed degrees in chemistry or biology, and for professionals in the industry and research laboratories, who desire more up to date laboratory training.

Career Opportunities

Technician and research assistant 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 common to immunology and/or genetics laboratories, laboratory mathematics, tissue culture, proper handling and disposal of hazardous materials and good laboratory practices.

2. Demonstrate an ability to maintain a neat and readable scientific notebook, record data accurately, create and label appropriately tables and graphs, interpret results and troubleshoot errors.

3. Demonstrate an ability to work independently and as a member of a team, to read and interpret protocols accurately, and to use information provided in scientific papers when necessary.

4. Demonstrate an ability to write a scientific paper and present data in an oral presentation.

5. Demonstrate knowledge and facility with concepts in chemistry and biology as they relate to biotechnology and the ethical concerns associated with stem cells and recombinant DNA technologies.

Degree Requirements:

Credit Hours: (8 Required)

Required 8 units:

BIOL 032	Scientific Literature and Writing	3
BIOL 050B	Protein Chemistry and Fermentation	3
BIOL 050D	Cell and Tissue Culture	2

Credit Hours: (12 - 15 Required)

Select 12-15 units from the following:

BIOL 001A or	General Biology	5
BIOL 003 or	Microbiology	5

BIOL 033 or	Immunology	4
BIOL 034 or	Genetics	3
BIOL 034L or	Genetics Laboratory	2
BIOL 050C	Stem Cell Biology and Advanced Molecular Techniques	3

Total: 20.000 - 23.000

Berkeley City College
Biotechnology

Overview

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

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 maintain a neat and readable scientific notebook, record data accurately, create and label appropriately tables and graphs, interpret results correctly and troubleshoot errors.

3. Demonstrate an ability to work independently and as a member of a team, to read and interpret protocols accurately, and to use information provided in scientific papers when necessary.

4. Demonstrate an ability to write a scientific paper and present data in an oral presentation.

5. Demonstrate knowledge and facility with concepts in chemistry, biology and biotechnology and the ethical concerns associated with stem cells and recombinant DNA technologies.

Degree Requirements:

		Credit Hours:	(0 Required)

Required Courses: (18 units):

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)

Select 3 from the following: (11-15 units)

BIOL 050B	Protein Chemistry and Fermentation	3
BIOL 050C	Stem Cell Biology and Advanced Molecular Techniques	3
BIOL 001A	General Biology	5
CHEM 001A	General Chemistry	5
PHYS 003A or	General Physics	5
PHYS 004A	General Physics with Calculus	5

Credit Hours: (0 Required)

Select 1 from the following: (3-5 units)

MATH 001 or	Pre-Calculus	4
MATH 003A or	Calculus I	5
MATH 016A	Calculus for Business and the Life and Social Sciences	3

Credit Hours: (0 Required)

General Education and Electives (22-28 units)

Credit Hours: (0 Required)

Total Units: 60

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Berkeley City College
Biotechnology Laboratory Assistant

Overview

College	BCC - Business/STEM/Media Art
Originator	Barbara Des Rochers
Award Type	Certificate of Achievement

Description

The Certificate of Achievement prepares students for entry level laboratory assistant positions in biotechnology related industry and academic laboratories. It is designed for students who are starting out in STEM, including recent high school graduates, students who are re-tooling or changing majors, and students proceeding to 4 year institutions who may want to work in a laboratory as they complete their studies.

Career Opportunities

Entry level laboratory assistant positions in pharmaceutical and biotechnology industries and academic 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, laboratory mathematics, proper handling and disposal of hazardous materials and good laboratory practices.

2. Demonstrate an ability to maintain a neat and readable scientific notebook, record data accurately, create and label appropriately tables and graphs and interpret results correctly.

3. Demonstrate an ability to work independently and as a member of a team and to read and interpret protocols and standard operating procedures accurately.

4. Demonstrate knowledge of basic concepts in chemistry and biology as they relate to biotechnology and the ethical concerns associated with recombinant DNA technologies.

Degree Requirements:

Credit Hours: (0 Required)

Required Courses

BIOL 010	Introduction to Biology	4
CHEM 030A	Introductory General Chemistry	4
BIOL 050A	Introductory Biotechnology with Laboratory	4
BIOL 032	Scientific Literature and Writing	3
CIS 200	Computer Concepts and Applications	1.5

Credit Hours: (0 Required)

Total Units: 16.5

Berkeley City College
Gender Studies

Overview

College   BCC - Liberal Arts and Social Sciences
Originator   Laura Ruberto
Award Type   Certificate of Achievement

Description

This certificate of achievement involves an interdisciplinary approach to Gender Studies combining courses in the liberal arts and social sciences thus offering a grounded general education. The certificate provides a strong academic foundation in the field, whether students are interested in personal, political or professional reasons or intend to transfer to a four-year institution and major or minor in Gender Studies, Women's Studies or LGBTQ Studies as well as any discipline in the liberal arts or social sciences.

Career Opportunities

This certificate supports students looking to transfer to degree programs in Gender Studies, Women's Studies, LGBTQ Studies or in a related major within the Social Sciences or Liberal Arts. The study of gender also supports students planning for a wide range of careers including medicine, the creative arts, social work, education, counseling, law, psychology, academia, and business.

Program Learning Outcomes

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

1. Understand and examine critically the processes of gender socialization and historically differentiated experiences for genders across cultures and eras

2. Critically analyze how identities based on gender , race/culture/ethnicity, sexuality, class, age, and ability intersect

3. Recognize various women's political, historical, and artistic achievements over time

Degree Requirements:

Choose two of the following: **Credit Hours:**   (6 - 7 Required)

HUMAN 052 or	Women and Cinema	4
WS 052	Women and Cinema	4
PHIL 035 or	Feminist Philosophy	3
WS 035	Feminist Philosophy	3
WS 001	Introduction to Women's Studies	3

Choose four of the following: **Credit Hours:**   (12 - 13 Required)

ART 013	History of Women in Art	3
COMM 010	Gender and Communication	3
HIST 021	U.S. Women: A Social History	3
HUMAN 052 or	Women and Cinema	4
WS 052	Women and Cinema	4
PHIL 035 or	Feminist Philosophy	3
WS 035	Feminist Philosophy	3
SOC 007	Sociology of Gender	3

SOC 013	Sociology of the Family	3
SOCSC 002	Introduction to Diversity Issues	3
WS 001	Introduction to Women's Studies	3

Total: 18.000 - 20.000

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Berkeley City College
Liberal Arts: Social And Behavioral Sciences

Overview

College	BCC - Liberal Arts and Social Sciences
Originator	Thomas Kies
Award Type	A.A. Degree

Codes and Dates

State Approval Date	3/12/2016
Curriculum Committee Approval Date	9/01/2016
Board of Trustees Date	10/11/2016
Current Effective Date	1/01/2017
Program Control Number	18597
Top Code	4903.30 - Humanities and Social Sciences
CIP Code	24.0103: Humanities/Humanistic Studies.

Description

The A.A. in Liberal Arts with an emphasis in Social and Behavioral Sciences 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 in liberal arts. 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 students who are considering transfer but have not decided on a major or for students who are required to complete a degree for job promotion. In all cases, students should consult with a counselor to develop a program of study.

Career Opportunities

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; 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.

Program Learning Outcomes

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

1. Use discipline-appropriate approaches to critically analyze social problems or processes.
2. Analyze the consequences of social actions or forces and their impact upon social structure or the individual.
3. Evaluate the foundations of diversity within the human experience.

Degree Requirements:

Complete 18 units from a minimum of two disciplines from the following listed courses: **Credit Hours:** (0 Required)

AFRAM 001	Introduction to African American Studies	3
AFRAM 033	The Roots of African-American Culture	3
ANTHR 001	Introduction to Physical Anthropology	3
ANTHR 001L	Physical Anthropology Laboratory	1
ANTHR 002	Introduction to Archaeology and Prehistory	3
ANTHR 003	Introduction to Social and Cultural Anthropology	3

ANTHR 013	Urban Anthropology	3
ANTHR 018	Introduction to Anthropological Linguistics	3
ANTHR 055	Native American Cultures	3
ASAME 011	Introduction to Asian American and Pacific Islander Studies	3
ASAME 030	Asians and Asian-Americans Through Films	3
ECON 001	Principles of Economics (Macro-Economics)	3
ECON 002	Principles of Economics (Micro-Economics)	3
ETHST 001	Introduction to Ethnic Studies	3
ETHST 002	Theoretical Approaches to Critical Ethnic Studies	3
HIST 001	Native American History	3
HIST 002A	History of European Civilization	3
HIST 002B	History of European Civilization	3
HIST 003A	World History to 1500	3
HIST 003B	Modern World History: 1500-Present	3
HIST 007A	History of the United States to 1877	3
HIST 007B	History of the United States Since 1865	3
HIST 008B	History of Latin-American Civilization	3
HIST 019	History of California	3
HIST 021	U.S. Women: A Social History	3
HIST 031	Contemporary Middle East: The Politics of Nationalism	3
HIST 032	The United States Since 1945	3
HIST 033	History of Native American Thought and Literature	3
HLTED 001	Exploring Health Issues	3
HUSV 117	Introduction to Behavioral Health	3
HUSV 118	Introduction to Social Work and Human Services	3
HUSV 119	Fieldwork: Social Work and Human Services	3
M/LAT 030A	Survey of Latin-American Films	3
M/LAT 030B	Survey of Latin-American Films	3
M/LAT 033	Introduction to Chicana/o and Latina/o Studies	3
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 019	Introduction to Global Studies	3
POSCI 020	Global Issues	3
PSYCH 001A	Introduction to General Psychology	3
PSYCH 006	Social Psychology	3
PSYCH 021	Lifespan Human Development	3
PSYCH 028	Introduction to Research Methods in Psychology	3
SOCSC 002	Introduction to Diversity Issues	3
SOC 001	Introduction to Sociology	3
SOC 002	Social Problems	3

SOC 005	Minority Groups	3
SOC 006	Comparative Social Movements Since the 1960s	3
SOC 007	Sociology of Gender	3
SOC 008	Crime and Deviance	3
SOC 013	Sociology of the Family	3
SOC 018	Sociology of Death and Dying	3
SOC 120	Introduction to Research Methods	3

Students must receive a minimum grade of "C" or better in all required core courses and electives in order to qualify for the degree. 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.

Major Requirements: 18   **Credit Hours:**   (0 Required)

General Education and Electives: 42   **Credit Hours:**   (0 Required)

Total Units: 60   **Credit Hours:**   (0 Required)

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Berkeley City College
Liberal Studies - Early and Elementary Teaching Preparation

Overview

College	BCC - Liberal Arts and Social Sciences
Originator	Jenny Lowood
Award Type	A.A. Degree

Description

The Berkeley City College's A.A. in Liberal Studies - Early and Elementary Teaching Preparation provides students the coursework they need for certification to teach in publicly funded school readiness programs, including working as an assistant teacher in transitional kindergarten programs funded by the California Department of Education. The courses in this program are foundational for pursuing a career in early and elementary teaching in California and will also allow students to continue their studies at a four-year university if they wish.

Career Opportunities

The A.A. in Liberal Studies - Early and Elementary Teaching Preparation is designed to prepare students to transfer to education programs at four-year institutions. Additionally, completion of this A.A. will provide students with the coursework they need for certification to teach in publicly funded school readiness programs, including transitional kindergarten programs funded by the California Department of Education.

Program Learning Outcomes

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

1. analyze models and methods of effective teaching, especially in relation to the needs of a diverse student body
2. describe and apply effective strategies for teaching
3. write strong essays which demonstrate an understanding of children's literature
4. describe basic concepts in number systems
5. describe and demonstrate key concepts in biology
6. describe and demonstrate key concepts in history and sociology

Degree Requirements:

Liberal Studies - Elementary Teaching Preparation Associate in Arts Degree **Credit Hours:**   (27 - 29 Required)

BIOL 010	Introduction to Biology	4
EDUC 001	Introduction to the Field of Education	3
EDUC 097	Field Studies in Education	2 - 4
ENGL 047	Children's Literature	3
EDUC 099	Introduction to Special Needs Pedagogy	3
HIST 007B	History of the United States Since 1865	3
SOC 013	Sociology of the Family	3
MATH 018	Mathematical Concepts for Teachers	3
CHDEV 051	Child Growth and Development	3

For the Associate of Arts Degree in Liberal Studies - Elementary Teaching Preparation, students must complete the General Education pattern and electiv

Total: 27.000 - 29.000

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Berkeley City College
Research Skills

Overview

College   BCC - Learning Support & Technology
Originator   Jenny Yap
Award Type   Certificate of Competency

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 six (6) instructional hours. Each course must be completed with a grade of Pass.

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. 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)   **Noncredit:**   (6.3 Required)

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

Total: 6.3

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Berkeley City College
Social Media Storytelling

Overview

College	BCC - Business/STEM/Media Art
Originator	Rachel Simpson
Award Type	Certificate of Achievement

Description

Berkeley City College's Social Media Storytelling Certificate of Achievement prepares students for entry-level jobs with social media titles that require skills in video production, sound or video editing, and photography and copywriting, and also provides upgraded skills for those already employed in multimedia or film related jobs. The program focuses on developing artistic, critical thinking, equipment and computer skills.

Career Opportunities

Completion of this certificate will provide students with the coursework they need to work as social media marketing managers, directors, copywriters, content managers, content creators or producers, event or project coordinators, editors.

Program Learning Outcomes

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

1. Demonstrate an appropriate knowledge using digital multimedia equipment and software programs to create and edit multimedia works for social media applications.
2. Evaluate artwork with discernment, appropriate terminology, and aesthetic awareness; create projects intended for a professional portfolio.
3. Work in environments modeled after a real-world workplaces by building teams and leading them and/or taking direction from a project leader.

Degree Requirements:

Required Courses (13 units)   **Credit Hours:**   (0 Required)

Program Courses

MM/VI 009A	Video Production I: Introduction to Video	4
MM/VI 020A	Editing I: Introduction to Video Editing	2
MM/VI 020LA	Editing I: Introduction to Video Editing Lab	1
MM/VI 016	Social Media Storytelling	3
MM/VI 017 or	Social Media Production	3
MM/MW 004A and	Social Media Marketing and Data Analytics	2
MM/MW 004LA	Social Media Marketing and Data Analytics Lab	1

Choose 6 units from the following: **Credit Hours:**   (0 Required)

MM/VI 024A and	Sound Design I	2
MM/VI 024LA	Sound Design I Lab	1
MM/DI 004 and	Introduction to Photoshop	2
MM/DI 004L	Introduction to Photoshop Lab	1
MM/VI 025	Sound Recording and Audio Production	1.5
MM/VI 015	Documentary Production and Editing	3
MM/VI 009B	Video Production II: Cinematography and Visual Storytelling	3

MM/MW 004B and	Advanced Social Media Marketing and Data Analytics	2
MM/MW 004LB	Advanced Social Media Marketing and Data Analytics Lab	1
MM/MW 001B and	Advanced Web Design	2
MM/MW 001LB	Advanced Web Design Lab	1
MM/VI 041	Introduction to Cinematography	1.5
MM/VI 042	Introduction to Motion Picture Lighting	1.5
MMART 110	Scriptwriting and Storyboarding I	3
MMART 005A	Introduction to Motion Graphics	3
MM/VI 009C	Video Production III: Directing and Producing	3
ENGL 014	Non-Fiction Writing	3
MMART 468	Occupational Work Experience in Multimedia Arts	3

Unit Calculation   **Credit Hours:**   (19 Required)

Required Courses   13

Electives   6

Total: 19

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Berkeley City College
Multimedia Arts--Video Arts

Overview

College	BCC - Business/STEM/Media Art
Originator	Mary Clarke-Miller
Award Type	A.A. Degree

Codes and Dates

State Approval Date	4/10/2016
Curriculum Committee Approval Date	4/16/2015
Board of Trustees Date	6/09/2015
Current Effective Date	1/01/2016
Program Control Number	12303
Top Code	0612.20* - Film Production
CIP Code	50.0602: Cinematography and Film/Video Production.

Description

Berkeley City College's A.A. Degree in Multimedia Arts--Video Arts prepares students for entry-level jobs in video production and editing fields, and provides upgraded skills for those already employed in multimedia or film related jobs. The program focuses on developing artistic, critical thinking, equipment and computer skills.

Career Opportunities

The A.A. in Video Arts is designed to prepare students to transfer to education programs at four-year institutions. Additionally, completion of this A.A. will provide students with the coursework they need to work as video producers, video editors, motion graphics designers, on-location or studio recordists, sound designers for radio and motion picture, cinematographers, camera operators, gaffers, grips, documentaries and nonfiction producers, video directors, social media content producers, social media producers or project managers.

Program Learning Outcomes

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

1. Demonstrate entry-level skills in video arts via completed portfolio projects.
2. Describe, plan and evaluate design principles, aesthetic forms, historical context and social relevance of multimedia works.
3. Delegate responsibilities according to various crew roles and applying collaborative communication skills in a professional setting.

Degree Requirements:

Required Core Courses for the Video Arts A.A. Degree: 13 units   **Credit Hours:**   (0 Required)

MMART 003	Introduction to Digital Art	3
MM/VI 009A	Video Production I: Introduction to Video	4
MM/MW 001A and	Introduction to Web Design	2
MM/MW 001LA	Introduction to Web Design Lab	1
MM/AN 040A	Introduction to Game Design	3

Core Electives choose 6 minimum units from the following: **Credit Hours:**   (0 Required)

MMART 001	Design Thinking	3
MMART 110 or	Scriptwriting and Storyboarding	3
MM/VI 001A	Introduction to Narrative Scriptwriting	3

MM/MW 002 and	Fundamentals of Graphic Visualization	2
MM/MW 002L	Fundamentals of Graphic Visualization Lab	1
MM/DI 003 and	Contemporary Color	2
MM/DI 003L	Contemporary Color Lab	1
MMART 197	Multimedia Career Preparation	3
MM/DI 004 and	Introduction to Photoshop	2
MM/DI 004L	Introduction to Photoshop Lab	1
MM/MW 004A and	Social Media Marketing and Data Analytics	2
MM/MW 004LA	Social Media Marketing and Data Analytics Lab	1
MMART 468	Occupational Work Experience in Multimedia Arts	1
MM/VI 005	The Art of Producing	3

Required Major Courses Video Arts: 13 units minimum   **Credit Hours:**   (0 Required)

MM/VI 024A and	Sound Design I	2
MM/VI 024LA	Sound Design I Lab	1
MMART 110	Scriptwriting and Storyboarding	3
MM/VI 020A and	Editing I: Introduction to Video Editing	2
MM/VI 020LA	Editing I: Introduction to Video Editing Lab	1
MMART 197	Multimedia Career Preparation	3
MMART 468	Occupational Work Experience in Multimedia Arts	1

Major Electives choose 9 units from the following: **Credit Hours:**   (0 Required)

MM/VI 009B	Video Production II: Cinematography and Visual Storytelling	3
MM/VI 009C	Video Production III: Directing and Producing	3
MM/VI 015	Documentary Production and Editing	3
MMART 122B	From Movies to Multimedia	3
MM/VI 020B and	Editing II: Technical Skills	2
MM/VI 020LB	Editing II: Technical Skills Lab	1
MM/VI 020C and	Editing III: Crafting a Story	2
MM/VI 020LC	Editing III: Crafting a Story Lab	1
MM/VI 024B and	Sound Design II	2
MM/VI 024LB	Sound Design ll Lab	1

Unit Calculation   **Credit Hours:**   (60 Required)

Major Requirements	41
General Education and Electives	19

Total: 60

Berkeley City College
Video Arts Level I

Overview

College	BCC - Business/STEM/Media Art
Originator	Mary Clarke-Miller
Award Type	Certificate of Achievement

Codes and Dates

State Approval Date	4/14/2016
Curriculum Committee Approval Date	4/16/2015
Board of Trustees Date	6/09/2015
Current Effective Date	1/01/2016
Program Control Number	12304
Top Code	0612.20* - Film Production
CIP Code	50.0602: Cinematography and Film/Video Production.

Description

The Multimedia Arts Certificate of Achievement in Video Arts Level I provides technical training in professional video production and use of equipment, as well as post-production practices and software, with an emphasis on establishing effective communication skills in a highly collaborative industry.

Career Opportunities

Completion of this certificate will provide students with the coursework they need to work as assistant editors or editors, sound designers, screenwriters, storyboarders, film festival assistants, on-location sound recordists, and camera team positions such as 1st or 2nd assistant camera.

Program Learning Outcomes

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

1. Demonstrate technical knowledge by completing video and audio content assignments.
2. Analyze the various components of video and audio to better understand its psychological and emotional impact.
3. Display appropriate professional and collegiate behavior within a team.

Degree Requirements:

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

MM/VI 009A	Video Production I: Introduction to Video	4
MM/VI 024A and	Sound Design I	2
MM/VI 024LA	Sound Design I Lab	1
MM/VI 020A and	Editing I: Introduction to Video Editing	2
MM/VI 020LA	Editing I: Introduction to Video Editing Lab	1
MMART 110	Scriptwriting and Storyboarding	3
MMART 197	Multimedia Career Preparation	3
MM/VI 005	The Art of Producing	3

Choose 3 units from the following: **Credit Hours:**   (3 Required)

MMART 122B	From Movies to Multimedia	3
MM/VI 025	Sound Recording and Audio Production	1.5

MM/VI 041	Introduction to Cinematography	1.5
MM/VI 042	Introduction to Motion Picture Lighting	1.5
MMART 468	Occupational Work Experience in Multimedia Arts	3

Total: 19

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Berkeley City College
Video Arts Level II: Directing And Producing

Overview

College	BCC - Business/STEM/Media Art
Originator	Mary Clarke-Miller
Award Type	Certificate of Achievement

Codes and Dates

State Approval Date	7/04/2016
Curriculum Committee Approval Date	4/16/2015
Board of Trustees Date	6/09/2015
Current Effective Date	8/01/2016
Program Control Number	15824
Top Code	0612.20* - Film Production
CIP Code	50.0602: Cinematography and Film/Video Production.

Description

The Multimedia Arts Certificate of Achievement in Video Arts Level II: Directing and Producing provides a foundation of analytical and professional techniques for fundraising and project proposals, communication with collaborators, as well as project coordinating, scheduling and budgeting towards assistant directing and producing duties.

Career Opportunities

Completion of this certificate will provide students with the coursework they need to work assistant directors, production coordinators, unit production managers, line producers, directors and video producers.

Program Learning Outcomes

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

1. Demonstrate entry level skills in directing and producing in motion picture and/or related media projects.
2. Apply collaborative communication skills in a professional manner, in a leadership or supportive role as applicable.

Degree Requirements:

Choose 9-10 units from the following: Credit Hours: (9 - 10 Required)

MM/VI 005	The Art of Producing	3
MM/VI 009C	Video Production III: Directing and Producing	3
MMART 197 or	Multimedia Career Preparation	3
MMART 468	Occupational Work Experience in Multimedia Arts	3 - 4

Choose 9 units from one of the emphases below: Credit Hours: (9 Required)

Directing Emphasis   Credit Hours: (0 Required)

MM/VI 001A	Introduction to Narrative Scriptwriting	3
MM/VI 001B	Intermediate Narrative Scriptwriting	3
MM/VI 009B	Video Production II: Cinematography and Visual Storytelling	3
MMART 122B	From Movies to Multimedia	3
MMART 123	The Art of Documentary Film	3

Producing Emphasis   **Credit Hours:**   (0 Required)

MM/VI 009B	Video Production II: Cinematography and Visual Storytelling	3
MM/VI 009D	Video Production IV: Advanced Team Projects	3
MM/VI 015	Documentary Production and Editing	3
MM/VI 017	Social Media Production	3

Total: 18.000 - 19.000

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Berkeley City College
Video Arts Level II: Editing and Post-Production

Overview

College	BCC - Business/STEM/Media Art
Originator	Mary Clarke-Miller
Award Type	Certificate of Achievement

Description

The Video Arts Level II: Editing and Post Production Certificate of Achievement provides theory and practice of industry standards for film aesthetics and time-based media design; video and audio acquisition, effects, deliverables output, and project and media management.

Career Opportunities

Completion of this certificate will provide students with the coursework they need to work as sound designers and video editors, color graders, assistant editors, and motion graphic artists for a variety of client types.

Program Learning Outcomes

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

1. Demonstrate command of major video post production programs and related equipment at an intermediate to advanced skill level.
2. Create student projects and evaluate with discernment, appropriate terminology, and aesthetic awareness resulting in professional level projects.
3. Apply collaborative communication skills in a professional manner, under the lead of a director or producer if applicable.

Degree Requirements:

Select 6-7 units from the following: **Credit Hours:** (6 - 7 Required)

MM/VI 020B and	Editing II: Technical Skills	2
MM/VI 020LB	Editing II: Technical Skills Lab	1
MMART 197 or	Multimedia Career Preparation	3
MMART 468	Occupational Work Experience in Multimedia Arts	3 - 4

Select 12 units from the following: **Credit Hours:** (12 Required)

MM/VI 020C and	Editing III: Crafting a Story	2
MM/VI 020LC	Editing III: Crafting a Story Lab	1
MM/VI 020D and	Editing IV: Editing for Distribution	2
MM/VI 020LD	Editing IV: Editing for Distribution Lab	1
MM/VI 024B and	Sound Design II	2
MM/VI 024LB	Sound Design ll Lab	1
MM/DI 015A and	Introduction to 3D Motion Graphics	3
MMART 122B	From Movies to Multimedia	3
MM/VI 015	Documentary Production and Editing	3
MMART 005A	Introduction to Motion Graphics	3

Total: 18.000 - 19.000

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College of Alameda
Auto Paint

Overview

College	COA - Career and Workforce Education
Originator	Peter Ha
Award Type	Certificate of Achievement

Codes and Dates

Curriculum Committee Approval Date	11/06/2018
Program Control Number	19834
Top Code	0949.00* - Automotive Collision Repair
CIP Code	47.0603: Autobody/Collision and Repair Technology/Technic

Description

The Auto Body and Paint program prepares students to enter the job market as trained and qualified technicians, and allows students to continue toward a Baccalaureate degree in advanced schools of technology, as teachers or to broaden their skills in management, design or business. Lecture and laboratory instruction covers safety, trade ethics, use of hand and power tools, as well as theory, repair and painting of automobiles. Upon registering for a class in the Auto Body and Paint program, the student will receive a list of required basic tools. The student will be expected to provide tools that relate to the particular course in which he/she has enrolled. The purpose of this requirement is to assure that students graduating from the program who wish to enter the trade possess the necessary tools. A Certificate of Achievement in Auto Paint will be awarded to those students completing a minimum of 25 units as outlined below with a 2.0 GPA.

Career Opportunities

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

Program Learning Outcomes

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

1. Evaluate various types of plastics repairs for auto collision repair.
2. Appraise appropriate skills need for preparation of plastic welding and surface preparation.

Degree Requirements:

Degree Major/Certificate Requirements   **Credit Hours:**   (25 Required)
AUTO PAINT

MATH 225	Mathematics for Technicians	3
AUTOB 30 Paint Preparation/Equipment		10
AUTOB 40 Advanced Study/Refinishing		10
AUTOB 016	Introduction to Automotive Plastic Parts Repair	2

Total: 25

College of Alameda
Pathway to Academic English

Overview

College	COA - Liberal Studies and Language Arts
Originator	Patricia Nelson
Award Type	Certificate of Competency

Codes and Dates

Curriculum Committee Approval Date	11/06/2018
Top Code	4930.14 - Study Skills
CIP Code	32.0101: Basic Skills and Developmental/Remedial Education

Description

Completing the Pathway to Academic English Certificate of Competency enhances the ability to succeed in courses across the curriculum requiring significant reading and wrting in Academic English. Students interested in this certificate will take LRNRE 503: Writing Support Workshop, two non-credit courses in ENGL or LRNRE and earn a Pass grade in each course.

Career Opportunities

Editing, copywriting, publishing, administration

Program Learning Outcomes

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

1. Students will gain reading and writing competencies to succeed in rigorous transfer-level courses.

Degree Requirements:

Required   **Noncredit:**   (17.5 Required)

LRNRE 503 and	Writing Support Workshop	17.5

English   **Noncredit:**   (17.5 Required)

ENGL 540 or	Sentence Development for Writers	17.5
ENGL 541 or	Troubleshooting Grammar	17.5

LRNRE   **Noncredit:**   (7 - 8.75 Required)

LRNRE 506 or	Academic Reading Workshop	7
LRNRE 511	Study Skills Workshops	8.75

Total: 42.000 - 43.750

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College of Alameda
Bridge to Credit ESOL Certificate

Overview

College	COA - Career and Workforce Education
Originator	Amanda Price
Award Type	Certificate of Competency

Codes and Dates

State Approval Date	9/20/2018
Curriculum Committee Approval Date	3/06/2018
Board of Trustees Date	5/08/2018
Current Effective Date	1/01/2019
Program Control Number	37083
Top Code	4930.87 - English as a Second Language - Integrated
CIP Code	32.0109: Second Language Learning.

Description

The Bridge to Credit ESOL Certificate verifies that a student has successfully completed the non-credit ESOL course sequence. This sequence prepares students for the academic rigor of credit courses by integrating English language instruction with organizational tools for student success.

Career Opportunities

This certificate's emphasis on organizational life skills and regular use of technology will prepare non-native speaking students for vocational programs and job advancement. The certificate will provide international students with evidence of English study, which may make a job-seeker more competitive in many countries.

Program Learning Outcomes

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

1. Identify organizational tools for student success.

2. Register for credit-level courses.

3. Comprehend and respond appropriately to spoken American English at the level of entry-level credit ESOL courses.

Degree Requirements:

Courses (min 134 hours)   **Noncredit:**   (252.7 - 436.8 Required)

Students must complete a minimum of 134 class hours of ESOL 541A-D.

ESOL 541A and	Bridge to Credit ESOL - Level I	50.05 - 96.075
ESOL 541B and	Bridge to Credit ESOL - Level II	50.05 - 96.075
ESOL 541C and	Bridge to Credit ESOL - Level III	50.05 - 96.005
ESOL 541D and	Bridge to Credit ESOL - Level IV	50.05 - 96.005
LRNRE 505	Transition into Community College	52.5

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

Teacher or department will determine if student has met the competencies of the program and document it.   0 and

Total: 252.700 - 436.800

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College of Alameda
Research Skills

Overview

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

Codes and Dates

Curriculum Committee Approval Date	11/06/2018
Top Code	4930.14 - Study Skills
CIP Code	32.0199: Basic Skills and Developmental/Remedial Educatic

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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)   **Noncredit:** (6.3 Required)

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

Total hours: 6   **Noncredit:** (0 Required)

0

Total: 6.3

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College of Alameda
Pathway to Success

Overview

College	COA - Liberal Studies and Language Arts
Originator	Patricia Nelson
Award Type	Certificate of Competency

Codes and Dates

Curriculum Committee Approval Date	11/06/2018
Top Code	4930.14 - Study Skills
CIP Code	32.0199: Basic Skills and Developmental/Remedial Education

Description

Completing the Pathway to Success Certificate of Competency enhances the ability to succeed in courses across the curriculum, both at College of Alameda and in 4-year institutions. Students interested in this certificate will take three non-credit courses in any area.

Career Opportunities

N/A

Program Learning Outcomes

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

1. Students will gain necessary competencies to succeed in rigorous transfer-level courses.

Degree Requirements:

Select any three courses of the following:		**Noncredit:**	
English		**Noncredit:**	(0 Required)
ENGL 510 or	English for Career and Technical Education		0
ENGL 511 or	Placement Exam Preparation		0
ENGL 540 or	Sentence Development for Writers		0
ENGL 541 or	Troubleshooting Grammar		0
Learning Resources		**Noncredit:**	(0 Required)
LRNRE 503 or	Writing Support Workshop		0
LRNRE 504 or	Technology Support Workshops		0
LRNRE 505 or	Transition into Community College		0
Math		**Noncredit:**	(0 Required)
MATH 510 or	Math for Career and Technical Education		0
Library Information Studies		**Noncredit:**	(0 Required)
LIS 500	Computer Laboratory for Library Information Studies		0

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Laney College
Academic Composition Skills

Overview

College   Laney - Liberal Arts
Originator   Eleni Gastis
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 will have skills which will help them succeed in future courses that require essay writing.

Career Opportunities

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

Program Learning Outcomes

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

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

Degree Requirements:

Core Courses   **Noncredit:**   (52.5 - 787.5 Required)
students must complete a minimum of 52.5 hours

ENGL 508A	Academic Composition Skills: Prewriting and Organization	17.5 - 262.5
ENGL 508B	Academic Composition Skills: Paragraph Development, Analysis, & Research	17.5 - 262.5
ENGL 508C	Academic Composition Skills: Sentence Structure and Proofreading	17.5 - 262.5

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

Teacher or department will determine if student has met the competencies of the program and document it.   0

Total: 52.500 - 787.500

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Laney College
Accounting

Overview

College	Laney - Community Leadership
Originator	Linda Chi
Award Type	A.S. Degree

Description

The Accounting Associate of Science program provides a wide variety of courses that will give students a solid base in career-specific accounting skills. The degree: (1) prepares students for an entry-level position in accounting; (2) develops the knowledge and skills needed to transfer to a four-year institution; (3) upgrades workplace skills in specific occupational areas.

Career Opportunities

The Accounting Associate of Science program prepares students for a number of entry-level accounting jobs in bookkeeping, payroll, accounts receivable and accounts payable, tax preparation and administration, and financial services organization.

Program Learning Outcomes

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

1. Ethics and Personal Responsibility: Apply legal and ethical principles in business decision making.
2. Critical Thinking: Analyze business situations and recommend a solutions or plans for improvement.
3. Computational Skills: Prepare financial statements for a publicly held enterprise and analyze results.

Degree Requirements:

Required core courses (11 units)   **Credit Hours:**   (0 Required)

BUS 001A	Financial Accounting	4
BUS 001B	Managerial Accounting	4
BUS 002	Introduction to Business Law	3

Select at least 10 units from: (min 10 units)   **Credit Hours:**   (0 Required)

BUS 004	Cost Accounting	3
BUS 018	Governmental and Nonprofit Accounting	3
BUS 020	General Accounting	3
BUS 021	Payroll Accounting	2
BUS 206	Certified Bookkeeper Exam Review	4
BUS 209	Fundamentals of Income Tax	4

Select at least 4 units from: (min 4 units)   **Credit Hours:**   (0 Required)

BUS 024	Computerized Accounting Principles	3
BUS 043B	Introduction to Microsoft Excel for Business Applications	4
BUS 202	Business Mathematics [*]	3

| BUS 230D | Beginning Keyboarding | 1 |
| BUS 239 | QuickBooks | 1.5 |

Select at least 6 units from: (min 6 units)   **Credit Hours:**   (0 Required)

BUS 005	Human Relations in Business	3
BUS 010	Introduction to Business	3
BUS 054	Small Business Management	3
BUS 201	Business Communications **	3
BUS 210	Financial Management and Investments	3
ECON 001	Principles of Economics (Macro-Economics)	3
ECON 002	Principles of Economics (Micro-Economics)	3

Credit Hours: (0 Required)

Recommended, but not required:

| COMM 045 | Public Speaking | 3 |

Credit Hours: (0 Required)

Total Major Units: 31

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

*: MATH 201 or 210ABCD or a more advanced Math course may be substituted for BUS 202.
**: ENGL 1A OR 201A or 201B may be substituted for BUS 201.

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Laney College
Accounting

Overview

College   Laney - Community Leadership
Originator   Linda Chi
Award Type   Certificate of Achievement

Description

The Accounting Certificate of Achievement is designed for students who want to acquire skills for an entry-level position in accounting. This certificate is recommended for students who wish to enter the field of accounting without a four-year degree and prepare students to continue toward the attainment of an Associate Degree.

Career Opportunities

The Accounting Certificate of Achievement prepares students for entry-level positions working in payroll, accounts receivable and accounts payable, income tax firms, and financial services organization.

Program Learning Outcomes

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

1. Computational Skills: Prepare financial statement for a publicity held enterprise and analyze results.
2. Computer Application Skills: Design and complete professional assignments using computer applications as Microsoft Excel, QuickBooks, general ledger software to summarize business transactions.
3. Ethics and Personal Responsibility: Apply legal and ethical principles when preparing business and accounting reports.

Degree Requirements:

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

BUS 001A	Financial Accounting	4
BUS 001B	Managerial Accounting	4
BUS 043B	Introduction to Microsoft Excel for Business Applications	4

Select at least 5 units from the following (min 5 units):   **Credit Hours:**   (5 Required)

BUS 004	Cost Accounting	3
BUS 021	Payroll Accounting	2
BUS 206	Certified Bookkeeper Exam Review	4
BUS 209	Fundamentals of Income Tax	4
BUS 230D	Beginning Keyboarding	1
BUS 239	QuickBooks	1.5

Select at least 3 units from following (min 3 units):   **Credit Hours:**   (3 Required)

BUS 010	Introduction to Business	3
BUS 002	Introduction to Business Law	3
BUS 201	Business Communications *	3

Total: 20

*: ENGL 1A or 201A or 201B may be substituted for BUS 201.

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Laney College
Audio Production For Video, Broadcast And Digital Cinematography

Overview

College   Laney - Humanities, Social Sciences
Originator   Heather Sisneros
Award Type   Certificate of Proficiency

Description

The Media Communications program offers courses in HD video production, broadcasting, and post-production for digital video, film, radio and the broadcast arts. There are two major degrees and three certificates, which offer entry into the industry or transfer to a four-year institution. The courses cover the gamut of authoring, producing and editing creative content for the continually evolving communications technologies.

Students must complete the Core Curriculum as well as courses listed under each of the two major options available.

Career Opportunities

Program no longer being offered

Program Learning Outcomes

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

1. 1) Evaluate and apply the basic principles of post production digital audio editing, mixing and mastering for final distribution.
2. 2) Demonstrate and employ operation of recording studio hardware and software.
3. 3) Create advanced level digital audio mixes utilizing plug-ins and audio codecs for multiple distribution streams.

Degree Requirements:

CORE CURRICULUM   **Credit Hours:**   (10 Required)

MEDIA 104	Beginning Digital Video Production	3
MEDIA 111	Basic Audio Production	3
MEDIA 115	Media-based Computing: iLife and Mac OS X	3
MEDIA 129	Portfolio Development	1

FIRST SEMESTER   **Credit Hours:**   (9 Required)
Certificate of Proficiency Requirements:

MEDIA 111	Basic Audio Production	3
MEDIA 150	Pro Tools: Sound Design/Aesthetics for Video, Broadcast and Digital Cinematography	3
MEDIA 155	Advanced Music Video Production: Basic Recording	3

SECOND SEMESTER   **Credit Hours:**   (7 Required)

MEDIA 104	Beginning Digital Video Production	3
MEDIA 129	Portfolio Development	1
MEDIA 156 Advanced Music Video Production III:Mixing and Mastering		3

Total: 26

Laney College
Bridge to Credit ESOL

Overview

College	Laney - Liberal Arts
Originator	Karyn Panitch
Award Type	Certificate of Competency

Codes and Dates

State Approval Date	3/06/2018
Curriculum Committee Approval Date	10/19/2018
Board of Trustees Date	1/23/2018
Current Effective Date	6/18/2018
Program Control Number	36394
Top Code	4930.87 - English as a Second Language - Integrated
CIP Code	32.0108: Developmental/Remedial English.

Description

The Bridge to Credit ESOL Certificate verifies that a student has successfully completed the non-credit ESOL course sequence. This sequence prepares students for the academic rigor of credit courses by integrating English language instruction with organizational tools for student success. Students interested in completing the certificate should consult with the ESOL program chair and a counselor.

Career Opportunities

This certificate's emphasis on organizational life skills will prepare non-native speaking students for vocational programs and job advancement. The certificate will provide international students with evidence of English study, which may make a job-seeker more competitive in many countries.

Program Learning Outcomes

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

1. Synthesize written information and technological skills to register for credit-level courses at an educational institution.
2. Comprehend and respond appropriately to spoken American English at the level of entry-level credit ESOL courses.
3. Apply written information, technological skills, and college success strategies to college level courses.

Degree Requirements:

Courses (min 134 hours)   **Noncredit:** (200.2 - 384.3 Required)
Students must complete a minimum of 134 class hours

ESOL 541A	Bridge to Credit ESOL - Level I	50.05 - 96.005
ESOL 541B	Bridge to Credit ESOL - Level II	50.05 - 96.075
ESOL 541C	Bridge to Credit ESOL - Level III	50.05 - 96.075
ESOL 541D	Bridge to Credit ESOL - Level IV	50.05 - 96.075

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

Teacher or department will determine if student has met the competencies of the program and document it.   0

Total: 200.200 - 384.300

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Laney College
Associate in Arts in Economics for Transfer Degree

Overview

College	Laney - Community Leadership
Originator	Kim Glosson
Award Type	AA-T Degree

Description

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

- Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

(A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.

(B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

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

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

Career Opportunities

Students can continue their studies at a 4 year university.

Program Learning Outcomes

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

1. Apply economic theories and economic reasoning to real life situations
2. Use analytical techniques to measure economic conditions related to the individual, business firms, industries, and economic systems.
3. Explain the role that households, business organizations, governments, and the international sector, play in free markets, command economies, and mixed economies.

Degree Requirements:

Core Courses (13-15 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	4
MATH 016A or	Calculus for Business and the Life and Social Sciences	3
MATH 003A	Calculus I	5

List A: Select one course from the following (4-5 units):   **Credit Hours:**   (0 Required)

MATH 003B	Calculus II	5
BUS 001A	Financial Accounting	4
BUS 001B	Managerial Accounting	4
CIS 001	Introduction to Computer Information Systems	4

List B: Select one course from the following (3-5 units):   **Credit Hours:** (0 Required)

| MATH 003C | Calculus III | 5 |
| MATH 003E | Linear Algebra | 3 |

Credit Hours: (0 Required)

Total Major Units: 20 - 25

Credit Hours: (0 Required)

IGETC or CSU GE-Breadth Education Pattern   37 - 39

Credit Hours: (0 Required)

CSU Transferable General Elective Courses to meet 60 units

Credit Hours: (60 Required)

Total Units: 60

Total: 60

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Laney College
Associate of Arts in Geography for Transfer

Overview

College	Laney - Mathematics and Sciences
Originator	Mark Rauzon
Award Type	AA-T Degree

Description

Laney College's Geography AA-T serves students with a wide variety of goals, including transfer to UC, CSU, or other four-year institutions. Students will learn high-level skills in critical thinking, reading, writing, map interpretation and data analysis. Students who successfully complete the AA-T in Geography 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 Geography 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 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. For more information on the AA-T degree, consult with a Laney College counselor.

Career Opportunities

Geography majors go into a variety fields including planning, education, resource management, business, county, city, state, federal government, computer mapping, technical writing, field survey, conservation nonprofit development and many more.

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 atmospheric, hydrologic and geologic systems and their influence on the biosphere.
3. Characterize geographic principals that embody climate change issues.

Degree Requirements:

Core Requirements (7 units):   **Credit Hours:** (0 Required)

GEOG 001	Physical Geography	3
GEOG 001L	Physical Geography Laboratory	1
GEOG 002	Cultural Geography	3

List A: Select 2-3 courses (6-9 units):   **Credit Hours:** (0 Required)

GEOG 003	World Regional Geography	3
GEOG 018	California Geography	3
GEOG 019	Global Climate Change	3

List B: Select 2 courses (6 units):   **Credit Hours:** (0 Required)

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

     Credit Hours: (0 Required)

Total Major Units: 19 - 22

Credit Hours: (0 Required)

IGETC or CSU GE-Breadth Education pattern   37 - 39

Credit Hours: (0 Required)

CSU Transferable General Elective Courses to meet 60 units:

Credit Hours: (60 Required)

Total Units: 60

Total: 60

Laney College
Performance And Production For Video, Broadcast And Digital Cinematography

Overview

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

Description

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

Career Opportunities

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

Program Learning Outcomes

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

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

Degree Requirements:

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

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

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

MEDIA 100B	Broadcast Media Announcing and Performance	3
MEDIA 101B	Acting/ Directing for the Camera	3
MEDIA 102B	Broadcast Journalism II	3
MEDIA 108	Studio Production	3
MEDIA 112	Media Freelancing and Entrepreneurship	3

MEDIA 115	Media-based Computing and Mac OS X	3
MEDIA 150	Pro Tools: Sound Design/Aesthetics for Video, Broadcast and Digital Cinematography	3
MEDIA 155	Advanced Music Video Production: Basic Recording	3
MEDIA 155	Advanced Music Video Production: Basic Recording	3
MEDIA 156	Advanced Music Video Production III: Mixing and Mastering	3

Total: 23

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Laney College
Performance And Production For Video, Broadcast And Digital Cinematography

Overview

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

Description

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

Career Opportunities

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

Program Learning Outcomes

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

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

Degree Requirements:

Degree Major Requirements (20-24 units):   **Credit Hours:**   (0 Required)

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

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

MEDIA 100B	Broadcast Media Announcing and Performance	3
MEDIA 101B	Acting/ Directing for the Camera	3
MEDIA 102B or	Broadcast Journalism B	3
MEDIA 102B	Broadcast Journalism II	3
MEDIA 108 and	Studio Production	3

MEDIA 108	Studio Production	3
MEDIA 112	Media Freelancing and Entrepreneurship	3
MEDIA 115 or	Media-based Computing: iLife and Mac OS X	3
MEDIA 115	Media-based Computing and Mac OS X	3
MEDIA 150	Pro Tools: Sound Design/Aesthetics for Video, Broadcast and Digital Cinematography	3
MEDIA 155	Advanced Music Video Production: Basic Recording	3
MEDIA 155	Advanced Music Video Production: Basic Recording	3
MEDIA 156 or	Advanced Music Video Production III: Mixing and Mastering	3

	Credit Hours:	(0 Required)
Total Major Units:		23 - 27

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

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

	Credit Hours:	(60 Required)
Total Units:		60

Total: 60

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Laney College
Associate in Science in Physics for Transfer Degree

Overview

College	Laney - Mathematics and Sciences
Originator	Allen Nicol
Award Type	AS-T Degree

Description

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

- Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

(A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.

(B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

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

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

Career Opportunities

Students can continue their studies in any of the following subjects at a 4 year university: all types of engineering; weather; architecture; industrial design.

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:

Core Courses (30 units):   **Credit Hours:**   (0 Required)

PHYS 004A	General Physics with Calculus	5
PHYS 004B	General Physics with Calculus	5
PHYS 004C	General Physics with Calculus	5
MATH 003A	Calculus I	5
MATH 003B	Calculus II	5
MATH 003C	Calculus III	5

Credit Hours: (0 Required)

Total Major Units: 30

Credit Hours: (0 Required)

IGETC or CSU GE-Breadth Education Pattern   37 - 39

Credit Hours: (0 Required)

CSU Transferable General Elective Courses to meet 60 units

Credit Hours: (60 Required)

Total Units: 60

Total: 60

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Laney College
Skilled Trades Apprenticeship and Civil Service Preparation

Overview

College   Laney - Student Wellness and Development
Originator   Elizabeth Maher
Award Type   Certificate of Competency

Description

Non-credit preparation for apprenticeship testing and municipal civil service employment in the skilled trades. Includes math, spatial reasoning, mechanical reasoning, some trade knowledge, test-taking, interview preparation and research on application and opportunities.

Career Opportunities

The shortage of skilled trade workers in both private and public sectors has been well documented. The aging workforce has created a shortage that is just now being addressed by increased civil service training opportunities and efforts to expand apprenticeships. All of these opportunities currently require some level of testing to qualify for these programs. This program is designed to address the shortage of qualified candidates by preparing them for success in this testing process.

Program Learning Outcomes

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

1. Students will demonstrate competency in required mathematical skills, spatial reasoning and mechanical reasoning, at a level that will enable them to pass required exams.

2. Students will create a resume, navigate the job search process, and demonstrate successful job interview skills.

Degree Requirements:

Core courses: **Noncredit:**   (36.05 - 48.3 Required)
Must complete a minimum of 36 hours

LRNRE 521	Test Preparation for the Skilled Trades	18.025 - 24.0625
LRNRE 522	Apprenticeship and Civil Service Opportunities	18.025 - 24.0625

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

Teacher or department will determine if student has met the competencies of the program and document it.   0

Total: 36.050 - 48.300

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Laney College
Social Justice Studies: African American Studies

Overview

College   Laney - Humanities, Social Sciences
Originator   Dana Grisby
Award Type   AA-T Degree

Description

The Associate in Arts in Social Justice: African American Studies for Transfer Degree, (AA-T SJS African American Studies) is designed to prepare students for a seamless transfer with junior status and priority admission to their CSU campus to a program or major in African American Studies or similar major for completion of a baccalaureate degree.

Students are required to complete:

- Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

    (A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.

    (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

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

The Associate in Arts in Social Justice: African American Studies, (AA-T SJS AFRAM) will also assist Ethnic Studies 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

Program is geared in future careers in teaching, social work, public health, community organizing, as well as working in higher education or graduate school.

Program Learning Outcomes

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

1. Evaluate and Research: Evaluate the development of the field of African American Studies, and utilize research methodologies and scholarship within the field to produce research papers.
2. Analysis: Effectively employ social science methodologies in the analysis of issues related to African American Studies.
3. Identify and describe the social, economic, and political forces that have shaped the historical and contemporary realities of people of African descent in the United States, Africa, as well as the African diaspora.

Degree Requirements:

Required Core 1: Introduction to Ethnic Studies (3 units):	**Credit Hours:**	(0 Required)
ETHST 001	Introduction to Ethnic Studies	3

Required Core 2: Intersections of Race and Gender (3 units):	**Credit Hours:**	(0 Required)
AFRAM 035 or	Women of Color *	3

ASAME 035 or	Women of Color	3
M/LAT 035 or	Women of Color	3
NATAM 035	Women of Color	3

Required Core 3: Introduction to African American Studies (3 units):   **Credit Hours:**   (0 Required)

AFRAM 001	Introduction to African American Studies	3

List A: Select three courses from at least two of the following areas (9-11 units):   **Credit Hours:**

Area 1: History or Government (3-4 units):   **Credit Hours:**   (0 Required)
Choose one course from the following list. Courses used in one area cannot be used to fulfill a requirement for another area.

AFRAM 008	African-American Politics	3 - 4
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 - 4

Area 2: Arts and Humanities (3 units):   **Credit Hours:**   (0 Required)
Choose one course from the following list. Courses used in one area cannot be used to fulfill a requirement for another area.

AFRAM 026	African American Culture: Black Music, Art, and Literature	3
AFRAM 029	African American Experience Through Films	3
AFRAM 045	Religion and the African American Church in America	3

Area 3: Social Science (3 units):   **Credit Hours:**   (0 Required)
Choose one course from the following list. Courses used in one area cannot be used to fulfill a requirement for another area.

AFRAM 002	Black Economics	3
AFRAM 005	The African American Family in the United States	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 023	Perceptions of African American Women	3
AFRAM 045	Religion and the African American Church in America	3
AFRAM 038	Environmental Racism and Justice	3

Area 4: Quantitative Reasoning and Research Methods (4 units):   **Credit Hours:**   (0 Required)
Choose one course from the following list. Courses used in one area cannot be used to fulfill a requirement for another area.

MATH 013	Introduction to Statistics	4

Credit Hours: (0 Required)

Total Major Units:	18 - 20

Credit Hours: (0 Required)

IGETC or CSU GE-Breadth Education pattern	37 - 39

Credit Hours: (0 Required)

CSU Transferable General Elective Courses to meet 60 units

Credit Hours: (60 Required)

Total Units:	60

Total: 60

*: AFRAM 35 is preferred

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Laney College
Social Justice Studies: Chicanx and Latinx Studies

Overview

College	Laney - Humanities, Social Sciences
Originator	Alicia Christenson
Award Type	AA-T Degree

Description

The Associate in Arts in Social Justice Studies: Chicanx and Latinx Studies for Transfer (AA-T M/LAT) is designed to prepare students for a seamless transfer with junior status and priority admission to their CSU campus to a program or major in Chicanx and Latinx Studies or similar major for completion of a baccalaureate degree.

Students are required to complete:

- Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

    (A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.

    (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

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

The Chicanx and Latinx Studies major allows 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

Program is geared in future careers in teaching, social work, public health, community organizing, as well as working in higher education or graduate school.

Program Learning Outcomes

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

1. Evaluate and Research: Evaluate the development of the field of Chicax and Latinx Studies, utilizing research methodologies and scholarship within the field to produce research and community education.
2. Analysis: Effectively employ social science methodologies in the analysis of issues related to Chicanx and Latinx Studies.
3. Identify and describe the social, political, cultural, and economic forces that have shaped the histories and current day realities of Chicanx and Latinx populations in the United States as well as Latin American populations throughout the Americas.

Degree Requirements:

Required Core 1: Introduction to Ethnic Studies (3 units):   **Credit Hours:**   (0 Required)

ETHST 001	Introduction to Ethnic Studies	3

Required Core 2: Intersections of Race and Gender (3 units):　**Credit Hours:**　(0 Required)

AFRAM 035	Women of Color	3
ASAME 035	Women of Color	3
NATAM 035	Women of Color	3
M/LAT 035	Women of Color *	3

Required Core 3: Introduction to Chicana/o and Latina/o Studies (3 units):　**Credit Hours:**　(0 Required)

M/LAT 033	Introduction to Chicana/o and Latina/o Studies **	3

Area 1: History or Government (3 units):　**Credit Hours:**　(0 Required)
Choose one course from the following list. Courses used in one area cannot be used to fulfill a requirement for another area.

M/LAT 034	History of Latinos in the United States: 1800 to Present	3
M/LAT 019	History of the Mexican American	3

Area 2: Arts and Humanities (3 units):　**Credit Hours:**　(0 Required)
Choose one course from the following list. Courses used in one area cannot be used to fulfill a requirement for another area.

M/LAT 030A	Survey of Latin-American Films	3
M/LAT 030B	Survey of Latin-American Films	3
M/LAT 036	Survey of Latina/o Literature	3
M/LAT 037	Latinx Culture: Music, Art, and Theater	3
AFRAM 018 or	African Heritage of Latin America	3
M/LAT 032	African Heritage of Latin America **	3

Area 3: Social Science (3 units):　**Credit Hours:**　(0 Required)
Choose one course from the following list. Courses used in one area cannot be used to fulfill a requirement for another area.

M/LAT 012	United States Relations with Mexico and Latin America	3
M/LAT 023	Psychology of Latinas and Latinos	3
M/LAT 031	Survey of Chicana/Latina Women	3
M/LAT 032 or	African Heritage of Latin America **	3
AFRAM 018	African Heritage of Latin America	3

　　　　　　　　　　　　　　　　　　　　　　　　　　Credit Hours:　(0 Required)

Total Major Units:　　　　　　　　　　　　　　　　　　　　18

　　　　　　　　　　　　　　　　　　　　　　　　　　Credit Hours:　(0 Required)

IGETC or CSU GE-Breadth Education pattern　　　　　　37 - 39

　　　　　　　　　　　　　　　　　　　　　　　　　　Credit Hours:　(0 Required)

CSU Transferable General Elective Courses to meet 60 units

　　　　　　　　　　　　　　　　　　　　　　　　　　Credit Hours:　(60 Required)

Total Units:　　　　　　　　　　　　　　　　　　　　　60

　　　　　　　　　　　　　　　　　　　　　　　　　　Total: 60

*: M/LAT 35 is preferred
**: M/LAT 32 is preferred

Laney College
Social Sciences

Overview

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

Description

Classes in the social sciences emphasize the development of skills related to critical thinking, problem-solving, communication, and research. This degree is comprised of courses in which students will study human behavior and society's interactions and institutions. Students will gain an understanding of our constantly changing and complex world while also developing critical skills that will prepare them for transferring to a 4-year school.

Career Opportunities

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

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 a minimum of 3 units from each of the six areas (min 18 units)   **Credit Hours:** (0 Required)
History (min 3 units):
Choose one of the following

HIST 002A	History of European Civilization	3
HIST 002B	History of European Civilization	3
HIST 003A	World History to 1500	3
HIST 003B	Modern World History: 1500-Present	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

Credit Hours: (0 Required)

Ethnic Studies (min 3 units):
Choose one of the following:

ETHST 001	Introduction to Ethnic Studies	3
AFRAM 035	Women of Color	3
ASAME 035	Women of Color	3
M/LAT 035	Women of Color	3

NATAM 035	Women of Color	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
ASAME 045A	Asian-American History to 1945	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

Credit Hours: (0 Required)

Political Sciences (min 3 units):
Choose one of the following

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

Credit Hours: (0 Required)

Psychology (min 3 units):
Choose one of the following

PSYCH 001A	Introduction to General Psychology	3
PSYCH 006	Social Psychology	3
PSYCH 007A	Psychology of Childhood	3
PSYCH 012 or	Human Sexuality [*]	3
BIOL 027	Human Sexuality [*]	3
PSYCH 021	Lifespan Human Development	3
PSYCH 024	Abnormal Psychology	3
PSYCH 026	Culture and Psychology	3
PSYCH 028	Introduction to Research Methods in Psychology	3

Credit Hours: (0 Required)

Social Sciences (min 3 units):
Choose one of the following

| SOCSC 019 | Introduction to Global Studies | 3 |
| SOCSC 020 | Global Issues | 3 |

Credit Hours: (0 Required)

Sociology (min 3 units):
Choose one of the following

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

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

*: Students may substitute BIOL 27 for the requirement, but PSYCH 12 is preferred.

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Laney College
Associate Of Arts Degree For Transfer In Spanish

Overview

College   Laney - Liberal Arts
Originator   Arturo Davila-Sanchez
Award Type   AA-T Degree

Description

The Spanish department serves a diverse student population in preparation for upper division coursework in Spanish at a four-year university as well as through offering general education courses for non-language majors. The Associate in Arts in Spanish for Transfer Degree is designed to prepare students for a seamless transfer with junior status and priority admission to their local CSU campus to a program or major in Spanish or similar major for completion of a baccalaureate degree. Students are required to complete: A minimum of 18 semester units in the major with a grade of C or better while maintaining a minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework. The Associate Arts in Spanish for Transfer Degree will also assist Spanish 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

The Spanish AA-T Degree provides students with the large range of potential educational and career opportunities in the modern language field that include 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. Summarize, discuss, and compare Latina/o civilization and cultures in a modern, historical, social, and political context across continents.
2. Evaluate and discuss Latina/o Literature and Film from a social, cultural, and political context
3. Synthesize vocabulary, language, and reasoning to participate in well developed conversations and write essays.

Degree Requirements:

Core Requirements		**Credit Hours:** (0 Required)
SPAN 001A and	Elementary Spanish *	5
SPAN 001B or	Elementary Spanish *	5
SPAN 022A and	Spanish for Bilingual Speakers I **	5
SPAN 022B	Spanish for Bilingual Speakers II **	5
SPAN 002A and	Intermediate Spanish	5
SPAN 002B	Intermediate Spanish	5

List A. Students choose one from the following		**Credit Hours:** (0 Required)
SPAN 030A	Beginning Conversational Spanish	3
SPAN 030B	Beginning Conversational Spanish	3
SPAN 033A	Beginning Conversational Nauatl	3
SPAN 040	Hispanic Civilization and Culture	3

M/LAT 030A	Survey of Latin-American Films	3
M/LAT 030B	Survey of Latin-American Films	3
M/LAT 032 or	African Heritage of Latin America ***	3
AFRAM 018	African Heritage of Latin America	3
M/LAT 034	History of Latinos in the United States: 1800 to Present	3
M/LAT 036	Survey of Latina/o Literature	3

Credit Hours: (0 Required)

Total Major Units   23

Credit Hours: (0 Required)

IGETC or CSU GE Breath Requirements and Electives   37

Credit Hours: (60 Required)

Total Units   60

Credit Hours: (0 Required)

Total: 60

*: If no experience with the Spanish language
**: For heritage/bilingual speakers or advanced students of Spanish
***: M/LAT 32 is preferred

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Merritt College
Academic Composition Skills

Overview

College	Merritt - Division I
Originator	Isela Santana
Award Type	Certificate of Competency

Codes and Dates

Curriculum Committee Approval Date	11/15/2018
Current Effective Date	1/01/2020
Top Code	1501.00 - English
CIP Code	23.0101: English Language and Literature, General.

Description

This certificate program provides the intensive instruction and practice in critical thinking, research and writing skills necessary for success in transfer-level composition. Writing assignments and activities included in this program are directly connected to academic content of English 1A. The course incorporates embedded tutoring and computer access.

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

Total: 52.500 - 787.500

Merritt College
Bay Area Master Naturalist

Overview

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

Codes and Dates

Curriculum Committee Approval Date	11/01/2018
Top Code	0408.00 - Natural History
CIP Code	03.0101: Natural Resources/Conservation, General.

Description

The Master Naturalist Certificate is designed to promote understanding of the myriad of species and unique ecosystems of the Bay Area. With an emphasis on Natural History, this program offers a wide range of courses on select groups of plants and animals as well as ecosystems of the Bay Area Parklands. The program is ideal for anyone interested in natural history and for those seeking careers in field biology, ecology, and science teaching, including park and museum docents.

Career Opportunities

Field Biologist, Ranger, Docent, Science Teacher.

Program Learning Outcomes

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

1. Students should be able to key and identify Bay Area plants and animals depending upon the course regiment they choose.
2. Students should be able to discuss the key features of Bay Area ecosystems, the effects global warming has on these ecosystems, and strategies for their preservation.

Degree Requirements:

Core Courses **Credit Hours:** (6 Required)

BIOL 061F	Natural History: Freshwater Fishes of the Greater Bay Area	2
BIOL 061M	Natural History: Insects of the Greater Bay Area	1
BIOL 061H	Natural History: Butterflies of the Greater Bay Area	1
BIOL 061G	Natural History: Mammals of the Greater Bay Area	2

Choose 2 units from this group **Credit Hours:** (7.5 - 14 Required)

BIOL 060A	Natural History of the Bay Area: The State Parks, Part I	0.5 - 7
BIOL 060B	Natural History of the Bay Area: Mt. Diablo State Park	1 - 5
BIOL 064C	Natural History of Lime Ridge Preserve	0.5
BIOL 064D	Natural History of Sunol Regional Wilderness	2
BIOL 064F	Natural History of Black Diamond Mines	0.5
BIOL 064G	Natural History: Parklands of the Solano Land Trust	1
BIOL 064L	Natural History of Antioch Dunes	0.5
BIOL 064N	Natural History of Morgan Territory	0.5
BIOL 064O	Natural History of Grizzly Island	0.5

| BIOL 064Q | Natural History of Coyote Hills Regional Park | 0.5 |

Choose 2 units from this group   **Credit Hours:** (2 Required)

BIOL 062E	Natural History of the Sutter Buttes	0.5 - 1.5
BIOL 064E	Natural History of Ano Nuevo State Park	0.5
BIOL 064H	Natural History of Don Edwards San Francisco Bay National Wildlife Refuge	0.5
BIOL 064I	Natural History of Point Reyes National Seashore	1
BIOL 064J	Natural History of the Jepson Prairie	0.5
BIOL 064P	Natural History of Salt Point State Park	0.5
BIOL 064T	Natural History of San Bruno Mountain State Park	0.5

Choose 1 unit from the following   **Credit Hours:** (0 Required)

BIOL 064K	Natural History of the McLaughlin Reserve	1
BIOL 064M	Natural History of the Mt. Hamilton Reserve	1
BIOL 064R	Natural History of Mt. Tamalpais State Park	1
BIOL 064S	Natural History of Mt. St. Helena	1

Choose 1 unit from the following   **Credit Hours:** (1 - 9.5 Required)

| BIOL 080B | Bird Songing: The Ecology of Bird Songs and Identification by Ear | 0.5 - 2.5 |
| BIOL 080C | Fundamentals of Ornithology and Birding in Central California/Bay Area | 0.5 - 7 |

Take 1 unit from the following   **Credit Hours:** (3 - 6 Required)

| BIOL 061C | Natural History of the Bay Area: Herpetology | 1 - 4 |
| BIOL 061D | Natural History: Fall Herpetology of the Bay Area | 2 |

Take 3 units from the following   **Credit Hours:** (7 - 10 Required)

LANHT 005A	Plant Materials: Fall Native Plant ID and Culture with Lab (Day)	3
LANHT 005EB	Plant Materials: Spring Native Plant ID and Culture (Evening)	0 - 3
LANHT 050	Plant Taxonomy	3
LANHT 050L	Plant Taxonomy Lab	1

Choose .5 units from the following   **Credit Hours:** (0.5 Required)

| BIOL 061E | Natural History of the Tide Pools of the Greater Bay Area | 0.5 |
| BIOL 061R | Nudibranchs of the Greater Bay Area | 0.5 |

Choose .5 from the following   **Credit Hours:** (1.5 Required)

BIOL 061I	Natural History: Bryophytes of the Greater Bay Area	0.5
BIOL 061K	Natural History: Lichens of the Greater Bay Area	0.5
BIOL 061J	Ferns of the Greater Bay Area	0.5

Total: 35.000 - 56.000

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Merritt College
Bridge to Credit ESOL

Overview

College	Merritt - Division I
Originator	Elizabeth Maher
Award Type	Certificate of Competency

Codes and Dates

Curriculum Committee Approval Date	11/15/2018
Current Effective Date	1/01/2020
Program Control Number	36826
Top Code	4930.87 - English as a Second Language - Integrated
CIP Code	32.0108: Developmental/Remedial English.

Description

The Bridge to Credit ESOL Certificate verifies that a student has successfully completed the non-credit ESOL course sequence. This sequence prepares students for the academic rigor of credit courses by integrating English language instruction with organizational tools for student success. Students interested in completing the certificate should consult with the ESOL program chair and a counselor.

Career Opportunities

This certificate's emphasis on organizational life skills will prepare non-native speaking students for vocational programs and job advancement. The certificate will provide international students with evidence of English study, which may make a job-seeker more competitive in many countries.

Program Learning Outcomes

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

1. Synthesize written information and technological skills to register for credit-level courses at an educational institution.

Degree Requirements:

Core Courses   **Noncredit:**   (200.2 - 384.3 Required)

Students must complete a minimum of 134 class hours.

ESOL 541A	Bridge to Credit ESOL - Level I	50.05 - 96.075
ESOL 541B	Bridge to Credit ESOL - Level II	50.05 - 96.075
ESOL 541C	Bridge to Credit ESOL - Level III	50.05 - 96.075
ESOL 541D	Bridge to Credit ESOL - Level IV	50.05 - 96.075

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

Instructor or department will determine if student has met the competencies of the program and document it. 0

Total: 200.200 - 384.300

Merritt College
Dietetic Technology

Overview

College   Merritt - Division III
Originator   Heather Casale
Award Type   A.S. Degree

Description

The Dietetic Technology program provides training for Dietetic Technicians, who work cooperatively with Registered Dietitians. The Dietetic Technician is certified by the Academy of Nutrition and Dietetics to screen clients for nutritional risk, and assist in assessing dietary needs, implementing care plans, and supervising food production and service. The Dietetic Technician, trained in food and nutrition, is an integral member of the healthcare, business and industry, public health, food service and research team.

To qualify for the **Associate of Science in Dietetic Technology 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.

NOTE: Students should see a counselor at least once each semester to plan for their educational goal(s).

Career Opportunities

Student that complete this program will be eligible to sit for the national exam to become Registered Dietetic Technicians

Degree Requirements:

Required Major Courses   **Credit Hours:**   (35 Required)

NUTR 010	Nutrition	4
NUTR 012	Nutrition and Disease	3
NUTR 030	Sanitation and Safety	2
NUTR 031	Food-Production Systems	3
NUTR 032	Supervision and Training	3
NUTR 070A	Seminar in Supervised Practice, Level A	2
NUTR 070B	Seminar in Supervised Practice, Level B	3
NUTR 070C	Seminar in Supervised Practice, Level C	3
NUTR 071A	Rotations in Supervised Practice, Level A	2
NUTR 071B	Rotations in Supervised Practice, Level B	2
NUTR 071C	Rotations in Supervised Practice, Level C	2
BIOL 024	Basic Human Anatomy and Physiology [1]	4
HLTOC 201	Medical Terminology I	2

Required General Education Courses   **Credit Hours:**   (19 Required)

Area One - Natural Sciences

BIOL 024	Basic Human Anatomy and Physiology [1]	4

Area Two - Social and Behavioral Sciences

One Psychology or Sociology course   3

Area Three - Humanities

One course   3

Area Four - Language and Rationality

ENGL 001A   Composition and Reading   4

One course in Area 4b (Mathematics)   3

One course in Area 4c (Computer Literacy)   1

One course in Area 4d (Oral or Written Communication, or Literature)   3

Area Five - Ethnic Studies

One course   3

Elective Courses   **Credit Hours:**   (6 Required)

NUTR 001   Survey of Nutrition and Dietetics [2]   1

Any combination of degree-applicable courses   5

                                                               Total: 60

1: Fulfills both 4 units of major requirements and 4 units of general education requirements
2: Highly recommended elective course

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Merritt College
Environmental Management Fundamentals

Overview

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

Codes and Dates

Curriculum Committee Approval Date	11/01/2018
CIP Code	03.0101: Natural Resources/Conservation, General.

Description

The Environmental Management Fundamentals certificate offers students an introduction to the basic concepts of environmental stewardship, provides preparation for specialized coursework, and establishes minimum qualifications for entry-level employment in related public and private agencies.

Career Opportunities

Students with sufficient specialized training often find employment assessing and monitoring environmental quality, preparing environmental impact reports, assisting planners and managers, performing environmental restoration work in urban/suburban, rural, and wildland settings and providing education and interpretation of native ecosystems and cultural history.

Program Learning Outcomes

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

1. Engage in real world problem solving using psychosocial interventions that contribute to healthy communities.
2. Engage in real world problem solving using concepts of ecology related to current resources such as parklands, energy, food, water, and air.
3. Use cultural assets for developing community plans, services, and program evaluation, naturalist talks and outdoor education.
4. Apply an ecological assessment of existing public landscape sites, management practices and develop solutions.
5. Execute the duties of entry level environmental jobs.
6. Upgrade existing position to an environmental position.

Degree Requirements:

Certificate of Proficiency Requirements   **Credit Hours:**   (17 Required)

ENVMT 001	Environmental Careers	1
ENVMT 002	Introduction to Sustainable Environmental Systems	3
ENVMT 002L	Principles of Ecology and Sustainable Systems Lab	1
ENVMT 008	Introduction to Outdoor Education	3
ENVMT 011	Sustainable Urban and Regional Planning	3
ENVMT 033AA	Introduction to Creek and Watershed Restoration: General Aspects	1
ENVMT 033AB	Introduction to Creek and Watershed Restoration: General Aspects	1
ENVMT 033AC	Introduction to Creek and Watershed Restoration: General Aspects	1
ENVMT 040	From Tree to Sea: A Bay Area Environmental Cross Section	3

Total: 17

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Merritt College
Fluorescence Bioscience Microscopy

Overview

College	Merritt - Division III
Originator	Gisele Giorgi
Award Type	Certificate of Proficiency

Codes and Dates

Curriculum Committee Approval Date	11/15/2018
Top Code	0430.00* - Biotechnology and Biomedical Technology
CIP Code	15.0401: Biomedical Technology/Technician.

Description

The Fluorescence Bioscience Microscopy certificate program prepares students for entry- and mid-level jobs in bioscience imaging, research and microscopy, including in the biotech industry. 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

Career opportunities include employment as a director of an imaging core, research lab technician, imaging specialist in research lab or biotech company, imaging equipment sales consultant, imaging product management, software development and sales, microscopy training and research consultant.

Program Learning Outcomes

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

1. Design experiments, critically analyze data, and report results.
2. Acquire digital images on a variety of research-level digital optical microscopes, including motorized widefield fluorescence systems, a spectral imaging confocal and a spinning disk confocal.
3. Master diverse microscopy software programs for all four main brands of research optical microscopes.

Degree Requirements:

Required Courses   **Credit Hours:**   (12 Required)
These courses are required for this Certificate

BIOSC 103	Confocal Microscopy and Research Design	6
BIOSC 104	Bioscience Practicum Research undefined	6

Total: 12

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Merritt College
Fluorescence Bioscience Microscopy

Overview

College	Merritt - Division III
Originator	Gisele Giorgi
Award Type	Certificate of Achievement

Codes and Dates

Curriculum Committee Approval Date	11/15/2018
Current Effective Date	8/01/2019
Top Code	0430.00* - Biotechnology and Biomedical Technology
CIP Code	15.0401: Biomedical Technology/Technician.

Description

The Fluorescence Bioscience Microscopy certificate program prepares students for entry- and mid-level jobs in bioscience imaging, research and microscopy, including in the biotech industry. A Certificate of Achievement will be awarded upon satisfactory completion of the courses specified below.

Career Opportunities

Career opportunities include employment as a director of an imaging core, research lab technician, imaging specialist in research lab or biotech company, imaging equipment sales consultant, imaging product management, software development and sales, microscopy training and research consultant.

Program Learning Outcomes

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

1. Acquire digital images on a variety of research-level digital optical microscopes, including motorized widefield fluorescence systems, a spectral imaging confocal and a spinning disk confocal.
2. Master diverse microscopy software programs for all four main brands of research optical microscopes.
3. Design experiments, critically analyze data, and report results.

Degree Requirements:

Required Courses		**Credit Hours:** (0 Required)
BIOSC 103	Confocal Microscopy and Research Design	6
BIOSC 104	Bioscience Practicum Research	6
		Total: 12

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Merritt College
Greening The Urban Environment

Overview

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

Codes and Dates

Curriculum Committee Approval Date	11/01/2018
CIP Code	03.0299: Natural Resources Management and Policy, Other.

Description

The Greening the Urban Environments certificate offers students an introduction to the technical, ecological, social, and planning fundamentals of sustainable construction projects, preparation for specialized coursework, and minimum qualifications for entry-level employment in public and private green enterprises.

Career Opportunities

Employment in "green" building, design and construction, energy management, and sustainable public planning and policy development. Students could look for work in government agencies, consulting firms, construction, or non-profits. Students will have the opportunity to link this major cooperatively with Laney College's Architectural Technology and Energy Efficiency programs.

Program Learning Outcomes

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

1. 1. Evaluate environmental impacts of new construction vs. retrofit/remodel options, location, and construction materials and techniques, placement on site to create a sustainable design. 2. Evaluate the benefits and drawbacks of specific green-building strategies for particular landscapes and public sites on a policy level. 3. Identify major energy-saving design options, available solar options and water conservation systems and recycling options for a real world application. 4. Design green building, energy, water and landscape integrated environmental technology systems 5. Promote community based sustainable urban planning solutions both as citizen and from within an organization or agency.

Degree Requirements:

Certificate of Proficiency Requirements: **Credit Hours:**   (17 Required)

ENVMT 001 and	Environmental Careers	1
ENVMT 011 and	Sustainable Urban and Regional Planning	3
ENVMT 016 and	Introduction to Healthy Community Systems	3
ENVMT 020 and	Introduction to Green Building and Ecological Design	3
ENVMT 020L and	Introduction to Green Building and Energy Options Lab	1
ENVMT 021	Sustainable Energy Options	3
ENVMT 002 or	Introduction to Sustainable Environmental Systems	3
BIOL 013	Principles of Ecology	3

Total: 17

Merritt College
Histotechnician

Overview

College   Merritt - Division III
Originator   Hank Fabian
Award Type   Certificate of Achievement

Codes and Dates

Curriculum Committee Approval Date   11/15/2018
Program Control Number   35315
Top Code   1205.00* - Medical Laboratory Technology
CIP Code   51.0802: Clinical/Medical Laboratory Assistant.

Description

The Merritt College **Histotechnician** 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

Histotechnician positions in the following: hospital and clinical diagnostic labs, biotech histotechnology labs, academic research labs, agricultural and plant pathology labs, 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: **Credit Hours:**   (51.5 - 58.5 Required)

BIOSC 101	Theory and Practice of Microscopy	6
BIOSC 102	Fluorescence Microscopy and Specimen Prep	6
BIOSC 009	General Histology	5
BIOSC 055	Beginning Histotechniques	5
BIOSC 056	Advanced Histotechniques	5
BIOSC 057	Advanced Immunohistochemistry	2
BIOSC 058	Cytopreparation for the Histotechnician	2
BIOSC 030	Genomics Theory	4

| COPED 476G | Occupational Work Experience in Histotechnology | 1 - 4 |
| BIOL 003 | Microbiology | 5 |

Human Anatomy and Physiology pre-requisites   Credit Hours: (10 Required)

Human Anatomy and Physiology

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 pre-requisite   Credit Hours: (4 - 5 Required)

Chemistry

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

Recommended Sequence   Credit Hours: (40 Required)

1st Semester Courses

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

Second Semester Courses

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

3rd Semester Courses   0

| BIOSC 009 | General Histology | 5 |
| BIOL 004 | Human Physiology | 5 |

4th Semester Courses

| BIOSC 055 | Beginning Histotechniques | 5 |
| BIOSC 057 | Advanced Immunohistochemistry | 2 |

5th Semester Courses

| BIOSC 056 | Advanced Histotechniques | 5 |
| BIOSC 058 | Cytopreparation for the Histotechnician | 2 |

Any Semester   0

| BIOSC 030 | Genomics Theory | 4 |
| BIOL 003 | Microbiology | 5 |

Final Semester

| COPED 476C: Occupational Work Experience in Histotechnology | 4 |

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Merritt College
Natural History

Overview

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

Codes and Dates

Curriculum Committee Approval Date	11/15/2018
Current Effective Date	6/01/2019
Top Code	0408.00 - Natural History
CIP Code	30.9900: Multi/Interdisciplinary Studies, Other.

Description

This Certificate of Proficiency consists of a selection of Natural History lecture and field courses which, when completed, will give students both a broad and basic, as well as specific knowledge of the physical and biological components of selected ecosystems at local, regional and global levels. Students will attain basic and specific knowledge and understanding of the following subject areas in each course: geography, climate and weather, geology, geologic history, geomorphology, flora, fauna, plant and animal communities, ecological interactions and processes, conservation, history and culture. A Certificate of Proficiency will be awarded upon satisfactory completion of 10 units from the courses listed. The Certificate of Proficiency is not indicated on the student's transcript.

Career Opportunities

The Natural History Certificate of Proficiency prepares students for entry-level jobs, provides for job-advancement and continuing education and professional development requirements, and supports docent training with both public and private agencies and companies. These include museums, nature centers, public schools and community colleges, ecotourism company guides, Nature Conservancy Preserves and the University of California Natural Reserve System, environmental consultants, and local, state and national park and national forest interpretive sites and visitor centers.

Program Learning Outcomes

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

1. Contrast and compare climates in local, regional and global settings and predict the characteristics of the ecosystems, both their physical and biotic components, which these climates produce.

2. Explain the origins of an extant landscape based on knowledge of the geology and geologic processes which exist and have been in effect in an ecosystem during geologic time, such as plate tectonics.

3. Elucidate ecological relationships between the various members of the biota of any ecosystem under consideration, both in food chains and webs and in biogeochemical cycles.

4. Evaluate conservation strategies in different regional and global ecosystems based on both the resources and the cultural characteristics of the people involved.

Degree Requirements:

Students must complete 10 units from the following list of courses for the Certificate: **Credit Hours:** (10 Required)

California Courses		**Credit Hours:** (0 Required)
BIOL 062K	Natural History of the Ancient Bristlecone Pine Forest	1.5 - 2
BIOL 062R	Ecology of Yosemite Valley	1.5
BIOL 062S	Natural History of the Islands of California	2
BIOL 062T	Ecology of Mono Lake and the Mono Craters	1.5
BIOL 062U	Natural History of the Giant Sequoia in Yosemite and Sequoia/Kings Canyon National Parks	1.5

BIOL 062V	Ecology of the Mammoth Lakes Sierra and the Ritter Range	1.5
BIOL 062X	Natural History of Headwaters Forest	1.5
BIOL 080D	Ecology of the California Condor	1.5

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

| BIOL 062W | Natural History of the Ice Age National Scenic Trail and Ice Age National Scientific Reserve, Wiscons | 1 |
| BIOL 062Y | Natural History of Arches National Park | 1 |

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

BIOL 065C	Natural History and Gaucho Culture of Uruguay	1
BIOL 065D	Natural History of New South Wales, Australia	1
BIOL 065F	Natural History of Tahiti (French Polynesia)	1

Indians and the Environment   **Credit Hours:**   (0 Required)

| NATAM 076E | California Indian Ecology on the Central Coast | 1.5 |

Total: 10

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Merritt College
Optical Microscopy

Overview

College	Merritt - Division III
Originator	Gisele Giorgi
Award Type	Certificate of Proficiency

Codes and Dates

Curriculum Committee Approval Date	11/15/2018
Top Code	0430.00* - Biotechnology and Biomedical Technology
CIP Code	15.0401: Biomedical Technology/Technician.

Description

The Optical Microscopy certificate program prepares students for entry-level jobs in bioscience microscopy and imaging, including in the biotech industry. 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

Biotech lab assistant in biotech, academic research, government research, imaging core assistant, imaging equipment and software vendors (field applications, inside sales, technical support).

Program Learning Outcomes

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

1. Confidently acquire digital images on a variety of research-level optical microscopes, including phase, DIC, and widefield epifluorescence.
2. Operate diverse microscopy software programs.
3. Prepare brightfield specimens for optical microscopy.
4. Execute basic cell and molecular biology lab techniques, including aseptic technique, following good lab practices.
5. Identify areas of the biotech industry that are relevant to their chosen career pathways.

Degree Requirements:

Required Courses		Credit Hours: (0 Required)
BIOSC 101	Theory and Practice of Microscopy	6
BIOSC 102	Fluorescence Microscopy and Specimen Prep	6
		Total: 12

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Merritt College
Optical Microscopy

Overview

College	Merritt - Division III
Originator	Gisele Giorgi
Award Type	Certificate of Achievement

Codes and Dates

Curriculum Committee Approval Date	11/15/2018
Board of Trustees Date	8/01/2019
Top Code	0430.00* - Biotechnology and Biomedical Technology
CIP Code	15.0401: Biomedical Technology/Technician.

Description

The Optical Microscopy certificate program prepares students for entry-level jobs in bioscience microscopy and imaging, including in the biotech industry. A Certificate of Achievement will be awarded upon satisfactory completion of the courses specified below.

Career Opportunities

Biotech lab assistant in biotech, academic research, government research, imaging core assistant, imaging equipment and software vendors (field applications, inside sales, technical support).

Program Learning Outcomes

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

1. Confidently acquire digital images on a variety of research-level optical microscopes, including phase, DIC, and widefield epifluorescence.

2. Operate diverse microscopy software programs.

3. Prepare brightfield specimens for optical microscopy.

4. Execute basic cell and molecular biology lab techniques, including aseptic technique, following good lab practices.

5. Identify areas of the biotech industry that are relevant to their chosen career pathways.

Degree Requirements:

Required Courses		**Credit Hours:** (0 Required)
BIOSC 101	Theory and Practice of Microscopy	6
BIOSC 102	Fluorescence Microscopy and Specimen Prep	6

Total: 12

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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	11/15/2018
Current Effective Date	1/01/2020
Top Code	4930.14 - Study Skills
CIP Code	32.0199: Basic Skills and Developmental/Remedial Education, Other.

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   **Noncredit:**   (6.3 Required)

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

Total: 6.3

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Merritt College
Urban Agroecology

Overview

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

Codes and Dates

Curriculum Committee Approval Date   11/01/2018
CIP Code   01.0000: Agriculture, General.

Description

The Urban Agroecology Certificate offers students an introduction to the fundamentals of urban food production on small (home garden) and large (school and community garden or farm) scales. Students enrolled in the program will be on the cutting edge of the food movement and engaged in activities around alternative food production, food access for low-income communities, health issues, and practical agricultural skills.

Career Opportunities

This certificate will help prepare students for employment in the areas of urban agriculture, green jobs, school and community gardens, large-scale urban farming, and food and agriculture studies.

Degree Requirements:

Certificate of Proficiency Requirements: **Credit Hours:**   (17 Required)

Code	Title	Credit Hours
ENVMT 002	Introduction to Sustainable Environmental Systems	3
ENVMT 002L	Principles of Ecology and Sustainable Systems Lab	1
ENVMT 003	Social Issues in Agriculture	3
ENVMT 005	Oakland Food Culture	3
LANHT 028A	Permaculture Design I	3
ENVMT 035	Introduction to Urban Agroecology	3
ENVMT 035L	Urban Agroecology Lab	1

Total: 17

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