

# Berkeley City College

## Community Health Worker

### Overview

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

### Codes and Dates

State Approval Date	9/20/2018
Curriculum Committee Approval Date	12/09/2021
Board of Trustees Date	2/27/2018
Current Effective Date	8/01/2022
Program Control Number	37085
Top Code	1261.00* - Community Health Care Worker

### Description

The Community Health Worker certificate is a 105-hour non-credit certificate option designed for students who plan to pursue a career as a Community Health Worker (CHW). California has a labor shortage in Community Health, and recent changes to MediCal have made this a rapidly growing field in the Bay Area.

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

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

### Career Opportunities

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

### Program Learning Outcomes

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

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

### Degree Requirements:

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

**Total: 105**

---

Generated on: 3/21/2022 12:20:10 PM

# Berkeley City College

## Liberal Arts: Arts and Humanities

### Overview

College	BCC - Liberal Arts and Social Sciences
Originator	Ari Krupnick
Award Type	A.A. Degree

### Codes and Dates

State Approval Date	6/10/2021
Curriculum Committee Approval Date	3/03/2022
Board of Trustees Date	6/08/2021
Current Effective Date	8/01/2022
Program Control Number	19267
Top Code	4901.00 - Liberal Arts and Sciences, General

### Description

The A.A. in Liberal Arts with an emphasis in Arts and Humanities provides students with a broad perspective on culture and artistic expression of human beings and societies. It is designed to stimulate appreciation for and understanding of values, ideas, and artifacts of culture and society, specifically as these relate to how different cultures through the ages have responded to themselves and the world around them through the production of creative forms of expression. Critical thinking skills and self-understanding through these courses provide a framework for lifelong study in the liberal arts. Successful completion of the curriculum in Arts and Humanities 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. In all cases, students consult with a counselor to develop a program of study.

### Career Opportunities

Successful completion of the curriculum in Arts and Humanities 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. Describe the connections between specific factors (i.e., politics, religion, science, etc.) of historical periods and the artistic styles and general cultural milieus that emerged from those historical periods.
2. Analyze critically artistic, philosophical and ideological styles, movements, and perspectives in well organized and effective essays.
3. Evaluate major ideas and theories on human creativity, community making, and cultural development in an historically-grounded way, and discuss how these ideas/theories affect individual and social interactions and the politicization of communities.

### Degree Requirements:

**Complete 18 units from a minimum of two disciplines from the following list of choices:** (0 Required)

AFRAM 001	Introduction to African American Studies	3
AFRAM 033	The Roots of African-American Culture	3
ANTHR 018	Introduction to Anthropological Linguistics	3
ARAB 001A	Elementary Modern Standard Arabic	5
ARAB 001B	Elementary Modern Standard Arabic	5
ART 001	Introduction to Art History	3
ART 002	History of Western Art from Prehistory through the Middle Ages	3
ART 003	History of Western Art from Renaissance to Contemporary Art	3
ART 004	History of Modern Art (1800 to Present)	3
ART 013	History of Women in Art	3
ART 016	Introduction to Islamic Art	3
ART 020	Beginning Drawing & Composition	3
ART 022	Intermediate Drawing & Composition	3
ART 046	2-D Visual Design	3
ART 047	3-D Visual Design	3
ART 050	Beginning Painting	3
ART 182	Introduction to Visual Culture	3
ASAME 030	Asians and Asian-Americans Through Films	3
COMM 010	Gender and Communication	3
COMM 019	Survey of Mass Media	3
ENGL 001B	Composition and Reading	4
ENGL 017A	Shakespeare	3
ENGL 017B	Shakespeare	3
ENGL 020	Introduction to Dramatic Literature	3
ENGL 021	Film Criticism and Analysis	3

ENGL 044B	Masterpieces of World Literature	3
ENGL 047	Children's Literature	3
ENGL 050	Multicultural American Literature	3
ENGL 085A	Literature in English Through Milton	4
ENGL 085B	Literature in English: Late 17th through Mid-19th Century	4
ENGL 085C	Literature in English: Mid 19th through the 20th Century	4
FREN 001A	Elementary French	5
FREN 001B	Elementary French	5
HIST 002A	History of Europe to 1500	3
HIST 002B	History of Europe Since 1500	3
HIST 003A	World History to 1500	3
HIST 003B	World History Since 1500	3
HUMAN 001	Introduction to Humanities	3
HUMAN 005	Storytelling in American Culture	3
HUMAN 015	Popular Culture	3
HUMAN 021	Film: Art and Communication	3
HUMAN 026	Global Cinema	4
HUMAN 030A	Human Values/Ethics	3
HUMAN 030B	Human Values/Aesthetics	3
HUMAN 040	Religions of the World	3
HUMAN 052	Women and Cinema	4
HUMAN 053	Comparative Film Genres	4
HUMAN 055	The Representation of Immigration in Cinema and Television	4
HUMAN 057	Film Directors and Artists	4
HUMAN 182	Introduction to Visual Culture	3
HUMAN 226	Global Cinema (Screening)	1
M/LAT 030A	Survey of Latin-American Films	3
M/LAT 030B	Survey of Latin-American Films	3
MUSIC 010	Music Appreciation	3
MUSIC 015A	Jazz, Blues, and Popular Music in the American Culture	3
MUSIC 015B	Jazz, Blues, and Popular Music in the American Culture	3
MMART 123	The Art of Documentary Film	3
PHIL 001	Introduction to Philosophy	3
PHIL 002	Social and Political Philosophy	3
PHIL 011	Formal Logic	3
PHIL 016	Buddhist Philosophy	3
PHIL 020A	History of Ancient Greek Philosophy	3
PHIL 020B	History of Modern European Philosophy	3
PHIL 031A	Human Values/Ethics	3
PHIL 035	Feminist Philosophy	3
PHIL 037	Introduction to Asian Philosophy	3
SPAN 001A	Elementary Spanish I	5
SPAN 001B	Elementary Spanish II	5
SPAN 002A	Intermediate Spanish I	5
SPAN 002B	Intermediate Spanish II	5
SPAN 010A	Advanced Spanish Conversation	3
SPAN 010B	Advanced Spanish Conversation	3
SPAN 022A	Spanish for Bilingual Speakers I	5
SPAN 022B	Spanish for Bilingual Speakers II	5
SPAN 035A	Intermediate Conversational Spanish: Current Events	3
SPAN 035B	Intermediate Conversational Spanish: Film	3
SPAN 038	Latin American Literature	3
SPAN 039	Latin American Novel	3
SPAN 040	Hispanic Civilization and Culture	3
WS 035	Feminist Philosophy	3
WS 052	Women and Cinema	4

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

**Major Requirements: 18**

**Credit Hours:**

**General Education and Electives: 42**

**Credit Hours:**

**Total Units: 60**

**Credit Hours:**

# Berkeley City College

## Liberal Arts: Social and Behavioral Sciences

---

### Overview

College	BCC - Liberal Arts and Social Sciences
Originator	Timothy Rose
Award Type	A.A. Degree

---

### Codes and Dates

State Approval Date	3/12/2016
Curriculum Committee Approval Date	3/17/2022
Board of Trustees Date	3/24/2020
Current Effective Date	8/01/2022
Program Control Number	18597
Top Code	4903.30 - Humanities and Social Sciences

---

### 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 list of courses:** (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 002A	History of Europe to 1500	3
HIST 002B	History of Europe Since 1500	3
HIST 003A	World History to 1500	3
HIST 003B	World History Since 1500	3
HIST 007A	History of the United States to 1877	3
HIST 007B	History of the United States Since 1865	3
HIST 019	History of California	3
HIST 021	U.S. Women: A Social History	3
HIST 031	Contemporary Middle East: The Politics of Nationalism	3
HUSV 121	Introduction to 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
PSYCH 061	Introduction to Biological Psychology	3
SOC 001	Introduction to Sociology	3
SOC 002	Social Problems	3
SOC 005	Minority Groups	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
WS 001	Introduction to Women's Studies	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)

---

Generated on: 3/21/2022 12:19:41 PM

# Laney College

## Communication Studies

---

### Overview

College	Laney - Liberal Arts
Originator	Shirley Brownfox
Award Type	Certificate of Achievement

---

### Description

Communication skills are essential to forming and maintaining personal relationships, acquiring and excelling in a job, and relating to the world around us. Through the study and practice of interpersonal, professional, and intercultural communication skills, students will learn how their perceptions and self-esteem affect their interactions with others. Beyond this, students will improve their abilities to speak, write, and present information effectively, whether in face-to-face interactions or in public or mass-media settings. The Communication Studies CA prepares students for jobs related to the field of speech/communications.

### Career Opportunities

Public service officer, law tech assistant, communications officer, commentator, speech writer.

### Program Learning Outcomes

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

1. Research and think critically about the influence and impact of Mass Media on society.
2. Speak, listen and critically think to resolve conflict and get your message across as intended.
3. Deliver presentations that are clear in message and voice, using appropriate nonverbals.

### Degree Requirements:

**Complete the following core requirement courses:**

**Credit Hours: (12 Required)**

COMM 002A	The Fundamentals of Oral Interpretation of Literature	3
COMM 020	Interpersonal Communication Skills	3
COMM 044	Argumentation	3
COMM 045	Public Speaking	3

**Total: 12**

# Laney College

## Communication Studies

---

### Overview

College	Laney - Liberal Arts
Originator	Shirley Brownfox
Award Type	AA-T Degree

---

### Description

The Associate in Arts Degree in Communication Studies for Transfer 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 Communication 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 (CSU) 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 "P") or better for each course in the major or area of emphasis.
- No more than 60 semester units are required.

The Associate in Arts Degree in Communication Studies for Transfer will also assist Communication 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

Public Affairs, Public Relations, Journalism, Speech Writing, Media Consulting, Politics, Translating, Sales and Marketing, Broadcast News, Entertainment, Mediation, Education, Coaching, Counseling, and Corporate Communication.

### Program Learning Outcomes

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

1. Research and think critically about the influence and impact of Mass Media on society.
2. Speak, listen and critically think to resolve conflict and get your message across as intended.
3. Deliver presentations that are clear in message and voice, using appropriate nonverbals.

### Degree Requirements:

**Core Courses (9 Units):**

	<b>Credit Hours: (0 Required)</b>
COMM 045 Public Speaking	3
COMM 020 Interpersonal Communication Skills	3
COMM 044 Argumentation	3

**This all goes away**

	<b>Credit Hours: (0 Required)</b>
COMM 020 Interpersonal Communication Skills	3

**Complete the following courses (6 units):**

	<b>Credit Hours: (0 Required)</b>
COMM 002A The Fundamentals of Oral Interpretation of Literature	3
COMM 019 or Survey of Mass Media	3
JOURN 062 Survey of Mass Media	3

**Select one course from the following (3-4 units):**

	<b>Credit Hours: (0 Required)</b>
ANTHR 003 Introduction to Social and Cultural Anthropology	3
ENGL 001B Composition and Reading	4
ENGL 005 Critical Thinking in Reading and Writing	3
PSYCH 001A Introduction to General Psychology	3
SOC 001 Introduction to Sociology	3
JOURN 021 Newswriting	3

	<b>Credit Hours: (0 Required)</b>
Total Major Units	18 - 19

	<b>Credit Hours: (0 Required)</b>
IGETC or CSU GE-Breadth Education pattern (37-39)	37 - 39

	<b>Credit Hours: (0 Required)</b>
CSU Transferable General Elective Courses to meet 60 units	

	<b>Credit Hours: (60 Required)</b>
Total Units	60



# Laney College

## Photography

---

### Overview

College	Laney - Humanities, Social Sciences
Originator	Michael Mejia
Award Type	Certificate of Achievement

---

### Codes and Dates

State Approval Date	6/05/2019
Curriculum Committee Approval Date	3/15/2019
Board of Trustees Date	6/12/2019
Current Effective Date	1/01/2020
Program Control Number	21563
Top Code	1012.00* - Applied Photography

---

### Description

The Certificate of Achievement in Photography prepares students for careers as commercial photographers. The program provides the visual literacy, language, and skills required within the photography industry and serves as a foundation for continued education at 4-year institutions. The program moves sequentially through a foundational digital capture and processing to design courses, finishing with professionally oriented studio classes.

### Career Opportunities

This program prepares you for employment in the commercial, industrial, technical, and scientific photographic fields. Intermediate and advanced classes emphasize the digital process prevalent in the industry.

### Program Learning Outcomes

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

1. Model professional and ethical behavior while communicating with clients, management, and team members.
2. Demonstrate technical problem solving skills to determine the best solutions to creative challenges.
3. Demonstrate technical proficiency and application of photographic skills.

### Degree Requirements:

**Core Curriculum (21 units):**

**Credit Hours: (21 Required)**

PHOTO 020	Photojournalism I	3
PHOTO 025	Looking at Images: History and Aesthetics of Photography	3
PHOTO 030A	Beginning Photographic Art and Design	3
PHOTO 071	Introduction to Digital Photography I	3
PHOTO 074A	Beginning DSLR and Lighting for Professional Production I	3
PHOTO 075A	Intermediate DSLR and Lighting for Professional Production I	3
PHOTO 076A	Advanced Professional Photography I	3

**Select one of the following (3 units):**

		<b>Credit Hours: (3 Required)</b>
PHOTO 011	Introduction to Black/White Film Photography	3
PHOTO 012	Intermediate Black/White Darkroom Printing	3
PHOTO 013	Creative Darkroom: Alternative Processes	3
PHOTO 021	Photojournalism II	3
PHOTO 030B	Intermediate Photographic Art and Design	3
PHOTO 030C	Advanced Photographic Art and Design	3
PHOTO 072	Introduction to Digital Photography II	3
PHOTO 074B	Beginning DSLR and Lighting for Professional Production II	3
PHOTO 075B	Intermediate DSLR and Lighting for Professional Production II	3
PHOTO 076B	Advanced Professional Photography II	3
PHOTO 180	HDSLR Workflow for Digital Photography and Cinematography	3
PHOTO 182	Introduction to Lighting for Video and Video Equipped DSLR	3

**Total: 24**

Generated on: 3/23/2022 6:52:05 PM

# Laney College

## Sociology

---

### Overview

College	Laney - Humanities, Social Sciences
Originator	Nathaniel Pyle
Award Type	AA-T Degree

---

### Codes and Dates

State Approval Date	9/24/2014
Curriculum Committee Approval Date	4/21/2014
Board of Trustees Date	6/10/2014
Current Effective Date	1/20/2015
Program Control Number	32884
Top Code	2208.00 - Sociology

---

### Description

The Associate in Arts Degree in Sociology for Transfer 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 Sociology 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 (CSU) 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 "P") or better for each course in the major or area of emphasis.
- No more than 60 semester units are required.

The Associate in Arts Degree in Sociology for Transfer will also assist Sociology 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

Career Options: International Relations, Health Care, Urban Social Work, City Management, Business, Criminal Justice, Community-based Research and Social Activism, Local and State Agencies, Education/Administration

## Program Learning Outcomes

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

1. Outline the research process and describe the different methods used within the discipline of sociology.
2. Distinguish among, and describe, different systems of social stratification, and analyze how these systems create social inequality.
3. Observe, describe, and sociologically analyze contemporary social problems, their causes, and solutions

## Degree Requirements:

### Core Requirements (10 units)

		Credit Hours: (0 Required)
SOC 001	Introduction to Sociology	3
SOC 002	Social Problems	3
MATH 013	Introduction to Statistics	4

### Select any two courses from the following (6 units):

		Credit Hours: (0 Required)
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
PSYCH 006	Social Psychology	3

### Select one course from the following (3 units):

		Credit Hours: (0 Required)
<i>Including any course listed above if not already used.</i>		
PSYCH 001A	Introduction to General Psychology	3
ANTHR 003	Introduction to Social and Cultural Anthropology	3

		Credit Hours: (0 Required)
Total Major Units:		19

IGETC or CSU GE-Breadth Education pattern (37-39)

**Credit Hours:** (0 Required)  
37 - 39

CSU Transferable General Elective Courses to meet 60 units

**Credit Hours:** (0 Required)

Total Units

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

**Total: 60**

Generated on: 3/23/2022 5:46:00 PM

# Merritt College

## DevOps - Development and Operations Automation

### Overview

College	Merritt - Division II
Originator	Courtney Brown
Award Type	Certificate of Achievement

### Codes and Dates

Curriculum Committee Approval Date	3/10/2022
Current Effective Date	1/01/2023
Top Code	0701.00* - Information Technology, General

### Description

DevOps is the use of software DEVELOPMENT tools to automate Information Systems OPERATIONS. It requires Knowledge Skills and Abilities (KSA) of Information Technology (IT) components, configuration and programming that integrate IT components into Information Systems (IS), and the ability to automate the activities through use of the Application Programming Interfaces (API) published by equipment and service providers. The main characteristic of DevOps is to strongly advocate and implement automation and monitoring at all steps of software and infrastructure construction, from integration, testing, and releasing, to deployment and infrastructure management. DevOps aims at shorter development cycles, increased deployment frequency and more dependable releases in close alignment with business objectives.

### Career Opportunities

Computer Systems Engineers/Architects (15-1199.02): • Computer Systems Analysts (SOC 15-1121) • Computer Programmers (SOC 15-1131 • Computer Occupations, All Other (SOC 15-1199) PMI Agile Certified Practitioner (PMI-ACP) exam. <https://www.pmi.org/certifications/types/agile-acp> Apprenticeships: DOL IT Generalist O\*NET Code: 15-1151.00 RAPIDS Code: 1059CB California Department of Industrial Relations (CA-DIR) IT Project Manager [https://www.dir.ca.gov/databases/das/results\\_aiglist.asp?varCounty...=&offset=130](https://www.dir.ca.gov/databases/das/results_aiglist.asp?varCounty...=&offset=130) Information Security Analysts (SOC 15-1122): • Computer and Information Systems Managers (SOC 11-3021) • Computer Systems Analysts (SOC 15-1121) CA-DIR Cybersecurity Technician Apprenticeship - [https://www.dir.ca.gov/databases/das/results\\_aigdetail.asp?varOccId=9266](https://www.dir.ca.gov/databases/das/results_aigdetail.asp?varOccId=9266) DOL Apprenticeship ONET Code:15.112 RAPIDS Code: 1059CB Military Crosswalk Advanced Information Operations (IO) Planner (Marine Corps - Commissioned Officer only) Aviation Logistics Information Management System (ALIMS) Specialist (Marine Corps - Enlisted) Cyberspace Operations, Cyber Command and Control Mission System (Air Force - Commissioned Officer only) Cyberspace Operations, Cyber Security and Control System (Air Force - Commissioned Officer only)

### Program Learning Outcomes

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

1. Plan control of IT Components using Application Programming Interface (API)
2. Select IT operations for automation
3. Design Operations information flow for operations automation monitoring
4. Select and communicate key performance metrics and that define utilization baselines and operational norms.

### Degree Requirements:

Required Major Courses: 24 - 26 units		Credit Hours: (0 Required)
CIS 005 or	Introduction to Computer Science	5
CIS 006 or	Introduction to Computer Programming	5
CIS 007 or	Control Structures and Objects	4
CS 020 and	Python Application Programming	3
CIS 035	Microcomputer Operating Systems	4
CIS 051	Introduction to Information Technology Project Management	4
CIS 072	Systems and Network Administration	3
CIS 107	Administering Cloud Services and Containers	3
CIS 108	Scripting for Systems Automation and Data Analysis	3
CIS 110	Information and Communication Technology Essentials	4

**Restricted Electives: 9 - 12 units** **Credit Hours:** (0 Required)

Select one group of electives from the list below:

**Group A - Social Media and Online Community Management** **Credit Hours:** (0 Required)

SOC 001	Introduction to Sociology	3
PSYCH 001A	Introduction to General Psychology	3
PSYCH 006	Social Psychology	3

**Group B- Cybersecurity Operations** **Credit Hours:** (0 Required)

CIS 053	Intrusion Detection In-Depth: Compliance, Security, Forensics and Troubleshooting	0
CIS 055	Hacker Techniques, Exploits, and Incident Handling	0
CS 060	Applications of Artificial Intelligence and Deep Learning	0
CIS 247	Information Systems Skills Challenge	0

**Group C - Software Engineering Automation and Continuous Integration** **Credit Hours:** (0 Required)

CIS 178	Build Automation for DevOps and QA	0
CIS 179	Agile Software Management and Project Automation	0
CS 080	Software Engineering	0

**Group D - Mobile Applications Build and Test Automation (Group D requires selection of CIS 6 or CIS 7 as the programming course.)** **Credit Hours:** (0 Required)

CIS 033	Software Architectures and Algorithms	4
CIS 093	Cross Platform Mobile Application Development	4
CIS 178	Build Automation for DevOps & QA	4

**Group E - Cloud Systems and Services** **Credit Hours:** (0 Required)

CIS 062	Introduction to Systems Analysis and Design	3
CIS 052	Cloud Security Fundamentals	3
CIS 058	Hacker Guard – Baseline Training for IT Administrators and Operations	3

**Group F -Site Reliability and Scaling (Group F requires selection of CIS 6 or CIS 7 as the programming course.)** **Credit Hours:** (0 Required)

CIS 008 and	Introduction to Parallel and Cloud Programming	4
CIS 100 and	Introduction to Blockchain, Cryptocurrencies, and Identity	3
CS 060	Applications of Artificial Intelligence and Deep Learning	3

**Total Units** **Credit Hours:** (33 - 38 Required)  
 Total Units 33 - 38

**Total: 33.000 - 38.000**

---

Generated on: 3/21/2022 12:39:59 PM

# Merritt College

## DevOps - Development and Operations Automation

### Overview

College	Merritt - Division II
Originator	Courtney Brown
Award Type	A.S. Degree

### Codes and Dates

Curriculum Committee Approval Date	3/10/2022
Current Effective Date	1/01/2023
Top Code	0707.30* - Computer Systems Analysis

### Description

DevOps is the use of software DEVELOPMENT tools to automate INFORMATION SYSTEMS OPERATIONS. It requires Knowledge Skills and Abilities (KSA) of Information Technology (IT) components, configuration and programming that integrate IT components into Information Systems (IS), and the ability to automate the activities through use of the Application Programming Interfaces (API) published by equipment and service providers. The main characteristic of DevOps is to strongly advocate and implement automation and monitoring at all steps of software and infrastructure construction, from integration, testing, and releasing, to deployment and infrastructure management. DevOps aims at shorter development cycles, increased deployment frequency and more dependable releases in close alignment with business objectives.

### Career Opportunities

Computer Systems Engineers/Architects (15-1199.02): • Computer Systems Analysts (SOC 15-1121) • Computer Programmers (SOC 15-1131) • Computer Occupations, All Other (SOC 15-1199) PMI Agile Certified Practitioner (PMI-ACP) exam. <https://www.pmi.org/certifications/types/agile-acp> Apprenticeships: DOL IT Generalist O\*NET Code: 15-1151.00 RAPIDS Code: 1059CB California Department of Industrial Relations (CA-DIR) IT Project Manager [https://www.dir.ca.gov/databases/das/results\\_aiglist.asp?varCounty...=&offset=130](https://www.dir.ca.gov/databases/das/results_aiglist.asp?varCounty...=&offset=130) Information Security Analysts (SOC 15-1122): • Computer and Information Systems Managers (SOC 11-3021) • Computer Systems Analysts (SOC 15-1121) CA-DIR Cybersecurity Technician Apprenticeship - [https://www.dir.ca.gov/databases/das/results\\_aigdetail.asp?varOccId=9266](https://www.dir.ca.gov/databases/das/results_aigdetail.asp?varOccId=9266) DOL Apprenticeship ONET Code:15.112 RAPIDS Code: 1059CB Military Crosswalk Advanced Information Operations (IO) Planner (Marine Corps - Commissioned Officer only) Aviation Logistics Information Management System (ALIMS) Specialist (Marine Corps - Enlisted) Cyberspace Operations, Cyber Command and Control Mission System (Air Force - Commissioned Officer only) Cyberspace Operations, Cyber Security and Control System (Air Force - Commissioned Officer only)

### Program Learning Outcomes

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

1. Plan control of IT Components using Application Programming Interface (API)
2. Select operations to automate in an IT project.
3. Design Operations information flow for operations automation monitoring
4. Select Key Performance Metrics and that define baselines and norms.

### Degree Requirements:

Required Major Courses: 24 - 26 units		Credit Hours: (0 Required)
CIS 005 or	Introduction to Computer Science	5
CIS 006 or	Introduction to Computer Programming	5
CIS 007 or	Control Structures and Objects	4
CS 020 and	Python Application Programming	3
CIS 035	Microcomputer Operating Systems	4
CIS 051	Introduction to Information Technology Project Management	4
CIS 072	Systems and Network Administration	3
CIS 107	Administering Cloud Services and Containers	3
CIS 108	Scripting for Systems Automation and Data Analysis	3
CIS 110	Information and Communication Technology Essentials	4

**Restricted Electives: 9 - 12 units****Credit Hours:** (0 Required)

Select one group of electives from the list below:

**Group A - Social Media and Online Community Management****Credit Hours:** (0 Required)

SOC 001	Introduction to Sociology	3
PSYCH 001A	Introduction to General Psychology	3
PSYCH 006	Social Psychology	3

**Group B- Cybersecurity Operations****Credit Hours:** (0 Required)

CIS 053	Intrusion Detection In-Depth: Compliance, Security, Forensics and Troubleshooting	3
CIS 055	Hacker Techniques, Exploits, and Incident Handling	0
CIS 060	Computer Forensics Fundamentals	3
CIS 247	Information Systems Skills Challenge	1 - 4

**Group C - Software Engineering Automation and Continuous Integration****Credit Hours:** (0 Required)

CS 080	Software Engineering	3
CIS 178	Build Automation for DevOps and QA	4
CIS 179	Agile Software Management and Project Automation	3

**Group D - Mobile Applications Build and Test Automation (Group D requires selection of CIS 6 or CIS 7 as the programming)****Credit Hours:** (0 Required)

CIS 033	Software Architectures and Algorithms	4
CIS 093	Cross Platform Mobile Application Development	4
CIS 178	Build Automation for DevOps and QA	4

**Group E - Cloud Systems and Services****Credit Hours:** (0 Required)

CIS 062	Introduction to Systems Analysis and Design	3
CIS 052	Cloud Security Fundamentals	3
CIS 058	Hacker Guard – Baseline Training for IT Administrators and Operations	3

**Group F -Site Reliability and Scaling (Group F requires selection of CIS 6 or CIS 7 as the programming course.)****Credit Hours:** (0 Required)

CIS 008	Introduction to Parallel and Cloud Programming	4
CIS 100	Introduction to Blockchain, Cryptocurrencies, and Identity	3
CS 060	Applications of Artificial Intelligence and Deep Learning	3

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

Total Major Requirements	33 - 38
--------------------------	---------

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

General Education Requirements (Local AS Degree)	19
--	----

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

Degree electives	3 - 8
------------------	-------

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

Total Units	60
-------------	----

**Total: 60**

Generated on: 3/21/2022 12:36:31 PM