



Merritt College

2017 - 2019 Catalog Supplement



2017-2019 CATALOG



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ABOUT THIS SUPPLEMENT

The Merritt College Catalog Supplement for 2017-2019 is a summary of additions, deactivations, corrections, and changes that have been made in curriculum and policies affecting students since the publication of the 2017-2019 Catalog. Changes to curriculum are made on an ongoing basis throughout the academic year and are usually effective for a subsequent term. All individual course additions and changes show the effective term at the end of each entry. All program additions and changes show the effective term after the program title.

ACCURACY STATEMENT

Merritt College endeavors to accurately and fairly present its programs, course descriptions, schedules and policies and to ensure that all information presented here is correct and current as of the date of its release. Merritt College assumes no responsibility for administrative or publication errors. In addition, Merritt College reserves the right to add, amend, modify or withdraw any of its policies, course descriptions, class schedules or other information reflected here from time to time. Please check our website at www.merritt.edu/wp/catalog for our catalog supplement and the most current, available information.

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COURSE ADDITIONS

SUBJECT/ NUMBER	COURSE TITLE/INFORMATION	EFFECTIVE TERM
ADJUS 248NE	<p>Public Safety Dispatcher Basic Training 5 units, 4.8 hours lecture, 2.05 hours laboratory (P/NP)</p> <p>Role and function of the Public Safety Dispatcher and the skills needed to effectively perform duties and responsibilities of the position: Management and prioritization of radio traffic, evaluation of call information, and operational components of communications system and equipment; basic elements of a crime and an attempt to commit a crime, as well as components and function of the criminal justice system. 2105.00</p>	Summer 2018
BIOL 61R	<p>Nudibranchs of the Greater Bay Area 0.5 units, 0.5 hours lecture (GR or P/NP) Acceptable for credit: CSU</p> <p>Introduction to Nudibranchs of the Greater Bay Area: Species identification and life histories. 0408.00</p>	Spring 2018
BIOL 62J	<p>Natural History of Mt. Whitney and the Southern High Sierra Variable 0.5 to 2.5 units, 0.5 to 2.5 hours lecture (GR or P/NP) Acceptable for credit: CSU</p> <p>Introduction to the natural history of the highest peak in the contiguous 48 states and the adjacent Sierra crest: Climate, geology, geologic history, geomorphology, plant communities, ecology, characteristic animals and conservation issues of the region. Emphasis on glacial landscape features and conservation efforts for the Sierra Nevada Bighorn Sheep, a state and federal endangered species. 0408.00</p>	Spring 2018
BIOL 62R	<p>Ecology of Yosemite Valley 1.5 units, 1.5 hours lecture (GR or P/NP) Acceptable for credit: CSU</p> <p>Geologic origins and historic and present-day biota of Yosemite Valley: Rocks, glaciation, forests, rivers, meadows, native fauna, fire, succession and human impacts. Field sessions are at student's expense. 0408.00</p>	Fall 2018

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SUBJECT/ NUMBER	COURSE TITLE/INFORMATION	EFFECTIVE TERM
BIOL 62S	<p>Natural History of the Islands of California 2 units, 2 hours lecture (GR or P/NP) Acceptable for Credit: CSU/UC</p> <p>Biogeography of California's islands: botany, zoology, and geology of the Channel Islands, Farallon Islands, and San Francisco Bay Islands. 0408.00</p>	Spring 2018
BIOL 62T	<p>Ecology of Mono Lake and the Mono Craters 1.5 units, 1.5 hours lecture (GR or P/NP) Acceptable for Credit: CSU</p> <p>Pleistocene salt lake in the Great Basin Desert of Eastern California: Climate; geology; flora; fauna; history; controversies; and conservation. 0408.00</p>	Spring 2018
BIOL 62U	<p>Natural History of the Giant Sequoia in Yosemite and Sequoia/Kings Canyon National Parks 1.5 units, 1.5 hours lecture (GR or P/NP) Acceptable for Credit: CSU</p> <p>Iconic tree species, endemic to California: Classification; genetic relationships; anatomical and physiological characteristics; geologic history; environment; adaptations; community relationships; threats and exploitation; conservation. 0408.00</p>	Spring 2018
BIOL 62V	<p>Ecology of the Mammoth Lakes Sierra and the Ritter Range 1.5 units, 1.5 hours lecture (GR or P/NP) Acceptable for Credit: CSU</p> <p>Glaciers, volcanoes, alpine lakes, dense subalpine forests: High country geology, glacial landscapes, flora, fauna, ecology and conservation on and east of the Sierra crest. 0408.00</p>	Spring 2018

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SUBJECT/ NUMBER	COURSE TITLE/INFORMATION	EFFECTIVE TERM
BIOL 62W	<p>Natural History of the Ice Age National Scenic Trail and Ice Age National Scientific Reserve, Wisconsin 1 unit, 1 hour lecture (GR or P/NP) Acceptable for Credit: CSU</p> <p>Best and most accessible continental glacial landscape features in the world: Moraines; kettle lakes; kames; eskers; drumlins; glacial erratics; glacial outwash; and glacial lakes. 0408.00</p>	Spring 2018
BIOL 62X	<p>Natural History of Headwaters Forest 1.5 units, 1.5 hours lecture (GR or P/NP) Acceptable for Credit: CSU</p> <p>Pristine old-growth Coast Redwood forest near Arcata: Climate; geology; Redwood ecology; history; political struggle; conservation; and preservation. 0408.00</p>	Spring 2018
BIOL 62Y	<p>Natural History of Arches National Park 1 unit, 1 hour lecture (GR or P/NP) Acceptable for Credit: CSU</p> <p>Unparalleled landscape features in the canyonlands of Southeastern Utah: Natural arches; natural bridges; wild and scenic rivers; high desert wildlife; comparison of hot deserts with cold deserts. 0408.00</p>	Spring 2018
BIOL 65E	<p>Natural History of the Japan Alps 1 unit, 1 hour lecture (GR or P/NP) Acceptable for Credit: CSU</p> <p>Central Japan's mountain spine, the South, Central and North Alps of Honshu: Pacific Rim geology; expansive mountain vistas; dense forests; wildlife, including Japanese macaques; temples; ancient pilgrimage routes; and hot springs. 0408.00</p>	Spring 2018

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SUBJECT/ NUMBER	COURSE TITLE/INFORMATION	EFFECTIVE TERM
BIOL 65F	<p>Natural History of Tahiti (French Polynesia) 1 unit, 1 hour lecture (GR or P/NP) Acceptable for Credit: CSU</p> <p>Overview of geology, flora, and fauna of Tahiti: French Polynesia; botany; zoology; biogeography. 0408.00</p>	Spring 2018
BIOL 65K	<p>Natural History of Kenya .5 unit, .5 hour lecture (GR or P/NP) Acceptable for Credit: CSU</p> <p>Overview of the wildlife and ecosystems of Southern Kenya: Mammals, birds, and reptiles and amphibians. 0408.00</p>	Fall 2018
BIOL 260	<p>Biology Success Skills Variable 0.5 to 1 unit, 0.5 to 1 hour lecture (GR or P/NP)</p> <p>Study of topics basic to biology: Biological chemistry, cell structure and function, genetics, and use of the microscope. 4930.14</p>	Spring 2018
BIOSC 22	<p>Careers in Bioscience 1 unit, 1 hour lecture (GR or P/NP) Acceptable for Credit: CSU</p> <p>Survey of careers in biotechnology, histotechnology, biomedical research, microscopy, and genomics: Career options, tours, networking opportunities and training, resume assistance, job hunting strategies, and hands-on activities. 0430.00</p>	Fall 2018
BIOSC 59	<p>My Genome 3 units, 3 hours lecture (GR or P/NP)</p> <p>Survey of genotypes, phenotypes and ancestry assessed through a student's personal genome. 4902.00</p>	Spring 2018

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SUBJECT/ NUMBER	COURSE TITLE/INFORMATION	EFFECTIVE TERM
BIOSC 101	<p>Theory and Practice of Microscopy 6 units, 4 hours lecture, 6 hours laboratory (GR) Credit By Exam Acceptable for Credit: CSU</p> <p>Comprehensive survey of cutting-edge biological microscopy: Theory of brightfield, fluorescence, and confocal microscopy; extensive hands-on experience with digital brightfield, phase, and epifluorescence microscopes; basics of specimen preparation and digital image processing; exploration of careers in biotech, research, and biomedical sciences; fundamentals of lab safety and industrial and biomedical quality control; and exploration of bioethics. 0430.00</p>	Fall 2018
BIOSC 102	<p>Fluorescence Microscopy and Specimen Prep 6 units, 4 hours lecture, 6 hours laboratory (GR) Credit By Exam Acceptable for Credit: CSU</p> <p>Theory and practice of optical microscopy: Image optimization, troubleshooting; specimen prep including tissue culture, immunohistochemistry, and histotechnological stains; project-based hands-on learning with digital microscopes, including DIC, phase, dark field, and motorized widefield fluorescence; hands-on experience with mammalian cell culture and aseptic technique, indirect immunofluorescence, and H&E staining. 0430.00</p>	Fall 2018
BIOSC 103	<p>Confocal Microscopy and Research Design 6 units, 4 hours lecture, 6 hours laboratory (GR) Prerequisite: BIOSC 102 Credit By Exam Acceptable for Credit: CSU</p> <p>Exploration of theory and practice of advanced fluorescence microscopy techniques: Confocal, deconvolution, multi photon, superresolution, and other emerging technologies; live imaging; quantitative microscopy and morphometry; introduction to experimental design; extensive hands-on training on all major brands of research microscopes, motorized imaging systems, and spectral confocal microscopes. 0430.00</p>	Fall 2018

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SUBJECT/ NUMBER	COURSE TITLE/INFORMATION	EFFECTIVE TERM
CIS 7	<p>Control Structures and Objects 4 units, 3 hours lecture, 3 hours laboratory (GR or P/NP) Recommended Preparation: CIS 5</p> <p>Introduction to computer programming: Algorithm design through use of control structures, flow charting, and debugging; elements of good programming style; introduction to Object Oriented Programming (OOP) through the design and implementation of objects that interact using well-defined interfaces to solve a problem; course may be instructed in any object-oriented programming language such as C++, Java, or Python; first in a sequence of contextualized STEM Core computer science curriculum for High Performance Computing (HPC). 0706.00</p>	Fall 2018
CIS 8	<p>Introduction to Parallel and Cloud Programming 4 units, 3 hours lecture, 3 hours laboratory (GR or P/NP) Prerequisite: CIS 6 Recommended Preparation: MATH 11 Acceptable for credit: CSU</p> <p>Programming fundamentals of using multiple processors or computers to solve a problem: Mechanics of computation, multi-tasking and multi-threading and object-oriented approaches to managing many computing elements working on the same problem. Programming for Cloud computation, Cluster computation, Big Data, Machine Learning, and highly parallel computing hardware, e.g. multi-core processors and Graphics Processing Units. 0701.00</p>	Fall 2018
CIS 11	<p>Discrete Structures and Logic 4 units, 3 hours lecture, 3 hours laboratory (GR or P/NP) Prerequisites: CIS 6 and CIS 33 Acceptable for credit: CSU</p> <p>Discrete structures used in Computer Science with an emphasis on their applications: Functions, relations and sets; basic logic; proof techniques; basics of counting; graphs and trees; and discrete probability. Not open for credit to students who have completed or are currently enrolled in MATH 11. 0706.00</p>	Spring 2019

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SUBJECT/ NUMBER	COURSE TITLE/INFORMATION	EFFECTIVE TERM
CIS 33	<p>Software Architectures and Algorithms 4 units, 3 hours lecture, 3 hours laboratory (GR or P/NP) Prerequisite: CIS 6 Acceptable for credit: CSU</p> <p>Design and development of large programs: Systematic data abstraction, strongly typed data and data structures, object declaration models, inheritance and polymorphism, information hiding, managed frameworks and libraries such as the Standard Template Library (STL), object life cycles and garbage collection, recursion, well-defined algorithms, collections and iterator abstraction, strategies for code re-use, testing, UML and software engineering principles. 0706.00</p>	Fall 2018
CIS 78	<p>Digital Architectures for Computation 4 units, 3 hours lecture, 3 hours laboratory (GR or P/NP) Prerequisite: CIS 6 Recommended Preparation: CIS 72, MATH 11 Acceptable for credit: CSU</p> <p>Organization of digital circuits and computing architectures: Fundamentals of digital circuits, combinational logic and sequential logic; processor components and processing architectures such as Von Neumann and Harvard architecture; control unit instruction word decoding and Instruction Level Parallelism (ILP); high level, assembly, and machine code; memory addressing modes, performance, and memory models; Random Access Model (RAM) and Candidate Type Architecture (CTA); analysis of single threaded code. 0706.00</p>	Fall 2018
CIS 93	<p>Cross Platform Mobile Application Development 4 units, 3 hours lecture, 3 hours laboratory (GR or P/NP) Prerequisites: CIS 6 and CIS 33 Recommended Preparation: CIS 78 Acceptable for credit: CSU, UC Elective-Computer Science</p> <p>Designing and implementing mobile applications: Training on frameworks such as Xamarin, Unity, XDK, Cordova and others, enabling the same code run on several different mobile platforms such as IOS, Android, Windows Mobile, or XBOX. 0701.00</p>	Fall 2018

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SUBJECT/ NUMBER	COURSE TITLE/INFORMATION	EFFECTIVE TERM
CIS 106A	Routing and Switching Networks 3 units, 2 hours lecture, 3 hours laboratory (GR) Recommended Preparation: CIS 5 Acceptable for credit: CSU Introduction to network and inter-network (Internet) architecture: Identification of structures, components, and models that permit devices on separate networks to inter-operate; use and application of standards such as Open Systems Interconnection (OSI); transport Control Protocol (TCP), and Internet Protocol (IP). 0702.00	Fall 2018
CIS 106B	Scaling Networks 3 units, 2 hours lecture, 3 hours laboratory (GR) Prerequisite: CIS 106A Recommended Preparation: CIS 5 Acceptable for credit: CSU Architecture, components, and operations of routers and switches: Controlling the flow of information between complex networks; configuration and troubleshooting of routers and switches for advanced functionality with OSPF, EIGRP, and STP in both IPv4 and IPv6 networks; implementing a WLAN in a small-to-medium network. 0702.00	Fall 2018
CIS 106C	Connecting Networks 3 units, 2 hours lecture, 3 hours laboratory (GR) Prerequisite: CIS 106B Recommended Preparation: CIS 73 Acceptable for credit: CSU Management of Wide Area Networking (WAN) Technologies and Services: Creation of complex and converged networks and applications; establish selection and performance criteria for network devices; monitor and troubleshoot network devices; resolution of common issues with data link protocols, IPsec and virtual private network (VPN) operations. 0702.00	Fall 2018

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CIS 178	<p>Build Automation for DevOps & QA 4 units, 3 hours lecture, 3 hours laboratory (GR or P/NP) Prerequisite: CIS 5 or CIS 6 Recommended Preparation: CIS 72 Acceptable for credit: CSU</p> <p>Design and integration of applications development (Dev) tools and Operations tools (Ops) into automated control systems: monitoring of Source Code Management (SCM) repositories for changes to initiate automate software build, infrastructure provisioning, or configuration updates. Creation of Virtual Machines suitable for on-the-job use through hands-on project based learning. Apply best practices for toolchain configuration, monitoring, and testing software for Quality Assurance (QA). 0701.00</p>	Fall 2018
CIS 221	<p>Cyber Safety, Online Identity, and Computer Literacy 1 unit, .75 hour lecture, .75 hour laboratory (GR/P/NP) Credit by Exam</p> <p>Introduction to computers and instruction in computer safety awareness, identity management, and protection: Overview of computers, mobile devices, software, and connected interactive systems such as social networks; introduction for the novice to cybersecurity career opportunities, cyber ethics, online safety, how computers work, and cyber threats; cybersecurity principles, security policies, tools, account management and fundamental network connectivity and security; analysis and repair of vulnerabilities; introduction to cyber competition. 0701.00</p>	Fall 2018
COPEd 451	<p>Occupational Work Experience Variable 1 to 4 units, 3.43 to 17.15 hours laboratory (GR or P/NP) Acceptable for credit: CSU</p> <p>Supervised employment of students extending classroom-based occupational learning at an on-the-job learning station relating to the students' educational or occupational goals. Course study under this section may be repeatable three times for a maximum of 16 units for occupational or a combination of general and occupational work experience education (including Regular and Alternate Plan and General/Occupational/Apprentice Work Experience). 4932.00</p>	Fall 2018

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SUBJECT/ NUMBER	COURSE TITLE/INFORMATION	EFFECTIVE TERM
EDT 502 Noncredit	<p>Introduction to Online Learning 0 units, 1 hour lecture (P/NP)</p> <p>Online learning literacy: Basic skills required to learn online, LMS functions and online communication. 0801.00</p>	Fall 2018
ESOL 261A	<p>Listening and Speaking 1 4 units, 4 hours lecture (GR or P/NP) Prerequisite: Placement through multiple measures assessment process.</p> <p>High beginning level listening and speaking: Improving fluency and accuracy in American English through listening comprehension, grammar, vocabulary, idioms, pronunciation and presentation skills. Not open for credit to students who have completed ESL 283A. 4930.86</p>	Fall 2018
ESOL 261B	<p>Listening and Speaking 1 4 units, 4 hours lecture (GR or P/NP) Prerequisite: ESOL 261A or ESL 283A</p> <p>Continuation of ESOL 261A: Improving fluency and accuracy in American English through listening comprehension, grammar, vocabulary, idioms, pronunciation and presentation skills. Not open for credit to students who have completed or are currently enrolled in ESL 283B. 4930.86</p>	Fall 2018
ESOL 262A	<p>Listening and Speaking 2 4 units, 4 hours lecture (GR or P/NP) Prerequisite: ESOL 261B or ESL 283B or placement through multiple measures assessment process.</p> <p>Intermediate level listening and speaking: Improving fluency and accuracy in American English through listening comprehension, grammar, vocabulary, idioms, pronunciation, and presentation skills. Not open for credit to students who have completed ESL 232A. 4930.86</p>	Fall 2018

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ESOL 262B	<p>Listening and Speaking 2 4 units, 4 hours lecture (GR or P/NP) Prerequisite: ESL 232A or ESOL 262A</p> <p>Continuation of ESOL 262A: Improving fluency and accuracy in American English through listening comprehension, grammar, vocabulary, idioms, pronunciation and presentation skills. Not open for credit to students who have completed or are currently enrolled in ESL 232B. 4930.86</p>	Fall 2018
ESOL 271A	<p>Grammar 1 4 units, 4 hours lecture (GR or P/NP) Prerequisite: Placement through multiple measures assessment process.</p> <p>High beginning level of English grammar: Basic grammar structures, sentence patterns and parts of speech. Not open for credit to students who have completed ESL 284A. 4930.87</p>	Fall 2018
ESOL 271B	<p>Grammar 1 4 units, 4 hours lecture (GR or P/NP) Prerequisite: ESOL 271A or ESL 284A</p> <p>Continuation of ESOL 271A: Basic grammar structures, sentence patterns and parts of speech. Not open for credit to students who have completed or are currently enrolled in ESL 284B. 4930.87</p>	Fall 2018
ESOL 272A	<p>Grammar 2 4 units, 4 hours lecture (GR or P/NP) Prerequisite: ESOL 271B or ESL 284B or placement through multiple measures assessment process.</p> <p>Intermediate level of English grammar: Introduction to complex grammar structures and sentence patterns. Not open for credit to students who have completed ESL 215A. 4930.87</p>	Fall 2018

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SUBJECT/ NUMBER	COURSE TITLE/INFORMATION	EFFECTIVE TERM
ESOL 272B	<p>Grammar 2 4 units, 4 hours lecture (GR or P/NP) Prerequisite: ESL 215A or ESOL 272A</p> <p>Continuation of ESOL 272A: Introduction to complex grammar structures and sentence patterns. Not open for credit to students who have completed or are currently enrolled in ESL 215B. 4930.87</p>	Fall 2018
ESOL 541A Noncredit	<p>Bridge to Credit ESOL – Level 1 0 units, 5.5 hours lecture (P/NP)</p> <p>Introduction to basic English through the context of daily life activities: Listening, speaking, reading, and writing; basics of language structures, form, computer literacy, classroom culture and study skills within the context of personal information and circumstances. 4930.87</p>	Spring 2019
ESOL 541B Noncredit	<p>Bridge to Credit ESOL – Level 2 0 units, 5.5 hours lecture (P/NP)</p> <p>Continuation of ESOL 541A: Listening, speaking, reading, and writing; basics of language structures and form, computer literacy, classroom culture and study skills within the context of jobs. 4930.87</p>	Spring 2019
ESOL 541C Noncredit	<p>Bridge to Credit ESOL – Level 3 0 units, 5.5 hours lecture (P/NP)</p> <p>Continuation of ESOL 541B: Listening, speaking, reading, and writing; basics of language structures, form, computer literacy, classroom culture and study skills within the context of academic life. 4930.87</p>	Spring 2019
ESOL 541D Noncredit	<p>Bridge to Credit ESOL – Level 4 0 units, 5.5 hours lecture (P/NP)</p> <p>Continuation of ESOL 541C: Listening, speaking, reading, and writing; basics of language structures, form, computer literacy, classroom culture and study skills within the context of life experience. 4930.87</p>	Spring 2019

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SUBJECT/ NUMBER	COURSE TITLE/INFORMATION	EFFECTIVE TERM
KIN 37A	<p>Core and Restore I – Fundamentals 0.5 units, 2 hour laboratory (GR or P/NP) Acceptable for credit: CSU</p> <p>Activity class: Development of fundamental abdominal and core strength and stability in conjunction with using a roller to decrease stress and muscle tension throughout the body, as well as providing muscular rehabilitation. 0835.00</p>	Summer 17
LANHT 7E	<p>Plant Materials: Conifer ID and Culture (Evening) 3 units, 3 hours lecture (GR or P/NP) Recommended Preparation: LANHT 1 or LANHT 1E; and LANHT 23</p> <p>Identification and culture of conifers used in the landscape: Climate, soil, and water preferences; garden culture; pest and disease problems; and pruning and propagation. Slide presentations substituted for laboratory. Not open for credit to students who have completed or are currently enrolled in LANHT 7. 0109.00</p>	Spring 2018
LANHT 80	<p>Urban and Community Forestry 2 units, 2 hours lecture (GR or P/NP)</p> <p>Foundations of urban and community forestry: Technology used in the field by arborists; appraisal and value of urban vegetation; planning for, managing, and applying work practices performed by practitioners in community forestry and urban forestry; urban forestry policies and vegetation ordinances; best practices for local community resources supporting urban forestry. 0109.00</p>	Fall 2018
LANHT 81	<p>Arborist Equipment Fundamentals 2 units, 1 hour lecture, 3 hours laboratory (GR or P/NP)</p> <p>Fundamentals of equipment used in the arborist trade: Chain saws, chippers, plant health care equipment, and aerial lift; truck driving and bucket truck operations; equipment maintenance; equipment safety and safe work practices. 0109.00</p>	Fall 2018

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LANHT 82	<p>Tree Health Care 2 units, 2 hours lecture (GR or P/NP)</p> <p>Exploration of tree health care: Tree management, treatment options, and prescriptions; integrated pest management; plant nutrition; equipment for treatment applications; soil amendment; managing tree construction damage; integrated vegetation management standards; tree risk assessment; and tree hazard management. 0109.00</p>	Fall 2018
LANHT 83	<p>Large Equipment Operations for Arborists 3 units, 2 hours lecture, 3 hours laboratory (GR or P/NP) Prerequisites: LANHT 81 and LANHT 84 and LANHT 86</p> <p>Introduction to large-scale arboriculture equipment: Driving trucks and trailers; operation of lifts, stump grinders, and accessory equipment such as log loaders, booms, and cranes; rigging equipment, techniques, and safety; safe tree removal; felling trees and large limb felling. 0109.00</p>	Fall 2018
LANHT 84	<p>Pruning for Urban and Community Forestry 1 unit, 3 hours laboratory (GR or P/NP) Prerequisite: LANHT 26</p> <p>Principles and practices in pruning for urban and community forestry: Tree care pruning standards and application of those standards to various tree care situations; trees assessment for pruning needs; types of pruning cuts and how to perform the cuts properly; commercial, municipal, and utility applications for pruning; application of pruning practices for specific tree species. 0109.00</p>	Fall 2018
LANHT 85	<p>Introduction to Climbing and Aerial Tree Work 2 units, 1 hour lecture, 3 hours laboratory (GR or P/NP)</p> <p>Practices and techniques of tree climbing and aerial tree work: Pre-climb inspections; climbing equipment for safety; rope installations; ascending skills; re-positioning skills; maneuvering techniques; descending skills; knots for various situations and applications; emergency response procedures including aerial rescue basic concepts. 0109.00</p>	Fall 2018

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LANHT 86	<p>Applied Aerial Tree Work 2 units, 1 hour lecture, 3 hours laboratory (GR or P/NP) Prerequisite: LANHT 85</p> <p>Strategies and techniques of applied aerial tree work: Safe work practices; operating chain saws in an aerial situation; performing pruning cuts at heights; rigging loads during aerial work; climbing in spurs; decision-making for aerial pruning cuts and tree care; aerial rescue training. 0109.00</p>	Fall 2018
LANHT 87	<p>Advanced Aerial Tree Work 2 units, 1 hour lecture, 3 hours laboratory (GR or P/NP) Prerequisites: LANHT 13 and LANHT 83 and LANHT 84 and LANHT 86</p> <p>Advanced, hands-on applications of aerial tree work: Emergency response; aerial rescue; storm preparedness; storm damage response; working with wood under tension; tree risks & mechanics; emerging trends impacting the trade and occupation; skill building in advanced or specialized/technical aerial tasks associated with rigging, removal and felling. 0109.00</p>	Fall 2018
LANHT 88	<p>Crew Leadership in Arboriculture 1 unit, 3 hours laboratory (GR or P/NP) Prerequisites: LANHT 13 and LANHT 80 and LANHT 82 and LANHT 83 and LANHT 84 and LANHT 86</p> <p>Aspects of crew leadership in arboriculture: Preparation for post-training work duties; examination of key job duties and tasks associated with tree care operations; communications, planning, and leadership; setting up job sites; managing resources; reporting work performed; application of communication and interpersonal skills to various work site situations; interpreting written work orders/plans; application of leadership skills to solve problems; examine strategies for creating safe workplaces and modeling safe cultures for diverse populations. 0109.00</p>	Fall 2018

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COURSE ADDITIONS

SUBJECT/ NUMBER	COURSE TITLE/INFORMATION	EFFECTIVE TERM
MATH 230	<p>Elementary and Intermediate Algebra for Business or STEM Majors 6 units, 6 hours lecture, 12 hours laboratory (GR) Prerequisite: MATH 250 or MATH 253 Acceptable for Credit: CSU</p> <p>Combined course in algebra: Systems of equations: inequalities, graphs and functions; radicals, quadratic polynomials, rational expressions; exponential and logarithmic functions, and problem solving, with emphasis on knowledge skills appropriate for students pursuing a major in STEM (Science, Technology, Engineering, Mathematics) or Business. 1701.00</p>	Spring 2018
MATH 261	<p>Pre-Algebra Foundations 5 units, 5 hours lecture (P/NP)</p> <p>Topics from Arithmetic and Pre-Algebra: Use of basic arithmetic in application problems, estimation, the real number system, variables and linear equations, percents, proportions and unit conversion. Not open to students who have taken MATH 253. 1702.00</p>	Fall 2018
MUSIC 15B	<p>Jazz, Blues, and Popular Music in the American Culture 3 units, 3 hours lecture (GR or P/NP) Acceptable for credit: UC/CSU</p> <p>Contemporary music scene with in-depth investigation of trends in artistic expression; music as a revolutionary force; role of the music industry (records, radio, publications); analysis of performances and interviews. 1004.00</p> <p>AA/AS area 3, 5; CSU area C1; IGETC area 3B</p>	Fall 2018
MUSIC 24	<p>Jazz History 3 units, 3 hours lecture (GR or P/NP) Acceptable for Credit: CSU</p> <p>Evolutionary development of jazz music and the artists responsible for its creation: Historical, cultural, and sociological analysis of each style period through extensive guided listening. 1004.00</p>	Summer 2017

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MUSIC 100	<p>Music Fundamentals and Culture 3 units, 3 hours lecture (GR or P/NP) Acceptable for Credit: CSU/UC</p> <p>Introduction to the notation and primary elements of tonal music of music from history and global culture: Example from music literature will demonstrate staff notation in treble and bass clefs, rhythm and meter; basic properties of sound; intervals; diatonic scales and triads; and diatonic chords. Development of skills in handwritten notation is expected. History and social context of the above concepts will be discussed. 1004.00</p>	Fall 2018
RADSC 251	<p>Clinical Experience for the Returning Student (First Year) 4 units, 16 hours laboratory (GR) Prerequisite: RADSC 1B and Non Course Requirements: Background check, drug screening, and health clearances [physical examination, and recent negative TB (PPD) skin test or chest X-ray test results, and recent immunization against diphtheria, tetanus, polio, rubeola, rubella, mumps, and chicken pox (varicella)]. Non-degree applicable</p> <p>Clinical practicum in medical imaging: Review of clinical skills for returning students. 1225.00</p>	Summer 2018

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COURSE MODIFICATIONS			
SUBJECT/ NUMBER	CHANGE FROM:	CHANGE TO:	EFFECTIVE TERM
ADJUS 21	Credit by Exam: No	Credit by Exam: Yes	Summer 2018
ADJUS 22	Credit by Exam: No	Credit by Exam: Yes	Fall 2018
ADJUS 23	Credit by Exam: No	Credit by Exam: Yes	Summer 2018
ADJUS 25	Credit by Exam: No	Credit by Exam: Yes	Spring 2018
ADJUS 57	Credit by Exam: No Recommended Preparation: ADJUS 21	Credit by Exam: Yes Recommended Preparation: ADJUS 21; and ENGL 201A or ENGL 201B	Fall 2018
ART 25	Course Title: Beginning Figure Drawing and Composition	Course Title: Fundamentals of Drawing	Fall 2018
ART 166	Course Description: Exploration through drawing of basic plant structures: Recording details of various plant forms; emphasis on rendering form, color, and texture with graphite, ink pen, colored pencils, and watercolor.	Course Description: Exploration through drawing of basic plant structures: Recording details of various plant forms; emphasis on rendering form and texture with graphite pencils, graphite powder, white drawing pencils and ink pens.	Fall 2018
BIOSC 9	Recommended Preparation: BIOL 2	Prerequisite: BIOL 2 or BIOL 020A; and BIOSC 2 and BIOSC 5 and BIOSC 10 and BIOSC 11	Spring 2018
BIOSC 55	4 units 3 hours lecture, 3 hours laboratory Prerequisites: none	5 units 3 hours lecture, 6 hours laboratory Prerequisites: BIOSC 2 and BIOSC 9 and CHEM 30A	Spring 2018
BIOSC 56	4 units 3 hours lecture, 3 hours laboratory	5 units 3 hours lecture, 6 hours laboratory	Spring 2018

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COURSE MODIFICATIONS			
SUBJECT/ NUMBER	CHANGE FROM:	CHANGE TO:	EFFECTIVE TERM
BIOL 62L	Description: Climate, geology, ecology, history and continuing conservation issues of the Coast Redwood, <i>Sequoia sempervirens</i> , in the National and State Parks of California.	Description: Survey of California Redwoods: Climate, geology, natural history and conservation.	
CHEM 1A	GR, P/NP Prerequisite: MATH 203 or MATH 211D Recommended preparation: CHEM 30A or CHEM 50	GR only Prerequisites: Satisfactory score on the chemistry assessment or CHEM 30A or CHEM 50; and satisfactory score on the math assessment or MATH 203 or MATH 211A-D	Spring 17
CIS 5	Top Code: 0701.00	Top Code: 0706.00	Summer 2018
CIS 53	1.5 hours lecture, 5 hours laboratory	2 hours lecture, 3 hours laboratory	Summer 2018
CIS 57	Recommended preparation: CIS 5 or CIS 1; and CIS 55 and CIS 60 and CIS 71	Recommended preparation: CIS 5 or CIS 6; and CIS 55 and CIS 60 and CIS 71	Fall 2018
CIS 58	Recommended Preparation: CIS 1 or CIS 5; and CIS 55 and CIS 60 and CIS 72	Recommended preparation: CIS 5 or CIS 6; and CIS 055 and CIS 60 and CIS 72	Fall 2018
CIS 59	2 hours lecture	2 hours lecture, 3 hours laboratory	Spring 2018
CIS 60	Recommended Preparation: CIS 1 or CIS 5; and CIS 71 or CIS 72	Recommended preparation: CIS 5 or CIS 6; and CIS 71 or CIS 72	Fall 2018
COPEd 450	1-3 unit Hours to be arranged	1-4 units 3.43 – 12.86 hours laboratory	Fall 2018
COPEd 476A	Hours to be arranged	9 hours laboratory	Fall 2018

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COURSE MODIFICATIONS			
SUBJECT/ NUMBER	CHANGE FROM:	CHANGE TO:	EFFECTIVE TERM
COUN 200C	Top code: 4930.10	Top Code: 4930.32	Summer 2018
COUN 207C	Catalog Description: Job search skills: Resumes, cover letters, telephone skills, and interviewing techniques.	Catalog Description: Job search skills: Resumes, cover letters, telephone skills, networking, and interviewing techniques.	Fall 2018
COUN 221	.5 – 1 units .5 – 1 hour lecture Top code: 4930.10	.5 unit .5 hour lecture Top code: 4901.10	Fall 2018
ECON 1	Prerequisite: MATH 203 or MATH 205B or MATH 211D	Prerequisite: MATH 203 or MATH 211D or MATH 230	Summer 2018
ECON 2	Prerequisite: MATH 203 or MATH 205B or MATH 211D	Prerequisite: MATH 203 or MATH 211D or MATH 230	Summer 2018
ENGL 264A	5 units 4 hours lecture, 3 hours laboratory	4 units 3 hours lecture, 3.5 hours laboratory	Fall 2018
ENGL 264B	5 units 4 hours lecture, 3 hours laboratory	4 units 3 hours lecture, 3.5 hours laboratory	Fall 2018
ESOL 502 Noncredit	Subject : ESL	Subject: ESOL	Fall 2018
ESOL 503 Noncredit	Subject : ESL	Subject: ESOL	Fall 2018
ESOL 504 Noncredit	Subject : ESL	Subject: ESOL	Fall 2018
ESOL 505 Noncredit	Subject : ESL	Subject: ESOL	Fall 2018

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COURSE MODIFICATIONS			
SUBJECT/ NUMBER	CHANGE FROM:	CHANGE TO:	EFFECTIVE TERM
NUTR 70C	Hybrid Requisite: NUTR 70B or NUTR 240B Corequisite: NUTR 71C	Corequisite: NUTR 71C	Spring 2019
NUTR 71C	1-4 units 1-2 hours lecture	2 units 2 hours lecture	Summer 2018
PHYS 4A	Description: Comprehensive study of major topics of physics: Motion, forces, gravity, energy, momentum, rotation, equilibrium, fluids, oscillations, waves, and sound for students majoring in engineering or the physical sciences. Prerequisite: MATH 3A Recommended Preparation: PHYS 10	Description: Comprehensive study of major topics of physics: Motion, forces, gravity, energy, momentum, rotation, equilibrium, fluids, oscillations, waves, and sound. Prerequisite: MATH 3A Corequisite: MATH 3B Recommended Preparation: PHYS 10	Fall 2018
PHYS 4B	Prerequisites: PHYS 4A, MATH 3B	Prerequisites: PHYS 4A and MATH 3B Corequisite: MATH 3C	Fall 2018
PHYS 4C	Prerequisites: PHYS 4B, MATH 3C	Prerequisites: PHYS 4B and MATH 3C Corequisites: MATH 3E and MATH 3F	Fall 2018
PHYS 10	Catalog Description: Elementary study of major topics of physics: motion, forces, energy, momentum, rotation, oscillation, sound, electromagnetics, light, quantum physics, atoms, nuclei, and relativity.	Catalog Description: Elementary study of major topics of physics: Motion, forces, gravity, matter, energy, momentum, rotation, oscillation, sound, heat, thermodynamics, electromagnetism, light, quantum physics, atoms, nuclei, and relativity. Not open for credit to students who have completed or are currently enrolled in PHYS 2A-2B, 3A-3B, or 4A-4B-4C.	Fall 2018

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COURSE DEACTIVATIONS		
SUBJECT/NUMBER	COURSE TITLE	EFFECTIVE TERM
ANTHR 18	Introduction to Anthropological Linguistics	Spring 2018
BIOL 48PC	Natural History of Switzerland and the Swiss Alps	Spring 2018
BIOL 50	Natural History: Geotectonic Biology of the Greater Bay Area	Spring 2018
BIOL 54	Field Notes and Field Journals for the Master Naturalist	Spring 2018
BIOL 105	Pinnacles Natural History	Summer 2018
BIOL 802A	Birds of Southeast Arizona	Summer 2018
BIOL 848NI	Natural History of Papua New Guinea – Field Studies	Summer 2018
BIOL 848NT	Natural History of Newfoundland, Canada – Field Study 2	Summer 2018
BIOL 848QD	Natural History of the Swiss Alps Field Study II	Summer 2018
BIOSC 2	Theory and Practice of Optical Microscopy	Fall 2018
BIOSC 3	Fluorescence Microscopy in Bioscience	Fall 2018
BIOSC 4	Advanced Microscopy Research Practicum	Fall 2018
BIOSC 5	Good Laboratory Practices	Fall 2018
BIOSC 6	Survey of Biotech Industry	Fall 2018
BIOSC 7	Practical Mammalian Cell Culture	Fall 2018

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COURSE DEACTIVATIONS

SUBJECT/NUMBER	COURSE TITLE	EFFECTIVE TERM
BIOSC 8	Immunohistochemistry	Fall 2018
BIOSC 10	Fluorescence Microscopy Laboratory	Fall 2018
BIOSC 11	Lab Safety and Ethics	Fall 2018
BIOSC 13	Research Design	Fall 2018
BIOSC 14	Digital Imaging Software for Microscopy	Spring 2019
BIOSC 15	Live-Cell Imaging	Spring 2019
BIOSC 16	Confocal Microscopy Laboratory	Fall 2018
BIOSC 48NB	Good Laboratory Practices II	Spring 2018
BIOSC 48NF	Seminar in Microscopy Internship	Fall 2018
BIOSC 48NH	Live-Cell Imaging	Fall 2018
BIOSC 39	Introduction to Modern Medical Diagnostic Techniques	Summer 2018
ENVST 70D	Natural History of the Owyhee River and the High Desert of Eastern Oregon	Summer 2018
ENVST 802A	Birds of Southeast Arizona	Summer 2018
ESL 215A	Intermediate Grammar	Fall 2018
ESL 215B	Intermediate Grammar	Fall 2018

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COURSE DEACTIVATIONS

SUBJECT/NUMBER	COURSE TITLE	EFFECTIVE TERM
ESL 218B	ESL Writing Workshop	Fall 2018
ESL 218C	ESL Writing Workshop	Fall 2018
ESL 218D	ESL Writing Workshop	Fall 2018
ESL 222A	Intermediate Reading and Writing	Fall 2018
ESL 222B	Intermediate Reading and Writing	Fall 2018
ESL 232A	Intermediate Listening and Speaking	Fall 2018
ESL 232B	Intermediate Listening and Speaking	Fall 2018
ESL 252B	Grammar 2	Fall 2018
ESL 273	ESL Through Computers 2/3	Fall 2018
ESL 283A	High Beginning Listening and Speaking	Fall 2018
ESL 283B	High Beginning Listening and Speaking	Fall 2018
ESL 284A	High Beginning Grammar	Fall 2018
ESL 284B	High Beginning Grammar	Fall 2018
ESL 285A	High Beginning Reading and Writing	Fall 2018
ESL 285B	High Beginning Reading and Writing	Fall 2018

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COURSE DEACTIVATIONS

SUBJECT/NUMBER	COURSE TITLE	EFFECTIVE TERM
ESL 502	English for Infant/Toddler Development	Fall 2018
ESL 503	English for Infant/Toddler Curriculum	Fall 2018
ESL 504	English for Early Childhood Development	Fall 2018
ESL 505	English for Early Childhood Education Curriculum	Fall 2018
LANHT 22B	Landscape Design Laboratory	Spring 2018
LANHT 32	Designing with Native Plants	Fall 2018
LANHT 33	Design Evaluation of Bay Area Landscapes	Fall 2018
LANHT 220	Edible Landscape	Spring 2018
MUSIC 38	Elementary Piano	Fall 2018
MUSIC 40	Intermediate Piano	Fall 2018
NURS 260C	Nursing Skills Lab	Summer 2018
NURS 260D	Nursing Skills Lab	Summer 2018
NUTR 246	Occupational Work Experience in Nutrition and Dietetics	Fall 2018
NUTR 848NA	Preparation for the Certified Dietary Manager Exam	Summer 2018
PE 73	Track and Field – Officiating	Spring 2018

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COURSE DEACTIVATIONS

SUBJECT/NUMBER	COURSE TITLE	EFFECTIVE TERM
PE 91	Basketball – Men (Intercollegiate)	Fall 2018
PE 92	Basketball – Women (Intercollegiate)	Fall 2018
PE 100A/B	Track and Field – Men and Women (Intercollegiate)	Fall 2018
PE 110	Physical Fitness for Public Safety Personnel	Fall 2018

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CATALOG CORRECTIONS

DEPT/NO.	Catalog Page	Error:	Correction:
AFRAM 11	page 110	Acceptable for credit: CSU AA/AS area 2, 5; CSU area D	Acceptable for credit: CSU, UC AA/AS area 2, 5; CSU area D; IGETC area D
AFRAM 23	page 111	Acceptable for credit: CSU AA/AS area 2, 5; CSU area D	Acceptable for credit: CSU, UC AA/AS area 2, 5; CSU area D; IGETC area D
ATHL 30	page 128	2 units	3 units
BIOSC 9	page 143	6 units	5 units
BIOSC 34	page 145	1-3 units, 1-3 hours lecture Prerequisites: BIOSC 36 and BIOSC 30	3 units, 3 hours lecture Prerequisite: BIOSC 30
BIOSC 35	page 145	6 units	5 units
BIOSC 36	page 145	Prerequisites: none	Prerequisite: BIOSC 30
BIOSC 72	page 147	4 units	3 units
BUS 1A	page 156	3 units	4 units
CHEM 1A	Page 158	(GR or P/NP)	(GR)
CIS 20	page 183	Active	Inactive (2013)
CIS 59	page 185	3 hours lecture	2 hours lecture, 3 hours lab

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CATALOG CORRECTIONS

DEPT/NO.	Catalog Page	Error:	Correction:
COPED 476A	page 188	1 -4 units	3 units
COUN 501	page 190	Not Graded	P/NP
ENGL 100	page 198	3 units	4 units
ENGL 201A	page 199	prerequisites	Prerequisite: ENGL 252B or appropriate placement through multiple measures
ENGL 264A	page 199	6 units	5 units
ESOL	page 200	English as a Second Language	English for Speakers of Other Languages
GEOL 1	page 215	3 units	4 units
GEOL 21	page 216	CSU area B1	CSU area B1
KIN 67D	page 223		Acceptable for credit: CSU, UC
MATH 203	page 256	3 units	4 units
LANHT 18LA	page 241	Acceptable for credit: CSU	Acceptable for credit: CSU, UC
LANHT 18LB	page 241	Acceptable for credit: CSU	Acceptable for credit: CSU, UC
LANHT 29E	page 243	5 units	4 units
LANHT 46	page 245	4 units	3 units

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CATALOG CORRECTIONS

DEPT/NO.	Catalog Page	Error:	Correction:
LANHT 55	page 246	Acceptable for credit: CSU	Acceptable for credit: CSU, UC
LRNRE 501 Noncredit	page 251	(Not graded)	(P/NP)
MATH 2	page 253	4 units	5 units
NUTR 31	page 278	2 units	3 units
PARLG 16	page 282	Prerequisites: PARLG 1 and PARLG 6 Corequisite: COPED 474A Recommended Preparation: PARLG 1 and PARLG 8	Prerequisite: PARLG 6 Corequisites: COPED 474A and PARLG 11 and PARLG 8 Recommended Preparation: PARLG 1
RADSC 1B	page 293	6 hours lecture per week for 6 weeks	2.06 hours lecture
RADSC 9A	page 295	5 units	4 units
SOC 1	page 302	SOC 5 Minority Groups	SOC 1 Introduction to Sociology

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PROGRAM ADDITIONS

LANDSCAPE HORTICULTURE (LANHT)

Arboriculture Associate of Science Degree

Effective Fall 2018

Catalog Description:

This Arboriculture Degree Program prepares workers for careers linked to urban forestry related occupations, including arborist, arboriculture, tree care specialist, tree trimming, grounds maintenance, aerial tree work, crew leader and other identified occupations. This program follows an industry validated training model which combines classroom learning, and hands-on skill development in school shops/labs and training centers. The curriculum provides a strong foundation in basic horticultural principles, plant biology and physiology, tree ID, and urban forestry concepts; industry standard skills and practices related to safe work practices, trees/shrub maintenance, tree removal, advanced climbing skills, small and large equipment use, and leadership skills.

To qualify for the AS Degree in Arboriculture students must complete all of the Degree Major Requirements and local AS/General Ed Requirements.

Career Opportunities:

Tree Care Industry Established Positions and Job Titles include: Tree Care Specialist/Worker with Certification; Ground worker; Arborist (Certified); Tree Climber; Plant Health Care Technician; Utility Line Clearance Tree Trimmer; and City, County or Municipality Forestry Worker.

Degree Requirements (62 units): SUGGESTED COURSE SEQUENCE

First Semester (16 units Required):		Third Semester (15 units Required):	
LANHT 1 or Introduction to Landscape Horticulture with Lab (Day)	3	LANHT 11 Plant Diseases and Their Management 3	3
LANHT 1E Introduction to Landscape Horticulture (Evening)	3	LANHT 16 Soil Management 3	3
LANHT 13 or Arboriculture with Lab (Day)	3	LANHT 83 Large Equipment Operations for Arborists 3	3
LANHT 13E Arboriculture (Evening)	3	LANHT 206 Landscape Business Practices 3	3
LANHT 23 Plant Terminology	2.5	<i>Above courses plus 3 units of general education</i>	3
LANHT 26 Pruning	.5		
LANHT 81 Arborist Equipment Fundamentals	2		
LANHT 85 Introduction to Climbing and Aerial Tree Work	2		
<i>Above courses plus 3 units of General Education</i>	3		
Second Semester (16 units Required):		Fourth Semester (15 units Required):	
LANHT 2 or Plant Materials: Tree ID and Culture with Lab (Day) 3	3	LANHT 10 Insect Pests 3	3
LANHT 2E Plant Materials: Tree ID and Culture (Evening) 3	3	LANHT 87 Advanced Aerial Tree Work 2	2
LANHT 80 Urban and Community Forestry 2	2	LANHT 88 Crew Leadership in Arboriculture 1	1
LANHT 82 Tree Health Care 2	2	<i>Above courses plus 9 units of general education</i>	9
LANHT 84 Pruning for Urban and Community Forestry 1	1		
LANHT 86 Applied Aerial Tree Work 2	2		
<i>Above courses plus 6 units of general education</i>	6		
		Total General Education Units:	21
		Total Major Units:	41
		Total Degree Units:	62

PROGRAM LEARNING OUTCOMES

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

1. Apply tree biology and physiology to arboriculture practices.
2. Operate equipment safely.
3. Conduct site assessments and assess trees to mitigate risks.
4. Establish and maintain trees and shrubs safely; remove trees and shrubs safely.
5. Apply tree health care treatments.
6. Apply advanced aerial tree work.

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PROGRAM ADDITIONS

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES (ESOL)

Bridge to Credit ESOL Certificate of Competency (Noncredit)

Effective Spring 2019

The Bridge to Credit Certificate of Competency (CC ESOL) prepares students for credit coursework through a series of 8-week intensive non-credit English courses that serve two main purposes: 1) to ensure that students gain the English language requirements to enter the credit ESOL program, and 2) to prepare students for the academic rigor of credit courses by introducing them to organizational tools that will help them succeed in college.

Catalog Description:

The Bridge to Credit Certificate of Competency (CC ESOL) 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.

Certificate Requirements:

Requirements	Dept. Name/#	Name	Hours	Merritt GE	Sequence
Core Courses	ESOL 541A	Bridge to Credit ESOL – Level 1	96.25		Year 1, Fall
	ESOL 541B	Bridge to Credit ESOL – Level 2	96.25		Year 1, Fall
	ESOL 541C	Bridge to Credit ESOL – Level 3	96.25		Year 1, Fall
	ESOL 541D	Bridge to Credit ESOL – Level 4	96.25		Year 1, Fall
Total Hours:			385.00		

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.

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PROGRAM ADDITIONS

BIOSCIENCE (BIOSC)

Phylogenetic Analysis Certificate of Proficiency

Effective Spring 2017

Catalog Description:

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

Career Opportunities:

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

Certificate Requirements (14-15 units):

Required courses:		
BIOSC 30	Genomics Theory	4
BIOSC 31	Advanced Genomics Theory	4
BIOSC 42	Mining GenBank	3
Choose:		
BIOSC 61 and	Sequence Analysis Using MacVector	1
BIOSC 62 and	Methodologies in Phylogenetics Using PAUP	1
BIOSC 063	Introduction to Character Tracing Using MacClade	1
or		
BIOSC 39	Comparative Genomics and Phylogenetics	4
	Total Certificate Units:	14 - 15

PROGRAM LEARNING OUTCOMES

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

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

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PROGRAM ADDITIONS

LANDSCAPE HORTICULTURE (LANHT)

Tree Care Specialist, Certificate of Achievement

Effective Fall 2018

Catalog Description:

This one year Tree Care Specialist Certificate Program trains students to work in the following fields/jobs: Tree care specialist/worker with certification; ground worker; arborist; plant health care technician; utility arborist; sales and consulting; city, county or municipal forester. The curriculum provides a strong foundation in basic horticultural principles, plant biology and physiology, tree ID, and urban forestry concepts; industry standard skills and practices related to safe work practices, trees/shrub maintenance, such as pruning, planting, establishment; small equipment use, tree health care and tree risk assessment.

Career Opportunities:

Tree Care Industry Established Positions and Job Titles include: Tree care specialist; Plant health care technician; Ground worker; Sales and consulting; Arborist (certified by ISA); Utility arborist; and Urban forester.

Certificate Requirements (21 units):

LANHT 1 or	Introduction to Landscape Horticulture with Lab (Day)	3
LANHT 1E	Introduction to Landscape Horticulture (Evening)	3
LANHT 2 or	Plant Materials: Tree ID and Culture with Lab (Day)	3
LANHT 2E	Plant Materials: Tree ID and Culture (Evening)	3
LANHT 13 or	Arboriculture with Lab (Day)	3
LANHT 13E	Arboriculture (Evening)	3
LANHT 23	Plant Terminology	2.5
LANHT 26	Pruning	0.5
LANHT 80	Urban and Community Forestry	2
LANHT 81	Arborist Equipment Fundamentals	2
LANHT 82	Tree Health Care	2
LANHT 84	Pruning for Urban and Community Forestry	1
LANHT 85	Introduction to Climbing and Aerial Tree Work	1
Total Certificate Units:		21

PROGRAM LEARNING OUTCOMES

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

-
1. Apply tree biology and physiology to arboriculture practices.
 2. Conduct site assessments and assess trees to mitigate risks.
 3. Apply tree health care treatments.
 4. Establish and maintain trees and shrubs safely.

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PROGRAM ADDITIONS

LANDSCAPE HORTICULTURE (LANHT)

Tree Climber Specialist Certificate of Achievement

Effective Fall 2018

Catalog Description:

This Tree Climber Specialist Certificate of Achievement prepares workers for careers linked to urban forestry related occupations, including arborist, arboriculture, tree care specialist, tree trimming, grounds maintenance, aerial tree work, crew leader and other identified occupations. This program follows an industry validated training model which combines classroom learning, and hands-on skill development in school shops/labs and training centers. The curriculum provides a strong foundation in basic horticultural principles, plant biology and physiology, tree ID, and urban forestry concepts; industry standard skills and practices related to safe work practices, trees/shrub maintenance, tree removal, advanced climbing skills, small and large equipment use, and leadership skills.

Career Opportunities:

Tree Care Industry Established Positions and Job Titles include: Tree Care Specialist/Worker with Certification; Ground worker; Arborist (Certified); Tree Climber; Plant Health Care Technician; Utility Line Clearance Tree Trimmer; and City, County or Municipality Forestry Worker.

Certificate Requirements (41 Units):

LANHT 1 or	Introduction to Landscape Horticulture with Lab (Day)	3
LANHT 1E	Introduction to Landscape Horticulture (Evening)	3
LANHT 2 or	Plant Materials: Tree ID and Culture with Lab (Day)	3
LANHT 2E	Plant Materials: Tree ID and Culture (Evening)	3
LANHT 10	Insect Pests	3
LANHT 13 or	Arboriculture with Lab (Day)	3
LANHT 13E	Arboriculture (Evening)	3
LANHT 16	Soil Management	3
LANHT 23	Plant Terminology	2.5
LANHT 26	Pruning	0.5
LANHT 80	Urban and Community Forestry	2
LANHT 81	Arborist Equipment Fundamentals	2
LANHT 82	Tree Health Care	2
LANHT 83	Large Equipment Operations for Arborists	3
LANHT 84	Pruning for Urban and Community Forestry	1
LANHT 85	Introduction to Climbing and Aerial Tree Work	2
LANHT 86	Applied Aerial Tree Work	2
LANHT 87	Advanced Aerial Tree Work	2
LANHT 88	Crew Leadership in Arboriculture	1
LANHT 206	Landscape Business Practices	3
Total Certificate Units:		41

PROGRAM LEARNING OUTCOMES

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

1. Apply tree biology and physiology to arboriculture practices.
2. Operate equipment safely.
3. Conduct site assessments and assess trees to mitigate risks.
4. Establish and maintain trees and shrubs safely; remove trees and shrubs safely.
5. Apply tree health care treatments.
6. Apply advanced aerial tree work.

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PROGRAM MODIFICATIONS

Changes are highlighted within program summary

Biology (BIOL)

Natural History Certificate of Proficiency

Effective Fall 2018

Catalog 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.

Certificate Requirements:

Students must complete 10 units from the following list of courses:		
California Courses:		
BIOL 62E	Natural History of the Sutter Buttes	1 - 1.5
BIOL 62K	Natural History of the Ancient Bristlecone Pine Forest	1.5 - 2
BIOL 62L	Ecology of California Redwood National and State Parks	1.5
BIOL 62N	Natural History of the Carrizo Plain	1.5
BIOL 62P	Ecology of Mineral King, Sequoia National Park	3
BIOL 62Q	Ecology of the California Cascades and Mount Shasta	1.5
BIOL 62R	Ecology of Yosemite Valley	1.5
BIOL 62S	Natural History of the Islands of California	2
BIOL 62T	Ecology of Mono Lake and the Mono Craters	1.5
BIOL 62U	Natural History of the Giant Sequoia in Yosemite and Sequoia/Kings Canyon National Parks	1.5
BIOL 62V	Ecology of the Mammoth Lakes Sierra and the Ritter Range	1.5
BIOL 62X	Natural History of Headwaters Forest	1.5
BIOL 80D	Ecology of the California Condor	1.5
Other State Courses:		
BIOL 62W	Natural History of the Ice Age National Scenic Trail and Ice Age National Scientific Reserve, Wisconsin	1
BIOL 62Y	Natural History of Arches National Park	1
River Courses:		
BIOL 70E	Natural History of the Ozark National Scenic Riverways and Ozarks of Missouri	1
International Courses:		
BIOL 65A	Natural History of Taiwan	1
BIOL 65C	Natural History and Gaucho Culture of Uruguay	1
BIOL 65D	Natural History of New South Wales, Australia	1
BIOL 65E	Natural History of the Japan Alps	1
BIOL 65F	Natural History of Tahiti (French Polynesia)	1
BIOL 65K	Natural History of Kenya	.5
Indians and the Environment:		
NATAM 76E	California Indian Ecology on the Central Coast	1.5
Total Certificate Units		10

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PROGRAM MODIFICATIONS

Changes are highlighted within program summary

Natural History Certificate of Proficiency, continued

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.

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PROGRAM MODIFICATIONS

Changes are highlighted within program summary

Bioscience (BIOSC)

Fluorescence Bioscience Microscopy Certificate of Proficiency

Effective Fall 2018

Catalog 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.

Certificate Requirements (12 units):

BIOSC 103	Confocal Microscopy and Research Design	6
BIOSC 104	Bioscience Practicum Research	6
	Total Certificate Units	12

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.

Merritt College

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PROGRAM MODIFICATIONS

Changes are highlighted within program summary

Bioscience (BIOSC)

Optical Microscopy Certificate of Proficiency

Effective Fall 2018

Catalog 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:

Career opportunities include employment as biotech lab assistant, academic research, government research, imaging core assistant, imaging equipment and software vendors (field applications, inside sales, technical support).

Certificate Requirements (12 units):

BIOSC 101	Theory and Practice of Microscopy	6
BIOSC 102	Fluorescence Microscopy and Specimen Prep	6
	Total Certificate Units	12

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.

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PROGRAM MODIFICATIONS

Changes are highlighted within program summary

Business (BUS)

Accounting Associate of Arts (AA) Degree

Effective Fall 2018

Catalog Description:

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

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

Career Opportunities:

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

Degree Requirements (60 units):

Degree Major Requirements		
BUS 1A	Financial Accounting	4
BUS 1B	Managerial Accounting	4
BUS 10	Introduction to Business	3
ECON 1	Principles of Economics (Macro-Economics)	3
ECON 2	Principles of Economics (Micro-Economics)	3
CIS 1	Introduction to Computer Information Systems	4
Recommended:		
BUS 2	Introduction to Business Law	(3)
BUS 5	Human Relations in Business	(3)
BUS 70	Introduction to Marketing	(3)
	Total Major Units:	21
	Total General Education Units:	39
	Total Degree Units (maximum):	60

PROGRAM LEARNING OUTCOMES

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

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

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PROGRAM MODIFICATIONS

Changes are highlighted within program summary

Business (BUS) Accounting Certificate of Achievement

Effective Fall 2018

Catalog Description:

Accountants play an essential role in keeping businesses within their budgets, and this program offers real-world application of skills related to private accounting, institutional accounting, certified public accounting, and other career opportunities within the private and public sectors. Merritt College Accounting program prepares students for employment in a wide variety of business accounting environments.

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

Career Opportunities:

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

Certificate Requirements (18 units):

Certificate Requirements		
BUS 1B	Managerial Accounting	4
BUS 5	Human Relations in Business	3
BUS 10	Introduction to Business	3
CIS 1	Introduction to Computer Information Systems	4
PLUS Any Additional Business Course(s)		4
	Total Certificate Units:	18

PROGRAM LEARNING OUTCOMES

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

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

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PROGRAM MODIFICATIONS

Changes are highlighted within program summary

Business (BUS)

Business Management Certificate of Achievement

Effective Fall 2018

Catalog Description:

The **Business Management** program involves the coordinating of efforts and resources within an office, department, organization or company to achieve defined objectives. The certificate includes core course requirements and the choice between two areas of emphasis: Human Resources Management or Entrepreneurship/Small Business Management. The Human Resources Management area of emphasis allows students to explore the human resources management field as a career choice and gain an entry-level support position in a human resources department. The Entrepreneurship/Small Business Management is designed to aid students who want to own their own business or who work for small or virtual businesses.

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

Career Opportunities:

General/operations manager and office manager.

Certificate Requirements (22-23 units):

Certificate Core Requirements		
BUS 1A or	Financial Accounting	4
BUS 20	General Accounting	3
BUS 2	Introduction to Business Law	3
BUS 50	Principles of Management	3
CIS 1	Introduction to Computer Information Systems	4
Choose one of the following areas of emphasis:		
Human Resources Management:		
BUS 51	Supervisory Management	(3)
BUS 52	Psychology and Human Relations	(3)
BUS 56	Human Resources Management	(3)
Or		
Entrepreneurship/Small Business Management:		
BUS 54	Small Business Management	(3)
BUS 52	Introduction to Marketing	(3)
BUS 56	E-Commerce/Entrepreneurship	(3)
	Required Core Units:	13-14
	Area of Emphasis Units:	9
	Total Certificate Units:	22-23

PROGRAM LEARNING OUTCOMES

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

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

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PROGRAM MODIFICATIONS

Changes are highlighted within program summary

Computer Information Systems (CIS) Applications Security Associate of Science

Effective Fall 2018

Catalog Description:

The Application Security Associate of Science degree provides best practices and competencies for students to design, install and implement secure applications and services; manage, and optimize application to ensure compliance with security controls; help prevent, detect, investigate and respond to application security threats and attacks; facilitate application security vulnerability assessments, penetration tests and risk assessments; investigate application security events and incidents, including forensic analysis; represent security interests on project teams by ensuring security standards and requirements; conduct security research, analysis and review of application solutions to ensure compliance with company security policies; evaluate new products and technologies to protect against existing and emerging security threats; and develop and implement information security policies and procedures.

Career opportunities with this degree include Application Security Specialist, Applications Security Analyst Information Technology Specialist, Customer Support, Information Security Specialist, and Network Application Director.

To qualify for the Associate of Science in Applications Security 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.

Degree Requirements (60 units):

CIS 5	Introduction to Computer Science	5
<i>or</i>		
CIS 6	Introduction to Computer Programming	5
<i>or</i>		
CIS 7	Control Structures and Objects	4
<i>and</i>		
CIS 54	IT Security Goals, Strategy, Policy, and Leadership	3
CIS 55	Hacker Techniques, Exploits & Incident Handling	3
CIS 56	Secure Coding in Java and .NET	3
CIS 57	Web Application PEN Testing	3
CIS 59	Applications in Information Security	3
CIS 60	Computer Forensics Fundamentals	3
CIS 71	Introduction to Information Systems Security	3
COPED 469	Occupational Work Experience in Security Administration	3

Major Requirements	28 - 29
PCCD General Education Requirements	19
Units that may be double counted	1
Electives	13 - 14
Total Units	60

PROGRAM MODIFICATIONS

Changes are highlighted within program summary

Applications Security Associate of Science, continued

PROGRAM LEARNING OUTCOMES

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

1. Design and secure applications and services to protect critical assets.
2. Develop, test, and implement secure applications to safeguard critical information.
3. Manage ongoing maintenance and updates to applications and services to respond to changing security threats.

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PROGRAM MODIFICATIONS

Changes are highlighted within program summary

Computer Information Systems (CIS) Applications Security Certificate of Achievement

Effective Fall 2018

Catalog Description:

The Application Security Certificate of Achievement provides best practices and competencies for students to design, install and implement secure applications and services; manage, and optimize application to ensure compliance with security controls; help prevent, detect, investigate and respond to application security threats and attacks; facilitate application security vulnerability assessments, penetration tests and risk assessments; investigate application security events and incidents, including forensic analysis; represent security interests on project teams by ensuring security standards and requirements; conduct security research, analysis and review of application solutions to ensure compliance with company security policies; evaluate new products and technologies to protect against existing and emerging security threats; and develop and implement information security policies and procedures.

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

Career Opportunities:

Typical information Systems (IS) job titles include Application Security Specialist, Applications Security Analyst Information Technology Specialist, Customer Support, Information Security Specialist, and Network Application Director.

Certificate Requirements (28-29 units):

CIS 5	Introduction to Computer Science	5
<i>or</i>		
CIS 6	Introduction to Computer Programming	5
<i>or</i>		
CIS 7	Control Structures and Objects	4
<i>and</i>		
CIS 54	IT Security Goals, Strategy, Policy, and Leadership	3
CIS 55	Hacker Techniques, Exploits & Incident Handling	3
CIS 56	Secure Coding in Java and .NET	3
CIS 57	Web Application PEN Testing	3
CIS 59	Applications in Information Security	3
CIS 60	Computer Forensics Fundamentals	3
CIS 71	Introduction to Information Systems Security	3
COPED 469	Occupational Work Experience in Security Administration	3

Total Certificate Units 28 - 29

PROGRAM LEARNING OUTCOMES

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

-
1. Design and secure applications and services to protect critical assets.
 2. Develop, test, and implement secure applications to safeguard critical information.
 3. Manage ongoing maintenance and updates to applications and services to respond to changing security threats.

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PROGRAM MODIFICATIONS

Changes are highlighted within program summary

Computer Information Systems (CIS) Infrastructure Security Associate of Science

Effective Fall 2018

Catalog Description:

The Infrastructure Security Associate of Science degree provides best practices and competencies for students to design, install and implement services and applications; manage and optimize security infrastructure to ensure compliance with security controls; help prevent, detect, investigate and respond to operational security threats and attacks; facilitate security vulnerability assessments, penetration tests and risk assessments; investigate security events and incidents, including forensic analysis; represent security interests on project teams by ensuring security standards and requirements; conduct security research, analysis and review of infrastructure designs to ensure compliance with company security policies; evaluate new products and technologies to protect against existing and emerging security threats; and develop and implement information security policies and procedures.

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

Career Opportunities:

Career opportunities with this degree include Infrastructure Security Specialist and Infrastructure Security Analyst.

Degree Requirements (60 units):

CIS 5	Introduction to Computer Science	5
<i>or</i>		
CIS 6	Introduction to Computer Programming	5
<i>or</i>		
CIS 7	Control Structures and Objects	4
<i>and</i>		
CIS 52	Cloud Security Fundamentals	3
CIS 53	Intrusion Detection In-Depth: Compliance, Security, Forensics and Troubleshooting	3
CIS 54	IT Security Goals, Strategy, Policy, and Leadership	3
CIS 55	Hacker Techniques, Exploits & Incident Handling	3
CIS 58	Hacker Guard – Baseline Training for IT Administrators and Operations	3
CIS 60	Computer Forensics Fundamentals	3
CIS 71	Introduction to Information Systems Security	3
COPED 469	Occupational Work Experience in Security Administration	1
COPED 469	Occupational Work Experience in Security Administration	1
COPED 469	Occupational Work Experience in Security Administration	1

Major Requirements	28 - 29
PCCD General Education Requirements	19
Electives	13
Total Units	60

PROGRAM MODIFICATIONS
Changes are highlighted within program summary

Infrastructure Security Associate of Science, continued

PROGRAM LEARNING OUTCOMES
Upon successful completion of this program students will be able to:

1. Install & Configure software and upgrades
2. Install, configure & test network devices, servers and workstations.
3. Troubleshoot hardware & network problems.

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PROGRAM MODIFICATIONS

Changes are highlighted within program summary

Computer Information Systems (CIS) Infrastructure Security Certificate of Achievement

Effective Fall 2018

Catalog Description:

The Infrastructure Security Associate of Science degree provides best practices and competencies for students to design, install and implement services and applications; manage and optimize security infrastructure to ensure compliance with security controls; help prevent, detect, investigate and respond to operational security threats and attacks; facilitate security vulnerability assessments, penetration tests and risk assessments; investigate security events and incidents, including forensic analysis; represent security interests on project teams by ensuring security standards and requirements; conduct security research, analysis and review of infrastructure designs to ensure compliance with company security policies; evaluate new products and technologies to protect against existing and emerging security threats; and develop and implement information security policies and procedures.

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

Career Opportunities:

Career opportunities with this degree include Infrastructure Security Specialist and Infrastructure Security Analyst.

Certificate Requirements (28 - 29 units):

CIS 5	Introduction to Computer Science	5
<i>or</i>		
CIS 6	Introduction to Computer Programming	5
<i>or</i>		
CIS 7	Control Structures and Objects	4
<i>and</i>		
CIS 52	Cloud Security Fundamentals	3
CIS 53	Intrusion Detection In-Depth: Compliance, Security, Forensics and Troubleshooting	3
CIS 54	IT Security Goals, Strategy, Policy, and Leadership	3
CIS 55	Hacker Techniques, Exploits & Incident Handling	3
CIS 58	Hacker Guard – Baseline Training for IT Administrators and Operations	3
CIS 60	Computer Forensics Fundamentals	3
CIS 71	Introduction to Information Systems Security	3
COPED 469	Occupational Work Experience in Security Administration	1
COPED 469	Occupational Work Experience in Security Administration	1
COPED 469	Occupational Work Experience in Security Administration	1

Major Requirements 28 - 29

PROGRAM LEARNING OUTCOMES

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

-
4. Install & Configure software and upgrades
 5. Install, configure & test network devices, servers and workstations.
 6. Troubleshoot hardware & network problems.

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PROGRAM MODIFICATIONS

Changes are highlighted within program summary

MATHEMATICS (MATH)

Mathematics Associate in Science for Transfer (AS-T) Degree

Effective Spring 2018

Catalog Description:

The Associate in Science in Mathematics for Transfer Degree (AS-T) is designed for students planning to transfer into the mathematics major. Successful completion of the program with a minimum G.P.A. of 2.0 affords students specific guarantees for transfer to the CSU system such as admission to a CSU with junior status, priority admission to a CSU campus with a similar major and to a program or major in mathematics or similar major. Students interested in the AS-T for transfer degree in mathematics should consult with the departmental faculty chair. The AS-T degree will be awarded upon completion of the major course requirements listed below and the General Education requirements for the Associate in Science Degree listed in the Degrees, Programs & Transfer Requirements section of this Catalog. Complete the Degree Major Requirements and/or courses from Groups A and B below to complete preparation for the major. Also complete 37-39 General Education units from either the California State University General Education-Breadth Requirements (CSU-GE) or the Intersegmental General Education Transfer Curriculum (IGETC) and electives to total 60 units for the degree.

Career Opportunities:

In the modern world, there are many fields that need specialists in mathematics. Careers in mathematics include: scientists, researchers, programmers and other specialists in information systems, mathematics teachers, actuaries and insurance specialists, and people who can combine mathematical knowledge with a scientific, technological, or business background.

Degree Requirements (60 units):

Degree Major Requirements		
MATH 3A	Calculus I	5
MATH 3B	Calculus II	5
MATH 3C	Calculus III	5
Group A: MATH 3D or MATH 3E or MATH 3F	Linear Algebra Differential Equations	3 3
Group B: MATH 13 or PHYS 4A	Statistics General Physics with Calculus	4 5
	Total Major Units:	21-23
	Total Units that may be double counted:	3-7
	General Education (CSU or IGETC) Units:	37-39
	Elective (CSU Transferable Units):	1-9
	Total Degree Units (maximum):	60

PROGRAM LEARNING OUTCOMES

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

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

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PROGRAM MODIFICATIONS

Changes are highlighted within program summary

NURSING (NURS)

Nursing Associate of Science Degree

Effective Summer 2018

Catalog Description:

The Associate Degree Nursing (ADN) program is approved by the California Board of Registered Nursing. This program is designed to prepare students for beginning positions in Registered Nursing. Upon successful completion of the program, students are eligible to take the state licensing examination for registered nurses. The course of study includes instruction in applied nursing sciences, related natural and social/behavioral sciences, and clinical nursing experience in hospitals and healthcare facilities located in the San Francisco Bay Area.

The Associate of Science degree in Nursing will be awarded upon satisfactory completion of the Group A Prerequisite requirements, the Group B General Education/Graduation requirements, and the Group C Major course requirements. Applications are accepted each year **from December 1 – March 1** for the class admitted the following Fall semester. All applications with supporting data (all transcripts, etc.) must be received no later **than March 1**. Applications may be hand-delivered or mailed to the Merritt College Associate Degree Nursing Program. Nonresident foreign students must first be cleared for admission through the International Student Advisor's Office. It is required that all students interested in the Nursing program see a counselor for guidance in preparation for the program and evaluation of prerequisites prior to applying.

NO MATERIALS WILL BE ACCEPTED AFTER THE APPLICATION DEADLINE DATES. LATE OR INCOMPLETE APPLICATIONS WILL NOT BE CONSIDERED.

Eligibility/Admission Requirements:

1. The student must be a graduate of an accredited high school or have passed the GED test or equivalent.
2. All prerequisite courses in Group A must be completed before applying for admission into the program.
 - a) Each Group A course must be completed with a grade of "C" or better (letter grade only) with an overall grade-point average (GPA) of 2.5 or better ("C-" is not acceptable).
 - b) Anatomy, Physiology, and Microbiology courses must have been completed.
3. A recent (within 6 months) physical examination certifying good physical health must have been satisfactorily completed, criminal background check and drug screening at the student's own expense.
4. CPR (Basic Life Support) certification must be current within one year at the time of application and must re-main current throughout the length of the program.
5. The student must have proof of a two part annual Tuberculosis (TB) screening.
6. Upon enrollment to the college, students should obtain an Initial Evaluation Request Form from the college's Admissions and Records Office for courses completed at all colleges or universities. Foreign transcripts must be sent to World Education Services for evaluation and Berlitz Translation Services for translation. Forms may be obtained from the Counseling Office.
7. Nonresident foreign students must see the International Student Advisor before applying.
8. Two sets of official transcripts from all colleges attended including the Peralta District must be on file: One set to the District Admission and Records Office, and one set to the Allied Health Department (D102) at Merritt.

Admission Criteria Effective as of Fall 2011:

The process by which students are admitted to the Associate Degree Nursing Program (ADN) changed for students applying for admission into the Program in Fall 2008 and subsequent terms. The Program adopted the Chancellor's Advisory Model Prerequisites for Enrollment in Associate Degree Nursing Program admission criteria. Students must complete all Group A prerequisites prior to applying to the ADN Program for admission. While it is highly recommended that students complete both Group A and Group B courses prior to entry into the ADN Program, admission into the ADN Program will be based upon the Chancellor's Advisory Model Prerequisites for Enrollment in the Associate Degree Nursing Program (Group A courses).

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PROGRAM MODIFICATIONS

Nursing Associate in Science Degree, continued

Admission will be determined by the following:

1. Overall college GPA: 2.5 or above.
2. Group A coursework.
3. Biology Core (anatomy, physiology, and microbiology): GPA 2.5 or above. Additionally, biology core repetitions will be evaluated.*Core Biology course repetitions will adversely affect your overall score. [i.e. each repetition deducts from your Chancellor's Score, and three repetitions eliminates your chance of receiving the required 80%]. ALL repetitions count, regardless of the grade. A, B, C, D, F, or W ("withdraw"), is counted as a repetition. A formula approved by the State Chancellor's Office will compute your cut score. Those who score above 80% will be entered into the eligibility pool. Of those eligible to enroll into the Nursing Program, a lottery will be used for selection purposes. All students meeting the admission criteria will be eligible for admission by random selection.
4. English 1A (Composition and Reading), GPA: 2.0.

Applications will be accepted from February through March for Fall admission of the following academic school year. Students may apply for admission only once per year.

In order to apply for admission into the ADN Program, students must complete the admission prerequisites (Group A courses). At that time, the student's transcripts will be screened to determine whether the student is eligible for admission based upon the Chancellor's Advisory Model Prerequisites.

Prior to admission, all students who have been randomly selected must also pass a diagnostic assessment test (Basic Math, English, Reading, and Science) in addition to meeting the requirements stated above. Students who fail to achieve a passing score will be offered to complete additional Pre-nursing course work prior to admission and enrollment in the Nursing Program. Pre-Nursing course work and clearance of diagnostic assessment deficiencies must be completed to become eligible for admission to the program. Contact the ADN program for more details.

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

Degree Requirements (81-82 units):

Group A- Prerequisite Requirements Eligibility/Admission Requirements:		
BIOL 20A and	Human Anatomy and Physiology	5
BIOL 20B or	Human Anatomy and Physiology	5
BIOL 2 and	Human Anatomy	5
BIOL 4	Human Physiology	5
BIOL 3	Microbiology	5
ENGL 1A	Composition and Reading	4

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PROGRAM MODIFICATIONS

Nursing Associate in Science Degree , continued

<p>Group B – General Education/Graduation Requirements: Although Group B courses meet General Education (GE)/Graduation Requirements and can be completed prior to or after admission into the ADN Program, it is highly recommended that these courses be completed prior to admission into the program. Each Group B course must be completed with a grade of “C” or better (letter grade only) except for Ethnic Studies and Computer Literacy. “C-” is not acceptable. English 5 requires an additional Humanities course.</p> <p>MATH 203 ENGL 1B or ENGL 5 PSYCH 1A SOC 1 or ANTHR 3 COMM 20 Plus: Computer Literacy requirement And: Ethnic Studies requirement</p> <p>The minimum GE-unit requirement for the Associate Degree is 19 units; some of these requirements can be met by the Group A prerequisite courses. Computer Literacy and Ethnic Studies are degree requirements that are not required by the BRN for licensure.</p>	<p>Intermediate Algebra Composition and Reading Critical Thinking in Reading and Writing Introduction to General Psychology Introduction to Sociology Introduction to Social and Cultural Anthropology Interpersonal Communication Skills</p>	<p>4 4 3 3 3 3 3 1 3</p>
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PROGRAM MODIFICATIONS

Nursing Associate in Science Degree, continued

<p>Group C: Degree Major Requirements: The following courses are to be completed after admission into the ADN program. These courses must be completed with a grade of "C" or better (a 75% passing grade) in lecture and satisfactory clinical performance in each section of a course ("C-" is not acceptable):</p> <p>NURS 1 NURS 3A NURS 3B NURS 4A NURS 4B NURS 5 NURS 10 NURS 01 NURS 12 NURS 13 NURS 14</p> <p>Students with prior experience in the healthcare field, such as Licensed Vocational Nursing (LVN), may apply to challenge courses within the Nursing curriculum and seek advanced placement in the program. Contact the Allied Health Department for details. For written information regarding advanced placement, challenge by examination, transfer, or the 30-unit option (BRN Regulation, Section 2736.6), contact the Allied Health Department Office located in Building D, Room 102.</p> <p>Note: Transfer-in or advanced-placement students will be admitted only on a space-available basis.</p>	<p>Fundamentals in Nursing: Beginning Principles of Health Care 9</p> <p>Perinatal Nursing 4</p> <p>Pediatric Nursing 4</p> <p>Intermediate Medical-Surgical Nursing 4</p> <p>Psychiatric Nursing 4</p> <p>Advanced Medical-Surgical Nursing: Disruption in Homeostasis 9</p> <p>Leadership and Management 1</p> <p>Ethics and Law 1</p> <p>Calculation of Drug Dosages for Health Professionals 1</p> <p>Pharmacology in Nursing 3</p> <p>Nutrition and Diet Therapy in Nursing 2</p>	
	Total Prerequisite Units:	19
	Total General Education Units:	20-21
	Total Major Units:	42
	Total Degree Units:	81-82

PROGRAM LEARNING OUTCOMES

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

1. Apply principles of teaching, learning, and homeostasis when in a caregiving relationship with patient, family and staff members.
2. With appropriate supervision, develop and implement safe and skillful nursing care for a group of patients.
3. Participate effectively as a member of a health care team by applying their knowledge of the nursing process.
4. Develop an awareness of him/herself as a person and as a practitioner.

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PROGRAM CORRECTIONS

Corrections are highlighted within program summary

HEALTH SCIENCES

Health Sciences Associate of Science (AS) Degree

Catalog Description:

To qualify for the Associate of Science in Health Sciences 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.

Degree Requirements:

Select at least one course from each of the following four groups, for a minimum of 18 units:

Group 1: <i>Select one of the following:</i> BIOL 1A BIOL 3 BIOL 10	General Biology Microbiology Introduction to Biology	5 5 4
Group 2: <i>Select one of the following:</i> BIOL 2 BIOL 4 BIOL 20A BIOL 20B BIOL 024	Human Anatomy Human Physiology Human Anatomy and Physiology Human Anatomy and Physiology Basic Human Anatomy and Physiology	5 5 5 5 4
Group 3: <i>Select one of the following:</i> CHEM 1A CHEM 12A CHEM 30A	General Chemistry Organic Chemistry Introductory General Chemistry	5 5 4
Group 4: <i>Select one of the following:</i> HLTED 1 NUTR 10* NUTR 12 *: NUTR 10 is the same as BIOL 31 at Alameda and BIOL 28 at Laney; maximum credit: one course.	Exploring Health Issues Nutrition * Nutrition and Disease	3 4 3
Total Major Units:		18-19
Total General Education Units:		41-42
Total Degree Units (maximum):		60

PROGRAM LEARNING OUTCOMES

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

1. Demonstrate a comprehensive understanding of the human body.
2. Successfully perform and/or describe experiments which test hypotheses, including the collection and analysis of data.
3. Demonstrate an understanding of the scientific method and applications of scientific theories to personal health.

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CLASSIFIED STAFF

ADAMS, JUDY

Coordinator

Extended Opportunity Programs and Services

B.A., California State University, Hayward

M.S., San Francisco State University

ALI, WAFA

Staff Assistant/Student Services

Dean of Special Programs and Grants Office

Certificate, Laney College

A.A., Laney College

A.A., Laney College

A.S.-T., Laney College

B.S., Cal State East Bay

ALVARADO, CYNTHIA

Assessment/Research Data Specialist

Office of Instruction

A.A., Merritt College

A.A., Merritt College

B.A., University of California, Berkeley

ANDERSON, SINEAD GENEVA

Staff Assistant/Instruction

Math, Science, and Applied Technology Division II Office

Certificate, University of California, Berkeley

A.A., Merritt

A.S., Merritt

ANDREW, ANTONIA

Financial Aid Specialist

Financial Aid Office

A.A., Merritt College

BRICE, TIMOTHY

Head Custodian

Custodial Department

BULL, MARIL M.

Staff Assistant

Landscape Horticulture Department

CERDA, ALEJANDRA

Staff Assistant/Student Services

Student Activities and Campus Life Office

CERROBLANCO, JR., ARMANDO

Senior Library Technician

Library

Certificate, City College of San Francisco

B.A., University of California, Berkeley

CHAN, SIMON

Department Network Coordinator

Computer Information Systems Department

A.A., College of Alameda

B.S., California State University, Hayward

CHEN, LI JUAN

Custodian

Custodial Department

CHRISTIAN, BRANDON

Staff Assistant

Office of the President

A.A., Merritt College

CIRAULO, JAMES

Lead Custodian

Custodial Department

DANIEL, SYLVER

Senior Clerical Assistant

Counseling Department

DAO, MINH

Student Personnel Services Specialist

Student Services Office

DE LA TORRE, SUSANA

Admissions and Records Specialist

Admissions and Records Office

A.A., Laney College

DILLARD, RANDY

Custodian

Custodial Department

Merritt College

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EALY, VINCENT

Custodian

Custodial Department

ELLIS, RACHEL

Program Specialist

Extended Opportunity Programs and Services/CARE

B.A., California State University, East Bay

FITCH, LASHAUNE

Curriculum Specialist

Office of Instruction

B.A., University of California, Berkeley

B.F.A., California College of the Arts

M.A., California College of the Arts

FORLASTRO, CHRISTANA

Senior Library Technician

Library

A.A., Merritt College

FONG, JANE

Academic Support Services Specialist

Office of Instruction

GORDON, JAMES

Principal Library Technician

Library

B.A., University of California, Berkeley

HAMPTON, TONY

Network Support Services Technician

Office of Instruction

HANKINS, DORIS

Employee Services Manager

Office of Instruction

Certificate, Merritt College

A.A., Merritt College

B.A., Ashford University

M.A., Jones International University

HENRY, TACHETTA

Staff Assistant

Office of Instruction

A.A., Merritt College

HERRERA, BERENISE

Executive Assistant

Office of the President

B.A., San Francisco State University

HILL, NIAMBI

Science Lab Technician & Nursery Manager

Landscape Horticulture Department

Certificate, Merritt College

Certificate, University of California, Santa Cruz

A.A., Merritt College

B.A., San Francisco State University

HUNTER, ALYSON

Financial Aid Specialist

Financial Aid Office

Certificate, Merritt College

A.A., Merritt College

JOHNSON JR., WALTER

Instructional Assistant, Computer-Assisted Instruction Lab Learning Center

B.S., Howard University

M.S., University of California, Berkeley

JOHNSON, CARMEN

Interim Coordinator

CalWORKs

KARIM, WAADUDA

Senior Clerical Assistant

Allied Health Programs

A.A., Merritt College

KAUFMAN, MARYHELEN

Admissions and Records Clerk

Admissions and Records Office

A.A., College of Alameda

KESSLER, SAMANTHA

Research and Planning Officer

Office of the President

B.A., East Stroudsburg University

M.A., Lehigh University

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LASHER, CHRISTINE

Senior Clerical Assistant

Nursing Department

A.A., Columbus State Community College

B.A., Capital University

LITTLES, VICTOR

Transition Liaison

Office of Instruction

M.A., Holy Names University

Ed.D, Fielding Graduate University

MARRERO, TARA

Facilities Services Specialist

Business Services Office

MCCLINTOCK, KEVIN

Athletic Trainer-Equipment Manager

Athletics Department

B.S., California State University, Hayward

M.S., California State University, Hayward

MCPHEE, NANCY

Principal Accounting Technician

Business Services Office

A.A., Laney College

B.A., California State University, Hayward

MORA, BRENDA

Coordinator

Merritt College @Fruitvale

B.A., University of California, Davis

NGUYEN, KENT

Financial Aid Specialist

Financial Aid Office

OLBEKSON, KATHLEEN

Staff Assistant

Extended Opportunity Programs and Services

OMAR, SAHRA

Financial Aid Specialist

Financial Aid Office

A.A., Laney College

B.S., California State University, East Bay

PANG-SAGARA, PAULINE

Financial Aid Specialist

Financial Aid Office

PEEVY, LEE

Alternate Media Technology Specialist

Student Accessibility Services

Certificate, Adaptive Computer Technologies

PEREZ, MARIA

Bursar

Business Services Office

A.A., Merritt College

A.S., Merritt College

B.S., California State University, East Bay

PEREZ, RON B.

Staff Services Specialist

Business Services Office

PEREZ, SALVADOR

Senior Clerical Assistant

Business Services Office

PHARR, PHASASHA

Financial Aid Specialist

Financial Aid Office

POUNDS, DAVID

Custodian

Custodial Department

PRUITT, REAGAN

Staff Assistant

Student Accessibility Services

Certificate, Merritt College

A.S., Laney College

RIPPENBERGER, BONNIE

Instructional Assistant

Child Development Department

ROM, PATRICIA

College Network Coordinator

Office of Instruction

Merritt College

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RUBIO, MARGIE

Student Services Specialist

Welcome Center

A.A., Merritt College

A.S., Merritt College

B.S., California State University, East Bay

SALEH, JAMILA

Staff Assistant

Vice President of Student Services Office

A.S., Merritt College

B.S., California State University, East Bay

SANO, TIMOTHY

Science Lab Technician

Chemistry Department

A.A., Merritt College

SEALUND, MAURA (MOLLY)

Coordinator

Landscape Horticulture Department

SHAPIRO, SAADI

Instructional Assistant

Art Department

SIDZINSKA, KINGA

Science Lab Coordinator/Biology

Biology Department

SIZEMORE, ROBERT

Custodian

Custodial Department

SMITH, ROBERT L.

Senior Storesworker

Custodial Department

THOMAS, CAROLYN

Custodian

Custodial Department

VICTORIAN, CHARLOTTE

Coordinator

Learning Center

B.S., San Francisco State University

WAGNER, DARAJA

Program Manager

NextUp

WALKER, ANTHONY

Custodian

Custodial Department

WOODWARD, DENISE

Staff Assistant/Instruction

Library Arts and Social Sciences Division I Office