



Curriculum & Instruction Recommendations March 2011

Educational Services
Office of the Vice Chancellor
Presented and Approved at Board Meeting of March 29, 2011

CURRICULUM AND INSTRUCTION RECOMMENDATIONS
March 2011

TABLE OF CONTENTS

	<u>Page</u>
Berkeley City College.....	1
College of Alameda.....	4
Laney College	4
Merritt College.....	6

**PERALTA COMMUNITY COLLEGE DISTRICT
CURRICULUM AND INSTRUCTION RECOMMENDATIONS**

Date Submitted For:
CIPD Approval: 3/7/2011

Date Submitted For:
Board Approval: 3/29/2011

Curriculum Item:	EFF.	JUSTIFICATION:
Berkeley Course Deactivations	M 11	
MMART 175LB, Animation Authoring II: Game Design Lab		Changes made to MMART 175B, this course no longer needed.
Berkeley Modified Course Proposal	M 11	
MMART 175B, Game Design 3 Units, 3 Hours Lecture (GR/PNP)		Increase units and changed from lecture/lab to lecture. Eliminated corequisite of MMART 175LB.
Previously 2 units, 1.5 hours lecture/1.5 hours Lab		
Berkeley Informational Items	M 11	
COPED 450, General Work Experience < 51% online, >= 51% online		To offer via distance education
COPED 451, Occupational Work Experience < 51% online, >= 51% online		
ECON 2, Principles of Economics (Micro-Economics) < 51% online, >= 51% online, and 100% online		
Berkeley New Course	F 11	
CHEM 012A, Organic Chemistry 5 Units, 3 Hours Lec, 6 Hours Lab, (GR) <i>Prerequisite: CHEM 001B</i>		Satisfies associate degree general education requirement for Natural Science. Prerequisite for majors in Chemistry, Biology, and Biochemistry and for medical schools. Adopting course from Laney & Merritt.
Introduction to structures, nomenclature, properties, and reactions of carbon compounds: Hydrocarbons, monofunctional and polyfunctional compounds, emphasis on structures and mechanisms, spectroscopy and other analytical techniques. Laboratory work: Reactions, purification techniques, measurements, qualitative analysis, use of instrumentation.		
1905.00		

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Curriculum Item:	EFF.	JUSTIFICATION:
Berkeley New Course	F 11	
<p>CHEM 012B, Organic Chemistry 5 Units, 3 Hours Lec, 6 Hours Lab, (GR) <i>Prerequisite: CHEM 012A</i></p> <p>Reactions of functional groups and interactions of polyfunctional compounds, infrared spectroscopy, nuclear magnetic resonance, mass spectrometry, ultraviolet-visible spectroscopy. Introduction to biochemistry: Lipids, carbohydrates, proteins, nucleic acids. Laboratory work: Reactions, purification methods, measurements, multistep syntheses, qualitative analysis, use of instrumentation.</p> <p style="text-align: right;">1905.00</p>		<p>Satisfies associate degree general education requirement for Natural Science. Prerequisite for majors in Chemistry, Biology, and Biochemistry and for medical schools. Adopting course from Laney & Merritt.</p>
Berkeley New Course	F 11	
<p>COPED 470H, Medical Interpreting Internship 1 - 4 Units, Hours to be Arranged (GR/PNP) <i>Prerequisites: SPAN 072, HUSV 070, HUSV 071</i></p> <p>Supervised employment of students extending classroom-based occupational learning at an on-the-job learning station relating to students' educational or occupational goals.</p> <p style="text-align: right;">2140.00</p>		<p>Requirement for the Spanish Medical Interpreting Certificate.</p>
Berkeley New Course	F 11	
<p>HUSV 70, Boundaries and Ethics 3 Units, 3 Hours Lecture. (GR)</p> <p>Analysis of ethical principles and dilemmas that arise in health care settings: Criteria of conduct in professional boundaries, language and cultural guidelines to be applied by health care interpreters.</p> <p style="text-align: right;">2104.00</p>		<p>Requirement for the Spanish Medical Interpreting Certificate.</p>
Berkeley New Course	F 11	
<p>HUSV 71, Cultural Brokerage 3 Units, 3 Hours Lecture. (GR)</p> <p>Analysis of cultural brokerage: Interpreter as liaison, cultural guide, mediator, and catalyst for change; bridging the gap between patients and providers; integrating awareness, knowledge, and skills.</p> <p style="text-align: right;">2104.00</p>		<p>Requirement for the Spanish Medical Interpreting Certificate.</p>

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Berkeley New Course	F 11	
<p>SPAN 70, Spanish Medical Terminology 3 Units, 3 Hours Lecture, (GR) <i>Prerequisite: SPAN 002A</i></p> <p>Spanish medical terminology for the human body: Internal and external anatomy, its nature and system, general diseases, treatment modalities and procedures, first aid in emergencies and common injuries; bridging the language and cultural gap between clients and providers.</p> <p style="text-align: right;">1105.00</p>		<p>This is an essential and mandatory course requirement for the Spanish Medical Interpreting Certificate. Training for bilingual individuals to be an integral member of the health care team in bridging the language and cultural gap between clients and providers.</p>
Berkeley New Course	F 11	
<p>SPAN 71, Spanish Medical Interpreting I 3 Units, 3 Hours Lecture, (GR)</p> <p>Effective language interpretation in health care settings: Basic knowledge of common medical conditions; treatments and procedures, insight in language and cultural nuances for specific communities; basic modes of interpretation; techniques for strengthening memory; and interpreting accurately; overview of the U.S. health care system and the responsibilities of health care interpreters.</p> <p style="text-align: right;">1105.00</p>		<p>Requirement for the Spanish Medical Interpreting Certificate.</p>
Berkeley New Course	F 11	
<p>SPAN 72, Spanish Medical Interpreting II 3 Units, 3 Hours Lecture, (GR) <i>Prerequisite: SPAN 071</i></p> <p>Continuation of Medical Interpreting I: Effective language interpretation in health care settings: Basic knowledge of common medical conditions, treatments and procedures; insight in language and cultural nuances for specific communities; basic modes of interpretation; techniques for strengthening memory; interpreting accurately; overview of the U.S. health care system and the responsibilities of health care interpreters.</p> <p style="text-align: right;">1105.00</p>		<p>Requirement for the Spanish Medical Interpreting Certificate.</p>

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Curriculum Item: **EFF.** **JUSTIFICATION:**

Berkeley City College New Program

Certificate of Achievement: Spanish Medical Interpreter

The Spanish Medical Interpreter Certificate of Achievement is designed to train bilingual/bi-cultural students to become linguistically and culturally competent interpreters who can function effectively and efficiently in health care settings. Through academic preparation, practical skills training, and service in community based health care settings, you will learn roles and responsibilities of a health care interpreter; basic knowledge of common medical conditions, treatments, and procedures; insight into language and cultural nuances for specific communities; and application of interpreting skills in English and Spanish.

Certificate of Achievement Requirements

SPAN 070	Spanish Medical Terminology	3
SPAN 071	Spanish Medical Interpreting I	3
SPAN 072	Spanish Medical Interpreting II	3
HUSV 070	Boundaries and Ethics	3
HUSV 071	Cultural Brokerage	3
COPED 470H *	Medical Interpreting Internship	9

Total Units **24**

*Students complete three internships for this course; each internship is worth three units.

College of Alameda New Program

Certificate of Proficiency: Logistics (Clerical)

The Logistics Clerical Certificate of Proficiency from College of Alameda is designed to provide students the preparation needed for immediate entry-level employment in various high-demand clerical occupations in the transportation, distribution and logistics industry.

Certificate of Proficiency Requirements

	Units
BUS 247 Introduction to Logistics for the Non-traditional Office	1
BUS 220 Business Terminology in Logistics	2
BUS 236 Records Management in Logistics	2
CIS 001 Introduction to Computer Information Systems	<u>4</u>
Total Units	9

Laney Course Deactivations F 11

ENGL 254, Spelling and Word Structures

The college has no plans to offer these courses in the future.

ENGL 262, Advanced English: SAT Preparation

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Curriculum Item:	EFF.	JUSTIFICATION:
<p>Laney New Course</p> <p>ENGIN 248GA, Introduction to Medical Device Technology 3 Units, 2 Hours Lecture, 3 Hours Lab, (GR)</p> <p>Introduction to medical device technology and manufacturing: Industrial fabrication techniques, soft photolithography method, and the use of microscopes for characterization.</p> <p style="text-align: right;">0901.00</p>	M 11	Will be required for the Certificate of Achievement in Medical Device Engineering
<p>Laney New Course</p> <p>ESL 110, Academic Writing and Reading 6 Units, 6 Hours Lecture, (GR) <i>Prerequisite: ESL 021A or ENGL 201B</i></p> <p>Instruction in writing and reading of expository prose: Critical thinking, identifying logical fallacies, and evaluating sources. Introduction to writing a research paper.</p> <p style="text-align: right;">4930.87</p>	F 11	This course is recommended to meet the new state-mandated General Education requirements for AA degree graduation. The course content is comparable to the transfer English 1A course, but addresses specific academic language learning needs of advanced ESL learners and may feature theme-based business, professional and technical reading and writing assignments and/or assignments of particular relevance to career technical and immigrant students. Course meets GE requirements in AA/AS areas 4a and 4d, but does not satisfy the GE composition requirement for transfer.
<p>Laney New Course</p> <p>MEDIA 160, AudioVisual Essentials I 2 Units, 1 Hour Lecture, 3 Hours Lab, (GR/PNP)</p> <p>Essentials for AV installation technicians: Signal flow, rack installation of audio, video, and IT components, cable construction, basic low voltage electrical systems and requirements.</p> <p style="text-align: right;">0604.00</p>	M 11	There is an ever increasing demand for information presented through video and audio in every part of the world. Education, corporate, government and military markets, to mention the top few, all require the basic entry skills our new courses and program offer. Since we already teach much of this content, this rapidly growing industry is a natural extension for us.
<p>Laney New Course</p> <p>MEDIA 161, AudioVisual Essentials II 2 Units, 1 Hour Lecture, 3 Hours Lab, (GR/PNP) <i>Prerequisite: MEDIA 160</i></p> <p>Essentials for AV installation technicians: Continuation of signal flow, rack installation of audio, video, and IT components, cable construction, basic low voltage electrical systems and requirements; troubleshooting, IP connectivity and customer relations.</p> <p style="text-align: right;">0604.00</p>	M 11	There is an ever increasing demand for information presented through video and audio in every part of the world. Education, corporate, government and military markets, to mention the top few, all require the basic entry skills our new courses and program offer. Since we already teach much of this content, this rapidly growing industry is a natural extension for us.

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Laney New Course	F 11	
MEDIA 460B, AV Work Experience 1 - 4 Units, Hours to be arranged (GR/PNP)		Students should have hands-on experience in the field to hone the skills learned in class.
Supervised employment of students extending classroom-based occupational learning at an on-the-job learning station relating to students' educational or occupational goals.		
	0604.20	
Laney Informational Item	F 11	To offer via distance education.
ESL 110, Writing and Reading		
Laney College New Program		
Certificate of Achievement: AV Installation Technician		
AV installation skills for entry level jobs: Video production and systems, audio production and systems, AV essentials including rack building and cabling, control and connectivity, signal flow, troubleshooting, IP connectivity and customer relations		
Required Courses		Units
MEDIA 104 Beginning Digital Video Production		3
MEDIA 111 Basic Audio Production		3
MEDIA 115 Media-based Computing: iLife and Mac OS X		3
MEDIA 121 Event Videography: Sports Video Production		3
MEDIA 160 AudioVisual Essentials I		2
MEDIA 161 AudioVisual Essentials II		2
MEDIA 460 AV Work Experience		1-4
Total Units		17-21
Merritt Course Deactivations		
ESL 021A, Writing 5 (Composition/Reading)	M 11	The college has no plans to offer these courses in the future.
ESL 021B, Writing 6 (Composition/Reading)		
Merritt Modified Course Proposal	M 11	
BIOSC 2, Theory and Practice of Optical Microscopy 5 Units, 4 Hours Lecture, 3 Hours Lab, (GR/PNP) <i>Corequisites: BIOSC 5, 6, 8, 10, and 11</i>		Changing lecture and lab hours and prerequisite. Also adding corequisite courses.
Previous: 5 Units, 3 Hours Lecture, 6 Hours Lab, (GR/PNP) <i>Prerequisite: BIOSC 001</i>		

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<p>Merritt New Course</p> <p>BIOSC 5, Good Laboratory Practices 1 Unit, 1 Hour Lecture, (GR/PNP) <i>Co-requisite: BIOSC 2</i> <i>Recommended Preparation: BIOL 10, CIS 200 OR 205, ENGL 201B, BIOSC 1</i></p> <p>Introduction to good laboratory practices: EPA and FDA regulatory requirements for research and testing of products, protocols and standard operating procedures (SOPs) for design of experiments utilizing sterile and basic laboratory techniques; accurate recording of observations, analysis of data, and reporting of experiment results; safety, instrumentation, and equipment maintenance; and utilization of word processing, spreadsheet, and presentation graphics to document and present project/experiment results.</p> <p style="text-align: right;">0430.00</p>	M 11	Formerly Biosc 48NA. Merritt has had much interest from industry in the Bay area for this course and ascertains that it can draw from both industry and the student body for enrollments, as Good Laboratory Practices are in demand for the labor force. Good laboratory practices standards are a set of rules that provide stringent regulatory requirements for research and testing of products that fall under the guidance of the EPA and FDA. Protocols and standard operating procedures (SOPs), equipment maintenance, accurate recording of observations, and accurate reporting of results are basic necessities for the conduct of high-quality scientific study.
<p>Merritt New Course</p> <p>BIOSC 6, Survey of Biotech Industry 1 Unit, 1 Hour Lecture, (GR/PNP) <i>Co-requisite: BIOSC 2</i></p> <p>Survey of the local biotech industry: History, structure, and product pipelines of local biotech companies.</p> <p style="text-align: right;">0430.00</p>	M 11	Formerly Biosc 48NN. This course is an integral part of the first semester curriculum for the Certificate in Bioscience Microscopy. The course responds to the employment opportunities arising from the escalating demand for microscopy technicians in Silicon Valley and in biotech industries.
<p>Merritt New Course</p> <p>BIOSC 7, Practical Mammalian Cell Culture 1 Unit, .5 Hours Lecture, 1.50 Hours Lab, (GR/PNP) <i>Co-requisite: BIOSC 2</i></p> <p>Introduction to the basics of mammalian cell culture: Sterile technique, media preparation, and cell counting; cell lines, including adherent and non-adherent cells; response to infections.</p> <p style="text-align: right;">0430.00</p>	M 11	Formerly Biosc 48NE. This course is part of the curriculum for the proposed Microscopy Technician program which meets the escalating demand for microscopy technicians in Silicon Valley and in biotech industries. Cell culture is a critical skill to develop in order to obtain these jobs. It is also a course that will draw a variety of students since it is a skill in high demand in the biotech and academic research fields.

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<p>Merritt New Course</p> <p>BIOSC 8, Immunohistochemistry 1 Unit, .5 Hours Lecture, 1.50 Hours Lab, (GR/PNP) <i>Co-requisite: BIOSC 002</i></p> <p>Principles and protocols in immunohistochemistry and transfection of mammalian cells: Overview of common transfection techniques, standard immunohistochemistry protocols, antibodies, troubleshooting, and emergent technologies.</p> <p style="text-align: right;">0430.00</p>	M 11	Formerly Biosc 48NG. This course is part of the proposed Microscopy Technician program which meets the escalating demand for microscopy technicians in Silicon Valley and in biotech industries. The closest program which addresses this need is at San Joaquin Delta College in Stockton. Their graduates each pick from an average of 15 job opportunities and earn \$50,000-60,000/year starting salaries. Merritt has the faculty expertise and the equipment necessary to institute a similar program. This introductory course will also be of interest to a variety of students, including artists, engineers, photographers, and biology majors.
<p>Merritt New Course</p> <p>BIOSC 10, Fluorescence Microscopy Laboratory 3 - 6 Unit, 9 - 24 Hours Lab, (GR/PNP) <i>Co-requisite: BIOSC 2</i></p> <p>Optical microscopy laboratory: Training in the practical use of digital imaging systems and operating a large variety of widefield fluorescence imaging systems and several confocal microscopes. Post-acquisition processing will also be performed on a variety of platforms.</p> <p style="text-align: right;">0430.00</p>	M 11	Formerly Biosc 48NR. The MMP students need to do supervised labwork on the equipment.
<p>Merritt New Course</p> <p>BIOSC 11, Lab Safety and Ethics .5 Units, .5 Hours Lecture, (GR, PNP) <i>Co-requisite: BIOSC 2</i></p> <p>Overview of safety procedures in life sciences labs and ethical considerations in current life sciences research: Lab safety protocols and procedures used with flammables, chemicals, radiation, microbes and biohazards; documentation, controls, fraud, plagiarism, intellectual property, authorship and other issues in biological research.</p> <p style="text-align: right;">0430.00</p>	M 11	Formerly Biosc 48NL. This is a second-semester course for the Merritt Microscopy Program, which addresses an important opportunity. There is an escalating demand for microscopy technicians in Silicon Valley and in biotech industries. The closest program which addresses this need is at San Joaquin Delta College in Stockton. Their graduates each pick from an average of 15 job opportunities and earn \$50,000-60,000/year starting salaries. Merritt has the faculty expertise and the equipment necessary to institute a similar program. This introductory course will also be of interest to a variety of other students, including artists, engineers, photographers, and biology majors.

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<p>Merritt New Course</p> <p>BIOSC 12, Seminar in Microscopy Internship .5 Units, .5 Hours Lecture, (GR, PNP) <i>Co-requisite: COPED 484B</i></p> <p>Study of the specific competencies required in the Microscopy Internship program: Assessment, development, practicum, and evaluation of individual skills in a microscopy work setting. Course accompanies COPED 484B, Occupational Work Experience in Bioscience, and provides students with the additional tools needed to have a successful and productive internship experience.</p> <p style="text-align: right;">0430.00</p>	S 11	<p>Formerly Biosc 48NF. Course is the lecture component to the accompanying occupational work experience course in Bioscience, Coped 484B. Course is needed to accompany the occupational work experience course in Bioscience to provide students with the extra skills needed to successfully complete their Microscopy Internship.</p>
<p>Merritt New Course</p> <p>BIOSC 13, Research Design 1 Unit, 1 Hour Lecture, (GR/PN) <i>Co-requisite: BIOSC 003</i></p> <p>Introduction to biological research design: Investigation and development of a research question, and crafting a research plan to answer the question; literature searches and other research tools, critique of published research, and presentation of a research proposal.</p> <p style="text-align: right;">0430.00</p>	M 11	<p>Formerly Biosc 48ND. This course is part of the curriculum for the proposed Microscopy Technician program which meets the escalating demand for microscopy technicians in Silicon Valley and in biotech industries. Research design is important for obtaining these positions. It is also a useful skill for students who wish to transfer to four-year science programs, and for any students who wish to refine their critical thinking skills or be more informed consumers of pharmaceuticals.</p>
<p>Merritt New Course</p> <p>BIOSC 14, Digital Imaging Software for Microscopy 1 Unit, 1 Hour Lecture, (GR/PNP) <i>Co-requisite: BIOSC 003</i></p> <p>Advanced-level training in digital imaging software relevant to bioscience microscopy: Image J, Metamorph, Photoshop, NIS Elements, ImagePro, Axiovision, Q Imaging, and others; theory of digital imaging, quantitative imaging, manual and automatic morphometric measurements, 6D analysis, troubleshooting.</p> <p style="text-align: right;">0430.00</p>	M 11	<p>Formerly Biosc 48NM. This is a second-semester course for the Merritt Microscopy Program, which addresses an important opportunity. There is an escalating demand for microscopy technicians in Silicon Valley and in biotech industries. The closest program which addresses this need is at San Joaquin Delta College in Stockton. Their graduates each pick from an average of 15 job opportunities and earn \$50,000-60,000/year starting salaries. Merritt has the faculty expertise and the equipment necessary to institute a similar program. This introductory course will also be of interest to a variety of other students, including artists, engineers, photographers, and biology majors.</p>

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<p>Merritt New Course</p> <p>BIOSC 15, Live-Cell Imaging 1 Unit, 1 Hour Lecture, (GR/PNP) <i>Co-requisite: BIOSC 003</i></p> <p>Principles and protocols for imaging of live cells: Transfection with fluorescent proteins (including GFP), perfusion techniques, imaging chambers, time-lapse videomicroscopy, 4D imaging software, current imaging systems, and emergent technologies.</p> <p style="text-align: right;">0430.00</p>	M 11	Formerly Biosc 48NH. This is a second-semester course for the proposed Microscopy Technician program which meets the escalating demand for microscopy technicians in Silicon Valley and in biotech industries. The closest program which addresses this need is at San Joaquin Delta College in Stockton. Their graduates each pick from an average of 15 job opportunities and earn \$50,000-60,000/year starting salaries. Merritt has the faculty expertise and the equipment necessary to institute a similar program.
<p>Merritt New Course</p> <p>BIOSC 16, Advanced Confocal Microscopy Laboratory 2 Unit, 6 Hours Lab, (GR/PNP) <i>Co-requisite: BIOSC 003</i></p> <p>Advanced Optical Microscopy Laboratory: extensive hands-on training in fully motorized widefield microscopes, a spectral imaging confocal, and a spinning disc confocal. Post-acquisition processing will be performed on multiple software platforms.</p> <p style="text-align: right;">0430.00</p>	M 11	Course is necessary for Certificate of Advanced Bioscience Microscopy.
<p>Merritt New Course</p> <p>BIOSC 20, Emerging Technologies in Microscopy 1 Unit, 1 Hour Lecture, (GR/PNP) <i>Recommended Preparation: BIOSC 002</i></p> <p>Seminar series: Guest speakers on latest developments in microscopy and digital imaging.</p> <p style="text-align: right;">0430.00</p>	M 11	Formerly Biosc 48NO. This course is a guest lecture series for advanced Microscopy students. It will allow them to update their knowledge of the cutting-edge microscopy techniques.
<p>Merritt New Course</p> <p>ENVMT 035L, Urban Agroecology Lab 1 Unit, 3 Hours Lab, (GR/PNP)</p> <p>Practical solutions for ecological farming methods and community food security: practical skills for creating an ecologically based bio-intensive garden; planning, developing, and sustaining small-scale urban food gardens for diverse housing types.</p> <p style="text-align: right;">0430.00</p>	M 11	Students participating in the Environmental Management program will have the opportunity to be a part of an urban farming certificate program. This course will offer students a chance to investigate and practice: 1. Ecological farming methods through a series of hands on, skill building exercises. 2. Alternative food production systems, mediums, and spaces that are tailored for sustaining food production in urban settings.

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Merritt New Fee Based Course	M 11	
BIOL 848NU, Natural History of Costa Rica: Pacific Northwestern Region 20 Hours		Study abroad program.
Survey of the Natural History of Costa Rica: Flora, fauna, and ecosystems of Monte Verde, Tirimbina Reserve, La Selva, Selva Verde, Manuel Antonio, Ricon de La Vieja, and InBio Park. 6822.00		
Merritt New Fee Based Course	M 11	
BIOL 848NV, Cadaver Dissection 20 Hours		For pre-med and students working toward a career as physician assistants.
Principles and practices in cadaver dissection: Non-sharp technique. 6822.00		
Merritt New Fee Based Course	M 11	
BIOSC 848NA, Genomics Internship 20 Hours		May serve as part of the proposed Genomics certification.
Practical laboratory experience in genomics: Shearing techniques, relevant PCR techniques, sample preparation, DNA sequencing on cutting edge sequencing devices, and data analysis. 6822.00		
Merritt New Fee Based Course	M 11	
BIOSC 848NB, Seminar: Advances in Genomics 34 Hours		Justification Introduces students to the science of Genomics and the Genomics Certification.
Genomics Seminar: Cutting edge methods and technologies.		
Merritt New Fee Based Course	M 11	
BUS 803, Financial Management and Investments 3 Hours		There is a community need for a course that has extensive coverage of stocks, real estate, bonds, tax shelters, and personal financial planning.
Sound money management skills, and financial plans: Tax sheltered annuities, real estate, stocks, bonds, trust deeds, new tax laws, borrowing of money, financial adjustments to inflation, and other current economic indicators. 6822.00		

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Merritt College New Program

Certificate of Proficiency: Optical Microscopy

The Certificate in Advanced Bioscience Microscopy results from the successful completion of the required courses. Prepares students for entry-level jobs in bioscience microscopy and imaging, including in the biotech industry.

Required Courses	Units
BIOSC 002 Theory and Practice of Optical Microscopy	5
BIOSC 005 Good Laboratory Practices	1
BIOSC 006 Survey of Biotech Industry	1
BIOSC 007 Practical Mammalian Cell Culture	1
BIOSC 008 Immunohistochemistry	1
BIOSC 010 Fluorescence Microscopy Laboratory	3 - 6
BIOSC 011 Lab Safety and Ethics	.5
Total Units	12.5 - 15.5