COURSE LISTINGS

Course Numbering System

The following course numbering system provides a detailed explanation regarding course number designations. When in doubt about the transferability of a course, always consult a counselor. Students are responsible for reviewing prerequisites and repeatability as noted in course descriptions. Where there is a conflict between the catalog statements and published curriculum sheets, the latter will take precedence. New courses and programs may be added throughout the year. For more information, access the online catalog at <u>foothill.edu</u>.

A degree-applicable credit course is a course that has been designated as appropriate to Foothill College degrees, which has been recommended by the College Curriculum Committee and approved by the district governing board as a collegiate course meeting the needs of students.

- Courses numbered 1-49 are typically approved for transfer to the University of California (UC).*
- Courses numbered 1-99 are typically transferable to the California State University (CSU).*
- Courses numbered 100 and above are typically not transferable.*
- Courses numbered 200–299 are non-degree-applicable and include prerequisites for required courses that lead to the associate degree.
- Courses numbered 300-399 are upper division courses for the Foothill baccalaureate degree program.**
- Courses numbered 400–499 are non-credit, adaptive learning, or other areas that do not apply to the associate degree.
- Community services courses are fee-based, and are scheduled and publicized separately from the state-supported courses identified in this catalog.

* There are some exceptions to this rule; therefore, students should consult with a counselor and/or access ASSIST.org to verify course transferability.

**Prior to the 2016-17 academic year, courses numbered 300-399 were workshop, review and other courses offered to meet special collegiate needs of a community nature.

Business and Social Sciences foothill.edu/accounting/

ACTG 1A **FINANCIAL ACCOUNTING I**

Degree & Credit Status: Degree-applicable credit course Advisory: Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Study of accounting as an information system, examining why it is important and how it is used by investors, creditors, and others to make decisions. The course covers the accounting information system, including recording and reporting of business transactions with a focus on the accounting cycle, ethics in accounting, the application of generally accepted accounting principles, international financial reporting standards, the financial statements, and financial statement analysis. Includes issues relating to asset, liability, and equity valuation, revenue and expense recognition, cash flow, internal controls, and ethics. Financial Accounting is covered over a 2-course sequence: ACTG 1A and ACTG 1B.

FHGE: Non-GE Applicable Transferable: CSU/UC

ACTG 1B Degree & Credit Status: Degree-applicable credit course

FINANCIAL ACCOUNTING II

Prerequisite: ACTG 1A.

Advisory: Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in ACTG 1BH.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Continuation of ACTG 1A focusing on accounting as an information system, examining why it is important and how it is used by investors, creditors, and others to make decisions. Long-term assets, short- and long-term liabilities, equity valuation, revenue and expense recognition, statement of cash flows, financial statement analysis, internal controls, and ethics. FHGE: Non-GE Applicable Transferable: CSU/UC

ACTG 1BH HONORS FINANCIAL 5 Units ACCOUNTING II

Degree & Credit Status: Degree-applicable credit course

Prerequisites: ACTG 1A; Honors Institute participant. Advisory: Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in ACTG 1B, 51A, 51B, or 51C. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Continuation of ACTG 1A focusing on accounting as an information system, examining why it is important and how it is used by investors, creditors, and others to make decisions. Long-term assets, short- and long-term liabilities, equity valuation, revenue and expense recognition, statement of cash flows, financial statement analysis, internal controls, and ethics. As an honors course, it is a full hands-on course with advanced teaching methods focusing on extensive research of selected accounting theory or applying accounting techniques in preparing analytical papers and analyses related to selected accounting problems. Distinguishing features include: deep focus on research, analysis, application, strong communication and critical thinking.

FHGE: Non-GE Applicable

Transferable: CSU/UC

ACTG 1C MANAGERIAL ACCOUNTING

Degree & Credit Status: Degree-applicable credit course Prerequisite: ACTG 1B or 1BH.

Advisory: Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in ACTG 1CH.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per guarter.)

Study of accounting information system for internal uses for decision-making, planning, directing operations and controlling. Process costing, job-order costing, activity-based costing, standard costing, cost behavior and cost-volume profit analysis, budgeting, performance evaluation, capital investment analysis, and ethics.

FHGE: Non-GE Applicable Transferable: CSU/UC

ACTG 1CH HONORS MANAGERIAL 5 Units ACCOUNTING

Degree & Credit Status: Degree-applicable credit course

Prerequisites: ACTG 1B or 1BH; Honors Institute participant. Advisory: MATH 10 or high school algebra; not open to students with credit in ACTG 1C or 66.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 Units

5 Units

5 hours lecture. (60 hours total per quarter.)

Study of accounting information system for internal uses for decision-making, planning, directing operations and controlling. Process costing, job-order costing, activity-based costing, standard costing, cost behavior and cost-volume profit analysis, budgeting, performance evaluation, capital investment analysis, and ethics. As an honors course, it is a full hands-on course with advanced teaching methods focusing on extensive research of selected accounting theory or applying accounting techniques in preparing analytical papers and analyses related to selected managerial accounting problems. Distinguishing features include: deep focus on research, analysis, application, strong communication and critical thinking. Transferable: CSU/UC FHGE: Non-GE Applicable

INTERMEDIATE ACCOUNTING I ACTG 51A 5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: ACTG 1B or 1BH. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Review of financial accounting standards, accounting information processing systems and the resulting financial statements. Selected topics related to present value applications, valuation techniques, and revenue recognition. Also covered, accounting for cash, receivables, and inventory. FHGE: Non-GE Applicable Transferable: CSU

INTERMEDIATE ACCOUNTING II 5 Units ACTG 51B

Degree & Credit Status: Degree-applicable credit course

Prerequisite: ACTG 1B or 1BH.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Accounting for Property, Plant & Equipment, intangible assets, current liabilities, long-term liabilities, and equity.

FHGE: Non-GE Applicable

Transferable: CSU

ACTG 51C INTERMEDIATE ACCOUNTING III 5 Units

Degree & Credit Status: Degree-applicable credit course

Prerequisite: ACTG 1B or 1BH.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Accounting for investments, income taxes, pensions and post-retirement benefits, leases, and accounting changes and error analysis; also covered, the cash flows statement, and full disclosure in financial reporting. FHGE: Non-GE Applicable Transferable: CSU

ACTG 52

ADVANCED ACCOUNTING

5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: ACTG 51A.

Advisory: Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Presents financial accounting theories and practices related to business combinations and consolidated financial reporting. This includes the development of complex business structures and forms of business combinations; consolidated financial reporting for intercorporate acquisitions and operations; and the accounting for transactions of affiliated companies. Also includes accounting and reporting issues in the multinational business environment. Accounting theory and practice related to the formation, operation and liquidation of partnerships is covered. FHGE: Non-GE Applicable Transferable: CSU

ACTG 53 FINANCIAL STATEMENT 5 Units ANALYSIS

Degree & Credit Status: Degree-applicable credit course Prerequisite: ACTG 1B or 1BH.

Advisory: ACTG 51A; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; Elementary Algebra or equivalent. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

The student will develop a set of core skills essential to financial statement analysis. It will cover strategic ratio analysis, cash flow analysis, forecasting, proforma financial statements, and firm valuation using discounted cash flow and residual income techniques. The course emphasizes the practical application of the material using a combination of lecture and hands-on examples.

FHGE: Non-GE Applicable

Transferable: CSU

ACTG 54 ACCOUNTING INFORMATION 5 Units SYSTEMS

Degree & Credit Status: Degree-applicable credit course Prerequisite: ACTG 1B or 1BH, or equivalent.

Advisory: Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249. Grade Type: Letter Grade Only

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Accounting information systems (AIS) for internal and external decision making. The course acquaints students with the fundamentals of the accounting information system and covers business transaction processing from data collection to the generation of useful, timely, and relevant information to support decision-makers. Students will also learn about internal control procedures, the revenue and expense cycles, and workpaper and other documentation techniques from an accountant/auditor user perspective. Students will also explore the variety of available software packages and learn to collaborate in team hands-on projects. FHGE: Non-GE Applicable Transferable: CSU ACTG 58 AUDITING

Degree & Credit Status: Degree-applicable credit course Prerequisite: ACTG 51A.

Advisory: Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Study of the contemporary auditing environment, auditing profession, and the principle, and practices of financial statement audit. Topics include auditing, attestation and assurance services, Generally Accepted Auditing Standards (GAAS), attestation standards, professional ethics, Sarbanes-Oxley Act 2002 regulatory requirements, internal controls and audit risk, audit planning, procedures, evidence, documentation and report writing. FHGE: Non-GE Applicable Transferable: CSU

ACTG 59 FRAUD EXAMINATION 5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: ACTG 51A.

Advisory: Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

This course covers important topics associated with modern forensic accounting and fraud examination. Topics include an examination of the various types of occupational fraud, as well as the techniques to prevent and detect fraud in organizations. In addition, students will learn principals of fraud examination including who and why individuals commit fraud. FHGE: Non-GE Applicable Transferable: CSU

ACTG 60 ACCOUNTING FOR SMALL 5 Units BUSINESS

Degree & Credit Status: Degree-applicable credit course Advisory: Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Pre-professional accounting course introducing the theory of double-entry bookkeeping/accounting. Emphasis on basic accounting cycle, elementary accounting principles and procedures, and financial records. FHGE: Non-GE Applicable Transferable: CSU

ACTG 64A COMPUTERIZED ACCOUNTING 4 Units PRACTICE USING QUICKBOOKS

Degree & Credit Status: Degree-applicable credit course Corequisite: Completion of or concurrent enrollment in ACTG 1A or 60. Advisory: Not open to students with credit in CIS 64A.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

Not Repeatable.

4 hours lecture. (48 hours total per quarter.) Focus on using QuickBooks to record financial data. Reviewing the accounting cycle, processing business transactions and preparing financial statements.

FHGE: Non-GE Applicable

Transferable: CSU

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ACTG 64B COMPUTERIZED ACCOUNTING 4 Units PRACTICE USING EXCEL

Degree & Credit Status: Degree-applicable credit course Corequisite: Completion of or concurrent enrollment in ACTG 1B or 1BH. Advisory: Not open to students with credit in CIS 64B. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.) Practice in using an electronic spreadsheet program to organize and

process financial and managerial accounting data. Includes research on the Internet.

ACTG 68B ADVANCED TAX ACCOUNTING II 5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: ACTG 67.

Advisory: Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249. Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 5 hours lecture. (60 hours total per quarter.)

Current federal income tax law as it relates to corporations, estate, trust, and gift taxes. sferable: CSU

OUNTING III

3 Units edit course

emonstrated proficiency OR through an equivalent 5 & ESLL 249.

procedures and review of

sferable: CSU

ACTG 70R	INDEPENDENT STUDY IN ACCOUNTING	1 Unit
ACTG 71R		2 Units
ACTG 72R		3 Units
ACTG 73R		4 Units
Degree & Credit	Status: Degree-applicable credit course	

total per quarter.)

and their studies in Aca project or an assignment nd instructor. The student is ermine the scope of assigncompletion. Students may dy per department. sferable: CSU

OVERNMENT 5 Units

edit course

emonstrated proficiency OR through an equivalent 5 & ESLL 249.

unting. Topics include finanent accounting; budgetary proprietary funds; trust and and nonprofit accounting for d health care providers. sferable: CSU

ACTG 76

ETHICS IN ACCOUNTING

Degree & Credit Status: Degree-applicable credit course Prerequisite: ACTG 1A.

Advisory: Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per guarter.)

Study of professional ethics for accounting from a business perspective in context of financial statement frauds, such as Enron. Topics include nature of accounting, ethical behavior in accounting, ethical theory, rules of the code of conduct, ethics of tax accounting and ethics of the auditing function.

FHGE: Non-GE Applicable

Transferable: CSU

ADAPTIVE LEARNING: COMMUNITY BASED

Student Resource and Support Programs 650.949.7017 foothill.edu/drc/

LIP-READING: SIMPLE **ALCB 400A** 0 Units CONSONANT SOUNDS

Degree & Credit Status: Non-degree-applicable non-credit course Advisory: Students are advised to set aside a short period of time each day to allow practice either in a mirror or with another individual. Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

24 hours total.

Designed for adults with acquired, congenital or progressive hearing impairment and those who have difficulty processing receptively speech in adverse listening situations. Includes the most visible basic consonant sounds of the English language and how production of these basic speech sounds appears on the lips and face of various speakers. Descriptions of mechanics of the ear, sound and hearing testing will be presented. Large area assistive listening devices will be described (e.g., T-coil, FM, infrared, personal captioning devices). Practical experience in lip-reading both in and out of class.

FHGE: Non-GE Applicable

Transferable: None

LIP-READING: VOWELS **ALCB 400B**

Degree & Credit Status: Non-degree-applicable non-credit course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

24 hours total.

Designed for adults with acquired, congenital or progressive hearing impairment and/or difficulty processing speech in adverse listening conditions. Includes the most visible vowel sounds of English language and contrasting the appearance of production of different vowel sounds by the oral and facial structures of the speaker. Aspects of hearing and the auditory range of vowels will be discussed. Small area assistive listening devices will be introduced along with special features of hearing aids (e.g., restaurant programs, t-coils, music programs). Practical experience in lip-reading both in and out of class.

FHGE: Non-GE Applicable

Transferable: None

ALCB 400C

5 Units

LIP-READING: BACK **CONSONANTS & BLENDS**

Degree & Credit Status: Non-degree-applicable non-credit course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

24 hours total.

Designed for adults with acquired, congenital or progressive hearing impairment or who have difficulty hearing in adverse listening conditions. Includes the least visible consonant sounds and blends of consonant sounds in the English language and contrasting the appearance of production of different consonant sounds by the oral structures, including cues from behind the lips, teeth and face of the speaker. Aspects of hearing and the auditory range of vowel, consonants and music will be discussed. Assistive listening devices for television, adaptive telephones and assistive devices for hard of hearing, such as special alarms and emergency procedures, technology for going to the movies will be discussed along with special features of hearing aids (e.g., variable digital settings, restaurant programs, t-coils, music programs). Practical experience in lip-reading and using adaptive equipment both in and out of class. Speech reading difficult-to-see vowels, consonants and blends.

FHGE: Non-GE Applicable

Transferable: None

ALCB 400D SPEECHREADING CHALLENGE 0 Units Degree & Credit Status: Non-degree-applicable non-credit course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

24 hours total.

For adults who have been practicing lip-reading/speechreading techniques and want to maintain performance levels through highly challenging practice sessions that use the variety of skills needed for ease of communication barriers caused by hearing loss. Improve ability to lip-read in real time and complex conversational situations.

FHGE: Non-GE Applicable

Transferable: None

ALCB 400E LITERARY LIP-READING

0 Units

Degree & Credit Status: Non-degree-applicable non-credit course Advisory: Students are advised to set aside short dedicated periods of time each day for lip-reading practice with others or in-mirror practice. Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

24 hours total.

0 Units

Advanced instruction in lip-reading techniques for the hard of hearing adult. Practice in lip-reading/speechreading using group discussion of readings presented in class by a variety of speech models. Emphasis on speechreading language samples that vary in length from one word to one paragraph with or without context, sometimes presented partially aloud, sometimes in complete silence. Additional focus on utilization of extensive contextual cues and use of short- and long-term memory to help with speech understanding, as well as focus on homophene review and visibility of articulation of speech sounds, visible discrimination of speech sounds. Lip-reading materials will consist of the reading of books, short stories or articles written in contemporary American English read together in class, suggested by students and selected by the instructor or by a vote of the students. FHGE: Non-GE Applicable **Transferable:** None

WORLD NEWS DISCUSSION **ALCB 406Y** 0 Units

Degree & Credit Status: Non-degree-applicable non-credit course Grade Type: Non-credit course that receives no grade Unlimited Repeatability. 24 hours total.

Intended for the disabled to study world news by examining turning points in history, comparing and contrasting them with current world events to enhance memory retention and self-esteem.

FHGE: Non-GE Applicable

127

Transferable: None

ALCB 407Y SOCIAL CH					0 Units
Degree & Credit Status: Non-degr				e-applicable non-credit co	urse
Grade Type: Non-credit course that Unlimited Repeatability.	it receives no grade	Unlimited Repea	-credit course that	receives no grade	
24 hours total.		24 hours total.	itability.		
	ve memory and understanding of chang		disabled student to	acquire information about	current
	of the impact of these changes and			ng and contrasting current	
increase social interaction.	or the impact of these changes and		ce memory retentio	•	men pase
FHGE: Non-GE Applicable	Transferable: None	FHGE: Non-GE		Transferable: None	
ALCB 408Y ART APPRE	CIATION 0 Uni	ts ALCB 451Y	DRAWING &	PAINTING	0 Units
Degree & Credit Status: Non-degr	ee-applicable non-credit course	Degree & Credit	Status: Non-degree	e-applicable non-credit co	urse
Grade Type: Non-credit course that	it receives no grade	Grade Type: Nor	-credit course that	receives no grade	
Unlimited Repeatability.		Unlimited Repea	atability.		
24 hours total.		24 hours total.			
	to acquire an appreciation of artists and			improve expressive capabi	
	or social interaction and intellectual stim	,		tion, increase self-esteem a	
	red knowledge of artists and their work.		•	painting, drawing and sket	-
FHGE: Non-GE Applicable	Transferable: None		•	two-dimensional art in a g Transferable: None	roup setting.
	RECIATION 0 Uni	FHGE: Non-GE	Аррисаріе	Transferable: None	
ALCB 409Y MUSIC APP Degree & Credit Status: Non-degr		ALCB 456Y	CRAFTS		0 Units
Grade Type: Non-credit course that				e-applicable non-credit co	
Unlimited Repeatability.	t receives no grade		er Grade or Pass/No		ui se
24 hours total.		Unlimited Repea			
	to acquire appreciation of composers ar				
their work. Emphasis on identificat			disabled student to	improve expressive capabi	lity, manip-
FHGE: Non-GE Applicable	Transferable: None	ulatory skills and	eye-hand coordinat	tion, increase self-esteem a	ind increase
		social interaction	n through the use of	seasonal, leather, wood, fa	ıbric, yarn
ALCB 413Y RELAXATIC	N TECHNIQUES 0 Uni			projects in a group setting	
Degree & Credit Status: Non-degr	ee-applicable non-credit course	FHGE: Non-GE	Applicable	Transferable: None	
Grade Type: Letter Grade or Pass/	No Pass				
Unlimited Repeatability.		ALCB 462Y	VERBAL EXP		0 Units
24 hours total.				e-applicable non-credit co	urse
	o acquire information about and develo	• ••	-credit course that	receives no grade	
techniques for achieving relaxation sion.	n by releasing mental and physical ten-	Unlimited Repea 24 hours total.	itability.		
FHGE: Non-GE Applicable	Transferable: None	Intended for the	disabled student to	teach techniques in verbal	communica-
				ocial and work-related situa	itions.
ALCB 414Y STRESS MA	NAGEMENT 0 Uni	ts FHGE: Non-GE	Applicable	Transferable: None	
Degree & Credit Status: Non-degr	ee-applicable non-credit course				
Grade Type: Non-credit course that	it receives no grade	ALCB 463Y	CREATIVE W		0 Units
Unlimited Repeatability.		-	-	e-applicable non-credit co	urse
24 hours total.		<i>'</i> ''	-credit course that	receives no grade	
	to recognize stress symptoms and be-	Unlimited Repea	itability.		
	triggers in stress. Learn stress manage-		disabled student to	procept written autobiege	aphical
ment skills from passive to active t FHGE: Non-GE Applicable	Transferable: None			present written autobiograes which are shared orally t	
				to enhance self-esteem, m	
ALCB 421Y AROUND T TRAVEL STU	HE WORLD IN 0 Uni	FHGE: Non-GE		Transferable: None	
Degree & Credit Status: Non-degr					
Grade Type: Non-credit course that		ALCB 465Y	CREATIVE SE		0 Units
Unlimited Repeatability.				e-applicable non-credit co	
24 hours total			oradit course that		

24 hours total.

Intended for the disabled student to recall personal travel. Focuses on the discussion of geography, history, religions and arts of other cultures to increase knowledge and social interaction, and improve memory retention. **FHGE: Non-GE Applicable** Transferable: None

Transferable: None

Grade Type: Non-credit course that receives no grade

Intended for the disabled student to provide directed experiences in

self-expression. Emphasis on various activities designed to enhance physical and cognitive creative expression and enable the student to develop independent creative activities through adapted drama, music, art and writing.

Unlimited Repeatability.

FHGE: Non-GE Applicable

24 hours total.

ALCB 466 ACCESSING THE DIGITAL WORLD 0 Units

Degree & Credit Status: Non-degree-applicable non-credit course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

2 hours lecture. (24 hours total per quarter.)

Hands-on practice for individuals with disabilities and/or older adults in understanding and demonstrating the basics of utilizing smart phones, tablets, and/or computers, to be better connected to the digital world and able to access people and resources they may need. Training and instruction in performing a variety of basic tasks involved in operating a variety of devices will be provided.

FHGE: Non-GE Applicable

Transferable: None

0 Units

0 Units

HEALTHY LIVING ALCB 467

Degree & Credit Status: Non-degree-applicable non-credit course Grade Type: Non-credit course that receives no grade

Unlimited Repeatability.

24 hours lecture total per quarter.

Focuses on assisting individuals with learning differences in leading healthy lifestyles, in regards to both physical and mental health. Aspects of physical health that will be explored include: physical activity and exercise, nutrition, hygiene, sleep, disease prevention, obesity, substance abuse, reproductive health, and safety. Aspects of mental health that will be covered include: stress management, relaxation techniques, negative thinking traps, optimism, and resilience. The course will address strategies for helping students with learning differences make healthy life choices on their path to becoming more independent adults.

FHGE: Non-GE Applicable

Transferable: None

SOCIAL SKILLS **ALCB 468**

Degree & Credit Status: Non-degree-applicable non-credit course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

24 hours lecture total per quarter.

Focuses on the etiquette of appropriate interaction in the general public, educational settings, community involvement and employment arenas. Enhancement of self-esteem and socialization skills in order to increase confidence in personal and social interactions. Additionally, the course will assist students with developing and maintaining friendships, as well as identifying potential sources of friendships in the community. FHGE: Non-GE Applicable **Transferable: None**

ADAPTIVE LEARNING: COMPUTER ACCESS CENTER

Student Resource and Support Programs 650.949.7017 foothill.edu/drc/

ALCA 201

Degree & Credit Status: Non-degree-applicable credit course Advisory: Not open to students with credit in ALCA 101. Grade Type: Pass/No Pass Only Not Repeatable.

EVALUATION

COMPUTER ACCESS

3 hours laboratory. (36 hours total per quarter.)

Survey course designed to provide students with an overview of current assistive technologies including Dragon Naturally Speaking, Kurzweil, Inspiration, etc. Course content includes an evaluation of technology needs, tutorials, and hands-on practice for various software and hardware. FHGE: Non-GE Applicable **Transferable:** None

ADAPTIVE LEARNING: LEARNING DISABILITY

Student Resource and Support Programs 650.949.7017 foothill.edu/drc/

ALLD 206 PARAGRAPH REMEDIATION 2 Units

Degree & Credit Status: Non-degree-applicable credit course

Corequisites: ENGL 110 and 209.

Grade Type: Pass/No Pass Only Not Repeatable.

6 hours laboratory. (72 hours total per quarter.)

A paragraph development class with an emphasis on writing concisely with correct grammar. Provides support and instruction to students in remedial English courses who struggle with basic reading and writing skills. Focus on research, reading comprehension, content development, and writing structure.

FHGE: Non-GE Applicable

Transferable: None

3 Units

0 Units

ALLD 210 UNDERSTANDING LEARNING DIFFERENCES

Degree & Credit Status: Non-degree-applicable credit course Advisory: Not open to students with credit in ALLD 601. Grade Type: Pass/No Pass Only

Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Focuses on learning differences, learning theory and strategies related to specific learning challenges. Creation of individual learning portfolio to identify learning style, strengths and weaknesses. Covers understanding of learning differences, methods of retention and output of knowledge. Cognitive and achievement testing will be provided as appropriate to identify student individual learning profile. Transferable: None

FHGE: Non-GE Applicable

ALLD 402 ACADEMIC SKILLS

Degree & Credit Status: Non-degree-applicable basic skills course Grade Type: Non-credit course that receives no grade

Unlimited Repeatability.

24 hours total.

An open-entry, open-exit course for students with disabilities who seek academic support in general. Instruction and review of: time management, self-advocacy, short and long term planning, note-taking and study skills, organization, test preparation, reduction of test anxiety, utilization of assistive technology.

FHGE: Non-GE Applicable

Transferable: None

ADAPTIVE LEARNING: TRANSITION TO WORK

Student Resource and Support Programs 650.949.7017 foothill.edu/ttw/

ALTW 201	BASIC ENGLISH FOR	2 Units
	STUDENTS WITH LEARNING	
	DIFFERENCES	

Degree & Credit Status: Non-degree-applicable credit course Advisory: Not open to students with credit in ALTW 105.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

This basic English class emphasis is grammar, sentence and paragraph structure with practical applications related to business, public and/or non-profit settinas.

FHGE: Non-GE Applicable

Transferable: None

1 Unit

2 hours lecture. (24 hours total per quarter.) Overview of community and campus resources for students with disabilities. FHGE: Non-GE Applicable **Transferable: None ALTW 208** JOB TRAINING/INTERNSHIP 1.5 Units FOR STUDENTS WITH LEARNING DIFFERENCES Degree & Credit Status: Non-degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 4.5 hours laboratory. (54 hours total per quarter.) Practical skills needed for successful employment. Emphasis on on-thejob training experiences, to learn workplace standards. Preparation for work-readiness through hands-on work duties on and off campus settings. Discussion and evaluation of work performance. FHGE: Non-GE Applicable **Transferable: None**

Degree & Credit Status: Non-degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

WITH LEARNING DIFFERENCES

FHGE: Non-GE Applicable

ALTW 207 RESOURCES IN THE COMMUNITY FOR STUDENTS

Suites and Google Chrome. Beginning level word processing to be used in private, nonprofit and government work environments.

Advisory: Not open to students with credit in ALTW 112. Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 3 hours lecture. (36 hours total per quarter.) Introduction to the word processing computer application, Microsoft Office

Degree & Credit Status: Non-degree-applicable credit course

BEGINNING WORD PROCESSING 3 Units

ALTW 206

ALTW 202

Not Repeatable.

ALTW 203

Not Repeatable.

ALTW 204

their vocational choices. FHGE: Non-GE Applicable

FHGE: Non-GE Applicable

be able to communicate effectively in competitive employment settings. FHGE: Non-GE Applicable **Transferable:** None

THE WORKPLACE Degree & Credit Status: Non-degree-applicable credit course

COMMUNICATION SKILLS IN

BASIC MATH FOR STUDENTS

Emphasis on functional math concepts that include skill building for money handling exchanges, budget planning for independent living, comparison

Transferable: None

Transferable: None

Transferable: None

Degree & Credit Status: Non-degree-applicable credit course

shopping strategies and other related practical math applications.

LEARNING STYLES &

This course enables students to explore and identify their learning styles,

values, personality traits and develop a personal profile that helps them with

STRATEGIES

Degree & Credit Status: Non-degree-applicable credit course

Grade Type: Letter Grade or Pass/No Pass

Grade Type: Letter Grade or Pass/No Pass

2 hours lecture. (24 hours total per quarter.)

2 hours lecture. (24 hours total per quarter.)

WITH LEARNING DIFFERENCES

Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 2 hours lecture. (24 hours total per quarter.) Focuses on proper communication skills in written business formats, verbal

presentations, and appropriate body language styles in order for students to

ALTW 209 SOCIAL SKILLS

Degree & Credit Status: Non-degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2 hours lecture. (24 hours total per guarter.)

Focuses on the etiquette of appropriate interaction in the general public, educational settings, community involvement and employment arenas. Emphasis on building self-esteem and socialization skills in order to increase confidence in personal and social interactions.

FHGE: Non-GE Applicable **Transferable: None**

3 Units

ALTW 211 INTRODUCTION TO EXCEL Degree & Credit Status: Non-degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 Units

2 Units

2 Units

2 Units

3 hours lecture. (36 hours total per quarter.)

Introduction to spreadsheet computer application. Beginning level of spreadsheet database tool, emphasis on spreadsheets, charts and tables. Transferable: None FHGE: Non-GE Applicable

ALTW 212	JOB SEARCH SKILLS: THE	2 Units
	RESUME	

Degree & Credit Status: Non-degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Focuses on successful resume writing techniques including the creation and completion of a resume. In addition, understanding online electronic processes for submission of resume, hidden job market, and types of resumes. Development of a master application that will be used in the job search processes.

FHGE: Non-GE Applicable

Transferable: None

ALTW 213 WORK ATTITUDES & 2 Units **BEHAVIORS ON THE JOB** Degree & Credit Status: Non-degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 2 hours lecture. (24 hours total per quarter.)

Will assist the student to develop appropriate work behavior and attitudes. Learn conflict management and pro-active problem solving skills in an entry level job environment.

FHGE: Non-GE Applicable Transferable: None

ALTW 214 JOB SEARCH SKILLS: 2 Units INTERVIEW PREPARATION

Degree & Credit Status: Non-degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Focuses on interviewing techniques and the special problems faced by people with disabilities when seeking employment. Interview preparation, mock interviews, behavioral interviewing techniques will be explored through lectures and role-play and feedback. Constructive feedback will be given to students in order to enhance their interviewing techniques. FHGE: Non-GE Applicable Transferable: None

ALTW 216 DISABILITY & THE LAW 3 Units

Degree & Credit Status: Non-degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Understanding basic citizens' rights and responsibilities. Emphasis on the Americans with Disabilities Act (ADA), Rehabilitation Act of 1973, IDEA, and other laws related to people with disabilities. Understanding the meaning of accommodation and applying it to work and school settings. FHGE: Non-GE Applicable

Transferable: None

COURSE CATALOG 2020-2021

ALTW 217		IATE COMPUTER ONS FOR STUDENTS	3 Units	ALTW 230		DN TO MICRO-BUSINESS	2 Units
		NING DIFFERENCES		Dearee & Credit		applicable credit cour	
Degree & Credit		ree-applicable credit course		Grade Type: Lett	-	-FF	
-	er Grade or Pass/	••		••	ee times for credit.		
Not Repeatable.			•	24 hours total per qu	uarter.)		
•	(36 hours total pe	er quarter.)				sinesses for entrepren	eurs with
		rosoft Word, Microsoft Excel a	and			rofiting from a micro-t	
		intermediate documents to be				grants, micro loans ar	
		and/or business environment.				ng a marketing plan. Ba	
FHGE: Non-GE A		Transferable: None				icro-business. Challeng	
	pplicable	fransferable. None			preneurs with disabil		jes and oppor-
				FHGE: Non-GE A		Transferable: Non	
ALTW 218		EVENTS FOR	2 Units	FIGE: Non-GE F	Applicable	indifisher able: Non	le
		WITH LEARNING					
	DIFFERENC			ALTW 231	INTRODUCTIO		2 Units
		ree-applicable credit course			PRESENTATIO		
Grade Type: Lett	er Grade or Pass/	No Pass		Degree & Credit	Status: Non-degree-	applicable credit cour	se
Not Repeatable.				Grade Type: Lett	er Grade Only		
2 hours lecture. ((24 hours total pe	r quarter.)		May be taken thr	ee times for credit.		
Exploration of gl	obal, national and	community topics through a v	ariety of	2 hours lecture. (24 hours total per qu	uarter.)	
media sources. D	iscussion on the p	pro's and con's of different new	vs media	Introduction to a	ppropriate skills and	behaviors necessary fo	or making suc-
formats and pers						th disabilities. Students	-
FHGE: Non-GE A	•	Transferable: None		•	esent a project or a sp		
				FHGE: Non-GE A		Transferable: Non	ie
ALTW 219	USING THE		2 Units				
			2 Onits	ALTW 232	SOCIAL MEDI	A 9.	2 Units
Crede Types Lett	er Grade or Pass/	ree-applicable credit course		ALIW 252	DIGITAL CITIZ		2 Onits
		NO Pass					
Not Repeatable.						applicable credit cour	se
	(24 hours total pe		Casala	Grade Type: Lett			
		he use of internet tools such a	-	•	ee times for credit.		
	lications, Apps, Int	ternet research, and social mee	аіа арріі-		24 hours total per qu		
cations.						ely utilize information t	
FHGE: Non-GE A	Applicable	Transferable: None				ction. This course will	
						e different social media	
ALTW 223	INDEPEND	ENT LIVING	4 Units			rofiles, interact with o	
	SKILLS: FIN	ANCIAL				c.). In addition, studer	
	LITERACY					behavior in regard to	
Degree & Credit	Status: Non-degr	ee-applicable credit course				idents specific skills fo	
	er Grade or Pass/					while using the internet	
Not Repeatable.						Instagram, Twitter, Re	addit, Snapchat,
•	(48 hours total pe	er quarter.)		YouTube, LinkedIr	n, and email.		
		concepts with emphasis placed	d upon	FHGE: Non-GE A	Applicable	Transferable: Nor	ie
		credit card use, personal budg					
-		nancial outcomes, and making r		ALTW 233	HEALTHY LIVI	NG FOR	2 Units
• • •		dents with disabilities enrolled i	•	/11// 200		TH LEARNING	2 011105
Transition to Wor		ients with disabilities en oned i	in the		DIFFERENCES		
FHGE: Non-GE A	•	Transferable: None		Degree & Credit		, applicable credit cour	~~ A
	pplicable	fialisterable. None			er Grade or Pass/No		30
				Not Repeatable.		1 0 3 3	
ALTW 229		ELATIONSHIPS	3 Units	•	24 hours total per qu	uarter)	
		ree-applicable credit course					loading boolthy
Grade Type: Lett	er Grade or Pass/	No Pass				earning differences in l	
Not Repeatable.						and mental health. Asp	
3 hours lecture. ((36 hours total pe	r quarter.)				hysical activity and exe	
Development of	understanding of	personal boundaries and makir	ng positive			esity, substance abuse	
choices in relatio	nships. Emphasis	placed upon increasing self-est	teem,			health that will be cov	
developing appro	opriate personal ru	ules for intimate, personal, prot	fessional			ques, negative thinking	
and general relat	ionships, and reco	ognizing and effectively handlin	ng personal			ddress strategies for h	
		th disabilities tools to effective				y life choices on their	path to becom-
		hip choices. Intended for stude		ing more indeper			
		n to Work program.		FHGE: Non-GE A	Applicable	Transferable: Non	ie
FHGE: Non-GE A		Transferable: None					
	••						

ALTW 230

INTRODUCTION TO

2 Units

3 Units

ALTW 217

INTERMEDIATE COMPUTER

ALTW 430 VOCATIONAL MICRO-BUSINESS 0 Units PRACTICUM Degree & Credit Status: Non-degree-applicable non-credit course Prerequisite: ALTW 230. Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

48 hours total.

Hands-on practice of running a micro-business, including implementation of sales techniques, effective customer services, communication and professional behavior. Training and instruction in simple accounting and use of spreadsheets to organize day-to-day financial data, such as cash flow. Manage and operate a micro-business.

FHGE: Non-GE Applicable

Transferable: None

0 Units **ALTW 431 PUBLIC TRANSIT SKILLS**

Degree & Credit Status: Non-degree-applicable non-credit course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

72 hours total.

Introduction and practice of essential travel skills, such as reading bus/train schedules and maps, paying fares, boarding and exiting public transit, making transfers between the same or different modes of public transportation. Students will learn how to make judgments in various travel disruptions, use appropriate social and communication skills.

FHGE: Non-GE Applicable

Transferable: None

ALLIED HEALTH SCIENCES

Biological and Health Sciences 650.949.7249 foothill.edu/biology/

AHS 50A

INTRODUCTION TO ALLIED 1.5 Units HEALTH PROGRAMS

Degree & Credit Status: Degree-applicable credit course Prerequisites: ENGL 1A, 1AH, or 1S & 1T; MATH 105. Advisory: Not open to students with credit in AHS 50. Grade Type: Letter Grade Only Not Repeatable.

1.5 hours lecture. (18 hours total per quarter.)

Introduction to Foothill College allied health programs for the incoming first year student. Overview of HIPAA and patient privacy, Academic Honor Code, student rights and responsibilities, strategies for student success, stress and time management, professionalism and ethical behavior in the health care environment and individual program policies and procedures for allied health students. Introduction to peer reviewed literature in the professional discipline, analyzing a research study, writing a full research essay of a peer reviewed research study and understanding of the data analysis of the research. Intended for students who have applied and been accepted into allied health programs; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

AHS 50B

INTERPROFESSIONAL PATIENT COMPETENCIES

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

6 hours total per guarter.

This is the second of three courses focusing on interprofessional education (IPE). This course will include an overview on the pediatric patient, the geriatric patient, communication issues in health care settings and understanding the skills and scope of practice of other health care professionals with a focus on patient safety and teamwork. Enrollment is limited to students accepted in an allied health program.

FHGE: Non-GE Applicable

Transferable: CSU

AHS 50C

INTERPROFESSIONAL COMPETENCIES FOR **COLLABORATIVE PRACTICE**

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

Not Repeatable.

6 hours total per quarter.

This is the third of three courses focusing on interprofessional education (IPE). This course will include an overview of the health care team, professional communication issues in health care settings and values and ethics for interprofessional practice. Enrollment is limited to students accepted in an allied health program.

FHGE: Non-GE Applicable

Transferable: CSU

AHS 51

HEALTH CAREERS EXPLORATION

1.5 Units

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1.5 hours lecture. (18 hours total per quarter.)

This course focuses on assessment and career research in the development of a health care career plan. Careers include, but are not limited to: EMT, Paramedic/Fire Science, Nursing, Pharmacology Technology, Dental Hygiene, Dental Assisting, Respiratory Therapy and Radiologic Technology. Emphasis is on interest, personality testing, values clarification, career information, research skills, individual skills assessment, decision making, communication, teamwork, inter-professional education and goal setting specifically in the health care field. The course also covers health care job trends, education and licensure requirements.

FHGE: Non-GE Applicable **Transferable: CSU**

MEDICAL TERMINOLOGY 4 Units

AHS 52 Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Introduction to medical terminology as used in the health professions. Provides opportunities for practical application of medical terminology and further development of skills in analyzing components of medical terms and building a medical vocabulary applicable to specialties of medicine. Course content includes anatomical and physiological terminology; basic structure, prefixes, suffixes; combining forms; abbreviations, clinical procedures, laboratory and diagnostic tests related to each body system.

FHGE: Non-GE Applicable **Transferable: CSU**

COMMUNITY HEALTH AHS 55 2 Units PROMOTION

Degree & Credit Status: Degree-applicable credit course Advisory: This course requires clinical field experiences that may take place outside of the U.S.; the cost of travel is borne by the student. Grade Type: Letter Grade Only Not Repeatable.

1 hour lecture, 3 hours laboratory. (48 hours total per quarter.)

Introduction to community approaches to disease prevention and health promotion with an emphasis on a holistic approach, risk and resilience, social capital, and social change to promote community health in communities with limited access to care. Students have the opportunity to shadow licensed doctors, dentists and other health care professionals in urgent and preventive medical/dental services. Intended for students pursuing an allied health or medical career.

FHGE: Non-GE Applicable

Transferable: CSU

.5 Units

AHS 60A CARDIOLOGY FOR ALLIED HEALTH

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in RSPT 60A. Grade Type: Letter Grade Only Not Repeatable. 2 hours lecture. (24 hours total per quarter.) Electrocardiogram and rhythm recognition. Invasive and non-invasive hemodynamic monitoring; cardiac diagnostic and therapeutic procedures;

and fluid balance. FHGE: Non-GE Applicable **Transferable: CSU**

ADVANCED CARDIAC LIFE AHS 60C

SUPPORT Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in RSPT 60B. Grade Type: Letter Grade Only

Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Preparation for Advanced Cardiac Life Support Certification for health care providers who will be directing or participating in the management of cardiopulmonary arrest or other cardiovascular emergencies. Students will practice skills through active participation in simulated cases in order to enhance skills associated with diagnosis and treatment of cardiopulmonary arrest, acute arrhythmia, stroke, and acute coronary syndromes (ACS). FHGE: Non-GE Applicable **Transferable: CSU**

PEDIATRIC ADVANCED LIFE 2 Units **AHS 60D** SUPPORT (AHA PALS)

Degree & Credit Status: Degree-applicable credit course

Advisory: Students must successfully pass the written exam, and successfully perform the skills to earn PALS certification. Grade Type: Letter Grade Only

Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

The American Heart Association Pediatric Advanced Life Support (PALS) course is based on science evidence from the 2015 AHA Guidelines for CPR and ECC. The goal of the PALS course is to aid the pediatric healthcare provider in developing the knowledge and skills necessary to efficiently and effectively manage critically ill infants and children, resulting in improved outcomes. Skills taught include recognition and treatment of infants and children at risk for cardiopulmonary arrest; the systematic approach to pediatric assessment; effective respiratory management; defibrillation and synchronized cardioversion; intraosseous access and fluid bolus administration; and effective resuscitation team dynamics. FHGE: Non-GE Applicable

AHA FIRST AID/CPR FOR THE

AHS 60E

Transferable: CSU

1 Unit

NON-HEALTHCARE PROVIDER Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Unlimited Repeatability.

1 hour lecture, 1 hour laboratory. (24 hours total per quarter.)

Designed primarily for the workplace first aid provider, this course follows current medical and educational guidelines and meets federal and state OSHA regulatory requirements for training employees in adult CPR and first aid. Designed for those with an occupational requirement to be trained in first aid and who may be expected to provide care until professional help arrives, as well as any individual who wishes to be trained in what to do in the event of an emergency until professional help arrives. Not intended to be used as a prerequisite for individuals entering the EMT program. FHGE: Non-GE Applicable **Transferable: CSU**

2 Units AHS 60F

2 Units

PREHOSPITAL TRAUMA LIFE SUPPORT (PHTLS)

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Prehospital Trauma Life Support (PHTLS) is recognized around the world as the leading continuing education program for prehospital emergency trauma care. PHTLS courses improve the quality of trauma care in your area and decrease mortality. The program is based on a prehospital trauma care philosophy, stressing the treatment of the multi-system trauma patient as a unique entity with specific needs. This may require an approach to the trauma patient that varies from traditional treatment modalities. PHTLS promotes critical thinking as the foundation for providing quality care for the trauma patient. This course is scenario-based, with lectures and interactive skills station components to enhance knowledge and further develop the critical thinking skills required to effectively treat trauma patients in the field.

FHGE: Non-GE Applicable

Transferable: CSU

ANTHROPOLOGY

Business and Social Sciences 650.949.7322 foothill.edu/anthropology/

4 Units ANTH 1 INTRODUCTION TO PHYSICAL ANTHROPOLOGY

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in ANTH 1H. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Survey and investigation of the basic processes of evolution and their application to the development of modern humans. Impact of natural selection and genetics on development of new species. Evolutionary processes behind the physical and behavioral development of primates. History of the human lineage by reconstructing the fossil record, using investigations by paleoanthropologists, geologists, biologists, and archaeologists. Relationship between contemporary biology and behavior, facilitating an understanding of the effect of them upon future humankind.

FHGE: Natural Sciences Transferable: CSU/UC

ANTH 1H

HONORS INTRODUCTION TO PHYSICAL ANTHROPOLOGY

4 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant. Advisory: Not open to students with credit in ANTH 1.

Grade Type: Letter Grade Only

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Survey and investigation of the basic processes of evolution and their application to the development of modern humans. Impact of natural selection and genetics on development of new species. Evolutionary processes behind the physical and behavioral development of primates. History of the human lineage by reconstructing the fossil record, using investigations by paleoanthropologists, geologists, biologists, and archaeologists. Relationship between contemporary biology and behavior, facilitating an understanding of the effect of them upon future humankind. As an honors course, it is a full thematic seminar with advanced teaching methods focusing on major writing, reading, and research assignments, student class lectures, group discussions and interactions.

FHGE: Natural Sciences

Transferable: CSU/UC

2 Units

ANTH 1HL

HONORS PHYSICAL

ANTHROPOLOGY LABORATORY

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant. Corequisite: Completion of or concurrent enrollment in ANTH 1H. Advisory: Not open to students with credit in ANTH 1L. Grade Type: Letter Grade Only Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Introductory laboratory course focusing on scientific methodology to explore/experiment with topics from Anthropology lecture sections. Topics include Mendelian genetics, population genetics, human variability, forensics, medical anthropology, epidemiology, hominid dietary patterns, non-human primates, primate dental and skeletal anatomy, fossil hominids, chronometric dating, environmental challenges to hominids, environmental impact of hominid behavior, general methodologies utilized in physical anthropological research, and the general study of hominids as bio-culturally adapting animals. As an honors course, it is a full thematic seminar with advanced teaching methods focusing on major writing, reading, and research assignments, student class lectures, group discussions and interactions. Material covered will be enhanced and research techniques and methodologies explored in greater depth than in the non-honors version of this course. **FHGE: Natural Sciences** Transferable: CSU/UC

ANTH 1L PHYSICAL ANTHROPOLOGY 1 Unit LABORATORY

Degree & Credit Status: Degree-applicable credit course Corequisite: Completion of or concurrent enrollment in ANTH 1 or 1H. Advisory: Not open to students with credit in ANTH 1HL. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Introductory laboratory course focusing on scientific methodology to explore/experiment with topics from anthropology lecture sections. Topics include Mendelian genetics, population genetics, human variability, forensics, medical anthropology, epidemiology, hominin dietary patterns, non-human primates, primate dental and skeletal anatomy, fossil hominins, chronometric dating, environmental challenges to hominins, environmental impact of hominin behavior, general methodologies utilized in physical anthropological research, and the general study of hominins as bio-culturally adapting animals.

FHGE: Natural Sciences

Transferable: CSU/UC

4 Units

ANTH 2A CULTURAL ANTHROPOLOGY

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in ANTH 2AH. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Introduction to the study of human culture and the concepts, theories, and methods used in the comparative study of sociocultural systems, with an emphasis on understanding and appreciating human diversity. Topics include a cross-cultural exploration of: subsistence strategies; social, political and economic organization; language and communication; marriage and kinship; religion; gender; ethnicity and race; social inequality; culture change; and the effects of colonialism and globalization. Focus is made on the application of anthropological perspectives to contemporary social issues. FHGE: Social & Behavioral Sciences Transferable: CSU/UC

1 Unit ANTH 2AH

HONORS CULTURAL ANTHROPOLOGY

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant. Advisory: Not open to students with credit in ANTH 2A. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Introduction to the study of human culture and the concepts, theories, and methods used in the comparative study of sociocultural systems, with an emphasis on understanding and appreciating human diversity. Topics include a cross-cultural exploration of: subsistence strategies; social, political and economic organization; language and communication; marriage and kinship; religion; gender; ethnicity and race; social inequality; culture change; and the effects of colonialism and globalization. Focus is made on the application of anthropological perspectives to contemporary social issues. As an honors course, it is a full thematic seminar with advanced teaching methods focusing on major writing, reading, and research assignments, student class lectures, group discussions and interactions. **FHGE: Social & Behavioral Sciences** Transferable: CSU/UC

PATTERNS OF CULTURE ANTH 2B 4 Units

Degree & Credit Status: Degree-applicable credit course

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

A cross-cultural, comparative and hands-on study of patterns in culture with a focus on recognizing, understanding and appreciating cultural diversity through ethnographic case studies. Introduces students to gualitative research methods in the social sciences in general, and more specifically to the concepts, theories and ethnographic methods used by cultural anthropologists in the study of human culture and societies. Students are provided with an opportunity to design and carry out original research through ethnographic field study.

FHGE: Social & Behavioral Sciences

Transferable: CSU/UC

ANTH 3 WORLD PREHISTORY: THE 4 Units **RISE & FALL OF EARLY CIVILIZATIONS**

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Survey of world prehistory as reconstructed by archaeologists. Human culture history from Stone Age beginnings to establishment and collapse of the world's first major civilizations. Covers societies from Asia and Africa to Europe and the Americas. Introduction to archaeological methods and interpretation. First use of tools, social complexity, urbanization, domestication of plants and animals, and the rise and fall of civilizations. Transferable: CSU/UC **FHGE: Social & Behavioral Sciences**

ANTH 4 FIRST PEOPLES OF NORTH AMERICA

4 Units

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Survey of Native American societies and cultures, north of Mexico, from a cultural perspective. Includes social organization, economics, technology and belief systems. Historic and current relationship between the federal government and the Native Americans. Contemporary issues of Native American communities.

FHGE: Non-GE Applicable

Transferable: CSU/UC

ANTH 5

MAGIC, SCIENCE & RELIGION Degree & Credit Status: Degree-applicable credit course

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

An introduction to the anthropological study of religion and belief systems. This course is a cross-cultural exploration into the ways humans around the world and through time have conceptualized their relationship between their natural and social worlds and the supernatural, beginning with prehistoric times and concluding with modern day society and the contemporary world. Cross-cultural study of the beliefs about the nature of reality, spirituality, death, magic, science and healing.

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FHGE: S	ocial & I	Behavioral Sciences	Transferable: CSU/UC

ANTH 6 **PEOPLES OF AFRICA** 4 Units

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

An anthropological survey of the peoples of Africa. Issues addressed include: the colonial and Cold War experience and legacy in Africa; popular Western (mis)perceptions and portrayals of Africa and Africans; patterns of social organization, family, and kinship; political organization; economic systems; current political and economic conditions and ties to the global economy; conceptual systems; health and disease; popular culture; art and music; and social change. The course draws upon classic and contemporary anthropological research, research from other disciplines, ethnographies, and literature by African writers. A case study approach is used for some topics allowing in-depth analysis of particular African societies. FHGE: Non-GE Applicable Transferable: CSU/UC

ANTH 8

INTRODUCTION TO ARCHAEOLOGY

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Introduction to the historical development, theory and techniques of archaeological research and fieldwork. Development of comparative approach to the study of ancient cultures. Focus on cultural resource management, survey and selection of field sites, dating, excavation, artifact classification, interpretation of data and written analysis. Transferable: CSU/UC

FHGE: Social & Behavioral Sciences

ANTH 12 APPLIED ANTHROPOLOGY

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Applied anthropology focuses on the use of anthropological theories, perspectives and methods in real world, contemporary contexts of practice or problem-solving. This course, an introduction to the "5th field" of anthropology, provides students with theories, perspectives and skills that will help them recognize, more deeply understand and solve problems affecting local communities in this country and abroad, which have arisen as a result of culture change, modernization and globalization. Major areas of study will include development anthropology, the use of technology in field settings, anthropology and health care, anthropology and advocacy, anthropology and law, tourism and cultural heritage, organizational and business anthropology, and land and cultural resource management. Transferable: CSU/UC

FHGE: Social & Behavioral Sciences

4 Units **ANTH 13**

INTRODUCTION TO FORENSIC ANTHROPOLOGY

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Introduction to the application of anthropology as a science to the medical-legal process and its emphasis on the identification of human skeletal remains. Uses the scientific methodology to cover cell biology, population genetics, natural selection, human variation, evolution, basic human osteology and odontology, assessment of age at time of death, sex, ancestry, trauma analysis, pathology, crime scene analysis, animal scavenging, and identification procedures. Focuses on the varying applications of science in the modern world in which forensic anthropology is utilized ranging from crime scene investigation, missing person identification, human rights, and humanitarian investigations. **FHGE: Natural Sciences** Transferable: CSU/UC

FORENSIC ANTHROPOLOGY ANTH 13L 1 Unit LABORATORY

Degree & Credit Status: Degree-applicable credit course Corequisite: Completion of or concurrent enrollment in ANTH 13. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours laboratory. (36 hours total per guarter.)

Introductory laboratory course focusing on scientific methodology to reinforce topics from Forensic Anthropology lecture sections using hands-on technical training. Focuses on the relationship between biology and forensic anthropology, general anthropological method and theory, and specifically in this case on the medico-legal process utilized in forensics with an emphasis on the identification of human skeletal remains and evidence description. Contains exercises in identifying basic human osteology/odontology elements and morphological features. Will include standardized procedures for the assessment of age at time of death, sex, ancestry, trauma analysis, pathology, physical characteristics including height and weight, crime scene analysis, animal scavenging, and identification procedures. Focuses on how laboratory conclusions are utilized in courtroom proceedings during expert witness testimony.

FHGE: Natural Sciences

Transferable: CSU/UC

ANTH 14 LINGUISTIC ANTHROPOLOGY

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass

Not Repeatable. 4 hours lecture. (48 hours total per guarter.)

Introduces students to the anthropological study of language and non-verbal human communication. Using a cross-cultural perspective, students will examine the relationship between culture and the ways in which humans communicate. Topics include language structure, acquisition, diversity, and change.

FHGE: Social & Behavioral Sciences

Transferable: CSU/UC

4 Units

COURSE CATALOG 2020-2021

4 Units

4 Units

ANTH 15

MEDICAL ANTHROPOLOGY: **METHODS & PRACTICE**

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in ANTH 50. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Introduction to medical anthropology, a subfield of the discipline of anthropology that seeks to understand and highlight how health, illness and healing practices are culturally constructed and mediated. Students will investigate global, cross-cultural and local issues related to health, sickness, healing, epidemiology, aging and dying from an applied and biocultural perspective, using anthropological theory and ethnographic fieldwork methods. Students will be exposed to diverse cultural interpretations of health, sickness and healing, the importance of viewing medical systems as social systems, understanding the socio-cultural context of medical decision making and therapy management, the principles of cultural competency, and the recurrent and ongoing problems of socioeconomic inequality and ecological disruptions that have an impact upon the differential distribution and treatment of human diseases. Transferable: CSU/UC

FHGE: Social & Behavioral Sciences

ANTH 16L

BASIC ARCHAEOLOGY 1 Unit LABORATORY

Degree & Credit Status: Degree-applicable credit course Advisory: UC transferability is limited to 3 units maximum for ANTH 16L, 17L & 18L; not open to students with credit in ANTH 8L. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

An introduction to basic laboratory methods and techniques of archaeology using the scientific method, including cataloging, care and analysis of artifacts, bone recognition, and archaeological excavation. This course will introduce concepts within an anthropological research framework. In addition to gaining expertise in laboratory research, students will examine, discuss, critique and write about the techniques, tools, laboratory terminology and processes of laboratory research at a basic level. Students will use archaeology vocabulary in verbal and written class reports.

FHGE: Non-GE Applicable Transferable: CSU/UC

ANTH 17L INTERMEDIATE ARCHAEOLOGY 2 Units LABORATORY

Degree & Credit Status: Degree-applicable credit course Advisory: UC transferability is limited to 3 units maximum for ANTH 16L,

17L & 18L; not open to students with credit in ANTH 8LX. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

6 hours laboratory. (72 hours total per quarter.)

An introduction to intermediate level laboratory methods and techniques of archaeology using the scientific method, including cataloging, care and analysis of artifacts, bone recognition, and archaeological excavation. This course will further develop concepts within an anthropological research framework, focusing on guided laboratory analysis of active archaeology research projects. Students develop expertise in detailed laboratory research and write about the techniques, tools, laboratory terminology and processes of laboratory research at an intermediate level. Students will use archaeology vocabulary in verbal and written class reports based on active research projects.

FHGE: Non-GE Applicable

Transferable: CSU/UC

NATIVE PEOPLES OF CALIFORNIA

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Study of the many cultures of the different native inhabitants of California from the prehistoric period to the present time. Covers an introduction to the diversity and complexity of aboriginal California. Includes the environmental adaptation, material culture, social structure, ideology, and response to change. Examines the impact of the other Native, European, Asian and African groups on those cultures as well as the contributions of Native Californians to the cultures of the Americas.

FHGE: Social & Behavioral Sciences

Transferable: CSU/UC

4 Units

THE AZTEC, MAYA, INCA & THEIR PREDECESSORS: **CIVILIZATIONS OF THE** AMERICAS

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Survey of the origin, spread, and decline of pre-Columbian civilizations in Central and South America with a focus on the Maya, Inca and Aztec. Applies understandings of archaeology and cultural anthropology to examine the dynamic economic, social, political, cultural, and religious systems of Mesoamerica and South America over time. Covers the colonization process by the Spanish and current day indigenous issues in Mesoamerica and South America.

FHGE: Social & Behavioral Sciences

Transferable: CSU/UC

2 Units

ARCHAEOLOGY SURVEY ANTH 51

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in ANTH 11B. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

6 hours laboratory. (72 hours total per quarter.)

Introduction to field survey in archaeology. Emphasis on site identification, survey techniques and recording skills. All work is conducted at field sites. FHGE: Non-GE Applicable **Transferable: CSU**

ANTH 52 ARCHAEOLOGICAL FIELD 4 Units METHODS

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in ANTH 11. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture, 9 hours fieldwork. (120 hours total per quarter.)

Introduction to archaeological field methods at an archaeological site either in the Bay Area or in another country. Locating different types of archaeological sites with field survey. Methods of field excavation. Study of local artifact types and lab techniques for artifact cleaning and identification. Selection of archaeological site, mapping, excavation, and preparation of artifacts, written analysis. Working and living with members of an indigenous culture.

FHGE: Non-GE Applicable

Transferable: CSU

ANTH 22

ANTH 55

APPLIED CULTURAL ANTHROPOLOGY FIELD METHODS

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Applied anthropology focuses on the use of anthropological theories, perspectives and data-gathering methods in real-world contexts of practice or problem-solving. This 1-unit course provides students with the opportunity to learn and apply field methods from the sub-discipline of applied cultural anthropology to problems found in their own communities. Students will learn how to identify a research topic, write a proposal and project plan with specific milestones and deliverables, carry out research with the most appropriate field methodologies of applied research, and produce a "product" at the end of the course. Projects for this course will be in one of the major arenas of applied cultural anthropology, including: design anthropology, development anthropology, anthropology and health care, anthropology and social work, anthropology and education, organizational and business anthropology. Students will utilize field methodologies unique to applied cultural anthropology.

FHGE: Non-GE Applicable

Transferable: CSU

ANTH 56

APPLIED PHYSICAL ANTHROPOLOGY FIELD METHODS

1 Unit

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Applied anthropology focuses on the use of anthropological theories, perspectives and data-gathering methods in real-world contexts of practice or problem-solving. This 1-unit course provides students with the opportunity to learn and apply field methods from the sub-discipline of applied physical anthropology to problems found in their own communities. Students will learn how to identify a research topic, write a proposal and project plan with specific milestones and deliverables, carry out research with the most appropriate field methodologies of applied research, and produce a "product" at the end of the course. Projects for this course will be in one of the major arenas of applied physical anthropology, including: forensic anthropology and osteology, design anthropology (human engineering), medical anthropology, and environmental anthropology. Students will utilize field methodologies unique to applied physical anthropology. **Transferable: CSU**

FHGE: Non-GE Applicable

ANTH 57

APPLIED ARCHAEOLOGY FIELD 1 Unit METHODS

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Applied anthropology focuses on the use of anthropological theories, perspectives and data-gathering methods in real-world contexts of practice or problem-solving. This 1-unit course provides students with the opportunity to learn and apply field methods from the sub-discipline of applied archaeology to problems found in their own communities. Students will learn how to identify a research topic, write a proposal and project plan with specific milestones and deliverables, carry out research with the most appropriate field methodologies of applied research, and produce a "product" at the end of the course. Projects for this course will be in one of the major arenas of applied archaeology, including: cultural resource management (CRM), historic preservation, museum studies, preservation law and ethics, and students will utilize field methodologies unique to applied archaeology. FHGE: Non-GE Applicable **Transferable: CSU**

1 Unit ANTH 67B

CULTURES OF THE WORLD: BELIZE

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Investigation of a specific culture of the world, in this case Belize, in which the student group is conducting research. Covers archaeological and historical past of these cultures. Explores the diversity within each culture. Uncovers the dynamics of power relationships within the culture in ancient and modern contexts. Examines politics, economics, religion, and social development in the culture area.

FHGE: Non-GE Applicable Transferable: CSU

CULTURES OF THE WORLD: ANTH 67C 4 Units **BRITISH ISLES**

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per guarter.)

This course is part of a series to explore the diverse cultural heritage of the world using an anthropological perspective. In this case students cover the British Isles starting with the archaeological and historical past. Using anthropological methodology students explore the diversity within each culture, and then analyze the relationships within a worldwide context. As well, students are expected to synthesize the dynamics of power relationships within the culture in ancient and modern contexts by evaluating politics, economics, religion, and social development in the culture area. The course is designed to work with students either on an international program or intending to participate in a program of study on the British Isles. FHGE: Non-GE Applicable **Transferable: CSU**

ANTH 70R	INDEPENDENT STUDY IN	1 Unit
	ANTHROPOLOGY	
ANTH 71R		2 Units
ANTH 72R		3 Units
ANTH 73R		4 Units
Degree & Credit S	itatus: Degree-applicable credit course	

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

137

3-12 hours laboratory per week. (36-144 hours total per quarter.)

Provides an opportunity for the student to expand their studies in Anthropology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department. FHGE: Non-GE Applicable **Transferable: CSU**

FOOTHILL COLLEGE

APPRENTICESHIP: CULINARY ARTS

Apprenticeship

650.949.7208 foothill.edu/apprenticeships/

APCA 100 CULINARY SAFETY & 2.5 Units SANITATION

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Culinary Arts Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 32 hours lecture, 8 hours laboratory.

Students will study first aid, food safety management and other safety issues related to food service operations. They will learn how to assess the threat of contamination, prevention measures, and alternative responses to food safety and other concerns, such allergens. The course also presents other material critical to safety in the modern day professional kitchen, including Hazard Analysis Critical Control Point (HACCP) and active managerial control. A case study in the form of food safety inspection and audit of the cafeteria and culinary classroom kitchen will give students a chance to see the difficulties that face food service operators every day. FHGE: Non-GE Applicable **Transferable: None**

APCA 101

BASIC CULINARY THEORY Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Culinary Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 32 hours lecture, 8 hours laboratory.

Students will be exposed to food chemistry and the vocabulary necessary to succeed in an industrial food service setting. Topics will range from baking to cold kitchen preparation to various understandings of dry and moist cooking techniques. In addition, students will learn product identification and protocols in food handling and preferred cooking methods for meats, poultry, fruits, vegetables, starches, legumes, fish and shellfish. FHGE: Non-GE Applicable **Transferable:** None

2.5 Units **APCA 102** CULINARY MATH, **MEASUREMENTS &** CALCULATIONS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Culinary Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 32 hours lecture, 8 hours laboratory.

One of the most important courses in culinary arts, this course instills methods to measure ingredients (volume, weight, time and temperature), convert from U.S. to Metric systems of measurement, calculate portion cost and recipe cost. Also covers pricing strategies and instills an understanding of order guides and invoices. Students will work with ratios and fractions with key ratios applied to achieve an edible result without a recipe. Students will learn to detect flaws in a recipe if the ratio is not correct. Students will produce a portfolio of their own recipe calculations. FHGE: Non-GE Applicable Transferable: None

APCA 104 BASIC COOKING TECHNIQUES

5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Culinary Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

120 hours total: 30 hours lecture, 90 hours laboratory.

Covers basic cooking. Students will make stocks, soups, sauces; prepare vegetables, starches, salads; fabricate and cook various cuts of meat and poultry. Highlights basic cooking techniques, such as sauteing, roasting, poaching, braising, and frying, while following industrial recipes. **Transferable: None** FHGE: Non-GE Applicable

APCA 105 CULINARY MENU DEVELOPMENT 3 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Culinary Arts Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2.5 Units

40 hours lecture total.

Students develop their own menus for breakfast, lunch, and dinner; develop a beverage program; and cost out the menu items. Students design pricing strategies and submit as a portfolio.

FHGE: Non-GE Applicable

2.5 Units

3 Units

APCA 106 SUSTAINABILITY IN FOOD SERVICE OPERATIONS Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Culinary Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 32 hours lecture, 8 hours laboratory.

Covers the principles of sustainability, including issues of animal welfare, nutrition, climate change, farm to table; other issues that impact people and the environment, such as water consumption, wage and supply chain ethics, and the reduction of our environmental footprint. The future of food and technology emerge as topics of discussion, and case studies feature menu innovation, actual operations, and a field trip to a sustainable restaurant or foodservice operation.

FHGE: Non-GE Applicable

Transferable: None

Transferable: None

APPRENTICESHIP: ELECTRICIAN

Apprenticeship

APEL 112

650.949.7208 foothill.edu/apprenticeships/

RESIDENTIAL ELECTRICAL AIR CONDITIONING & REFRIGERATION; TELEPHONE SYSTEMS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program. Advisory: Not open to students with credit in APRT 112.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

75 hours total: 24 hours lecture, 51 hours laboratory.

An introduction to air conditioning and refrigeration systems used in residential applications; telephone systems. Students will study the wiring, circuitry and controls in these systems. Continued study of the National Electrical Code as it relates to current and load calculations. Review of A/C and D/C theory.

FHGE: Non-GE Applicable

Transferable: None

RESIDENTIAL ELECTRICAL SYSTEMS: BASIC SECURITY, SOLAR POWER, HOME **AUTOMATION & LIFE** SAFETY

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program. Advisory: Not open to students with credit in APRT 113. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

75 hours total: 24 hours lecture, 51 hours laboratory.

A study of residential electrical systems and installation practices. Home automation, including home theater. Fundamentals of solar power systems and recommended practices. Life safety systems. Expanded study of the National Electrical Code as it relates to communication circuits, and water applications, such as pools and fountains.

FHGE: Non-GE Applicable Transferable: None

ORIENTATION TO THE 4 Units **APEL 120** ELECTRICAL TRADE Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program; student is a registered State indentured apprentice.

Advisory: Not open to students with credit in APRT 120.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

96 hours total: 24 hours lecture, 72 hours laboratory.

Orientation to the commercial/industrial electrical industry with an introduction to electrical theory, tools, materials, wiring methods, and job skills. Review of mathematics as applied in the electrical construction trades. FHGE: Non-GE Applicable Transferable: None

APEL 120A ORIENTATION TO THE 5 Units ELECTRICAL TRADE, CPR & FIRST AID

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the San Francisco Inside Wireman Electrical Program. Advisory: Not open to students will credit in APEL 120. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

APEL 121

120 hours total: 36 hours lecture, 84 hours laboratory.

Orientation to the commercial/industrial electrical industry with an introduction to electrical theory, tools, materials, wiring methods, and job skills. Review of mathematics as applied in the electrical construction trades. Industry applications, hands-on labs. CPR, first aid, job orientation topics: sexual harassment and drug abuse.

FHGE: Non-GE Applicable

Transferable: None

ELECTRON THEORY; BASIC BLUEPRINT READING; DC THEORY; NATIONAL

ELECTRICAL CODE INTRODUCTION

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program. Advisory: Not open to students with credit in APRT 121. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

96 hours total: 24 hours lecture, 72 hours laboratory. Introduction to the National Electrical Code (NEC), DC theory, principles of magnetism and electromagnetism, basic blueprint reading. FHGE: Non-GE Applicable **Transferable: None**

3 Units **APEL 121A**

ELECTRON THEORY; AC & DC ELECTRICAL THEORY; NEC **INTRODUCTION; PARALLEL** & COMBINATION CIRCUITS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the San Francisco Inside Wireman Electrical Program. Advisory: Not open to students with credit in APRT 121. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

APEL 122

120 hours total: 36 hours lecture, 84 hours laboratory.

Introduction to the National Electrical Code (NEC), applied codeology toward the National Electrical Code. Discuss and demonstrate basic AC and DC electrical generation. Ohm's Law, understand DC parallel and combination circuits. Basic three-phase AC.

FHGE: Non-GE Applicable

Transferable: None

4 Units

CODEOLOGY: TEST EQUIPMENT; PIPE BENDING; **BLUEPRINTS**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to

students admitted to the Electrical Apprenticeship Program.

Advisory: Not open to students with credit in APRT 122.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

96 hours total: 24 hours lecture, 72 hours laboratory.

Study of the National Electrical Code, AC Theory and basic fundamentals of using blueprints.

FHGE: Non-GE Applicable Transferable: None

APEL 122A	CODEOLOGY; NEC CODE; TEST	5 Units
	EQUIPMENT; PIPE BENDING;	
	BLUEPRINTS	

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the San Francisco Inside Wireman Electrical Program. Advisory: Not open to students with credit in APRT 122. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

120 hours total: 36 hours lecture, 84 hours laboratory.

Study of the National Electrical Code, applied codeology, and basic fundamentals of using blueprints. Instruction on usage of test equipment and pipe bending tools.

AC THEORY; TRANSFORMERS; 4 Units **APEL 123** INTERMEDIATE NATIONAL **ELECTRICAL CODE**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program. Advisory: Not open to students with credit in APRT 123. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

96 hours total: 24 hours lecture, 72 hours laboratory.

Study of AC theory, transformer fundamental design and function. Expanded study of the National Electrical Code. Students will learn the fundamentals of AC theory and how it relates to transformer design. They will also learn to understand how National Electrical codes are applied for the safe and proper installation transformers.

FHGE: Non-GE Applicable

Transferable: None

Transferable: None

4 Units

FHGE: Non-GE Applicable

5 Units **APEL 125A**

4 Units

5 Units

4 Units

140

FIRE ALARM SYSTEMS, **EMERGENCY COMMUNICATION** SYSTEMS, PUBLIC EMERGENCY SYSTEMS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

120 hours total: 36 hours lecture, 84 hours laboratory.

Introduction to fire alarm systems and their components. Student will be required to demonstrate knowledge in alarm system interfaces, safety control functions, advanced detection topics, emergency communications system, public emergency systems and supervising stations. Comprehension of residential fire alarm systems, telephone and security basics is covered in detail. This course meets the requirements of electrical safety standards for 3rd year apprentices who are pursuing their certificate.

FHGE: Non-GE Applicable **Transferable: None**

APEL 126 MOTORS; MOTOR CONTROL; LIGHTING PROTECTION

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program. Advisory: Not open to students with credit in APRT 126.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

96 hours total: 24 hours lecture, 72 hours laboratory.

A study of different motor types and controls with emphasis on protecting the motors and the buildings they are in with lightning protection systems. Reading and interpretation of schematic drawings.

FHGE: Non-GE Applicable Transferable: None

APEL 127 DIGITAL ELECTRONICS: 4 Units MOTOR SPEED CONTROL; **ADVANCED NATIONAL** ELECTRICAL CODE

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program. Advisory: Not open to students with credit in APRT 127. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

96 hours total: 24 hours lecture, 72 hours laboratory.

The use of Boolean algebra in the development of logic circuits and logic control. Introduction to the principles of motor speed control. Review of AC theory. Expanded coverage of the National Electrical Code. FHGE: Non-GE Applicable Transferable: None

APEL 128 PROGRAMMABLE LOGIC 4 Units CONTROLLERS; LOW-VOLTAGE SYSTEMS &

HIGH-VOLTAGE SYSTEMS Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program. Advisory: Not open to students with credit in APRT 128. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

96 hours total: 24 hours lecture, 72 hours laboratory.

Introduction to programmable controllers, alarm systems, telephone wiring, instrumentation, and high voltage testing.

FHGE: Non-GE Applicable Transferable: None

APEL 125 NEC GROUNDING; **OVERCURRENT PROTECTION;**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program. Advisory: Not open to students with credit in APRT 125. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

This course will cover grounding and bonding of transformers, fire alarm systems and industrial blueprint reading. FHGE: Non-GE Applicable Transferable: None

FHGE: Non-GE Applicable

Not Repeatable.

electrical systems.

APEL 123A

Not Repeatable.

APEL 124

Not Repeatable.

APEL 124A

FHGE: Non-GE Applicable

GROUNDING & BONDING,

BLUEPRINTS, CODEOLOGY

Prerequisite: Per California Code of Regulations, this course is limited to

Intended for apprentices to become trained in electrical grounding and

residential, commercial, and industrial blueprints and to perform circuit

bonding. Focus will be on learning the electrical code and overcurrent pro-

tective devices (OCPD). Apprentices will demonstrate their ability to read

layouts. This course meets the requirements of electrical safety standards

DC/AC THEORY REVIEW;

Prerequisite: Per California Code of Regulations, this course is limited to

Review of DC/AC theory. The study of overcurrent protection and the

DC/AC THEORY REVIEW;

ELECTRONICS; INDUSTRIAL

GROUNDING; ELECTRICAL

Prerequisite: Per California Code of Regulations, this course is limited to

Review of AC/DC theory. Study of electronics principles and applications,

and industrial blueprint reading. Transformer installation, grounding and

students admitted to the San Francisco Inside Wireman Electrical Program.

BLUEPRINTS; TRANSFORMERS,

ELECTRONICS; INDUSTRIAL

Transferable: None

Transferable: None

Transferable: None

students admitted to the San Francisco Inside Wireman Electrical Program.

CODE & PRACTICES,

SKILLS

Grade Type: Letter Grade or Pass/No Pass

Degree & Credit Status: Degree-applicable credit course

120 hours total: 36 hours lecture, 84 hours laboratory.

for 3rd year apprentices who are pursuing their certificate.

BLUEPRINTS

Degree & Credit Status: Degree-applicable credit course

Advisory: Not open to student with credit in APRT 124.

96 hours total: 24 hours lecture, 72 hours laboratory.

SYSTEMS

Degree & Credit Status: Degree-applicable credit course

Advisory: Not open to students with credit in APRT 124.

120 hours total: 36 hours lecture, 84 hours laboratory.

Grade Type: Letter Grade or Pass/No Pass

Grade Type: Letter Grade or Pass/No Pass

implementation of safe work practices.

FHGE: Non-GE Applicable

students admitted to the Electrical Apprenticeship Program.

OVERCURRENT PROTECTION,

TRANSFORMER CONNECTIONS

96 hours total: 24 hours lecture, 72 hours laboratory.

FOOTHILL COLLEGE

5 Units

4 Units

75 hours total: 24 hours lecture, 5	1 hours laboratory.
Introduction to A/C electrical theo	ory and circuitry as they relate to reside
tial installations; job costing and in	dustrial standards. Further study of the
National Electrical Code focusing	on codeology. Expanded development o
blueprint reading skills.	
FHGE: Non-GE Applicable	Transferable: None

Apprenticeship **APIW 100 Transferable:** None **RESIDENTIAL ELECTRICAL** 3 Units D/C THEORY; BLUEPRINT Not Repeatable. READING safety. FHGE: Non-GE Applicable **APIW 101** Transferable: None Not Repeatable. **RESIDENTIAL ELECTRICAL** 3 Units A/C THEORY & CIRCUITRY matics. Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program. **APIW 102** Advisory: Not open to students with credit in APRT 137. Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 75 hours total: 24 hours lecture, 51 hours laboratory. en-Not Repeatable. of building material. FHGE: Non-GE Applicable

NATIONAL ELECTRICAL CODE 4 Units REVIEW Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program. Advisory: Not open to students with credit in APRT 129. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

96 hours total: 24 hours lecture, 72 hours laboratory.

APEL 129

Review of the National Electrical Code and preparation for the California State Certification Test. Jobsite management, system testing, fiber optics; heating, air conditioning, and refrigeration systems. FHGE: Non-GE Applicable **Transferable: None**

RESIDENTIAL ELECTRICAL 3 Units **APEL 135 ORIENTATION; SAFETY & CODE INTRODUCTION**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program. Advisory: Not open to students with credit in APRT 135. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

75 hours total: 24 hours lecture, 51 hours laboratory.

Orientation to the electrical industry with a residential emphasis; on-thejob safety; identification of tools and materials; review of basic math. Introduction to the National Electrical Code.

FHGE: Non-GE Applicable

APEL 136

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program. Advisory: Not open to student with credit in APRT 136. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

75 hours total: 24 hours lecture, 51 hours laboratory.

Introduction to D/C electrical theory and circuitry as it relates to residential installations; conductors used in electrical wiring. Course also introduces blueprint reading, including architectural and engineering symbols and scale.

FHGE: Non-GE Applicable

APEL 137

APEL 138

RESIDENTIAL WIRING LAYOUT & INSTALLATION

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program. Advisory: Not open to students with credit in APRT 138. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

75 hours total: 24 hours lecture, 51 hours laboratory.

A study of electrical wiring methods, circuitry, and conduit installation in residential applications. Students will also practice wiring layout for residential housing. Continued study of the National Electrical Code as it relates to circuits, grounding and cable assemblies.

FHGE: Non-GE Applicable

Transferable: None

APPRENTICESHIP: IRONWORKERS

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INTRODUCTION TO 4 Units IRONWORKING

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Ironworkers Apprenticeship Program. Advisory: Not open to students with credit in APPR 170. Grade Type: Letter Grade or Pass/No Pass

56 hours total: 48 hours lecture, 8 hours laboratory.

Overview of Ironworker's skill and knowledge areas needed to make the newly indentured apprentice a safe and productive worker from the earliest period of job dispatch. Includes a review of basic math principles. OSHA Transferable: None

MIXED BASE

2 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Ironworkers Apprenticeship Program. Advisory: Not open to students with credit in APPR 171. Grade Type: Letter Grade or Pass/No Pass

40 hours total: 24 hours lecture, 16 hours laboratory. Introduction to blueprint reading and continuation of basic trade mathe-

FHGE: Non-GE Applicable

Transferable: None

REINFORCING IRON I

2 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Ironworkers Apprenticeship Program. Advisory: Not open to students with credit in APPR 172. Grade Type: Letter Grade or Pass/No Pass

40 hours total: 24 hours lecture, 16 hours laboratory.

Instruction in reinforced concrete principles, applications, and processes. Study of the forces at work when iron and concrete are combined as a

Transferable: None

APIW 103

RIGGING I

2 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Ironworkers Apprenticeship Program. Advisory: Not open to students with credit in APPR 173. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 24 hours lecture, 16 hours laboratory.

Introduction to rigging operations such as wire rope, chains, slings, cranes, helicopters, ladders and scaffolds used in the ironworkers' trade. Rigging safety, knot recognition and strength identification, and knot application to rigging are included.

FHGE: Non-GE Applicable **Transferable: None**

IRONWORKER HISTORY & APIW 104 2 Units TRADE SCIENCE

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Ironworkers Apprenticeship Program. Advisory: Not open to students with credit in APPR 174. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 24 hours lecture, 16 hours laboratory.

Acquaints the student with the history of the ironworking trade. Study of the State and Federal laws giving the apprenticeship program in California its legal authority, the manner in which each law affects the workers, and the privileges and obligations of the workers in the trade. Procedures for dispatch of workers and the effect of wages and benefits on workers' compensation insurance will also be covered.

Transferable: None

FHGE: Non-GE Applicable

APIW 105

WELDING I

2 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Ironworkers Apprenticeship Program. Advisory: Not open to students with credit in APPR 175. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 24 hours lecture, 16 hours laboratory.

Introduction to welding and welding concepts for construction job sites. Basic welding safety and basic welding terms, definitions, positions, and cutting operations are included. Transferable: None

FHGE: Non-GE Applicable

APIW 106 STRUCTURAL I

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Ironworkers Apprenticeship Program. Advisory: Not open to students with credit in APPR 176. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 24 hours lecture, 16 hours laboratory.

Introduction to high steel construction. Emphasis will be on erection of beams and skeletons, fastening structural steel, manufacture of iron and steel, safety positions, finishing operations. Scaffold user course. Sub-part R safety training.

FHGE: Non-GE Applicable

Transferable: None

APIW 107 WELDING II

2 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Ironworkers Apprenticeship Program. Advisory: Not open to students with credit in APPR 177. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 24 hours lecture, 16 hours laboratory.

Intermediate welding. A further study of welding safety and welding concepts for construction job sites. Welding processes, shielded metal-arc, gas shielded-arc, and oxy-acetylene welding, symbols, and certification qualifications are included.

FHGE: Non-GE Applicable

POST-TENSIONING I APIW 109

2 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Ironworkers Apprenticeship Program. Advisory: Not open to students with credit in APPR 179. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 24 hours lecture, 16 hours laboratory. History of post-tensioning, modern efforts and safety advantages. Special materials, preparation and stressing of post-tensioning systems. Special applications of post-tensioning systems. Discussion of thread-bar post-tensioning systems.

FHGE: Non-GE Applicable Transferable: None

APIW 110 ARCHITECTURAL I

Transferable: None

2 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Ironworkers Apprenticeship Program. Advisory: Not open to students with credit in APPR 182A.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 24 hours lecture, 16 hours laboratory.

A study of the procedures and practices employed by the ironworker in architectural and ornamental ironworking with emphasis on the principles, theory and application of ornamental hand tools, power-actuated tools, anchors, and fasteners. Application of window walls, curtain walls, sealants, glazing, and window and curtain wall systems. FHGE: Non-GE Applicable **Transferable: None**

APIW 111

ARCHITECTURAL II

2 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Ironworkers Apprenticeship Program. Advisory: Not open to students with credit in APPR 182B. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 24 hours lecture, 16 hours laboratory.

A continued study of the procedures and practices of the Ironworker trade with emphasis in architectural and ornamental ironworking. Students will learn elements of iron construction to include load-bearing, skeletal structure; stairs, fire escapes, ladders, conveyor systems, doors, elevators, windows, railings and other metal features of modern construction. Use and care of tools is covered in detail.

FHGE: Non-GE Applicable

Transferable: None

2 Units

2 Units **APIW 117**

2 Units

2 Units

2 Units

GENERAL SAFETY/OSHA 30/COMET Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Ironworkers Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 30 hours lecture, 10 hours laboratory.

Provides the ironworker student with thirty (30) hours of training required by the Occupational Health and Safety Act (OSHA). This course applies toward the 30-hour construction industry course completion card. The COMET portion of the course requires a minimum of eight (8) classroom hours and provides apprentices with useful information about the challenges facing the Ironworker union, as well as thought-provoking questions and suggestions for how to navigate the world of construction in the 21st century. Transferable: None

FHGE: Non-GE Applicable

APPRENTICESHIP: PIPE TRADES

Apprenticeship

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INTRODUCTION TO **APPT 121** 2.5 Units **RESIDENTIAL PLUMBING**, **SAFETY & TOOLS**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Residential Plumbing Apprenticeship Program. Advisory: Current employment in the pipe trades industry. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

54 hours total: 18 hours lecture, 36 hours laboratory.

An introduction to basic residential plumbing standards, employment information and procedures, history and heritage of plumbing, organization and construction safety. Necessary trade skills include cutting and threading, use and care of tools, and soldering and brazing are taught along with construction terminology and plumbing definitions. FHGE: Non-GE Applicable

Transferable: None

APPT 122 RESIDENTIAL DRAINAGE 2.5 Units SYSTEMS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Residential Plumbing Apprenticeship Program. Advisory: Current employment in the pipe trades industry. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

54 hours total: 18 hours lecture, 36 hours laboratory.

Overview of the installation and design criteria of residential drainage, waste and vent systems, with emphasis and study of the applied theory, design and installation criteria. Includes application of local codes. FHGE: Non-GE Applicable **Transferable: None**

FOOTHILL COLLEGE

Not Repeatable.

40 hours total: 24 hours lecture, 16 hours laboratory.

A study of the history of lead and the health hazards of lead exposure in the ironworking trade. Teaches those elements of knowledge, coordination and skill needed for safety, stressing the use of proper protective equipment and work methods. OSHA regulations, sampling methods and legal rights of workers. First Aid/CPR training, American Red Cross. **Transferable:** None

FHGE: Non-GE Applicable

APIW 113 SMALL STRUCTURE ERECTION

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Ironworkers Apprenticeship Program. Advisory: Not open to students with credit in APPR 188.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 24 hours lecture, 16 hours laboratory.

An introduction to small structure erection of prefab and precast concrete buildings. Study of charts, tables, blueprints, anchors, framing and fasteners. Particular emphasis given to the rigging, handling and installing of precast concrete members.

Transferable: None

FHGE: Non-GE Applicable

APIW 114 WELDING III

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Ironworkers Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 24 hours lecture, 16 hours laboratory.

Advanced welding. A further study of welding safety and welding concepts for construction job sites. Welding processes, shielded metal-arc, flux-core arc welding, gas shielded-arc, and TiG welding, symbols, and certification qualifications are included. Transferable: None

FHGE: Non-GE Applicable

APIW 115 CRANES

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Ironworkers Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 24 hours lecture, 16 hours laboratory.

Provides the Iron Worker student with training in how to erect and dismantle mobile cranes, describe principles of crane operation, identify quadrants of crane operation, read crane load charts, identify crane capacity factors, plan pre-lift planning and set up, describe mobile crane operating procedures, and erect, climb, dismantle and transport tower cranes. FHGE: Non-GE Applicable **Transferable: None**

APIW 116

FOREMAN TRAINING Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Ironworkers Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 24 hours lecture, 16 hours laboratory.

Prepares the student with the roles and responsibilities of the Foreman. In addition, students learn how to create an effective work team, communicate effectively, apply problem-solving skills, document and maintain records, maintain labor-management relations, plan and schedule work, implement a safety program and ensure the quality of work. FHGE: Non-GE Applicable Transferable: None

APIW 112 LEAD HAZARD TRAINING Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to

students admitted to the Ironworkers Apprenticeship Program. Advisory: Not open to students with credit in APRT 185.

Grade Type: Letter Grade or Pass/No Pass

2 Units

143

APPT 123 RESIDENTIAL GAS & WATER INSTALLATIONS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Residential Plumbing Apprenticeship Program. Advisory: Current employment in the pipe trades industry. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

54 hours total: 18 hours lecture, 36 hours laboratory.

Overview of the installation and design criteria of residential hot and cold water, and fuel gas installations. Includes piping materials and hanger systems, material handling and environmental concerns. FHGE: Non-GE Applicable Transferable: None

2.5 Units **APPT 124** MATHEMATICS FOR **RESIDENTIAL PLUMBING**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Residential Plumbing Apprenticeship Program. Advisory: Current employment in the pipe trades industry; not open to students with credit in APRT 195.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

54 hours total: 18 hours lecture, 36 hours laboratory.

A review of basic math concepts and operation, followed by instruction in pipe measurements, formulas, and off-set calculations. Use of common electronic calculators will be included.

FHGE: Non-GE Applicable

APPT 125 RESIDENTIAL BLUEPRINT 4.5 Units READING

Transferable: None

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Residential Plumbing Apprenticeship Program. Advisory: Current employment in the pipe trades industry. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Familiarize with the various blueprints, drawings and sketches used in residential construction. Plan types, details and symbols will be covered, as well as common construction terms and methods. Working from a set of building plans, students will create isometric drawings of plumbing systems. FHGE: Non-GE Applicable Transferable: None

RESIDENTIAL PIPING LAYOUT APPT 126 & INSTALLATION; **RESIDENTIAL FIXTURES**

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Residential Plumbing Apprenticeship Program. Advisory: Current employment in the pipe trades industry. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable. 108 hours total: 30 hours lecture, 78 hours laboratory.

Introduction to the various methods of inserting and sleeving in residential construction. Students will practice the layout and installation of residential copper pipe and tube systems. Hands-on practice of plumbing fixture installation, service and repair will be provided.

FHGE: Non-GE Applicable

Transferable: None

APPT 127 RESIDENTIAL PLUMBING CODE 2.5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Residential Plumbing Apprenticeship Program. Advisory: Current employment in the pipe trades industry. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2.5 Units

54 hours total: 18 hours lecture, 36 hours laboratory. A comprehensive overview of the Plumbing Code. Students will examine each chapter of the code book and practice proper application through worksheets, system design, and sizing exercises. Transferable: None

FHGE: Non-GE Applicable

APPT 128 RESIDENTIAL GAS 2.5 Units INSTALLATIONS; SERVICE WORK

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Residential Plumbing Apprenticeship Program. Advisory: Current employment in the pipe trades industry; not open to students with credit in APRT 183.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

54 hours total: 18 hours lecture, 36 hours laboratory.

Introduction to safe practices for working in excavations and confined spaces. Instructions and hands-on practice will be provided in underground polyethylene gas installations and residential service work. FHGE: Non-GE Applicable Transferable: None

SPECIAL TOPICS **APPT 129**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing/Steamfitting & Pipefitting/Air Conditioning Refrigeration Technology Apprenticeship Program. Advisory: Not open to students with credit in APPR 109. Grade Type: Letter Grade or Pass/No Pass

2.5 Units

Not Repeatable.

54 hours total: 18 hours lecture, 36 hours laboratory.

A study of special topics: Study pipe trade related software and computer assisted drawing. Develop advanced welding skills. Introduce concepts of digital controls. Certify in repair of back flow control devices. Further examine management techniques for planning and organizing projects. FHGE: Non-GE Applicable **Transferable: None**

APPT 130 REVIEW & TURNOUT 2.5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing/Steamfitting & Pipefitting/Air Conditioning Refrigeration Technology Apprenticeship Program. Advisory: Not open to students with credit in APPR 130. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

54 hours total: 18 hours lecture, 36 hours laboratory.

A comprehensive overview of the entire plumbing, steamfitting, and refrigeration courses of instruction and preparation for completion examinations. Presentation of the latest current code and safety information. Planning and performing hands on piping projects. Perform hands-on troubleshooting projects for air conditioning systems.

FHGE: Non-GE Applicable

Transferable: None

4.5 Units

APPT 131 P-101 BASIC PLUMBING SKILLS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing Technology Apprenticeship Program. Advisory: Not open to students with credit in APPR 110. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

118 hours total: 40 hours lecture, 78 hours laboratory.

Orientation to the apprenticeship program, JATC policies and procedures. UA history and heritage will also be covered. Safety training is introduced, with instruction in general construction safety. This is followed up with necessary trade skills, including use and care of tools, pipe and tube installations, and soldering and brazing.

FHGE: Non-GE Applicable

Transferable: None

APPT 132 P-102 APPLIED & RELATED THEORY Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing Technology Apprenticeship Program. Advisory: Not open to students with credit in APPR 102. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Review of basic math before introducing new concepts including pipe measuring and calculation of simple offsets. Students will learn fundamental scientific principles related to the installation and design of basic plumbing systems. Installation and design of fuel gas piping and drainage systems will also be studied.

FHGE: Non-GE Applicable Transferable: None

APPT 133 P-201 BEGINNING DRAWING 4.5 Units & DESIGN

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing Technology Apprenticeship Program. Advisory: Not open to students with credit in APPR 112. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Drawing fundamentals to instruction in isometric drawing. Students learn the proper design and sizing of simple waste, water and gas systems. An indepth study of water supply systems will also be included. Students will also learn to read and interpret simple residential building plans, designing and coordinating plumbing systems within the structure.

FHGE: Non-GE Applicable Transferable: None

APPT 134A P-202A RIGGING; LAYOUT

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing Technology Apprenticeship Program. Advisory: Not open to students with credit in APPR 113. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

54 hours total: 18 hours lecture, 36 hours laboratory.

Instruction in identification and tying various types of knots, study hands on safe practices of rigging and hoisting piping materials. Instruction in the use of a transit, builder's level, laser level and other measuring instruments in the layout and installation of piping systems. Establish the invert elevations and coordination of piping systems by means of profile drawings. FHGE: Non-GE Applicable Transferable: None

APPT 134B INDUSTRIAL SAFETY

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing/Steamfitting & Pipefitting Technology Apprenticeship Program.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 Units

4.5 Units

54 hours total: 18 hours lecture, 36 hours laboratory.

Study in the requirements for emergency response to and handling of hazardous materials. Laws of chemical hazards, electrical hazards, personal protective equipment, and confined spaces, monitoring equipment, and Federal and Cal-OSHA Standards for the construction industry will be covered.

FHGE: Non-GE Applicable

Transferable: None

2.5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing Technology Apprenticeship Program. Advisory: Not open to students with credit in APPR 116. Grade Type: Letter Grade or Pass/No Pass

P-301A PLUMBING FIXTURES

Not Repeatable.

APPT 135A

54 hours total: 18 hours lecture, 36 hours laboratory.

Instruction in plumbing fixtures and appliances. Names and design features of various plumbing fixtures will be discussed. Proper installation, maintenance and repair of fixtures and appliances will be studied. FHGE: Non-GE Applicable Transferable: None

APPT 135B P-301B PLUMBING CODES

2.5 Units

2.5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing Technology Apprenticeship Program. Advisory: Not open to students with credit in APPR 119.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

54 hours total: 18 hours lecture, 36 hours laboratory.

Learn and demonstrate the procedures for coordinating the testing and inspection of plumbing systems and applicable codes that a plumbing systems test must meet. Knowledge of general regulations, including accessibility and ADA requirements will also be discussed.

FHGE: Non-GE Applicable Transferable: None

APPT 136 P-302 ADVANCED TRADE MATH 4.5 Units FOR PLUMBERS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing Technology Apprenticeship Program. Advisory: Not open to students with credit in APPR 118. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2.5 Units

108 hours total: 30 hours lecture, 78 hours laboratory.

Extensive use of piping formulas to solve typical piping layout calculations. Students will calculate compound offsets and accurately determine center to center and end to end piping measurements for plumbing systems. FHGE: Non-GE Applicable Transferable: None

APPT 137A P-401A WATER SYSTEMS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing Technology Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

54 hours total: 18 hours lecture, 36 hours laboratory.

Development and operation of domestic and industrial water supply and distribution systems for installation and operation. An overview of water sources, methods used to plan and configure supply, purification and distribution systems, for operation and maintenance.

FHGE: Non-GE Applicable Transferable: None



APPT 137B P-401B APPLIED WELDING 2.5 Units

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing Technology Apprenticeship Program. Advisory: Not open to students with credit in APPR 117. Grade Type: Letter Grade or Pass/No Pass

Grade Type: Letter Grade of Pa

Not Repeatable.

54 hours total: 18 hours lecture, 36 hours laboratory.

Instruction and practice in oxy-fuel cutting, oxy-fuel welding and arc welding of steel plate and pipe. Safety and accuracy in measuring, lay-out and torch handling is emphasized.

FHGE: Non-GE Applicable

Transferable: None

APPT 138 P-402 ADVANCED DRAWING 4.5 Units & BLUEPRINT READING

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing Technology Apprenticeship Program. Advisory: Not open to students with credit in APPR 114. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Interpretation of orthographic and isometric drawings and building plans that make up working drawings for the proper installation of piping systems. Standard graphic symbols used to represent piping, fittings and valves on construction drawings will be covered, as well as various construction methods and materials, specifications and submittals. Hands-on exercises in the creation and coordination of shop drawings.

FHGE: Non-GE Applicable

Transferable: None

APPT 139A PROCESS PIPING

2.5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing/Steamfitting & Pipefitting Technology Apprenticeship Program.

Advisory: Not open to students with credit in APPT 139. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

54 hours total: 18 hours lecture, 36 hours laboratory.

Process piping and high purity water piping systems (HPW), including covering hazards associated with these installations. Water treatment and clean steam parameters for the pharmaceutical and biotech manufacturing industries will also be presented. Pneumatic control systems will be covered, including the identification and installation of regulators and valves, pneumatic tubing and use of air compressors and refrigerated air-dryers. Control systems will also be discussed. Hands-on experience with tube bending. FHGE: Non-GE Applicable Transferable: None

APPT 139B MEDICAL GAS INSTALLATIONS 2.5 Units Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing/Steamfitting & Pipefitting Technology Apprenticeship Program.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

54 hours total: 18 hours lecture, 36 hours laboratory.

Installation procedures of medical gas and vacuum systems. Apprentices will learn about station outlets/inlets, manufactured assemblies and pressure/ vacuum indicators. Brazing requirements will be described and proper techniques will be demonstrated. Practice brazing techniques in order to prepare for the brazing qualification exam.

FHGE: Non-GE Applicable

Transferable: None

APPT 141 SF 1

SF 101 BASIC STEAMFITTING SKILLS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Steamfitting & Pipefitting Technology Apprenticeship Program.

Advisory: Not open to students with credit in APPR 123. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

118 hours total: 40 hours lecture, 78 hours laboratory.

Orientation to the apprenticeship program, JATC policies and procedures. UA history and heritage will also be covered. Safety training is introduced, with instruction in general construction safety. This is followed up with necessary trade skills, including use and care of tools, pipe and tube installations and soldering and brazing.

FHGE: Non-GE Applicable Transferable: None

APPT 142 SF 102 RELATED MATH, 4.5 Units DRAWING & RIGGING

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Steamfitting & Pipefitting Technology Apprenticeship Program.

Advisory: Not open to students with credit in APPR 124. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Review of basic math before introducing new concepts, including pipe measuring and calculation of simple offsets. Students will then learn drawing fundamentals before moving to instruction in isometric drawing. Instruction in identification and tying various types of knots, study hands-on safe practices of rigging and hoisting piping materials.

FHGE: Non-GE Applicable Transferable: None

APPT 143 SF 201 STEAMFITTER 4.5 Units CUTTING & WELDING

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Steamfitting & Pipefitting Technology Apprenticeship Program.

Advisory: Not open to students with credit in APPR 122. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Instruction and practice in oxy-fuel cutting, oxy-fuel welding and arc welding of steel plate and pipe. Safety and accuracy in measuring, lay-out and torch handling is emphasized.

FHGE: Non-GE Applicable

Transferable: None

APPT 144A SF 202A SCIENCE; 2.5 Units ELECTRICITY & AIR CONDITIONING

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Steamfitting & Pipefitting Technology Apprenticeship Program.

Advisory: Not open to students with credit in APPR 126.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

54 hours total: 18 hours lecture, 36 hours laboratory.

Foundation for subsequent courses through instruction in the fundamentals of science, electrical theory and circuitry, and the principles of refrigeration and air conditioning.

FHGE: Non-GE Applicable

Transferable: None

APPT 145 SF 301 ADVANCED TRADE MATH FOR STEAMFITTERS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Steamfitting & Pipefitting Technology Apprenticeship Program.

Advisory: Not open to students with credit in APPR 121.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Extensive use of piping formulas to solve typical piping layout calculations. Students will calculate compound offsets and accurately determine center to center and end to end piping measurements.

FHGE: Non-GE Applicable **Transferable:** None

APPT 146 SF 302 STEAM TECHNOLOGY

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Steamfitting & Pipefitting Technology Apprenticeship Program.

Advisory: Not open to students with credit in APPR 127.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Basic properties and concepts of steam. Instruction on steam traps, installation techniques and general operation. One-pipe systems will be compared to two-pipe systems. Importance of steam piping, proper pipe sizing, expansion joints and connections. Heat transfer devices and steam boilers will also be discussed with focus on types and proper installation and connection methods.

FHGE: Non-GE Applicable

APPT 147A SF 401A HYDRONIC SYSTEMS 2.5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Steamfitting & Pipefitting Technology Apprenticeship Program.

Advisory: Not open to students with credit in APPR 125.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

54 hours total: 18 hours lecture, 36 hours laboratory.

Basic principles of various hydronic systems, including equipment selection, pipe sizing, piping connections and proper installation methods. Start, test and balance procedures.

FHGE: Non-GE Applicable

Transferable: None

Transferable: None

APPT 147B SF 401B INDUSTRIAL RIGGING

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Steamfitting & Pipefitting Technology Apprenticeship Program.

Advisory: Not open to students with credit in APRT 180. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

54 hours total: 18 hours lecture, 36 hours laboratory.

Appropriate knots required for specific rigging operations. Rigging safety protocol will be reviewed, which will include health and safety legislation and the responsibilities of specified rigging personnel. Crane signals and will practice rigging skills both through observation and hands-on activities. FHGE: Non-GE Applicable **Transferable: None**

APPT 148

4.5 Units

4.5 Units

2.5 Units

SF 402 ADVANCED DRAWING **& BLUEPRINT READING**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Steamfitting & Pipefitting Technology Apprenticeship Program.

Advisory: Not open to students with credit in APPR 120. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Study of technical drawings, piping drawings, building plans, specifications and submittals. Interpretation of three view, plan view, elevation view and isometric drawings will be discussed. Hands-on exercises in the process of creating coordinated drawings beginning with sketching principles, calculating and drawing, and finishing with drawing coordination and system design. FHGE: Non-GE Applicable **Transferable: None**

APPT 151 RF 101 BASIC REFRIGERATION SERVICE SKILLS

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Air Conditioning & Refrigeration Technology Apprenticeship Program.

Advisory: Not open to students with credit in APPR 131.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

118 hours total: 40 hours lecture, 78 hours laboratory.

Orientation to the apprenticeship program, JATC policies and procedures. UA history and heritage will also be covered. Safety training is introduced, with instruction in general construction safety and hazardous materials awareness. Necessary trade skills, including pipe and tube installations and soldering and brazing.

FHGE: Non-GE Applicable

Transferable: None

APPT 152 RF 102 BASIC ELECTRICITY 4.5 Units & REFRIGERATION Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Air Conditioning & Refrigeration Technology Apprenticeship Program.

Advisory: Not open to students with credit in APPR 132.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

A review of laws pertaining to basic electrical theory and their application to mechanical equipment service. Refrigeration theory and application of the vapor compression cycle will also be covered.

FHGE: Non-GE Applicable **Transferable:** None

APPT 153 RF 201 MECHANICAL SYSTEMS 4.5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Air Conditioning & Refrigeration Technology Apprenticeship Program.

Advisory: Not open to students with credit in APPR 133C.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

147

108 hours total: 30 hours lecture, 78 hours laboratory.

Basic and advanced refrigeration concepts. Extensive study of the design, assembly, and operation of compression systems. Will include liquid and vapor control, metering devices, system components, and piping design. FHGE: Non-GE Applicable Transferable: None

5 Units

APPT 154 RF 202 ELECTRIC CONTROLS 4.5 Units FUNDAMENTALS

s APPT 158

RF 402 ADVANCED REFRIGERATION & CHILLERS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Air Conditioning & Refrigeration Technology Apprenticeship Program.

Advisory: Not open to students with credit in APPR 108.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Study of the operation and design of positive displacement water chillers and commercial boilers and boiler room equipment. Single-stage and multistage centrifugal water chillers will also be covered. Methods of evaluating chiller performance; develop troubleshooting skills. FHGE: Non-GE Applicable Transferable: None

APPT 159 RF 501 START, TEST & 4.5 Units BALANCE; HVAC SYSTEMS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Air Conditioning & Refrigeration Technology Apprenticeship Program.

Advisory: Not open to students with credit in APPR 149A.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Use of balancing instruments and devices for HVACR systems. The theory and operation of mechanical systems, equipment and testing instruments will be covered. This course stresses the necessity of comprehending the design and intent for the mechanical project, the proper use of testing apparatus and the production of professional reports. FHGE: Non-GE Applicable Transferable: None

APPT 161 SAFETY/OSHA/TOOLS/HERITAGE/SERVICE 4

Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

148

99 hours total: 24 hours lecture, 75 hours laboratory.

First-year course of the Plumber & Pipefitter Apprenticeship program. Provides students with a working knowledge of plumbing industry materials and standards. Learn use and care of pipe trade tools, practice safety and heritage of the United Association. Also provides OSHA 30 certification. FHGE: Non-GE Applicable Transferable: None

APPT 162 MATHEMA

MATHEMATICS/SCIENCE FOR 4.5 Units THE PLUMBING TRADE

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

102 hours total: 30 hours lecture, 72 hours laboratory.

First year of the Plumber & Pipefitter Apprenticeship program. This course provides students with a working knowledge of mathematics and science as it applies to the plumbing industry.

FHGE: Non-GE Applicable Transferable: None

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Air Conditioning & Refrigeration Technology Apprenticeship Program.

Advisory: Not open to students with credit in APPR 134.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Fundamentals of electrical controls related to HVAC and refrigeration equipment. Students will assemble and wire actual electrical components and controls.

FHGE: Non-GE Applicable Transferable: None

APPT 155 RF 301 ADVANCED ELECTRIC 4.5 Units CONTROLS

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Air Conditioning & Refrigeration Technology Apprenticeship Program.

Advisory: Not open to students with credit in APPR 140. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Advanced principles of electric controls used for mechanical equipment in the HVAC industry. Study control diagrams and further develop skills and service procedures used to troubleshoot electrical problems in HVACR equipment.

FHGE: Non-GE Applicable

Transferable: None

4.5 Units

APPT 156

RF 302 HVAC PNEUMATIC & ELECTRONIC CONTROL SYSTEMS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to

students admitted to the Air Conditioning & Refrigeration Technology Apprenticeship Program.

Advisory: Not open to students with credit in APPR 135. Grade Type: Letter Grade or Pass/No Pass

Grade Type: Letter Grade d

Not Repeatable.

APPT 157

108 hours total: 30 hours lecture, 78 hours laboratory. Introduction to HVAC fundamentals, energy sources and control system principals. Focus on pneumatic, electrical, electronic and building automation control systems and components.

FHGE: Non-GE Applicable

RF 401 INDUSTRIAL 4.5 Units REFRIGERATION & AIR-CONDITIONING SERVICE

Transferable: None

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Air Conditioning & Refrigeration Technology Apprenticeship Program.

Advisory: Not open to students with credit in APPR 107.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Servicing industrial refrigeration and air conditioning systems. Alignment and repair of circulating pumps and compressors will be covered, as well as industrial valve applications and repair. Rigging procedures, refrigerant handling and basic office computer skills will also be covered in computer lab. FHGE: Non-GE Applicable Transferable: None

APPT 163	CODE/WATER SUPPLY SYSTEMS	4 Units	APPT 168	MEDICAL		4.5 Units
-	Status: Degree-applicable credit course California Code of Regulations, this course i	is limited to		GAS/HYDRO PERSON	ONICS/SIGNAL	
students admitte	d to the Plumbing & Pipefitting Apprentices er Grade or Pass/No Pass		-		oplicable credit course f Regulations, this course	is limited to
Not Repeatable.	er Grade of Pass/No Pass		•		& Pipefitting Apprentice	
99 hours total: 24	4 hours lecture, 75 hours laboratory. Plumber & Pipefitter Apprenticeship program	This course	Grade Type: Lett	er Grade or Pass/N		snip Frogram.
,	with a working knowledge of Plumbing Cod		Not Repeatable.		72 hours laboratory.	
Supply Systems.	with a working knowledge of Flumbing Cod				& Pipefitter Apprenticesh	ip program.
FHGE: Non-GE A	pplicable Transferable: None		This course provi		a working knowledge of M	
APPT 164	DRAWING I FOR THE PLUMBING TRADE	4.5 Units	FHGE: Non-GE	Applicable	Transferable: None	
-	Status: Degree-applicable credit course		APPT 169		DRAWING/LAYOUT	4 Units
students admitte	California Code of Regulations, this course i d to the Plumbing & Pipefitting Apprentices			FOR THE PL TRADES/UA		
	er Grade or Pass/No Pass			TRAINING	P 11 P	
Not Repeatable.	0 hours lecture, 72 hours laboratory.		-		oplicable credit course of Regulations, this course	is limited to
	of the Plumber & Pipefitter Apprenticeship	program.			& Pipefitting Apprentice	
	les students with a working knowledge of plu			er Grade or Pass/N		j
	ainage systems, piping and fixture supports a		Not Repeatable.			
mechanical drawi					5 hours laboratory.	
FHGE: Non-GE A	pplicable Transferable: None				Pipefitter Apprenticeship	
		4 11 1			rking knowledge of Advan iling. Practical field knowle	-
APPT 165	DRAWING II FOR THE PLUMBING TRADE	4 Units			d code callouts is covered	
Degree & Credit	Status: Degree-applicable credit course		FHGE: Non-GE		Transferable: None	
-	California Code of Regulations, this course i	is limited to				
•	d to the Plumbing & Pipefitting Apprentices		APPT 170	CODE II/JUI	NIOR MECHANICS	4.5 Units
••	er Grade or Pass/No Pass			REVIEW & E		
Not Repeatable.	41 1 . 751		-		oplicable credit course	
	4 hours lecture, 75 hours laboratory. rse of the Plumber & Pipefitter Apprenticesh	in program			f Regulations, this course g & Pipefitting Apprentice	
	les students with a working knowledge of Te			er Grade or Pass/N		sinp i rogram.
	awings and the creation of Building Plans as		Not Repeatable.			
the Plumbing trac					72 hours laboratory.	
FHGE: Non-GE A	pplicable Transferable: None				Pipefitter Apprenticeship	
				anges affect the P	rking knowledge of Plumb Iumbing Codes	ing Codes and
APPT 166	WELDING/OXY-ACETYLENE TRAINING	4.5 Units	FHGE: Non-GE		Transferable: None	
	Status: Degree-applicable credit course		A DDT 171			4 Units
students admitte	California Code of Regulations, this course i d to the Plumbing & Pipefitting Apprentices		APPT 171	HERITAGE/0	RIGERATION/ CFC/OSHA 10	4 Units
Grade Type: Lette Not Repeatable.	er Grade or Pass/No Pass		-		oplicable credit course of Regulations, this course	is limited to
•	0 hours lecture, 72 hours laboratory.		•		ation & Air Conditioning N	
	of the Plumber & Pipefitter Apprenticeship	program. This		iceship Program.		
	tudents with a working knowledge of welding	•••••	<i>,</i> ,	er Grade or Pass/N	No Pass	
	tal ARC welding, Gas ARC welding, TIG Wel	ding, MIG	Not Repeatable.			
Welding and Oxyo FHGE: Non-GE A	gen/Acetylene burning and welding. pplicable Transferable: None				5 hours laboratory. on & Air Conditioning App	mantion-Li-
FIGE: Non-GE A	pplicable Iransferable: None			-	ents with a working knowle	•
APPT 167	STEAM	4 Units			arbons (CFC), and basic Re	
AFFI 107	SYSTEMS/RIGGING/PIPE	4 Onits			Service industry. Also prov	•
	FITTING & SERVICE		certification.		. .	
-	Status: Degree-applicable credit course		FHGE: Non-GE	Applicable	Transferable: None	
	California Code of Regulations, this course i					
	d to the Plumbing & Pipefitting Apprentices	ship Program.				
Not Repeatable.	er Grade or Pass/No Pass					
•	4 hours lecture, 75 hours laboratory.					
Fourth year of the	e Plumber & Pipefitter Apprenticeship progr					
	tudents with a working knowledge of Layout	, Cut, and Fit				
	and Steamfitting systems.					

FHGE: Non-GE Applicable

Transferable: None

APPT 172 REFRIGERATION SCIENCE 4.5 Units

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Refrigeration & Air Conditioning Mechanical Service Apprenticeship Program.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

102 hours total: 30 hours lecture, 72 hours laboratory.

First-year course of the Refrigeration & Air Conditioning Apprenticeship program. This course provides students with a working knowledge of Basic Refrigeration, Refrigeration Equipment, and Equipment Maintenance. **Transferable: None** FHGE: Non-GE Applicable

APPT 173

BASIC ELECTRICITY FOR THE 4 Units HVAC SERVICE TRADE

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to

students admitted to the Refrigeration & Air Conditioning Mechanical Service Apprenticeship Program.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

99 hours total: 24 hours lecture, 75 hours laboratory.

Provides students with a working knowledge of basic electricity, including AC/DC theory and Ohm's Law. Students will be expected to apply these theories in the laboratory using electronic and testing instruments. FHGE: Non-GE Applicable **Transferable: None**

APPT 174 ADVANCED ELECTRICITY/PNEUMATIC DDC INTRODUCTION

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Refrigeration & Air Conditioning Mechanical Service Apprenticeship Program.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

102 hours total: 30 hours lecture, 72 hours laboratory.

PNFUMATICS

Second-year course of the Refrigeration & Air Conditioning Apprenticeship program. This course provides students with a working knowledge of Advanced Electricity, Motors, Starter, Circuitry, and Variable Drives. FHGE: Non-GE Applicable Transferable: None

APPT 175

4 Units

4.5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Refrigeration & Air Conditioning Mechanical Service Apprenticeship Program.

CONTROLS I/ELECTRO

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

99 hours total: 24 hours lecture, 75 hours laboratory.

Third-year course of the Refrigeration & Air Conditioning Apprenticeship program. This course provides students with a working knowledge of Controls, Control Theory, Timing Circuits, Computerized Control, and Energy Management Systems.

FHGE: Non-GE Applicable

Transferable: None

CONTROLS II/ADVANCED PNEUMATICS CALIBRATION/HYDRONICS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Refrigeration & Air Conditioning Mechanical Service Apprenticeship Program.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

102 hours total: 30 hours lecture, 72 hours laboratory.

Third year of the Refrigeration & Air Conditioning Apprenticeship program. This course provides students with a working knowledge of advanced control systems, including the uses of 2-Position, Floating and Modulating Controls. Fiber Optics and Direct Digital Controls are introduced. FHGE: Non-GE Applicable **Transferable:** None

APPT 177 4 Units **START, TEST & BALANCE**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Refrigeration & Air Conditioning Mechanical Service Apprenticeship Program.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

99 hours total: 24 hours lecture, 75 hours laboratory.

This course provides students with an introduction to Start, Test and Balance for fluid distribution. Ducting, Cooling, Fans, and Air Distribution is covered in the laboratory exercises.

FHGE: Non-GE Applicable Transferable: None

APPT 178 START, TEST & BALANCE 4.5 Units **II/ENERGY AUDITING** PRACTICES

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Refrigeration & Air Conditioning Mechanical Service Apprenticeship Program.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

102 hours total: 30 hours lecture, 72 hours laboratory.

Fourth-year course of the Refrigeration & Air Conditioning Apprenticeship program. This course provides students with a working knowledge of Start, Test and Balance for Piping Systems, Pumps, Chillers, Boilers, and Condensers. Students will learn how to audit mechanical equipment to ensure proper energy efficiency techniques are applied. FHGE: Non-GE Applicable **Transferable: None**

CHILLERS/SPECIAL

4 Units

APPT 179

SYSTEMS/HVACR STAR REVIEW

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Refrigeration & Air Conditioning Mechanical

Service Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

99 hours total: 24 hours lecture, 75 hours laboratory.

Provides students with a working knowledge of pipe drafting and blueprint reading for Heating, Ventilation and Air Conditioning (HVAC) Systems. Hands-on activities include applying airside, waterside and pressure testing systems.

FHGE: Non-GE Applicable

150

Transferable: None

APPT 180 HVACR STAR REVIEW & EXIT EXAM

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Refrigeration & Air Conditioning Mechanical

Service Apprenticeship Program.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

102 hours total: 30 hours lecture, 72 hours laboratory.

Fifth-year course of the Refrigeration & Air Conditioning Apprenticeship program. This course provides students with a working knowledge of Troubleshooting, Test and Repair of Refrigeration and Air-Conditioning systems. FHGE: Non-GE Applicable **Transferable: None**

PIPE MATERIALS, SAFETY 3 Units **APPT 185** & TOOLS, SOLDERING & **BRAZING**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Student is a registered State indentured apprentice. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

114 hours total: 7 hours lecture, 107 hours laboratory.

This course provides students with a working knowledge of soldering and brazing along with safe practices as it relates to on-the-job-training. FHGE: Non-GE Applicable **Transferable: None**

MATHEMATICS/RIGGING & APPT 186 3 Units SIGNALING

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

108 hours total: 6 hours lecture, 102 hours laboratory.

This course provides students with a working knowledge of mathematics, rigging and signaling as it applies to the Plumbing and Pipefitting industry. Students will apply safety practices as it relates to on-the-job training. FHGE: Non-GE Applicable **Transferable: None**

APPT 187 DRAWING INTERPRETATION 3 Units & PΙ ΔΝ **READING/SCIENCE**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

119 hours total: 5 hours lecture, 114 hours laboratory.

Students will gain a working knowledge of Drawing Interpretation, Plan Reading and Science as it applies to the plumbing industry. This course is required to meet the certificate requirements to become a journeyman plumber.

FHGE: Non-GE Applicable

Transferable: None

APPT 188

ADVANCED PLAN READING/CAD Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the plumbing & pipefitting apprenticeship program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

102 hours total: 13 hours lecture, 89 hours laboratory.

Students will gain a working knowledge of advanced plan reading and computer-aided drafting (CAD) as it applies to the plumbing industry. This course is required to meet the certificate requirements to become a journeyman plumber.

FHGE: Non-GE Applicable

Transferable: None

APPT 189 WELDING/OXYGEN-ACETYLENE

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

3 Units

Not Repeatable.

4.5 Units

72 hours total: 18 hours lecture, 54 hours laboratory.

Provides students with a working knowledge of welding principles as they relate to Shielded Metal Arc Welding (SMAW) and Gas Tungsten Arc Welding (GTAW). Students will gain knowledge in the principles of oxygen/ acetylene cutting and welding. FHGE: Non-GE Applicable Transferable: None

APPT 190 PIPE FITTING WITH A 3 Units CALCULATOR Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the plumbing & pipefitting apprenticeship program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

108 hours total: 6 hours lecture, 102 hours laboratory. This course provides students with a working knowledge of mathematics and pipe fitting as it applies to the plumbing and pipe fitting industry. Students will apply safety practices as it relates to on-the-job training. FHGE: Non-GE Applicable **Transferable: None**

PLUMBING CODE **APPT 191** 3 Units **APPLICATION, PLUMBING FIXTURES**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the plumbing & pipefitting apprenticeship program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

111 hours total: 6 hours lecture, 105 hours laboratory.

This course provides students with a working knowledge of the plumbing Code application and plumbing fixtures as it applies to the plumbing and pipe fitting industry. Students will apply safety practices as it relates to on-the-job training. This course is required to meet the certificate requirements to become journeyman plumber.

FHGE: Non-GE Applicable Transferable: None

APPT 192 3 Units NATURAL GAS INSTALLATION, DRAINAGE

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the plumbing & pipefitting apprenticeship program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

111 hours total: 6 hours lecture, 105 hours laboratory.

This course provides students with a working knowledge of Natural Gas Installations and Drainage as it applies to the plumbing and pipe fitting industry. This course is required to meet the certificate requirements to become journeyman plumber. FHGE: Non-GE Applicable

Transferable: None

APPT 193 WATER SUPPLY, PATTERNS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the plumbing & pipefitting apprenticeship program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

70 hours total: 17 hours lecture, 53 hours laboratory.

This course provides students with a working knowledge of water supply and patterns as it applies to the plumbing and pipe fitting industry. Students will apply safety practices as it relates to on-the-job training. FHGE: Non-GE Applicable

Transferable: None

3 Units

2 Units

APPT 194 MEDICAL GAS, REVIEW EXIT **EXAM/FINAL EXAM**

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

60 hours total: 5 hours lecture, 55 hours laboratory.

Apprentices learn the installation procedures of medical gas and vacuum systems. This includes medical gas alarms systems, valve stations, inlets, outlets and the complete vacuum system. Brazing techniques will be described and demonstrated. Transferable: None

FHGE: Non-GE Applicable

HYDRONICS/STEAM **APPT 195** 6.5 Units SYSTEMS/PUMPS

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

108 hours total: 70 hours lecture, 38 hours laboratory.

Basic concepts of various heating and cooling systems. Equipment selection, pipe sizing, proper installation methods are taught. One-pipe steam systems will be compared to two-pipe systems. Pump selection and application as well as service and repair.

FHGE: Non-GE Applicable

Transferable: None

APPT 196 BASIC ELECTRICITY, ELECTRICAL CONTROLS FOR **MECHANIC EQUIPMENT**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

108 hours total: 70 hours lecture, 38 hours laboratory.

Students will be taught basic electrical principals relating to mechanical equipment. Ohm's Law, circuitry, Variable Frequency Drives, as well as trouble-shooting techniques will be covered. Students will be able to identify and classify motors and starters.

FHGE: Non-GE Applicable

Transferable: None

APPRENTICESHIP: PIPE TRADES, SHEET METAL, FIELD IRONWORKERS

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APPR 150

JOB SAFETY, OSHA, MATHEMATICS, HERITAGE & RIGGING I

4.5 Units

6.5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing/Pipefitting/Refrigeration/HVAC Apprenticeship Program.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

First course of the Plumber & Pipefitter Apprenticeship Program. Provides students with a working knowledge of mathematics, plumbing industry materials and standards (as they apply to the plumbing industry), use and care of Pipe Trade tools, practice safety, rigging, and a review of Heritage of the United Association.

FHGE: Non-GE Applicable

Transferable: None

APPR 151

1.5 Units

OXY-ACC, ARC & PLASTIC WELDING, SOLDERING/BRAZING

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing/Pipefitting/Refrigeration/HVAC Apprenticeship Program.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory. Second-year course of the Plumber & Pipefitter Apprenticeship Program. The course will provide students with a working knowledge of welding principles, as they relate to oxygen/acetylene burning, brazing, soldering and welding. The Apprentice Plumber is a 5-year certificate program. No certification for welding provided in this course. FHGE: Non-GE Applicable **Transferable: None**

APPR 154 GAS & WATER SUPPLY

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Third-year course of the Plumber & Pipefitting Apprentice Program. Provides the student with a working knowledge of the supply and treatment of potable water, as well as the design and construction of potable water conveyance systems. This course also offers instruction in the use of natural gas and liquid propane gas systems as they apply to the piping industry. FHGE: Non-GE Applicable **Transferable: None**

APPR 157 STEAMFITTING & 4.5 Units PIPEFITTING

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Fourth-year course of the Plumbing and Pipefitting Apprenticeship Program. Provides students with a working knowledge of the design, layout, components, specific safety hazards and accepted engineering practices associated with steam heating, hydronic heating and cooling systems. FHGE: Non-GE Applicable **Transferable: None**

APPR 160A HVAC TECH, CUSTOMER 4.5 Units SERVICE

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Third-year course of the Plumber, Pipefitter & Service Tech Apprenticeship Program regarding HVAC students; includes basic refrigeration, EPA 608 certification, safety and customer service.

FHGE: Non-GE Applicable

Transferable: None

4.5 Units

AIR CONDITIONING, PNEUMATIC CONTROLS, **INSTRUMENTATION & PROCESS CONTROLS**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Third-year course of the Plumber, Pipefitter & Service Tech Apprenticeship Program. Reviews the theory and application of related math and science as well as the vapor compression cycle and refrigeration components and systems.

FHGE: Non-GE Applicable **Transferable: None**

ELECTRONIC CONTROLS, DDC 4.5 Units **APPR 162C** CONTROLS

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Refrigeration & Air Conditioning Apprenticeship Program.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Fourth-year course of the HVACR Apprenticeship Program. Provides a working knowledge of direct digital control systems and the electronics involved with these systems as they apply to comfort air and building control management.

FHGE: Non-GE Applicable

APPR 166 JOB SUPERVISION

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing/Pipefitting Apprentice Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

APPR 167

108 hours total: 30 hours lecture, 78 hours laboratory.

Provides students with the knowledge and skills to properly supervise, schedule and document a construction project. No certification in job supervision is provided.

FHGE: Non-GE Applicable

START, TEST & BALANCE

Transferable: None

Transferable: None

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Fifth-year course of the Plumber & Pipefitter Apprenticeship Program. Provides students with a working knowledge of the start, test, and balance of HVACR equipment and systems.

FHGE: Non-GE Applicable

Transferable: None

SUPERMARKET REFRIGERATION 4.5 Units **APPR 168**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Second-year course of the Plumber, Pipefitter & Service Technician Apprenticeship Program. Provides the student with a working knowledge of the fundamentals of oil return and oil separators, electric and hot gas exhaust, multi-stage compressor systems and pump down systems. FHGE: Non-GE Applicable **Transferable: None**

APPR 183A

BASIC ELECTRICITY FOR SHEET METAL & AIR CONDITIONING SERVICE

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal-Air Conditioning Service Mechanic Program.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4.5 Units

108 hours total: 30 hours lecture, 78 hours laboratory.

Development of basic skills necessary for sheet metal workers to service air conditioning equipment with special emphasis on the basics of electricity and refrigeration principles. FHGE: Non-GE Applicable **Transferable:** None

ADVANCED ELECTRICITY FOR **APPR 183B** 4.5 Units SHEET METAL & AIR CONDITIONING SERVICE

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal-Air Conditioning Service Mechanic Program.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Continued development of skills necessary for sheet metal workers to service air conditioning equipment with special emphasis on the use of basic electrical testing instruments, principles, transformers, relays, contacts and safety around electrical equipment.

FHGE: Non-GE Applicable **Transferable: None**

APPR 184A

4.5 Units

4.5 Units

AIR CONDITIONING; COMMERCIAL SYSTEMS: **HEATING (FOURTH-YEAR** SERVICE)

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal-Air Conditioning Service Mechanic Program.

108 hours total: 30 hours lecture, 78 hours laboratory.

Development of skills necessary for sheet metal workers to service air conditioning equipment with emphasis on air-cooled commercial systems, refrigerant line components, installation and commercial applications. FHGE: Non-GE Applicable **Transferable: None**

COMMERCIAL SYSTEMS; HEAT 4.5 Units **APPR 184B** LOADS; PIPING (FOURTH-YEAR SERVICE)

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal-Air Conditioning Service Mechanic Program.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Continued development of skills necessary for sheet metal workers to service air conditioning equipment with emphasis on commercial systems, servicing, heat loads and piping.

FHGE: Non-GE Applicable

Transferable: None

4.5 Units

Degree & Credit Status: Degree-applicable credit course

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

ORIENTATION; SAFETY & BEGINNING RESIDENTIAL SHEET METAL INSTALLATION (SPECIALIST 1A)

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Specialist Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

54 hours total: 6 hours lecture, 48 hours laboratory. An introduction to residential and light commercial sheet metal installation, safety, tools, materials, equipment and related industry practices. Emphasis will be on safety and soldering techniques.

RESIDENTIAL COMPONENTS **IDENTIFICATION &** INSTALLATION (SPECIALIST 1B)

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Specialist Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

54 hours total: 6 hours lecture, 48 hours laboratory.

ductwork. Emphasis will be on materials information and skills development. **Transferable:** None

APPR 189A RESIDENTIAL SYSTEMS; DUCT 1.5 Units & HVAC SYSTEMS (SPECIALIST 2A)

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Specialist Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

54 hours total: 6 hours lecture, 48 hours laboratory.

A study of typical residential sheet metal flashing, waterproofing, ventilation and HVAC systems. Development of installation techniques. FHGE: Non-GE Applicable **Transferable: None**

APPR 189B PLANS & ARCHITECTURAL 1.5 Units APPLICATIONS FOR **RESIDENTIAL SHEET METAL** (SPECIALIST 2B)

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Specialist Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

54 hours total: 6 hours lecture, 48 hours laboratory.

An advanced study of industry standards, values and requirements in residential sheet metal work, including architectural applications of metal roofing, complex flashing, gutter and downspouts. Use of plans for coordinating installations. Mathematics review and further development of soldering skills.

FHGE: Non-GE Applicable

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Transferable: None

CONDITIONING SERVICE Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to

BASIC REFRIGERATION FOR

students admitted to the Sheet Metal-Air Conditioning Service Mechanic Program.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

APPR 185A

108 hours total: 30 hours lecture, 78 hours laboratory. Introduction to the use of refrigeration evacuation service equipment,

SHEET METAL AIR

charging refrigeration systems, and to the use of oxy-acetylene brazing equipment.

FHGE: Non-GE Applicable **Transferable:** None

APPR 185B ADVANCED REFRIGERATION 4.5 Units FOR SHEET METAL AIR CONDITIONING SERVICE

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to

students admitted to the Sheet Metal-Air Conditioning Service Mechanic Program.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Continued development of refrigeration skills with emphasis on the function of compressors, multiphase electric motors and piping systems. FHGE: Non-GE Applicable **Transferable:** None

APPR 186A PROPERTIES OF AIR 4.5 Units DISTRIBUTION FOR SHEET METAL AIR CONDITIONING SERVICE

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal-Air Conditioning Service Mechanic Program.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Introduction to the different properties of air distribution with air volumes, pressures, humidity and temperature; basic air balance procedures. FHGE: Non-GE Applicable Transferable: None

REFRIGERATION THEORY FOR 4.5 Units **APPR 186B** SHEET METAL AIR CONDITIONING SERVICE

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal-Air Conditioning Service Mechanic Program.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Continuing refrigeration theory with emphasis on all the major parts of refrigeration systems. The explanation of the principles and function of the heat pump in a residential application.

FHGE: Non-GE Applicable

Transferable: None

1.5 Units



Not Repeatable.

Continued development of concepts and practices already introduced and used in residential and light commercial installations of sheet metal FHGE: Non-GE Applicable

FHGE: Non-GE Applicable **Transferable:** None

APPR 188B

APPRENTICESHIP: PIPE TRADES, SHEET METAL, FIELD IRONWORKERS, ELEVATORS

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APRT 106A SHEET METAL CONTROL 4.5 Units SYSTEMS (FIFTH-YEAR SERVICE)

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal-Air Conditioning Service Mechanic Program.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Development of skills necessary for sheet metal workers to service air conditioning equipment with emphasis on control methods and systems, computerized building management, zone control and variable air volume systems.

FHGE: Non-GE Applicable

Transferable: None

APRT 106B

ENERGY MANAGEMENT & CUSTOMER SERVICE (FIFTH-YEAR SERVICE)

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal-Air Conditioning Service Mechanic Program.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Development of skills necessary for sheet metal workers to service air conditioning equipment with emphasis on digital control systems, energy management, business and shop operations and OSHA regulations. FHGE: Non-GE Applicable Transferable: None

APRT 140A ELECTRICAL BASICS FOR 2.5 Units RESIDENTIAL HVAC SERVICE

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Residential Service Apprenticeship Program.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

54 hours total: 24 hours lecture, 30 hours laboratory.

Development of basic skills necessary for service technicians to service heating and air conditioning equipment with special emphasis on the basics of electricity and air filtration.

FHGE: Non-GE Applicable

Transferable: None

APRT 140B REFRIGERATION BASICS FOR 2.5 Units RESIDENTIAL HVAC SERVICE

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Residential Service Apprenticeship Program.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

54 hours total: 24 hours lecture, 30 hours laboratory.

Development of the basics of refrigeration principles and residential systems for service technicians to service heating and air conditioning equipment.

FHGE: Non-GE Applicable

Transferable: None

APRT 141A COMPONENTS OF RESIDENTIAL 2.5 Units HVAC SERVICE

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Residential Service Apprenticeship Program.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

54 hours total: 24 hours lecture, 30 hours laboratory.

Identifying components and evaluating their status in servicing heating and air conditioning equipment. Discussion of the service technician's approach to field problems.

FHGE: Non-GE Applicable

Transferable: None

APRT 141B TROUBLESHOOTING DIAGNOSIS 2.5 Units & REPAIR FOR RESIDENTIAL HVAC SERVICE

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Residential Service Apprenticeship Program.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4.5 Units

54 hours total: 24 hours lecture, 30 hours laboratory.

Troubleshooting approaches for HVAC equipment problems, with diagnosis and repair. Testing and tracing of circuits; visual evaluations for electrical and mechanical HVAC equipment. Review and practice of all basic skills necessary for A/C residential service technicians.

FHGE: Non-GE Applicable Transferable: None

APRT 143A AIR BALANCE TEST 4.5 Units EQUIPMENT & INSTRUMENTS (FIRST YEAR)

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Testing & Air Balance Apprenticeship Program.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Development of skills necessary to use test and balance instruments and equipment for HVAC systems and automatic control systems. Use of practical mathematics and mathematical equations to measure air velocity and duct outlets, and to solve air and hydronic balancing problems. FHGE: Non-GE Applicable Transferable: None

APRT 143B TEMPERATURE MEASUREMENT 4.5 Units INSTRUMENTS & DUCT SYSTEMS (FIRST YEAR)

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Testing & Air Balance Apprenticeship Program.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Continuing study of skills necessary to test and balance instruments and equipment for HVAC systems and automatic control systems. Use of practical mathematics and mathematical equations to measure air velocity and duct outlet, and to solve air and hydronic balancing problems.

FHGE: Non-GE Applicable Transferable: None

APRT 153A

CONTROL SYSTEMS & CUSTOMER SERVICE I (TAB-4)

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Testing & Air Balance Apprenticeship Program.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Develop skills and knowledge of various control systems in use today in the HVAC test and air balance industry. Develop customer relations in order to effectively deal with the consumer.

FHGE: Non-GE Applicable

Transferable: None

CONTROL SYSTEMS & 4.5 Units CUSTOMER SERVICE II

(TAB-4)

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Testing & Air Balance Apprenticeship Program.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

APRT 153B

108 hours total: 30 hours lecture, 78 hours laboratory.

Continuation of APRT 153A. Develop skills and knowledge of various control systems in use today in the HVAC test and air balance industry. Further development of customer relations in order to effectively deal with the consumer.

Transferable: None

APRT 154A PROJECT MANAGEMENT FOR 4.5 Units THE TEST & AIR **BALANCE INDUSTRY (TAB-5)**

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Testing & Air Balance Apprenticeship Program.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Develop skills and knowledge of project management in use today in the HVAC test and air balance industry. Develop customer relations to effectively deal with the customer, project foreperson, and project engineers. FHGE: Non-GE Applicable **Transferable: None**

APRT 154B HAZARDOUS MATERIAL 4.5 Units **RECOGNITION FOR THE TEST** & AIR BALANCE **INDUSTRY (TAB-5)**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Testing & Air Balance Apprenticeship Program.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Develop skills and knowledge to recognize hazardous materials in the HVAC test and air balance industry. Use personal protective equipment and tools properly as they relate to hazardous materials. Review current laws governing hazardous material recognition and response.

FHGE: Non-GE Applicable

Transferable: None

DEVICES (TAB-2) Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Testing & Air Balance Apprenticeship Program.

OPERATION, CONTROLS &

ELECTRICAL SYSTEMS

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

APRT 149A

108 hours total: 30 hours lecture, 78 hours laboratory.

Study of individual electrical components and devices of control systems, and understanding their operation and relationship to each other. Identify and use instruments in measuring air movement. Learn how to interpret, use and understand drawings relating to the construction of a building. FHGE: Non-GE Applicable **Transferable: None**

APRT 149B **HVAC TESTING &** 4.5 Units **BALANCING PROCEDURES** (TAB-2)

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Testing & Air Balance Apprenticeship Program.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Utilize skills and knowledge previously learned to apply methods of balancing HVAC systems. Balancing of systems will include both air and hydronic. Information gathered during the balancing will be used in completing reports required by the building engineer and owner.

FHGE: Non-GE Applicable **Transferable: None**

4.5 Units **APRT 150A AIR DISTRIBUTION &** MANUFACTURING SYSTEMS (TAB-3)

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Testing & Air Balance Apprenticeship Program.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

The difference, advantages and disadvantages of pneumatic and direct digital control systems will be compared to electrical systems. Students will use laptop computers to access a control system from a remote location; take readings and make minor adjustments to the system. Clean room operation and protocol will be examined.

FHGE: Non-GE Applicable

Transferable: None

4.5 Units

156

APRT 150B

SYSTEMS INSTALLATION & TROUBLESHOOTING (TAB-3)

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Testing & Air Balance Apprenticeship Program.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

108 hours total: 30 hours lecture, 78 hours laboratory.

Proper layout and installation procedures on various control systems. This will include system programming, adjustment, testing, maintenance and repair of the installed system.

FHGE: Non-GE Applicable

Transferable: None



FHGE: Non-GE Applicable

APPRENTICESHIP: SHEET METAL

Apprenticeship

650.949.7208 foothill.edu/apprenticeships/

SMQ-1 TRADE INTRODUCTION 3 Units **APSM 101**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 36 hours lecture, 4 hours laboratory.

Introduction to Sheet Metal as a skilled construction trade including: general overview, trade history and related issues, material handling and safety, sheet metal materials, hardware, and HVAC careers. Includes First Aid and CPR training and certifications.

FHGE: Non-GE Applicable

Transferable: None

SMQ-2 CERTIFIED SAFETY APSM 102 3 Units **& BEGINNING TRADE** MATH

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 38 hours lecture, 2 hours laboratory.

Course introduces OSHA and related safety issues including job site safety, and aerial lift safety training and certification. Students will learn and apply the math skills necessary to meet the current industry standards in the construction trades. Course consists of basic arithmetic, geometry, algebra and trigonometry principles as applied in the construction trades. FHGE: Non-GE Applicable **Transferable: None**

1.5 Units **APSM 103 SMQ-3 SHEET METAL TOOLS** & SHOP

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 16 hours lecture, 24 hours laboratory.

Using sheet metal tools including hand tools and snips, shear, roll, and hand brake. Use of arithmetic and algebraic principles relating to sheet metal layout, fabrication of duct, pan, 45 degree tap-in, and plenum. Demonstration of other shop equipment used in the sheet metal industry. FHGE: Non-GE Applicable **Transferable: None**

APSM 104

SMQ-4 SOLDERING &

COMMON SEAMS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 18 hours lecture, 22 hours laboratory.

Course covers basic soldering and seam fabrication techniques. Includes soldering lap and vertical seams, soldering with various materials and flux, alternate seam fabrication, and fabrication of non-soldered seams. FHGE: Non-GE Applicable Transferable: None

APSM 105

SMQ-5 DRAFTING **INTRODUCTION & VIEWS**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 32 hours lecture, 8 hours laboratory.

Introduction to communication of construction details through drafting of plans and patterns. Topics include drafting equipment and materials, use of an architect's scale, drawing format, geometric construction, basic views, square and radius elbows, and drawing duct runs.

FHGE: Non-GE Applicable **Transferable: None**

APSM 106 SMQ-6 BEGINNING DUCT 1.5 Units FITTINGS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 12 hours lecture, 28 hours laboratory.

Focus is on the variety of duct connections, sealing, elbows and transitions common to the sheet metal industry. FHGE: Non-GE Applicable

Transferable: None

APSM 107 SMQ-7 PARALLEL LINE 1.5 Units FITTINGS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 16 hours lecture, 24 hours laboratory.

Introduction to communicating construction details through drafting of plans. Topics include drafting equipment and materials, use of an architects scale, drawing format, geometric construction, basic views, square and radius elbows, and drawing duct runs. Transferable: None

FHGE: Non-GE Applicable

APSM 108 SMQ-8 TRIANGULATION 1.5 Units FITTINGS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 16 hours lecture, 24 hours laboratory.

Triangulation Fittings introduces another of three traditional sheet metal pattern development methods. Triangulation is a versatile method, often applied when other methods won't work. Between the method, practice drawings and fabricated projects, there is much to cover in this course. FHGE: Non-GE Applicable Transferable: None

APSM 109 SMQ-9 RADIAL LINE LAY OUT 1.5 Units & OGEE OFFSETS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 14 hours lecture, 26 hours laboratory.

Radial Line Lay Out introduces a third of three traditional sheet metal pattern development methods. Concepts are applied to conical sheet metal projects. In addition, the ogee offset fitting, sometimes important in maintaining efficient air flow is developed in flat and compound forms. FHGE: Non-GE Applicable

Transferable: None

2 Units

APSM 110

SMQ-10 BASICS OF ARCHITECTURAL SHEET METAL

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 18 hours lecture, 22 hours laboratory.

This course focuses on essential skills used in architectural sheet metal work, including joint design for water flow, caulking and soldering applications, miters, and expansion joints. Discussion of use of architectural sheet metal in order to protect buildings from moisture and mold damage. Roof and scaffold safety is discussed. FHGE: Non-GE Applicable **Transferable:** None

APSM 111 SMQ-11 ARCHITECTURAL 1.5 Units SHEET METAL

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 12 hours lecture, 28 hours laboratory. This architectural sheet metal course seeks to develop an understanding of the common applications and general skills used in architectural sheet metal construction. Chimney saddles, downspouts, flashings and counter flashings, soffits, and scuppers are covered in detail. Students fabricate many of these items.

FHGE: Non-GE Applicable Transferable: None

APSM 112 SMQ-12 FIELD INSTALLATION 2 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 28 hours lecture, 12 hours laboratory.

This course addresses knowledge and application specific to field work in the sheet metal industry. Students receive training and safety certifications for forklift, scissor lift, or articulating booms. Proper techniques for rigging and hoisting loads are presented. Field measurement and job-site layout considerations are practiced. In addition, fire damper types are presented as well as the necessity of following the manufacturer's specifications for applications related to life safety in buildings.

FHGE: Non-GE Applicable

APSM 113

Transferable: None

SMQ-13 WELDING 1: **PROCESS & SAFETY OVERVIEW**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to

students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 16 hours lecture, 24 hours laboratory.

This course begins with an overview of common welding safety hazards and personal protective equipment for welding. The Gas Metal Arc Welding process is introduced and practiced by students as commonly used in the sheet metal industry. Machine set-up and basic skills are stressed.

FHGE: Non-GE Applicable **Transferable: None**

APSM 114 SMQ-14 WELDING 2: GMAW

2 Units

1.5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 12 hours lecture, 28 hours laboratory.

This course continues with development of Gas Metal Arc Welding and Flux Core Arc Welding skills. In addition, the SMAW welding process and metallurgy are introduced. Progress in student welding skill development is essential. Transferable: None

FHGE: Non-GE Applicable

APSM 116 SMO-16 PLANS & 3 Units SPECIFICATIONS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 38 hours lecture, 2 hours laboratory. Introduction to plans and specifications and their applications in the sheet

metal construction industry. This includes reading and interpreting title blocks, lines, abbreviations, symbols, sections, details and schedules for residential and commercial projects. Architectural, structural, mechanical, electrical, control, and specialty drawings are covered in detail. FHGE: Non-GE Applicable **Transferable: None**

APSM 117 SMQ-17 SUBMITTALS & 2.5 Units SHOP DRAWINGS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to

students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 34 hours lecture, 6 hours laboratory.

This course continues to build on job specification and blueprint reading instructions and adds the creation of a shop drawing and use of submittals as done in the sheet metal industry. This includes reading typical plans, specifications and submittals, identifying specific information on the submittal, applying a numbering system to the shop drawing, creating material lists from the shop drawing or submittal, and field use of drawings and submittals. Transferable: None FHGE: Non-GE Applicable

APSM 118	SMQ-18 INDUSTRIAL & STAINLESS STEEL	1.5 Units
	INTRODUCTION	

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 16 hours lecture, 24 hours laboratory.

Course introduces heavy gage industrial sheet metal techniques and stainless steel applications used in the industry. Topics include calculations of bend allowances for heavy gauge metal, layout and forming heavy gauge metal, using a blowpipe, material handling equipment, marking, forming and surface finishing stainless steel products. Safety and material handling practices are reviewed.

FHGE: Non-GE Applicable

Transferable: None

1.5 Units

APSM 119 SMQ-19 HVAC AIR SYSTEMS & DUCT DESIGN

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 36 hours lecture, 4 hours laboratory.

Course addresses the basics and critical details of heating, ventilating, and air conditioning (HVAC), and system design, operation, installation, and fabrication standards. Students will learn how HVAC systems can be designed with human comfort and efficient operation in mind. Students will learn basic components, and how to identify loss factors of typical HVAC systems. Load calculations and air flow calculations are performed and duct leak testing is introduced, stressing the importance of energy efficiency with today's environmental concerns. FHGE: Non-GE Applicable Transferable: None

APSM 120

SMQ-20 MEASURING & SKETCHING

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 14 hours lecture, 26 hours laboratory.

Field measuring and sketching techniques are discussed in detail as it relates to sheet metal work. Topics covered include measuring techniques and safety, reference points, calculations, and industry accepted symbols, views and representations. Students measure and produce sketches. FHGE: Non-GE Applicable Transferable: None

APSM 121 SMQ-21 FABRICATION & 1 Unit SHORTCUTS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 8 hours lecture, 32 hours laboratory.

Theory and application of sheet metal fabrication and shortcuts used in residential and commercial construction are reviewed in this course. Students will gain a working knowledge of alternative fabrication techniques and theory. Geometry and math associated with fabrication are an integral part of this course. Jobsite conditions and fabrication of specialty items are emphasized.

FHGE: Non-GE Applicable

Transferable: None

APSM 122 SMQ-22 CODES & STANDARDS Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limit

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 38 hours lecture, 2 hours laboratory.

Students are introduced to the organization and interpretation of building codes and standards in the sheet metal industry. The restrictions and limitations these codes place on the construction industry are covered in detail. Students work with codes common to the industry and use SMACNA standards to research information.

FHGE: Non-GE Applicable

Transferable: None

SMQ-23 RESIDENTIAL SHEET METAL

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 18 hours lecture, 22 hours laboratory.

Introduction to sheet metal work specific to residential construction including: the various types of residential heating, ventilation and air conditioning systems, combustion theory, basic air distribution, furnace construction, filters, humidifiers, installation techniques, maintenance procedures and roof drainage system requirements.

FHGE: Non-GE Applicable

APSM 124

1.5 Units

3 Units

159

Transferable: None

2 Units

3 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

SMQ-24 METAL ROOFING

40 hours total: 18 hours lecture, 22 hours laboratory.

Overview of the different types of metal roofs used in the sheet metal industry, installation skills, and safety concerns. Common roof seams are fabricated. Use of manufactured and shop-fabricated materials for roof lay out and installation is practiced, including roof penetrations and related flashings.

FHGE: Non-GE Applicable Transferable: None

APSM 125 SMQ-25 DETAILING

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 36 hours lecture, 4 hours laboratory.

Detailing in the sheet metal industry is a specialized skill that requires extensive knowledge and proper attention to detail when working with drawings and specifications. In this course, students will compile detail information from plans, specs, submittals, standards, field measurements, and codes.

FHGE: Non-GE Applicable Transferable: None

APSM 126 SMQ-26 FOREMAN TRAINING 2.5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 32 hours lecture, 8 hours laboratory.

This course is for journeyman-level sheet metal workers who want to become supervisors, site managers, leads, and foreman. In this course, students will be able to identify the roles and responsibilities of the foreman, and reasons to become a foreman. Students will practice self-evaluation, successful foreman attributes, managing and leading others, and project management. They will learn to start a project and see it through to successful completion.

FHGE: Non-GE Applicable

Transferable: None

APSM 127 SMQ-27 BASIC AUTOCAD

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 12 hours lecture, 28 hours laboratory.

In the Basic AutoCAD class students learn how to follow the proper protocols for computer lab use and perform essential computer file management operations. The students will navigate through the basic AutoCAD screen and command menus. The students will demonstrate the basic use of the AutoCAD program by creating and plotting a drawing assignment within parameters and given template. The students will be able to demonstrate how AutoCAD is used in the Sheet Metal Industry. **Transferable: None**

FHGE: Non-GE Applicable

SMQ-28 HVAC ENERGY 2.5 Units **APSM 128 CONSERVATION &** ENVIRONMENTAL TECHNOLOGY

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 30 hours lecture, 10 hours laboratory.

This course is an introduction to energy and environmental technologies for the sheet metal and HVAC industry. It includes an introduction to California Title 24 requirements for HVAC systems, duct system testing, assessing utility bill and equipment nameplate data, the LEED point system, and basic heat transfer calculations. It also includes an overview of upcoming energy initiatives in California.

FHGE: Non-GE Applicable **Transferable: None**

SMQ-30 ADVANCED WELDING 1.5 Units **APSM 130** Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to

students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 14 hours lecture, 26 hours laboratory. Advanced techniques used in Oxy-Fuel/ Plasma cutting, GMAW, and GTAW on various types and thicknesses of base material. FHGE: Non-GE Applicable Transferable: None

APSM 131 SMQ-31 CAD DETAILING 1 Unit (BEGINNING CAD DUCT)

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 10 hours lecture, 30 hours laboratory.

Course covers basic computer-aided design (CAD) drawing skills required by industry. Use of CAD DUCT or similar specialized 3rd party sheet metal detailing software to set up drawings, including 3D duct detailing program with emphasis on electronic coordination. This course focuses on file management and drawing protocol and utilization of structural and architectural backgrounds. Students will design ducting within the CAD drawing and use CAD DUCT or similar software for location and elevation, as well as collision checks. Note: Other industry recognized third party software may be utilized in lieu of CAD DUCT, such as "Benchmark Draft" software, for similar lessons.

FHGE: Non-GE Applicable

Transferable: None

APSM 132

1.5 Units

SMQ-32 INTERMEDIATE CAD DETAILING THIRD PARTY

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 10 hours lecture, 30 hours laboratory.

Continuation of 3D duct detailing program for electronic coordination, emphasizing accessing, editing, and recovering files with the CAD DUCT or similar third party sheet metal detailing software system. Students will use format standards, tag files, and program utilities. Using contract documents, students will work through the steps necessary to create a job file. FHGE: Non-GE Applicable **Transferable:** None

APSM 133 SMQ-33 ADVANCED 1.5 Units ARCHITECTURAL

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 12 hours lecture, 28 hours laboratory.

Develop advanced skills to layout architectural custom flashing and cornices. Work with the newest metal roofing material. Work with copper and other materials to lay out and fabricate specialized architectural items. FHGE: Non-GE Applicable **Transferable: None**

APSM 134 SMQ-34 ADVANCED LAYOUT 1 Unit FABRICATION

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to

students admitted to the Sheet Metal Apprenticeship Program.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 10 hours lecture, 30 hours laboratory.

Course addresses advanced methods of pattern development using both calculator and manual methods. Students will utilize math formulas relating to sheet metal lay out, fabrication, and shop procedures with the ITI Sheet Metal Pro Calculator, as well as apply geometric construction techniques to advanced patterns and job-site layouts. FHGE: Non-GE Applicable

Transferable: None

APSM 136 SMQ-36 SERVICE BASICS

2 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 26 hours lecture, 14 hours laboratory.

This course addresses the knowledge and development of the basic skills necessary for a sheet metal worker to service a basic HVAC building system. FHGE: Non-GE Applicable Transferable: None

APSM 151A SERVICE INTRODUCTION 2.5 Units & SAFETY

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 30 hours lecture, 10 hours laboratory.

Students receive an introduction to their building trade service apprenticeship and the union HVAC industry with an emphasis on safety. FHGE: Non-GE Applicable Transferable: None

APSM 152C			2.5 Units
Degree & Credit	Status: Degree-a	applicable credit co	ourse
Prerequisite: Per students admitte	California Code ed to the Sheet <i>N</i> er Grade or Pass/	of Regulations, thi Netal Apprenticeshi	s course is limited to
· · · · · ·		10 hours laboratory	
Students receive ment, with an em	an introduction to phasis on safety	to electricity as rela when working with	ated to HVAC equip- HVAC equipment.
FHGE: Non-GE	Applicable	Transferab	le: None

APSM 151B

Not Repeatable.

APSM 151C

Not Repeatable.

APSM 152A

Not Repeatable.

refrigerants.

APSM 152B

Not Repeatable.

SKILLS

use, documentation and professional representation.

40 hours total: 35 hours lecture, 5 hours laboratory.

HEAT, MATTER & ENERGY

PIPING, REFRIGERANT

CHARGING REFRIGERANT

SYSTEMS

IN HVAC SYSTEMS

Grade Type: Letter Grade Only

FHGE: Non-GE Applicable

Grade Type: Letter Grade Only

transfer as it pertains to HVAC.

Grade Type: Letter Grade Only

FHGE: Non-GE Applicable

Grade Type: Letter Grade Only

FHGE: Non-GE Applicable

FHGE: Non-GE Applicable

COURSE CATALOG 2020-2021

Transferable: None

Degree & Credit Status: Degree-applicable credit course Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 40 hours total: 30 hours lecture, 10 hours laboratory. 40 hours total: 30 hours lecture, 10 hours laboratory. Students gain further understanding of the roles and responsibilities of a Students establish basic steps for installation and start-up of HVAC sysbeginning level HVAC service apprentice, including maintenance, vehicle tems. FHGE: Non-GE Applicable **Transferable: None** Transferable: None **ELECTRIC MOTORS &** 2.5 Units **APSM 153B** 2.5 Units MOTOR CONTROLS IN HVAC SYSTEMS Degree & Credit Status: Degree-applicable credit course Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 40 hours total: 30 hours lecture, 10 hours laboratory. Students are introduced to the physical laws governing heat and energy Students learn the basic aspects of the types of motors and their controls used in HVAC systems. Transferable: None FHGE: Non-GE Applicable Transferable: None 1.5 Units **APSM 153C** COMPONENTS OF THE 2.5 Units **EVACUATION & RECOVERY REFRIGERANT CYCLE** Degree & Credit Status: Degree-applicable credit course Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 40 hours total: 12 hours lecture, 28 hours laboratory. 40 hours total: 30 hours lecture, 10 hours laboratory. Students are introduced to the materials and types of connections used Students learn the theory and components of the refrigerant cycle, as used in HVAC piping. Students learn how to safely evacuate and recover HVAC to transfer heat. FHGE: Non-GE Applicable **Transferable:** None **Transferable: None APSM 154A REFRIGERATION IN AIR** 2 Units 2 Units CONDITIONING Degree & Credit Status: Degree-applicable credit course Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 40 hours total: 20 hours lecture, 20 hours laboratory. 40 hours total: 20 hours lecture, 20 hours laboratory. Students apply the refrigerant cycle theory to its use in an HVAC system Students learn the fundamentals of charging refrigerant systems. and investigate the functions of individual components in these systems. **Transferable:** None FHGE: Non-GE Applicable Transferable: None 2 Units ts **APSM 154B GAS & ELECTRIC** HEATING Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 40 hours total: 20 hours lecture, 20 hours laboratory. Students explore the operation, maintenance, and repair of gas and electric heating systems.

FHGE: Non-GE Applicable

161

FIELD INSTALLATION FOR THE SERVICE TECHNICIAN

2.5 Units

APSM 154C	HYDRONIC Status: Degree-and	HEATING plicable credit course	2 Units	APSM 156B	COOLING TOW & PIPING
Prerequisite: Per students admitte	California Code of	Regulations, this cour tal Apprenticeship Proc		Prerequisite: Per	Status: Degree-applica California Code of Re d to the Sheet Metal A
Not Repeatable.		01833			er Grade or Pass/No Pa
	5 hours lecture, 15	hours laboratory. es of and equipment us	ed in hydronic	Not Repeatable.	5 hours lecture, 5 hou
heating.		es of and equipment us	sed in hydronic		an understanding of c
FHGE: Non-GE A	pplicable	Transferable: No	ne	densing water cir materials.	culation system requir
APSM 155A	SHEET META	L FABRICATION	1.5 Units	FHGE: Non-GE A	pplicable
-		plicable credit course Regulations, this cours	so is limited to	APSM 156C	CHILLED WATE
•		tal Apprenticeship Prog			SYSTEMS & CO
	er Grade or Pass/N	o Pass		-	Status: Degree-applic
Not Repeatable. 40 hours total: 10	6 hours lecture, 24	hours laboratory.		•	California Code of Re d to the Sheet Metal A
		fabrication as required	l in HVAC duct		er Grade or Pass/No Pa
•		elected common duct	•	Not Repeatable.	E h
FHGE: Non-GE A	присаріе	Transferable: No	ne		5 hours lecture, 5 hour an introduction to the
APSM 155B	AIR DISTRIB	UTION &	2.5 Units	of chilled water s	ystems.
		UCT DESIGN		FHGE: Non-GE A	pplicable
-		plicable credit course Regulations, this cours	se is limited to	APSM 157A	PLANS &
•		tal Apprenticeship Prog			SPECIFICATION
••	er Grade or Pass/N	o Pass			SERVICE TECH
Not Repeatable.	5 hours lecture, 5 l	nours laboratory.		•	Status: Degree-applica California Code of Re
		of air flow characterist	ics and the prop-	•	d to the Sheet Metal A
er design of duct		Transformhlas Na		Grade Type: Lett	er Grade Only
FHGE: Non-GE A	хррпсаріе	Transferable: No	ne	Not Repeatable. 40 hours total: 3	0 hours lecture, 10 ho
APSM 155C	MAINTAININ	IG EFFICIENT	2 Units	Students gain an	introduction to and ex
		OF ELECTRIC		tion of building p systems and equi	lans and specifications
	COOLING & EQUIPMENT			FHGE: Non-GE A	•
Degree & Credit	•	plicable credit course			
•		Regulations, this cours tal Apprenticeship Prog		APSM 157B	HVAC ENERGY
	er Grade or Pass/N		gran.	Degree & Credit	Status: Degree-applica
Not Repeatable.				•	California Code of Re
	5 hours lecture, 15	hours laboratory. nce procedures require	d for efficient		ed to the Sheet Metal A er Grade or Pass/No Pa
operation of HVA	•	nee procedures require		Not Repeatable.	
FHGE: Non-GE A	pplicable	Transferable: No	ne		5 hours lecture, 5 hour
			2.5.11.11.		oduced to the Californ 4, and "Green" LEED c
APSM 156A	HEAT PUMP OPERATION		2.5 Units		f HVAC service in ener
-		plicable credit course		FHGE: Non-GE A	pplicable
•		Regulations, this cours		APSM 157C	
	er Grade or Pass/N	tal Apprenticeship Prog o Pass	gram.	AP3M 15/C	INDOOR AIR Q ENERGY EFFICI
Not Repeatable.				-	Status: Degree-applica
	0 hours lecture, 10		oithor direction		California Code of Re
	with actual compo	ction to transfer heat in nents.			ed to the Sheet Metal A er Grade or Pass/No Pa
FHGE: Non-GE A		Transferable: No	ne	Not Repeatable.	
					5 hours lecture, 5 hours sider factors of indoor
				SLUGENLS WILLCON	SIGET TACTOLS OF THOODE

VERS, PUMPS cable credit course egulations, this course is limited to Apprenticeship Program. Pass urs laboratory. cooling towers, pumps, and conrements, using theory and system **Transferable: None**

ER HVAC 2.5 Units **MPONENTS**

cable credit course egulations, this course is limited to Apprenticeship Program. Pass

urs laboratory. e operation, maintenance and repair

Transferable: None

2.5 Units NS FOR THE NICIAN

cable credit course egulations, this course is limited to Apprenticeship Program.

ours laboratory. xperience in reading and interpretas, especially as related to mechanical

Transferable: None

CODES & 2.5 Units

cable credit course

egulations, this course is limited to Apprenticeship Program. Pass

urs laboratory.

nia mechanical code, Building Energy construction, with particular attenergy conservation. Transferable: None

2.5 Units **QUALITY &** IENCY

cable credit course egulations, this course is limited to Apprenticeship Program. Pass

urs laboratory.

Students will consider factors of indoor air quality versus energy efficiency, including airflow, filtration, air changes per hour, and humidity. Related HVAC equipment solutions, including economizers and duct system designs will also be discussed. Students will be introduced to typical measurements and requirements.

FHGE: Non-GE Applicable

Transferable: None

COURSE CATALOG 2020-2021

2.5 Units

APSM 158A	INTRODUCTIC		2 Units	APSM 159C	TESTING ADJUSTING &
AFSIMISOA	DIGITAL HVAC		2 Onits	AF3/0 137C	BALANCING OF HVAC SYSTEMS
	tus: Degree-appli lifornia Code of R	cable credit course egulations, this course i		Prerequisite: Per	Status: Degree-applicable credit course California Code of Regulations, this course is
		Apprenticeship Progra	m .		ed to the Sheet Metal Apprenticeship Program
Grade Type: Letter (arade or Pass/No I	Pass		••	er Grade or Pass/No Pass
Not Repeatable. 40 hours total: 28 h	ours lecture 12 hr	ours laboratory		Not Repeatable.	8 hours lecture, 12 hours laboratory.
		nents and principles tha	t comprise a		tinue to explore methods of testing, adjusting
direct digital control		·····			ns. More complex systems will be explored, us
FHGE: Non-GE App	licable	Transferable: None		measuring equipr FHGE: Non-GE A	ment. Written reports will be produced. Applicable Transferable: None
APSM 158B	PNEUMATIC C HVAC SYSTEM	ONTROLS FOR S	2.5 Units	APSM 171A	HVAC TRADE HISTORY &
	ifornia Code of R	egulations, this course i			INTRODUCTION TO TESTING, ADJUSTING & BALANCING
		Apprenticeship Progra	m .	-	Status: Degree-applicable credit course
Grade Type: Letter C	Grade or Pass/No I	Pass		•	California Code of Regulations, this course is
Not Repeatable. 40 hours total: 30 h	ours lecture 10 b	ours laboratory			ed to the Sheet Metal Apprenticeship Prograr er Grade or Pass/No Pass
	-	nts of a pneumatic conti	rol system to	Not Repeatable.	
		neumatic control system		•	6 hours lecture, 4 hours laboratory.
FHGE: Non-GE App		Transferable: None		•	n an introductory overview of TAB in the HVA able to describe human comfort and HVAC in
APSM 158C	INVERTER, VR RECOVERY TE		2.5 Units	cess needs. FHGE: Non-GE A	Applicable Transferable: None
Degree & Credit Sta					
students admitted t	o the Sheet Metal	egulations, this course i Apprenticeship Program		APSM 171B	BASICS OF AIRFLOW, HEAT ENERGY & HEAT
Grade Type: Letter C Not Repeatable.	arade or Pass/No I	Pass		Dogroo & Crodit	TRANSFER Status: Degree-applicable credit course
40 hours total: 35 h	ours lecture, 5 ho	urs laboratory.		-	California Code of Regulations, this course is
Students explore the	components and	principals that comprise at recovery systems as		students admitte	ed to the Sheet Metal Apprenticeship Program er Grade or Pass/No Pass
HVAC industry.				Not Repeatable.	
FHGE: Non-GE App	licable	Transferable: None		Students obtain a	O hours lecture, 10 hours laboratory. an overview of the fundamental process of he
APSM 159A	INTRODUCTIC ADJUSTING & HVAC SYSTEM		2.5 Units	and how pressure FHGE: Non-GE A	es relate to air movement in HVAC systems. Applicable Transferable: None
Degree & Credit Sta		-		APSM 171C	SAFETY TRAINING FOR TAB
Prerequisite: Per Ca	ifornia Code of R	egulations, this course i Apprenticeship Progra		Dearee & Credit	APPRENTICESHIP Status: Degree-applicable credit course
Grade Type: Letter O		••••••		-	California Code of Regulations, this course is
Not Repeatable.				students admitte	ed to the Sheet Metal Apprenticeship Program
40 hours total: 30 h	,	•			er Grade or Pass/No Pass
-		undamental process of h	neat transfer	Not Repeatable.	
and how pressures re FHGE: Non-GE App		nent in HVAC systems. Transferable: None		Students will gain	O hours lecture, 10 hours laboratory. n certifications in OSHA 10 compliance, CPR a nd NFPA 70E arc flash compliance.
APSM 159B	AIRFLOW & PSYCHROMET	RICS FOR TAB	2.5 Units	FHGE: Non-GE A	•
Degree & Credit Sta				APSM 172A	BASIC HVAC SYSTEMS,
-		egulations, this course i Apprenticeship Progra			PSYCHROMETRICS, AIR PRESSURES &
Grade Type: Letter C	Grade or Pass/No I	Pass			MEASUREMENTS OF AIR
Not Repeatable.				-	Status: Degree-applicable credit course
-	overview of the p	urs laboratory. ourpose for commercial hrometrics and methods	,	students admitte	California Code of Regulations, this course is ed to the Sheet Metal Apprenticeship Program er Grade or Pass/No Pass
airflow in HVAC syst				Not Repeatable.	
FHGE: Non-GE App		Transferable: None		•	2 hours lecture, 8 hours laboratory.

COURSE CATALOG 2020-2021

2 Units

EMS rse course is limited to Program.

adjusting and balanclored, using applicable d. : None

3 Units G,

rse course is limited to Program.

he HVAC industry. IVAC industry pro-

APSM 171B	BASICS OF AIRFLOW, HEAT	2.5 Units
	ENERGY & HEAT	
	TRANSFER	

course is limited to Program.

ess of heat transfer stems. : None

2.5 Units

rse course is limited to Program.

e, CPR and first aid, : None

2.5 Units

rse course is limited to Program.

Students will confirm an understanding of the main characteristics of psychrometrics and methods to measure airflow in commercial HVAC systems. FHGE: Non-GE Applicable Transferable: None

Prerequisite: Per California Code of Regulations, this course is limited to

Grade Type: Letter Grade or Pass/No Pass

students admitted to the Sheet Metal Apprenticeship Program.

Degree & Credit Status: Degree-applicable credit course

Degree & Credit Status: Degree-applicable credit course

40 hours total: 24 hours lecture, 16 hours laboratory.

air and water flows in commercial HVAC systems.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

APSM 172C

APSM 172B

Not Repeatable.

FHGE: Non-GE Applicable

40 hours total: 28 hours lecture, 12 hours laboratory. Students will gain an overview of the various methods of duct leakage test-

ing, per requirements applied in the commercial HVAC industry. FHGE: Non-GE Applicable Transferable: None

PROPORTIONAL BALANCING

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.

Students will learn and practice the proportional balancing method to adjust

DUCT LEAKAGE TESTING

Transferable: None

ELECTRICAL FUNDAMENTALS, 2.5 Units **APSM 173A ELECTRIC MOTORS & ROTATIONAL MEASUREMENTS**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 30 hours lecture, 10 hours laboratory.

Students will gain an overview of common electrical terminology, electrical formulas, types of motors used in the HVAC industry and measuring rotational speed.

FHGE: Non-GE Applicable

APSM 173B TEMPERATURE MEASUREMENTS, 2.5 Units **DUCT SYSTEMS & BASIC** CONTROLS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 32 hours lecture, 8 hours laboratory.

Students will gain an understanding of a variety of temperature measurements, the use of temperature measurement instruments, basic overview of HVAC duct systems and the control devices used to regulate temperature and humidity in HVAC systems.

FHGE: Non-GE Applicable

Transferable: None

Transferable: None

APSM 173C HVAC FANS, FAN LAWS & 2.5 Units V-BELT DRIVES

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 30 hours lecture, 10 hours laboratory.

Students will survey common types of fans used in HVAC systems and learn the factors that affect fan performance and fan drive packages. FHGE: Non-GE Applicable Transferable: None

2 Units

2 Units

HYDRONIC SYSTEMS, PUMPS & HYDRONIC BALANCING

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 30 hours lecture, 10 hours laboratory.

Students will gain an overview of the components and design of hydronic systems used in HVAC. Students will be able to measure pressures and determine flow through a pump and across various hydronic components. **Transferable: None** FHGE: Non-GE Applicable

APSM 174B BALANCING DOCUMENTATION, 2 Units **COOLING TOWERS & TAB RELATED SKILLS**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 24 hours lecture, 16 hours laboratory.

Students will use Microsoft Word and Excel to complete reporting documentation used in the TAB industry. Students will determine performance values of cooling towers used in HVAC systems.

FHGE: Non-GE Applicable **Transferable: None**

APSM 174C FIRE LIFE SAFETY LEVEL 1

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 32 hours lecture, 8 hours laboratory.

Students will gain an overview of various types of fire dampers used in HVAC systems. Upon completion, students will be able to perform fire damper operational tests and inspections. FHGE: Non-GE Applicable Transferable: None

APSM 175A TABB TECHNICIAN 2 Units CERTIFICATION

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 20 hours lecture, 20 hours laboratory.

Students will demonstrate proper test and balance skills and achieve TABB Technician certification. **Transferable:** None

FHGE: Non-GE Applicable

APSM 175B DDC CONTROLS & PROGRAMS

2 Units

2.5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 24 hours lecture, 16 hours laboratory.

Students will gain an overview of direct digital control systems used in HVAC systems. Students will program and produce control documentation for a packaged rooftop HVAC system. FHGE: Non-GE Applicable Transferable: None

APSM 175C **FIRE LIFE SAFETY LEVEL 2**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 32 hours lecture, 8 hours laboratory.

Students will become familiar with the building codes that govern fire life safety systems. Upon completion, students will be able to test a fire life safety system and achieve ICB FLS Level 2 certification. FHGE: Non-GE Applicable **Transferable: None**

2.5 Units PLANS & **APSM 176A** SPECIFICATIONS, CODES & STANDARDS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 30 hours lecture, 10 hours laboratory.

Students will explain the organization of construction documentation specifications and plans used in the TAB HVAC industry. Students will prepare a TAB bid estimate, per standards used in the TAB industry. FHGE: Non-GE Applicable **Transferable: None**

BASIC REFRIGERATION & APSM 176B 2.5 Units **BRAZING/SOLDERING**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 32 hours lecture, 8 hours laboratory. Students will describe the location and function of components used in HVAC refrigeration systems. Students will demonstrate proper brazing and soldering techniques. **Transferable: None**

FHGE: Non-GE Applicable

APSM 176C CLEAN ROOMS & HEPA FILTER TESTING

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 28 hours lecture, 12 hours laboratory.

Students will describe the purpose of a cleanroom and the function of HEPA and ULPA filters. Students will perform HEPA filter challenge and cleanroom performance testing to industry standards. FHGE: Non-GE Applicable **Transferable: None**

TITLE 24 MECHANICAL APSM 177A ACCEPTANCE TESTING

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 32 hours lecture, 8 hours laboratory.

Students will explain the requirements of the California Title 24 energy code. Students will perform all Title 24 Mechanical Acceptance tests required in non-residential mechanical systems. Students will achieve NEMIC Mechanical Acceptance Test Technician certification. FHGE: Non-GE Applicable Transferable: None

APSM 177B

ADVANCED DDC CONTROLS/COMMISSIONING OF HVAC SYSTEMS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 24 hours lecture, 16 hours laboratory.

Students will install, program and calibrate direct digital control components on HVAC systems. Students will describe the SMACNA commissioning process and prepare sample functional performance tests. FHGE: Non-GE Applicable Transferable: None

APSM 177C ENERGY AUDITING

2.5 Units

2 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 32 hours lecture, 8 hours laboratory.

Students will demonstrate the skills and knowledge to prepare and conduct a building energy audit to industry standards. Students will achieve the ICB Energy Audit Technician certification. **Transferable: None**

FHGE: Non-GE Applicable

APSM 178A INDOOR AIR QUALITY

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 Units

2.5 Units

165

40 hours total: 28 hours lecture, 12 hours laboratory.

Students will explain basic factors of air quality, demonstrate the use of indoor air quality test instruments and perform various tests to prepare a sample IAQ report.

FHGE: Non-GE Applicable

Transferable: None

APSM 178B GREEN CONSTRUCTION & 2.5 Units LEED CERTIFICATION FOR HVAC.

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 32 hours lecture, 8 hours laboratory.

Students will gain an overview of "Green Construction" principles and techniques used in the HVAC industry. Students will identify various methods of energy conservation and generation in high performance buildings. Transferable: None FHGE: Non-GE Applicable

APSM 178C FOREMAN TRAINING/PROJECT 2.5 Units MANAGEMENT FOR HVAC

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 32 hours lecture, 8 hours laboratory.

Students will describe the role and responsibilities of jobsite foreman and project managers. Students will prepare a sample job cost tracking worksheet.

FHGE: Non-GE Applicable

Transferable: None

COURSE CATALOG 2020-2021

2.5 Units

BUILDING & CASCADING PRESSURES/AIR CHANGE TESTING

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

40 hours total: 24 hours lecture, 16 hours laboratory.

Students will perform and calculate air changes per hour on building spaces, adjust room and building pressure differentials and prepare associated required documentation, per industry standards. FHGE: Non-GE Applicable Transferable: None

APSM 179B SOUND & VIBRATION IN 2.5 Units HVAC SYSTEMS

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

APSM 179A

40 hours total: 32 hours lecture, 8 hours laboratory.

Upon completion, students will measure room sound pressure readings to properly complete noise criterion (NC) and room criterion (RC) reports to industry standards. Students will properly conduct vibration testing on various HVAC equipment and document results to industry standards. FHGE: Non-GE Applicable Transferable: None

APSM 179C BIOLOGICAL SAFETY 2 Units CABINETS/LABORATORY FUME HOODS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

40 hours total: 24 hours lecture, 16 hours laboratory.

Students will identify various types of laboratory fume hoods and biological safety cabinets and describe the function of each style. Students will follow proper industry standards to test laboratory fume hoods and biological safety cabinets to required industry standards.

FHGE: Non-GE Applicable Transferable: None

APPRENTICESHIP: SOUND & COMMUNICATION

Apprenticeship

2 Units

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APSC 111	JOB INFORMATION, SAFETY,	3.5 Units
	TEST INSTRUMENTS,	
	STRUCTURED CABLING, FIBER	
	OPTICS	

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Northern CA Sound & Communication JATC Apprenticeship Program.

Advisory: Not open to students with credit in APRT 130. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

80 hours total: 30 hours lecture, 50 hours laboratory.

Introduction to the sound and communication industry. Students are exposed to the basic tools of the trade, test instruments, proper care and safety of tools, use of fastening devices and how to tie basic knots. This course will cover the TIA/EIA standards and students apply codeology to cabling systems, connectors, unshielded twisted pair cables and connecting hardware. This course also includes a fiber optic overview of different optical cables, connectors and connection joints. This course teaches students how to properly install, test and certify fiber optical cables. FHGE: Non-GE Applicable Transferable: None

APSC 112	CODES & PRACTICES,	3.5 Units
	CONNECTORS &	
	RACEWAYS, BLUEPRINT	
	READING, DC THEORY	

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Northern CA Sound & Communication JATC Apprenticeship Program.

Advisory: Not open to students with credit in APRT 131. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

80 hours total: 30 hours lecture, 50 hours laboratory.

This course will cover the National Electrical Code (NEC). Students apply codeology to cabling systems, boxes, connectors, and raceways. It covers the fundamentals of blueprints, scales, mechanical and electrical symbols, using industry elevations and schedules. This course will also cover DC theory, how electricity works, how to calculate and measure voltage, current, resistance and power in a series and/or parallel circuit. FHGE: Non-GE Applicable Transferable: None

APSC 121 AC THEORY, MASTER CLOCK, 3.5 Units NURSE CALL, COMPUTER LITERACY

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Northern CA Sound & Communication JATC Apprenticeship Program.

Advisory: Not open to students with credit in APRT 132.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

80 hours total: 30 hours lecture, 50 hours laboratory.

Study of AC theory. The student will become familiar with sine waves, inductance, inductive reactance, capacitive reactance, frequency and AC impedance. Calculate voltage, current, impedance and power in both a series and a parallel AC circuit. Introduction to nurse call systems, including system components, ancillary systems, system design, installation and troubleshooting techniques. Instruction on personal computing software, such as Microsoft Word and Excel. Students create Word documents and practical spreadsheets.

FHGE: Non-GE Applicable Transferable: None

APSC 122

FIRE ALARM, PAGING, EMERGENCY COMMUNICATION, MASS NOTIFICATION SYSTEMS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Northern CA Sound & Communication JATC Apprenticeship Program.

Advisory: Not open to students with credit in APRT 133.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

80 hours total: 30 hours lecture, 50 hours laboratory.

Fundamentals of fire alarm systems, including building a small scale fire alarm system using Norcal's fire alarm trainers, initiating and notification devices, testing and maintenance. In addition, students will study paging system theory, components, installation and troubleshooting. Course concludes with Emergency Communication Systems and Mass Notification systems and code requirements for installation and commissioning. FHGE: Non-GE Applicable Transferable: None

APSC 131

VDV/FIRE LIFE SAFETY 4 Units PREP, NETWORKING, CCTV, CATV & DAS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Northern CA Sound & Communication JATC Apprenticeship Program.

Advisory: Not open to students with credit in APRT 160. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

80 hours total: 40 hours lecture, 40 hours laboratory.

Preparation for the Voice Data Video and Fire Life Safety state certifications. Review of navigating the NEC, Fire Alarm and Signaling Code, overview of the certification application process and lessons on most aspects of the Voice Data Video industry. Concludes with sample exam tests. Also includes basic networking, studies on the OSI reference model, TCP/IP reference module, managing IP addresses and data transport. Networking lessons tie directly into the Closed Circuit Television (CCTV) Intelligent Network Video advanced study of CCTV systems, including video camera types, lenses, optics, lighting characteristics and the study of signal transmission methods. Hands-on lab assignment installing and configuring networked video surveillance camera system. Further lessons include the fundamentals of Closed Antenna Television (CATV) and Distributed Antenna System (DAS). Fundamentals of distributing a radio frequency over the proper medium, connections, signal levels and testing. Hands-on lab includes installing cable, connector terminations, equipment installation and testing.

FHGE: Non-GE Applicable

Transferable: None

RADIO FREQUENCIES, SECURITY SYSTEMS, AUDIO-VISUAL

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Northern CA Sound & Communication JATC Apprenticeship Program.

Advisory: Not open to students with credit in APRT 161. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

80 hours total: 40 hours lecture, 40 hours laboratory.

Begins with the study of radio frequencies. Lessons include the electromagnetic spectrum, frequency spectrum allocation, RF communication systems and how these systems work, focusing on the sound and communication industry. Next, students study intrusion and access control systems. Lessons include the components of security systems, magnetic contacts, motion sensors, control panels and biometric readers. Power quality is studied, showing how it can affect sound and communication systems. Lessons include performance issues due to hum and buzz created by power supply leakage current, ground loops and electromagnetic interference. Audio and video fundamentals will be studied. Lessons include the properties of sound, distributed audio and video, planning and testing of audio visual systems. Students will perform hands-on design with entertainment and application platforms for audio-visual, cabling, coax, fiber optics and networking systems.

FHGE: Non-GE Applicable

Transferable: None

APPRENTICESHIP: VETERINARY ASSISTING

Apprenticeship

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APAV 50A	CURRENT TOPICS IN	1 Unit
	VETERINARY TECHNOLOGY I	

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to

students admitted to the Advanced Veterinary Assisting Apprenticeship Program.

Grade Type: Letter Grade Only

Not Repeatable.

12 hours lecture total.

This course is the first in a series of three courses that orient the advanced veterinary assisting apprentice to the workplace. Different aspects of the veterinary health care team will be discussed, as well as the various roles available in the organization. Different departments will present their interests, core values, and structure for integrating veterinary assistants into the team. Students will develop an appreciation of the broad scope of careers within the field. An acculturation process of the student to the facility begins in this course.

FHGE: Non-GE Applicable

APAV 50B

CURRENT TOPICS IN VETERINARY TECHNOLOGY II

1 Unit

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Advanced Veterinary Assisting Apprenticeship Program.

Grade Type: Letter Grade Only Not Repeatable.

12 hours lecture total.

Provides enrichment of the core curriculum to the veterinary assisting apprentice student. Presenters will include veterinarians, veterinary technicians, and animal care and management professionals involved in behavior and training of dogs and cats. Course will focus on learning theory, animal welfare, making the veterinary hospital experience less stressful and more pleasurable, decrease learned procedure aversion and fear of veterinary offices, and decrease of injuries to professionals.

FHGE: Non-GE Applicable Transferable: CSU

APAV 50C CURRENT TOPICS IN VETERINARY TECHNOLOGY III

1 Unit

2 Units

VETERINART TECHNOLOGT III Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Advanced Veterinary Assisting Apprenticeship Program.

Grade Type: Letter Grade Only Not Repeatable.

12 hours lecture total.

Provides enrichment of the core curriculum to the advanced veterinary assisting apprentice. Presenters will include veterinarians, veterinary technicians, business professionals, and educators. Lectures, lecture-demonstrations, multimedia presentations, live demonstrations, or hands-on workshops presented by the instructor or professionals in veterinary medicine. Content consists of relevant topics related to the workplace and concurrent coursework in the program curriculum, with an emphasis on clinical pharmacology and client education topics.

FHGE: Non-GE Applicable Transferable: CSU

APAV 51

INTRODUCTION TO VETERINARY TECHNOLOGY

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Advanced Veterinary Assisting Apprenticeship Program.

Advisory: Not open to students with credit in V T 51. Grade Type: Letter Grade Only

Not Repeatable.

24 hours lecture total.

Introduction to the profession of veterinary technology. Orientation to the program requirements and curriculum. Overview of program structure and student services. Review and practice of library skills. Survey of the role of the veterinary assistant and registered veterinary technician in the workplace. Survey of employment opportunities and areas of specialization. Ethics and professionalism pertaining to veterinary medicine. Laws and regulations governing veterinary technicians. Introduction to basic animal care skills and clinical procedures.

FHGE: Non-GE Applicable

Transferable: CSU

APAV 53A MEDICAL TERMINOLOGY

2 Units

5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Advanced Veterinary Assisting Apprenticeship Program.

Advisory: Not open to students with credit in V T 53A.

Grade Type: Letter Grade Only

Not Repeatable. 24 hours lecture total.

Focus on basic word parts and rules of word construction to learn the language of medicine. Translation of common medical terms pertaining to the different body systems, with emphasis on those terms particular to veterinary medicine. Application of language to clinical situations. FHGE: Non-GE Applicable Transferable: CSU

APAV 53B MEDICAL CALCULATIONS 2 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Advanced Veterinary Assisting Apprenticeship Program.

Advisory: Not open to students with credit in V T 53B.

Grade Type: Letter Grade Only

Not Repeatable.

24 hours lecture total.

Applied mathematics as a fundamental communication and technical skill. Review of calculations involving fractions, decimals, ratios and proportions, unit conversions, and algebraic equations. Clinical medical calculations utilized in preparation and administration of drugs, dosage determinations, intravenous fluid infusion, and prescription dispensing. FHGE: Non-GE Applicable Transferable: CSU

APAV 54A COMPARATIVE VETERINARY ANATOMY & PHYSIOLOGY FOR THE VETERINARY TECHNICIAN

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Advanced Veterinary Assisting Apprenticeship Program.

Advisory: Not open to students with credit in V T 54A. Grade Type: Letter Grade Only Not Repeatable.

84 hours total: 48 hours lecture, 36 hours laboratory.

The first of two courses in comparative veterinary anatomy and physiology for veterinary technicians. Clinically relevant veterinary anatomy and physiology. Discussion of the similarities and differences among the major domestic species. The first course introduces basics of chemistry to help the student interpret the physical and chemical basis of life. Systems included in the first course are: integumentary, muscles, skeletal, and cardiovascular. Emphasis is placed on the normal structure and function of the major organ systems as the foundation for understanding normal physiology and the pathophysiology of disease.

FHGE: Non-GE Applicable

COMPARATIVE VETERINARY ANATOMY & PHYSIOLOGY FOR THE VETERINARY TECHNICIAN

Degree & Credit Status: Degree-applicable credit course

Prerequisites: APAV 54A; per California Code of Regulations, this course is limited to students admitted to the Advanced Veterinary Assisting Apprenticeship Program.

Advisory: Not open to students with credit in V T 54B. Grade Type: Letter Grade Only

Not Repeatable.

84 hours total: 48 hours lecture, 36 hours laboratory.

The second of two courses in comparative veterinary anatomy and physiology for veterinary technicians. Clinically relevant veterinary anatomy and physiology. Discussion of the similarities and differences among the major domestic species. Systems included in this course are: respiratory, gastro-intestinal, neurologic, endocrine, reproductive, and urinary. The differences between avian and mammalian anatomy and physiology is discussed. Emphasis is placed on the normal structure and function of the major organ systems as the foundation for understanding normal physiology and the pathophysiology of disease.

FHGE: Non-GE Applicable

Transferable: CSU

APAV 55

ANIMAL MANAGEMENT & CLINICAL SKILLS I

I

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Advanced Veterinary Assisting Apprenticeship Program.

Grade Type: Letter Grade Only Not Repeatable.

72 hours total: 36 hours lecture, 36 hours laboratory.

Intended for the pre-clinical nursing training of advanced veterinary assisting apprenticeship students. The following topics are covered: occupational health and safety, dog and cat handling and restraint, administration of medication, assessing dehydration and basic fluid administration, principles of aseptic technique, sanitation, disinfection and sterilization, introduction to principles of surgical nursing and instrumentation.

FHGE: Non-GE Applicable Transferable: CSU

APAV 56 ANIMAL MANAGEMENT & 4 Units CLINICAL SKILLS II

Degree & Credit Status: Degree-applicable credit course Prerequisites: APAV 55; per California Code of Regulations, this course is limited to students admitted to the Advanced Veterinary Assisting Apprenticeship Program.

Grade Type: Letter Grade Only

Not Repeatable.

72 hours total: 36 hours lecture, 36 hours laboratory.

Intended for the pre-clinical training of veterinary technology students. Survey of basic responsibilities and technical duties of veterinary technicians. Clinical nutrition and feeding of the dog and cat. Basic principles of wound healing. Basic electrocardiography. Venipuncture for catheter placement, blood collection, and intravenous administration of fluids and medications. Troubleshooting of intravenous catheter set-ups. Bandaging and splinting. Introduction to anesthesia: stages of anesthesia, components of anesthetic equipment. Introduction to basic operating room skills and procedures.

FHGE: Non-GE Applicable

Transferable: CSU

APAV 60

5 Units

4 Units

VETERINARY OFFICE PRACTICE

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Advanced Veterinary Assisting Apprenticeship Program.

Advisory: Not open to students with credit in V T 60. Grade Type: Letter Grade Only

Not Repeatable.

24 hours lecture total.

Principles and practice of veterinary office management for veterinary nursing students. Client relations, telephone techniques, interpersonal skills, and team dynamics. Generation and maintenance of correspondence, medical records, legal forms, and hospital logs. Professional ethics and legal boundaries of the veterinary health care team. Facility management utilizing traditional and electronic media and appropriate veterinary medical terminology and abbreviations. Resume writing and interviewing techniques. Principles of inventory control. Use of practice management software. State and federal laws as they apply to the veterinary practice. FHGE: Non-GE Applicable Transferable: CSU

APAV 75A ANIMAL CARE SKILLS I

1 Unit

1 Unit

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Advanced Veterinary Assisting Apprenticeship Program.

Advisory: Not open to students with credit in V T 75A. Grade Type: Letter Grade Only

Not Repeatable.

36 hours laboratory total.

Practical application of animal care skills and principles of animal care and management. Opportunity to participate in the health care team involved in the husbandry and management of companion animals in a hospital and shelter environment. Emphasis will be on the basic principles and application of clinical facility management, care and behavior of hospitalized patients, routine maintenance duties, and euthanasia, grief and pet loss support.

FHGE: Non-GE Applicable

Transferable: CSU

APAV 75B ANIMAL CARE SKILLS II

Degree & Credit Status: Degree-applicable credit course Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Advanced Veterinary Assisting Apprenticeship Program.

Advisory: Not open to students with credit in V T 75B.

Grade Type: Letter Grade Only

Not Repeatable.

36 hours laboratory total.

Practical application of animal care skills and principles of animal care and management using techniques and knowledge learned in the veterinary technology classes. Students expand their animal care knowledge, skills, and abilities to include skills needed to be successful applying clinical diagnostics in the workplace. Students are expected to apply knowledge of medical terminology, anatomy and physiology to animal care duties. There is an emphasis on professional behavior, medical record keeping, and clinical procedures with dogs and cats.

FHGE: Non-GE Applicable

APAV 81 CLINICAL PATHOLOGY METHODS

Degree & Credit Status: Degree-applicable credit course

Prerequisites: APAV 55; per California Code of Regulations, this course is limited to students admitted to the Advanced Veterinary Assisting Apprenticeship Program.

Grade Type: Letter Grade Only Not Repeatable.

84 hours total: 48 hours lecture, 36 hours laboratory.

Fundamental studies of laboratory techniques and procedures involved in evaluating veterinary clinical samples. Areas of study include hematology, urinalysis, coagulation assessment, blood biochemistry and immunological testing, serology, clinical parasitology, and cytology. The veterinary technician's role in sample collection, sample storage and handling, and performance of analytic procedures will be emphasized. Skills are developed in the use of laboratory equipment, laboratory safety and management, and quality control and quality assurance.

FHGE: Non-GE Applicable

Transferable: CSU

ART

Fine Arts and Communication 650.949.7156 foothill.edu/art/

Foothill offers art activity courses in six different family categories. No single course may be repeated. Enrollment is limited to six courses per family within the Foothill-De Anza Community College District. Please refer to the De Anza College Catalog for the corresponding families and courses.

Drawing Family: ART 4B, 4C, 4D, 4E & 4I Painting Family: ART 19A, 19B, 19C, 19D, 47A & 47B Printmaking Family: GID 46 Ceramic Construction Family: ART 44, 45A, 45B, 45C & 46B Ceramic Surface Family: ART 45F Sculpture Family: ART 5C

ART 1 INTRODUCTION TO ART Degree & Credit Status: Degree-applicable credit course

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable. 4 hours lecture, 1.5 hours laboratory. (66 hours total per quarter.) An introduction to new ways of thinking about the visual arts, including examinations of the visual elements and artistic media, particularly as they contribute to the development of visual literacy. Includes analysis of western and non-western traditions in the visual arts within a social and historical context.

FHGE: Humanities Transferable: CSU/UC

ART 2A HISTORY OF ART: HISTORY 4.5 Units OF WESTERN ART FROM PREHISTORY THROUGH EARLY CHRISTIANITY

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in ART 2AH. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1.5 hours laboratory. (66 hours total per quarter.) History of Western art from Prehistory through Early Christianity. An introductory survey examining images, objects, and architecture produced from the Paleolithic era to the end of the Roman Empire. We will discuss Prehistoric, Mesopotamian, Egyptian, Greek, Roman, and Early Christian and Byzantine culture. Illustrated lectures and readings. FHGE: Humanities Transferable: CSU/UC Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant. Advisory: Not open to students with credit in ART 2A. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. 1.5 hours laboratory. (66 hours total per quarter.)

History of Western art from Prehistory through Early Christianity. An introductory survey examining images, objects, and architecture produced from the Paleolithic era to the end of the Roman Empire. We will discuss Prehistoric, Mesopotamian, Egyptian, Greek, Roman, Early Christian and Early Byzantine culture. Illustrated lectures and readings. The honors sections expand the primary sources for the student. In addition to the textbook, students have a reading list of sources (on reserve in the library). Lectures are more interactive and the student is expected to participate in group discussions. Exams are more exacting with an emphasis on the student being able to comfortably assimilate political, social, and economic factors into their analysis.

FHGE: Humanities

Transferable: CSU/UC

ART 2B

ART 2BH

HISTORY OF WESTERN ART FROM THE MIDDLE AGES TO THE RENAISSANCE

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in ART 2BH. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1.5 hours laboratory. (66 hours total per quarter.) A History of Western art from ca. 600 through ca. 1600. This course examines the Middle Ages and the Renaissance using images, objects, and architecture to develop a comprehensive understanding of the social, political, and religious forces that shaped this period. Illustrated lectures and readings.

FHGE: Humanities Transferable: CSU/UC

HONORS HISTORY OF WESTERN ART FROM THE MIDDLE AGES TO THE RENAISSANCE

4.5 Units

4.5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant.

Advisory: Not open to students with credit in ART 2B. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1.5 hours laboratory. (66 hours total per quarter.)

A History of Western art from ca. 600 through ca. 1600. This course examines the Middle Ages and the Renaissance using images, objects, and architecture to develop a comprehensive understanding of the social, political, and religious forces that shaped this period. Illustrated lectures and readings. The honors sections expand the primary sources for the student. In addition to the textbook, students have a reading list of sources (on reserve in the library). Lectures are more interactive and the student is expected to participate in group discussions. Exams are more exacting with an emphasis on the student being able to comfortably assimilate political, social, and economic factors into their analysis.

FHGE: Humanities Transferable: CSU/UC

5 Units ART 2AH

4.5 Units

Transferable: CSU/UC

171

ART 2C

FROM THE BAROQUE TO MODERNISM Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in ART 2CH. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 1.5 hours laboratory. (66 hours total per quarter.)

History of Western art from ca. 1600 to the 20th century. An introductory survey examining images, objects, and architecture produced from the late Renaissance to Modernism. Illustrated lectures and readings. **FHGE: Humanities** Transferable: CSU/UC

HISTORY OF WESTERN ART

ART 2E A HISTORY OF WOMEN IN ART

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in WMN 15. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 1.5 hours laboratory. (66 hours total per quarter.)

A chronological, thematic, and cross-cultural examination of art works and gender issues concerning women artists from the early Middle-Ages to the 21st century. Includes the influences on art produced by women of such issues as race, gender, socio-economic and political conditions, increasing urbanization, and conceptions of nature, etc. Transferable: CSU/UC **FHGE: Humanities**

INTRODUCTION TO ASIAN ART ART 2F

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in ART 12. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1.5 hours laboratory. (66 hours total per quarter.)

An introduction to the art of India, China and Japan from the Neolithic Age to the present, covering painting, sculpture, architecture and ceramics. This course emphasizes the cultural, social and historical meaning of art and traces the changes in style, meaning, and use of art within the broader context of the great religious traditions of China, Japan, and India. FHGE: Humanities Transferable: CSU/UC

ART 2J AMERICAN ART

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in ART 14. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1.5 hours laboratory. (66 hours total per quarter.)

A history of the culturally diverse arts produced in North America (specifically the United States) from prehistory to the present. American art is considered thematically and chronologically, focusing on the important influences on art of nature, landscape, urbanization, gender, race, religion, ethnicity, socio-economic and political reforms, and civil and international wars.

FHGE: Humanities Transferable: CSU/UC

ART 3 HISTORY OF MODERN ART FROM POST-IMPRESSIONISM TO THE PRESENT

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1.5 hours laboratory. (66 hours total per quarter.) A study of art and architecture from Post-Impressionism to the present day emphasizing the importance of social, economic, and political influences on the art of this period. This course is designed to relate contemporary artistic expression to modern thought. Lectures will be directed towards illustrating and interpreting the subjects listed in the course content. We will study painting, sculpture, architecture, conceptual art, environmental art, and modern digital media from across the world. A field trip will be taken to a museum.

FHGE: Non-GE Applicable

ART 4A FUNDAMENTALS IN DRAWING

4.5 Units

4.5 Units

4.5 Units

4 Units

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

In this beginning-level drawing course, students will analyze form and incorporate value, the concepts of light and shadow patterns, perspective, proportion and composition in the practice of drawing. In-depth theory and practice of charcoal drawing. Great works of historical drawings will be studied in relation to value, line, form, space and composition. FHGE: Humanities Transferable: CSU/UC

INTERMEDIATE DRAWING **ART 4B** 4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Drawing family of activity courses. Grade Type: Letter Grade Only Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Exploration of artistic concepts, styles, and creative expression related to intermediate-level drawing, focusing on complex subject matter and concepts, using a variety of color drawing media, techniques, and methodologies. Students in this course will build on fundamental drawing skills to develop personalized approaches to content and materials in exercises covering multiple historical and contemporary approaches to drawing. FHGE: Non-GE Applicable Transferable: CSU/UC

ART 4C REPRESENTATIONAL DRAWING 4 Units Degree & Credit Status: Degree-applicable credit course

Advisory: This course is included in the Drawing family of activity courses. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.) An intermediate-level representational drawing course concentrating on observation and depiction of volume, texture and linear perspective in a variety of drawing media. Transferable: CSU/UC

FHGE: Non-GE Applicable

FIGURE DRAWING I

4 Units

4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Drawing family of activity courses. Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.) Beginning drawing course focusing on the representation and interpretation of the human figure, with attention to drawing from life. Transferable: CSU/UC FHGE: Non-GE Applicable

ART 4E **HEADS & HANDS DRAWING**

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Drawing family of activity courses. Grade Type: Letter Grade or Pass/No Pass

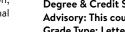
Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.) Beginning drawing course focusing on the representation and interpretation of the head and hands, with attention to drawing from life from a live

figure model.

FHGE: Non-GE Applicable

Transferable: CSU/UC



ART 4D

4.5 Units

4.5 Units

ART 4G **MURAL MAKING: COMMUNITY** ART PROJECT

Degree & Credit Status: Degree-applicable credit course

Advisory: ART 5A; not open to students with credit in ART 18 or 80. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

This studio art course introduces and involves students in painting a largescale collaborative community mural project. Students will generate ideas, plan preliminary mural sketches, design compositions, research cultural symbolism, scale images and paint a large-scale collaborative community painting. In addition, students will learn basic painting techniques and how to mix acrylic paint. This course will discuss how murals can be used to create social change, as well as explore the use of themes such as humanity, empowerment, community, personal and cultural identity. Lectures will analyze historical and contemporary events and movements depicted in murals, as well as significant mural artists. Transferable: CSU/UC

FHGE: Humanities

4 Units

4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Drawing family of activity courses. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per guarter.)

FIGURE DRAWING II

Intermediate figure drawing course emphasizing the development of drawing skills in depicting the human figure. This is a practical and theoretical course that emphasizes proportion and basic human anatomy. The course will also expose students to great works of historical and contemporary figure drawing in relationship to figure drawing and human anatomy. FHGE: Non-GE Applicable Transferable: CSU/UC

ART 5A

ART 4I

2-D FOUNDATIONS

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Introduction to the concepts, applications, and historical and contemporary references related to two-dimensional art and composition, including the study of the basic principles and elements of line, shape, texture, value, color and spatial illusion. Development of a visual vocabulary for creative expression through lecture presentations, studio projects, problem solving, and written assignments.

FHGE: Humanities

Transferable: CSU/UC

ART 5B

3-D FOUNDATIONS

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Introduction to the concepts, applications, and historical references related to three-dimensional design and spatial composition, including the study of the elements and organizing principles of design as they apply to three-dimensional space and form. Development of a visual vocabulary for creative expression through lecture presentations and use of appropriate materials for non-representational three-dimensional studio projects. Transferable: CSU/UC

FHGE: Humanities

SCULPTURE ART 5C

Degree & Credit Status: Degree-applicable credit course

Advisory: This course is included in the Sculpture family of activity courses. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Introduction to three-dimensional sculptural principles, techniques, and concepts, utilizing a wide range of materials and practices. Various sculpture methods are practiced with attention to creative self-expression and historical context.

FHGE: Non-GE Applicable

Transferable: CSU/UC

ART 15A DIGITAL PAINTING I

Degree & Credit Status: Degree-applicable credit course

Advisory: Familiarity with current interface operations for desktop computers, laptops and digital tablets; not open to students with credit in ART 14C or 86.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.) Basic instruction using computers, digital tablets and software to produce digital paintings and images for artistic expression, design and illustration. FHGE: Non-GE Applicable Transferable: CSU/UC

DIGITAL PAINTING II 4 Units **ART 15B**

Degree & Credit Status: Degree-applicable credit course Advisory: Familiarity with current interface operations for desktop computers, laptops and digital tablets.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Intermediate instruction using computers, digital tablets and software to produce digital paintings and images for artistic expression, design and illustration.

FHGE: Non-GE Applicable Transferable: CSU/UC

ART 15D DIGITAL ILLUSTRATION FOR 4 Units **FILM & ANIMATION**

Degree & Credit Status: Degree-applicable credit course Prerequisite: ART 15A.

Advisory: GID 37; familiarity with current interface operations for desktop computers, laptops and digital tablets.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Advanced instruction using computers, digital tablets and software to produce digital illustrations, sketches, images, and drawings for artistic expression and design focused for live-action film and feature film animation media. Emphasis on skills and concepts related to human anatomy, gesture drawing, character design, and basic illustration, visual development, and composition principles.

FHGE: Non-GE Applicable Transferable: CSU/UC

OIL PAINTING I ART 19A

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Painting family of activity courses. Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.) Introduction to the theory and practice of basic oil painting, including the

use of value, color and light to model the three-dimensional form. FHGE: Non-GE Applicable Transferable: CSU/UC

ART 19B ACRYLIC PAINTING I

Degree & Credit Status: Degree-applicable credit course

Advisory: This course is included in the Painting family of activity courses. Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per guarter.)

Introduction to the theory and practice of basic acrylic painting, including the use of value, color and light to model the three-dimensional form. FHGE: Non-GE Applicable Transferable: CSU/UC

4 Units

4 Units

4 Units

4 Units

4 Units

Degree & Credit Status: Degree-applicable credit course			HANDBUILDING				
•		the Painting family of activit	y courses.	-	-	pplicable credit course	
Grade Type: Letter Grade Only			Advisory: This c	ourse is included i	n the Ceramic Construc	tion family of	
Not Repeatable.				activity courses			
	•	(72 hours total per quarter.)		Grade Type: Let	ter Grade or Pass/	'No Pass	
, ,		liate oil painting. Building on		Not Repeatable			
		onalized style, complex subje	ct matter,			y. (72 hours total per qu	
color theory and						nand-building techniques	,
FHGE: Non-GE	Applicable	Transferable: CSU/UC				nce. This course will intr	
						ig pinching, coil, and slab	
ART 19D	ACRYLIC PAI	INTING II	4 Units			ow-fire glazing technique	
Degree & Credit	: Status: Degree-apj	plicable credit course			-	uilt vessels students will	
•		the Painting family of activit	y courses.			clay, glaze and hand-bui	•
Grade Type: Lett	•					ocesses of historical and vill learn ceramic vocabu	
Not Repeatable.				,	nd written class cri		iary, and partici
		(72 hours total per quarter.)		FHGE: Non-GE		Transferable: CS	U/UC
	<i>,</i> ,	ainting and continuation of A				in and rendore. Co	
		nting skills to develop person	alized		DECINININ	CCEDAMICS	A 11
		theory and composition.		ART 45B			4 Un
FHGE: Non-GE	Аррисаріе	Transferable: CSU/UC		Dograc & Cradi	POTTER'S \		
						pplicable credit course n the Ceramic Construc	tion family of
ART 20A	COLOR I		4 Units	activity courses		in the Ceraniic Construct	cion raining of
		plicable credit course		,	ter Grade or Pass/	'No Pass	
Grade Type: Lett				Not Repeatable			
Not Repeatable.		(7) have been in a second secon		•		y. (72 hours total per qu	arter.)
	-	(72 hours total per quarter.)				e potter's wheel, and its	
<i>,</i> ,		nd applications of additive ar			-	ourse will introduce the p	
	•	will include color theory syste			-	wall, shaping processes,	-
	design as they apply	duction of projects in applied				iced forms on the potter	-
FHGE: Non-GE	• • • • • •	Transferable: CSU/UC				throwing, students will e	
						iques, tools, ceramic ter	
			4 Units			nporary thrown clay vess	
ART 20B	COLOR II	nlicable credit course	4 Units			nd written class critique	s.
		plicable credit course		FHGE: Humanit	ies Tra	ansferable: CSU/UC	
Prerequisite: AR Grade Type: Lett	ter Grade or Pass/N	o Pass					
Not Repeatable.		0 1 033		ART 45C	ADVANCE	D CERAMICS	4 Un
•		(72 hours total per quarter.)		Degree & Credi	t Status: Degree-a	pplicable credit course	
	•	bles, theories, and application			RT 45A and 45B.		
		Topics will include researching		Advisory: This c	ourse is included i	n the Ceramic Construc	tion family of
		ks and color symbolism. Topic	- ,	activity courses			
		simultaneous contrast, color		••	ter Grade or Pass/	'No Pass	
	proportions in crea		1	Not Repeatable			_
FHGE: Humaniti		sferable: CSU/UC				y. (72 hours total per qu	
					-	dvanced forms on the po	
ART 44	CERAMIC SC		4 Units	-		hrown forms, glazing the	ese forms, and
		plicable credit course		-	iln loading and firi	• •	
Prerequisite: AR				FHGE: Non-GE	Applicable	Transferable: CS	U/UC
•		the Ceramic Construction fa	milv of				
activity courses.			·· , -·	ART 45F		PERATURE CERAMIC	4 Un
Grade Type: Letter Grade or Pass/No Pass				FIRING & G			
Not Repeatable.					TECHNIQU		
•		(72 hours total per quarter.)				pplicable credit course	
		ating original ceramic sculptu		Prerequisite: AF			
FHGE: Non-GE	0 0	Transferable: CSU/UC		•	ourse is included i	n the Ceramic Surface f	amily of activity
				courses.			
				Grade Type: Let	ter Grade or Pass/	No Pass	

4 Units

ART 45A

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.) Studio practice in the glazing and firing of ceramic pieces using four low-temperature methods: electric kiln oxidation firing, luster firing, raku firing and pit firing. Transferable: CSU/UC

FHGE: Non-GE Applicable

4 Units

rter.)

4 Units

Grade Type: Letter Grade or Pass/No Pass

FOOTHILL COLLEGE

Degree & Credit Status: Degree-applicable credit course the Painting family of activit **TI** •

BEGINNING CERAMICS HANDBUILDING **..**. . . .

4 Units

maximum of 6 units of Independent Study per department.				
FHGE: Non-GE Applicable	Transferable: CSU			

ASTRONOMY

4 Units

4 Units

4 Units

1 Unit

2 Units

3 Units

4 Units

Physical Sciences, Mathematics & Engineering 650.949.7259 foothill.edu/astronomy/

ASTR 10A GENERAL ASTRONOMY: SOLAR 5 Units SYSTEM

Degree & Credit Status: Degree-applicable credit course Advisory: Concurrent enrollment in ASTR 10L. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Non-technical introduction to astronomy, with emphasis on the planets, dwarf planets, moons, and smaller bodies which make up our solar system, as well as the scientific search for life elsewhere in the universe. Topics include the nature of light, the atom, and telescopes; an examination of the planets and their moons and rings, dwarf planets, comets, asteroids, and meteors; catastrophic events (including the impact that may have killed the dinosaurs); the search for planets and life around other stars, the challenges of space travel, and modern views on extraterrestrial contact. No background in science or math is assumed.

FHGE: Natural Sciences

Transferable: CSU/UC

ASTR 10B GENERAL ASTRONOMY: STARS, 5 Units GALAXIES, COSMOLOGY

Degree & Credit Status: Degree-applicable credit course Advisory: Concurrent enrollment in ASTR 10L; not open to students with credit in ASTR 10BH.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable. 5 hours lecture. (60 hours total per quarter.)

Non-technical introduction to astronomy, with emphasis on stars, galaxies, and the origin and evolution of the universe. Topics covered include the nature of light, atoms, and telescopes; the birth, evolution, and death of stars (including an introduction to black holes); the Milky Way Galaxy and its development over time; normal galaxies, active galaxies, and cannibal galaxies; and the Big Bang model (of the origin and ultimate fate of the cosmos). No background in science or math is assumed.

FHGE: Natural Sciences Transferable: CSU/UC

ASTR 10BH HONORS GENERAL ASTRONOMY: 5 Units STARS, GALAXIES, COSMOLOGY

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Honors Institute participant.

Advisory: Concurrent enrollment in ASTR 10L; not open to students with credit in ASTR 10B.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Non-technical introduction to astronomy, focusing on qualitative reasoning about stars, galaxies, and the origin and evolution of the universe. Topics include: the nature of light, matter, and telescopes; the basic physical processes of the universe; the formation and death of stars and their role in producing the elements necessary for life (including an introduction to black holes); the Milky Way and other galaxies, their structure, formation, and evolution; the history, evolution, and structure of the universe from the Big Bang to the heat death of the universe; the impact of astronomical events on life on Earth. The honors section offers a challenging intellectual environment which covers the same outline as the general course but in more depth.

FHGE: Natural Sciences

Transferable: CSU/UC

ART 46B

Degree & Credit Status: Degree-applicable credit course Prerequisite: ART 45B.

Advisory: This course is included in the Ceramic Construction family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Grade Type: Letter Grade or Pass/No Pass

techniques of painting and composition.

Grade Type: Letter Grade or Pass/No Pass

Grade Type: Letter Grade or Pass/No Pass

FHGE: Non-GE Applicable

Prerequisite: ART 47A.

Not Repeatable.

design.

ART 70R

ART 71R

ART 72R

ART 73R

Not Repeatable.

ing family of activity courses.

FHGE: Non-GE Applicable

Not Repeatable.

Not Repeatable.

ART 47B

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

POTTER'S WHEEL II

Provides intermediate level instruction in clay processes covering intermediate wheel-throwing methods, glazing, decorating, and firing procedures. Explores technical problem solving, and creative design.

FHGE: Non-GE Applicable Transferable: CSU; UC Pending

Advisory: ART 4A or 5A; ART 4B, 20A; this course is included in the Paint-

ing family of activity courses; not open to students with credit in ART 47.

Study of transparent and opaque watercolor techniques. Emphasis on basic

Advisory: ART 4A or 5A; ART 4B, 20A; this course is included in the Paint-

Study of intermediate techniques using transparent and opaque water-me-

INDEPENDENT STUDY IN ART

dia. Emphasis on intermediate techniques of painting, composition, and

Transferable: CSU/UC

Transferable: CSU/UC

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

WATERCOLOR II

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Degree & Credit Status: Degree-applicable credit course

Degree & Credit Status: Degree-applicable credit course

3-12 hours laboratory per week. (36-144 hours total per quarter.)

Provides an opportunity for the student to expand their studies in Art

beyond the classroom by completing a project or an assignment arranged

by agreement between the student and instructor. The student is required

to contract with the instructor to determine the scope of assignment and

the unit value assigned for successful completion. Students may take a

ART 47A WATERCOLOR I Degree & Credit Status: Degree-applicable credit course

ASTR 10L ASTRONOMY LABORATORY

1 Unit

Degree & Credit Status: Degree-applicable credit course Corequisite: Completion of or concurrent enrollment in ASTR 10A, 10B or 10BH.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

A hands-on approach to the scientific method, using astronomical data and equipment. Divided into small lab groups, students will do experiments and observing projects about a range of astronomical topics, including the phases of the Moon, the reasons for the seasons, the rotation, revolution, and sphericity of the Earth, and the scale and composition of astronomical objects. Students will carry out naked-eye observations of the sky, visit the Foothill observatory, and use a portable telescope to communicate about astronomy with other students and the public.

FHGE: Natural Sciences Transferable: CSU/UC

HONORS INSTITUTE SEMINAR ASTR 54H 1 Unit IN ASTRONOMY

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant. Corequisite: ASTR 10BH.

Advisory: Not open to students with credit in ASTR 34 or 34H. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

In this honors seminar, students build upon topics covered in Astronomy lecture courses by developing a presentation, piece of writing, video, or some other creative piece to teach others about an astronomical phenomenon. The course emphasizes learning how to carry out effective background research, process that information for understanding, and refine that understanding by preparing material to explain the phenomena to others (i.e., "To teach is to learn twice over").

FHGE: Non-GE Applicable

Transferable: CSU

ASTR 70R	INDEPENDENT STUDY IN	1 Unit
	ASTRONOMY	
ASTR 71R		2 Units
ASTR 72R		3 Units
ASTR 73R		4 Units
Degree & Credit	t Status: Degree-applicable credit course	
Grade Type: Let	ter Grade or Pass/No Pass	

Not Repeatable.

3-12 hours laboratory per week. (36-144 hours total per quarter.)

Provides an opportunity for the student to expand their studies in Astronomy beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department. FHGE: Non-GE Applicable **Transferable: CSU**

ATHLETICS

Kinesiology and Athletics

650.949.7742 foothill.edu/athletics/

ATHL 4	INTERCOLLEGIATE FOOTBALL	2 Units
	I (MEN)	

Degree & Credit Status: Degree-applicable credit course Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules. Grade Type: Letter Grade or Pass/No Pass

May be taken six times for credit.

6 hours laboratory. (72 hours total per quarter.)

Competitive intercollegiate football emphasizing early season conditioning, development of skills and strategy, and team building through pre-conference and conference competition. Intended for participants of the men's football team.

FHGE: Lifelong Understanding

Transferable: CSU/UC

PRESEASON CONDITIONING ATHL 4A 2 Units FOR FOOTBALL

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass

May be taken six times for credit.

6 hours laboratory. (72 hours total per quarter.)

The development of athletic skills and mental conditioning which is required to be successful in the intercollegiate sport of football.

FHGE: Lifelong Understanding Transferable: CSU/UC

ATHL 4B	SPORT TECHNIQUES &	2 Units
	CONDITIONING FOR FOOTBALL	
Degree & Credit St	atus: Degree-applicable credit course	

Grade Type: Letter Grade or Pass/No Pass

May be taken six times for credit.

6 hours laboratory. (72 hours total per quarter.)

This course teaches and provides practice specific techniques and conditioning for the sport of football. This includes drills, weight and flexibility training, and cardio-respiratory development.

FHGE: Lifelong Understanding Transferable: CSU/UC

ATHL 4C FUNCTIONAL FITNESS FOR 1 Unit FOOTBALL Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass May be taken six times for credit. 3 hours laboratory. (36 hours total per quarter.)

This course will provide advanced training and instruction in the use of

weights for the sport of football.

FHGE: Lifelong Understanding Transferable: CSU/UC

ATHL 4E INTERCOLLEGIATE FOOTBALL (MEN)

Degree & Credit Status: Degree-applicable credit course Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules. Grade Type: Letter Grade or Pass/No Pass

May be taken six times for credit.

3 hours laboratory. (36 hours total per quarter.)

Competitive intercollegiate football working toward personal and physical development, athletic scholarship, transfer, and career opportunities. Intended for participants of the men's football team. FHGE: Lifelong Understanding Transferable: CSU/UC

ATHL 4F INTERCOLLEGIATE FOOTBALL 3 Units

II (MEN) Degree & Credit Status: Degree-applicable credit course

Grade Type: Letter Grade or Pass/No Pass

May be taken six times for credit.

9 hours laboratory. (108 hours total per quarter.)

Competitive intercollegiate football emphasizing athletic skill and strategy development and performance through conference and post-conference competition. Intended for participants of the men's football team. FHGE: Lifelong Understanding Transferable: CSU/UC

ATHL 11 **INTERCOLLEGIATE** 3 Units **BASKETBALL I (MEN)**

Degree & Credit Status: Degree-applicable credit course Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules. Grade Type: Letter Grade or Pass/No Pass

May be taken six times for credit.

9 hours laboratory. (108 hours total per guarter.)

Competitive intercollegiate men's basketball emphasizing early season conditioning, development of skills and strategy, and team building through pre-conference and conference competition. Intended for participants of the men's basketball team.

FHGE: Lifelong Understanding

Transferable: CSU/UC

ATHL 11A PRESEASON CONDITIONING 2 Units FOR MEN'S BASKETBALL

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass

May be taken six times for credit.

6 hours laboratory. (72 hours total per quarter.)

The development of athletic skills and mental conditioning which is required to be successful in the intercollegiate sport of basketball.

FHGE: Lifelong Understanding Transferable: CSU/UC

ATHL 11B

SPORT TECHNIQUES & CONDITIONING FOR **MEN'S BASKETBALL**

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass May be taken six times for credit.

6 hours laboratory. (72 hours total per quarter.)

This course teaches and provides practice specific techniques and conditioning for the sport of basketball. This includes drills, weight and flexibility training, and cardio-respiratory development.

FHGE: Lifelong Understanding Transferable: CSU/UC ATHL 12

1 Unit

INTERCOLLEGIATE **BASKETBALL I (WOMEN)**

Degree & Credit Status: Degree-applicable credit course Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules. Grade Type: Letter Grade or Pass/No Pass

May be taken six times for credit.

9 hours laboratory. (108 hours total per quarter.)

Competitive intercollegiate women's basketball emphasizing early season conditioning, development of skills and strategy, and team building through pre-conference and conference competition. Intended for participants of the women's basketball team. FHGE: Lifelong Understanding Transferable: CSU/UC

PRESEASON CONDITIONING ATHL 12A 2 Units FOR WOMEN'S BASKETBALL Degree & Credit Status: Degree-applicable credit course

Grade Type: Letter Grade or Pass/No Pass

May be taken six times for credit.

6 hours laboratory. (72 hours total per quarter.)

The development of athletic skills and mental conditioning which is required to be successful in the intercollegiate sport of basketball. FHGE: Lifelong Understanding Transferable: CSU/UC

ATHL 12B	SPORT TECHNIQUES &	2 Units
	CONDITIONING FOR	
	WOMEN'S BASKETBALL	

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass

May be taken six times for credit.

6 hours laboratory. (72 hours total per quarter.)

This course teaches and provides practice specific techniques and conditioning for the sport of basketball. This includes drills, weight and flexibility training, and cardio-respiratory development. Transferable: CSU/UC

FHGE: Lifelong Understanding

ATHL 12E	INTERCOLLEGIATE	1 Unit
	BASKETBALL (WOMEN)	

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass

May be taken six times for credit.

3 hours laboratory. (36 hours total per quarter.)

Competitive intercollegiate women's basketball working toward personal and physical development, athletic scholarship, transfer, and career opportunities. Intended for participants of the women's basketball team. FHGE: Lifelong Understanding Transferable: CSU/UC

INTERCOLLEGIATE SOCCER I ATHL 21 2 Units (MEN)

Degree & Credit Status: Degree-applicable credit course Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules. Grade Type: Letter Grade or Pass/No Pass

May be taken six times for credit.

6 hours laboratory. (72 hours total per quarter.)

Competitive intercollegiate soccer emphasizing early season conditioning, development of skills and strategy, and team building through pre-conference and conference competition. Intended for participants of the men's soccer team.

FHGE: Lifelong Understanding

Transferable: CSU/UC

2 Units

COURSE CATALOG 2020-2021

	FOR MEN'S S	OCCER			FOR WOME	N'S SOCCI	
Degree & Credit	t Status: Degree-app	licable credit course		Degree & Credi	t Status: Degree-ap	plicable cre	
Grade Type: Let	ter Grade or Pass/No	o Pass		Grade Type: Letter Grade or Pass/No Pass			
May be taken siz	x times for credit.			May be taken si	x times for credit.		
6 hours laborate	ory. (72 hours total p	er quarter.)		6 hours laborate	ory. (72 hours total	per quarter.	
The developmer	nt of athletic skills an	d mental conditioning wh	nich is required	The developmer	The development of athletic skills and mental co		
to be successful in the intercollegiate sport of soccer.				to be successful	in the intercollegia	te sport of s	
FHGE: Lifelong	Understanding	Transferable: CSU/	UC	FHGE: Lifelong	Understanding	Trans	
ATHL 21B	SPORT TECH CONDITIONI MEN'S SOCC	NGFOR	2 Units	ATHL 22B	SPORT TECH CONDITION WOMEN'S S	ING FOR	
Degree & Credit	t Status: Degree-app	licable credit course		Degree & Credi	t Status: Degree-ap	plicable cre	
Grade Type: Let	ter Grade or Pass/No	o Pass		Grade Type: Letter Grade or Pass/No Pass May be taken six times for credit.			
May be taken siz	x times for credit.						
6 hours laboratory. (72 hours total per quarter.)				6 hours laboratory. (72 hours total per quarter			
This course teac	hes and provides pra	ctice specific techniques	and condi-	This course teaches and provides practice spec			
tioning for the s	port of soccer. This i	ncludes drills, weight and	flexibility	tioning for the sport of soccer. This includes dr			
training, and car	dio-respiratory deve			training, and car	dio-respiratory dev	elopment.	
FHGE: Lifelong	Understanding	Transferable: CSU/	UC	FHGE: Lifelong	Understanding	Trans	
ATHL 21C	FUNCTIONA MEN'S SOCC	L FITNESS FOR ER	1 Unit	ATHL 22C	FUNCTIONA WOMEN'S S		
Degree & Credit	t Status: Degree-app	licable credit course		Degree & Credit Status: Degree-applicable		plicable cre	
Grade Type: Let	ter Grade or Pass/No	o Pass		Grade Type: Letter Grade or Pass/No Pass May be taken six times for credit.			
May be taken siz	x times for credit.						
3 hours laboratory. (36 hours total per quarter.) This course will provide advanced training and instruction in the use of			3 hours laboratory. (36 hours total per quart				
			This course will	provide advanced tr	aining and i		
weights for the s	sport of soccer.			weights for the	sport of soccer.		
FHGE: Lifelong	Understanding	Transferable: CSU/	UC	FHGE: Lifelong	Understanding	Trans	
ATHL 21F	INTERCOLLE (MEN)	GIATE SOCCER II	3 Units	ATHL 22F	INTERCOLLI (WOMEN)	EGIATE SC	
Degree & Credit	t Status: Degree-app	licable credit course		Degree & Credi	t Status: Degree-ap	plicable cre	
egice a cicali statasi segice applicable cicali course							

Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules. Grade Type: Letter Grade or Pass/No Pass

PRESEASON CONDITIONING

May be taken six times for credit.

ATHL 21A

9 hours laboratory. (108 hours total per quarter.)

Competitive intercollegiate soccer emphasizing athletic skill and strategy development and performance through conference and post-conference competition. Intended for participants of the men's soccer team. FHGE: Lifelong Understanding Transferable: CSU/UC

INTERCOLLEGIATE SOCCER I 2 Units ATHL 22 (WOMEN)

Degree & Credit Status: Degree-applicable credit course Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules. Grade Type: Letter Grade or Pass/No Pass

May be taken six times for credit.

6 hours laboratory. (72 hours total per quarter.)

Competitive intercollegiate soccer emphasizing early season conditioning, development of skill and strategy, and team building through pre-conference and conference competition. Intended for participants of the women's soccer team.

FHGE: Lifelong Understanding

Transferable: CSU/UC

ATHL 22A

2 Units

PRESEASON CONDITIONING CFR

2 Units

edit course

r.)

conditioning which is required soccer.

sferable: CSU/UC

2 Units & edit course r.)

cific techniques and condirills, weight and flexibility

sferable: CSU/UC

ATHL 22C	FUNCTIONAL FITNESS FOR WOMEN'S SOCCER	1 Unit
D		

edit course

instruction in the use of

sferable: CSU/UC

OCCER II 3 Units

edit course Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules. Grade Type: Letter Grade or Pass/No Pass

May be taken six times for credit.

9 hours laboratory. (108 hours total per quarter.)

Competitive intercollegiate soccer emphasizing athletic skill and strategy development and performance through conference and post conference competition. Intended for participants of the women's soccer team. FHGE: Lifelong Understanding Transferable: CSU/UC

ATHL 31 INTERCOLLEGIATE SOFTBALL 3 Units I (WOMEN)

Degree & Credit Status: Degree-applicable credit course Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules. Grade Type: Letter Grade or Pass/No Pass

May be taken six times for credit.

9 hours laboratory. (108 hours total per quarter.)

Competitive intercollegiate softball emphasizing early season conditioning, development of skills and strategy, and team building through pre-conference and conference competition. Intended for participants of the women's softball team with previous high school, club or collegiate softball playing experience.

FHGE: Lifelong Understanding

ATHL 31A	PRESEASON	CONDITIONING	2 Units	ATHL 32	INTERCOLLEG	IATE SWIMMING	3 Units
	FOR SOFTBA				I (MEN & WON	-	
-	t Status: Degree-app			•	: Status: Degree-appli		
	ter Grade or Pass/No	Pass				thletic tryout for interco	
•	x times for credit.				-	th permission of the inst	
	ory. (72 hours total pe	•		Students will be	required to have a ph	ysical prior to participati	on in the
The development	nt of athletic skills and	d mental conditioning whic	h are re-	class. Students v	will be required to ach	ieve and maintain sport-	specific
quired to be suc	cessful in the interco	llegiate sport of softball.		performance sta	andards as evaluated b	y the instructor. Continu	ued eligibility
FHGE: Lifelong	Understanding	Transferable: CSU/UC	2	is determined by	y appropriate CCCAA	academic and decorum r	ules.
					ter Grade or Pass/No I	Pass	
ATHL 31B	SPORT TECH	NIOUES &	2 Units	May be taken siz	c times for credit.		
		NG FOR SOFTBALL			ory. (108 hours total p	•	
Degree & Credi	t Status: Degree-app	licable credit course				emphasizing early seaso	
-	ter Grade or Pass/No					tegy, and team building t	
	x times for credit.			pre-conference	and conference comp	etition. Intended for part	icipants of
•	ory. (72 hours total pe	er quarter.)			en's swimming team.		
		ctice specific techniques ar	nd condi-	FHGE: Lifelong	Understanding	Transferable: CSU/U	С
tioning for the s	port of softball. This i	ncludes drills, weight and f	lexibility				
	dio-respiratory devel		,	ATHL 32A	PRESEASON C	ONDITIONING	2 Units
FHGE: Lifelong	Understanding	Transferable: CSU/UC	2		FOR SWIMMIN	IG	
				Degree & Credit	: Status: Degree-appli	cable credit course	
ATHL 31C	FUNCTIONAL	FITNESS FOR	1 Unit	Grade Type: Let	ter Grade or Pass/No I	Pass	
/	SOFTBALL			May be taken six	times for credit.		
Degree & Credi	t Status: Degree-app	licable credit course		6 hours laborate	ory. (72 hours total pe	r quarter.)	
	ter Grade or Pass/No			The developmer	t of athletic skills and	mental conditioning which	ch is required
	x times for credit.			to be successful	in the intercollegiate	sport of swimming.	
	ory. (36 hours total p	er quarter.)		FHGE: Lifelong	Understanding	Transferable: CSU/U	с
		ining and instruction in the	use of				
	sport of softball.			ATHL 32C	FUNCTIONAL	FITNESS FOR	1 Unit
FHGE: Lifelong		Transferable: CSU/UC	:		SWIMMING		
	•			Degree & Credit	Status: Degree-appli	cable credit course	
ATHL 31E		GIATE SOFTBALL	1 Unit	-	ter Grade or Pass/No I		
	(WOMEN)	SIATE SOTTBALL	1 Onit		c times for credit.		
Degree & Credi	t Status: Degree-app	licable credit course		3 hours laborato	ory. (36 hours total pe	r quarter.)	
	ter Grade or Pass/No			This course will p	provide advanced train	ing and instruction in the	e use of
••	x times for credit.	1 633		weights for the sport of swimming.			
•	ory. (36 hours total p	er quarter)		FHGE: Lifelong	Understanding	Transferable: CSU/U	с
	• •	vorking toward personal an	d physi-				
	-	, transfer, and career oppo		ATHL 32F	INTERCOLLEG	IATE SWIMMING	2 Units
•		en's softball team with prev			II (MEN & WO		2 011113
	collegiate softball play		ious ingli	Degree & Credit	Status: Degree-appli		
FHGE: Lifelong		Transferable: CSU/UC	•	-	• • •	thletic tryout for interco	llegiate
inter fireforg	enderstanding		-			th permission of the inst	
ATU 015			211.11.		•	ysical prior to participati	
ATHL 31F		GIATE SOFTBALL	2 Units		•	ieve and maintain sport-	
D	II (WOMEN)					•	•
	t Status: Degree-app			performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules.			
•		Athletic tryout for intercol	-		ter Grade or Pass/No I		
		vith permission of the instr			times for credit.		
		hysical prior to participation		•		r quarter.)	
		hieve and maintain sport-s		6 hours laboratory. (72 hours total per quarter.) Competitive intercollegiate swimming emphasizing athletic skill and			
•		by the instructor. Continu		strategy development and performance through conference and post-con-			
	y appropriate CCCAA ter Grade or Pass/No	A academic and decorum ru	ues.	ference competition. Intended for participants of the men's/women's			

Grade Type: Letter Grade or Pass/No Pass May be taken six times for credit.

6 hours laboratory. (72 hours total per quarter.)

Competitive intercollegiate softball emphasizing athletic skill and strategy development and performance through conference and post-conference competition. Intended for participants of the women's softball team with previous high school, club or collegiate softball playing experience. FHGE: Lifelong Understanding Transferable: CSU/UC

Transferable: CSU/UC

swimming team.

FHGE: Lifelong Understanding

ATHL 33 INTERCOLLEGIATE WATER POLO I (WOMEN)

Degree & Credit Status: Degree-applicable credit course Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules. Grade Type: Letter Grade or Pass/No Pass

May be taken six times for credit.

6 hours laboratory. (72 hours total per quarter.)

Competitive intercollegiate water polo emphasizing early season conditioning, development of skills and strategy, and team building through pre-conference and conference competition. Intended for participants of the women's water polo team.

FHGE: Lifelong Understanding

Transferable: CSU/UC

ATHL 33A PRESEASON CONDITIONING 2 Units FOR WOMEN'S WATER POLO

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass May be taken six times for credit.

6 hours laboratory. (72 hours total per quarter.)

The development of athletic skills and mental conditioning which is required to be successful in the intercollegiate sport of water polo. FHGE: Lifelong Understanding Transferable: CSU/UC

ATHL 33B SPORT TECHNIQUES & 2 Units CONDITIONING FOR WOMEN'S WATER POLO

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass May be taken six times for credit.

6 hours laboratory. (72 hours total per quarter.)

This course teaches and provides practice specific techniques and conditioning for the sport of water polo. This includes drills, weight and flexibility training, and cardio-respiratory development.

FHGE: Lifelong Understanding Transferable: CSU/UC

ATHL 33CFUNCTIONAL FITNESS FOR
WOMEN'S WATER POLO1Degree & Credit Status: Degree-applicable credit course
Grade Type: Letter Grade or Pass/No Pass
May be taken six times for credit.
3 hours laboratory. (36 hours total per quarter.)
This course will provide advanced training and instruction in the use of
weights for the sport of water polo.1

FHGE: Lifelong Understanding Transferable: CSU/UC

ATHL 33F INTERCOLLEGIATE WATER 3 Units POLO II (WOMEN)

Degree & Credit Status: Degree-applicable credit course Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules. Grade Type: Letter Grade or Pass/No Pass

May be taken six times for credit.

9 hours laboratory. (108 hours total per quarter.)

Competitive intercollegiate water polo emphasizing athletic skill and strategy development and performance through conference and post-conference competition. Intended for participants of the women's water polo

team. FHGE: Lifelong Understanding

Transferable: CSU/UC

2 Units ATHL 41A

INTERCOLLEGIATE SAND VOLLEYBALL I (WOMEN)

Degree & Credit Status: Degree-applicable credit course Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules. Grade Type: Letter Grade or Pass/No Pass

May be taken six times for credit.

6 hours laboratory. (72 hours total per quarter.)

Competitive intercollegiate sand volleyball emphasizing early season conditioning, development of skills and strategy, and team building through pre-conference and conference competition. Intended for participants of the women's sand volleyball team.

FHGE: Lifelong Understanding Transferable: CSU/UC
ATHL 41B INTERCOLLEGIATE SAND 3

VOLLEYBALL II (WOMEN)

3 Units

2 Units

2 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules. Grade Type: Letter Grade or Pass/No Pass

May be taken six times for credit.

9 hours laboratory. (108 hours total per quarter.)

Competitive intercollegiate sand volleyball emphasizing athletic skill and strategy development and performance through conference and post-conference competition. Intended for participants of the women's sand volleyball team.

FHGE: Lifelong Understanding

Transferable: CSU/UC

ATHL 42 INTERCOLLEGIATE VOLLEYBALL I (WOMEN)

Degree & Credit Status: Degree-applicable credit course Advisory: Limitation on enrollment: Athletic tryout for intercollegiate

team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules. Grade Type: Letter Grade or Pass/No Pass

May be taken six times for credit.

6 hours laboratory. (72 hours total per quarter.)

Competitive intercollegiate volleyball emphasizing early season conditioning, development of skills and strategy, and team building through pre-conference and conference competition. Intended for participants of the women's volleyball team.

FHGE: Lifelong Understanding Transferable: CSU/UC

SPORT TECHNIQUES &

ATHL 42B

1 Unit

CONDITIONING FOR WOMEN'S VOLLEYBALL

Degree & Credit Status: Degree-applicable credit course

Grade Type: Letter Grade or Pass/No Pass

May be taken six times for credit.

6 hours laboratory. (72 hours total per quarter.)

This course teaches and provides practice specific techniques and conditioning for the sport of volleyball. This includes drills, weight and flexibility training, and cardio-respiratory development.

FHGE: Lifelong Understanding Transferable: CSU/UC

ATHL 42C FUNCTIONAL FITNESS FOR WOMEN'S VOLLEYBALL

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass May be taken six times for credit.

3 hours laboratory. (36 hours total per quarter.)

This course will provide advanced training and instruction in the use of weights for the sport of volleyball.

Transferable: CSU/UC

FHGE: Lifelong Understanding

ATHL 42F INTERCOLLEGIATE VOLLEYBALL II (WOMEN)

Degree & Credit Status: Degree-applicable credit course

Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules. Grade Type: Letter Grade or Pass/No Pass

May be taken six times for credit.

9 hours laboratory. (108 hours total per quarter.)

Competitive intercollegiate volleyball emphasizing athletic skill and strategy development and performance through conference and post-conference competition. Intended for participants of the women's volleyball team. FHGE: Lifelong Understanding Transferable: CSU/UC

3 Units **INTERCOLLEGIATE TENNIS I** ATHL 44 (MEN)

Degree & Credit Status: Degree-applicable credit course Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules. Grade Type: Letter Grade or Pass/No Pass

May be taken six times for credit.

9 hours laboratory. (108 hours total per quarter.)

Competitive intercollegiate tennis emphasizing preseason conditioning, development of skills and strategies and team building through pre-conference and conference competition. Intended for participants of the men's tennis team.

PRESEASON CONDITIONING

FHGE: Lifelong Understanding

Transferable: CSU/UC

2 Units

2 Units

180

FOR MEN'S TENNIS Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass

May be taken six times for credit.

6 hours laboratory. (72 hours total per quarter.)

The development of athletic skills and mental conditioning which is required to be successful in the intercollegiate sport of tennis.

FHGE: Lifelong Understanding Transferable: CSU/UC

ATHL 44B

ATHL 44A

SPORT TECHNIOUES & CONDITIONING FOR **MEN'S TENNIS**

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass May be taken six times for credit.

6 hours laboratory. (72 hours total per quarter.)

This course teaches and provides practice specific techniques and conditioning for the sport of tennis. This includes drills, weight and flexibility training, and cardio-respiratory development.

FHGE: Lifelong Understanding Transferable: CSU/UC 3 Units

FUNCTIONAL FITNESS FOR **MEN'S TENNIS**

Degree & Credit Status: Degree-applicable credit course

Grade Type: Letter Grade or Pass/No Pass May be taken six times for credit.

3 hours laboratory. (36 hours total per quarter.)

This course will provide advanced training and instruction in the use of weights for the sport of tennis.

FHGE: Lifelong Understanding Transferable: CSU/UC

ATHL 44F INTERCOLLEGIATE TENNIS II 2 Units (MEN)

Degree & Credit Status: Degree-applicable credit course

Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules. Grade Type: Letter Grade or Pass/No Pass

May be taken six times for credit.

6 hours laboratory. (72 hours total per quarter.)

Competitive intercollegiate tennis emphasizing athletic skill, strategy development and performance through conference and post-conference competition. Intended for participants of the men's tennis team. FHGE: Lifelong Understanding Transferable: CSU/UC

INTERCOLLEGIATE TENNIS I ATHL 45 3 Units (WOMFN)

Degree & Credit Status: Degree-applicable credit course Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules. Grade Type: Letter Grade or Pass/No Pass

May be taken six times for credit.

9 hours laboratory. (108 hours total per quarter.)

Competitive intercollegiate tennis emphasizing early season conditioning, development of skills and strategy, and team building through pre-conference and conference competition. Intended for participants on the women's tennis team.

FHGE: Lifelong Understanding Transferable: CSU/UC

PRESEASON CONDITIONING ATHL 45A 2 Units FOR WOMEN'S TENNIS Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass May be taken six times for credit. 6 hours laboratory. (72 hours total per quarter.) The development of athletic skills and mental conditioning, which is required to be successful in the intercollegiate sport of tennis. Transferable: CSU/UC FHGE: Lifelong Understanding

SPORT TECHNIOUES & 2 Units ATHL 45B CONDITIONING FOR WOMEN'S TENNIS

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass

May be taken six times for credit.

6 hours laboratory. (72 hours total per quarter.)

This course teaches and provides practice specific techniques and conditioning for the sport of tennis. This includes drills, weight and flexibility training, and cardio-respiratory development.

FHGE: Lifelong Understanding Transferable: CSU/UC

ATHL 45C FUNCTIONAL FITNESS FOR WOMEN'S TENNIS

FORM & FUNCTION IN PLANTS & ANIMALS Degree & Credit Status: Degree-applicable credit course

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass May be taken six times for credit.

3 hours laboratory. (36 hours total per quarter.)

This course will provide advanced training and instruction in the use of weights for the sport of tennis.

FHGE: Lifelong Understanding

Transferable: CSU/UC

ATHL 45F INTERCOLLEGIATE TENNIS II 2 Units (WOMEN)

Degree & Credit Status: Degree-applicable credit course

Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules. Grade Type: Letter Grade or Pass/No Pass

May be taken six times for credit.

6 hours laboratory. (72 hours total per quarter.)

Competitive intercollegiate tennis emphasizing athletic skill and strategy development and performance through conference and post-conference competition. Intended for participants of the women's tennis team. FHGE: Lifelong Understanding Transferable: CSU/UC

ATHL 70R	INDEPENDENT STUDY IN ATHLETICS	1 Unit
ATHL 71R		2 Units
ATHL 72R		3 Units
ATHL 73R		4 Units
Degree & Credit	Status: Degree-applicable credit course	
-		

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3-12 hours laboratory per week. (36-144 hours total per quarter.)

Provides an opportunity for students to expand their studies in Athletics beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department. Transferable: CSU

FHGE: Non-GE Applicable

BIOLOGY

Biological and Health Sciences 650.949.7249 foothill.edu/biology/

BIOL 1A PRINCIPLES OF CELL BIOLOGY

6 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: CHEM 1A or 1AH. Advisory: Students taking the biology majors' sequence (BIOL 1A, 1B, 1C,

1D) are strongly advised to take the sequence in its entirety. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 6 hours laboratory. (120 hours total per quarter.) An introduction to biological molecules, cellular structure and function, bioenergetics, the genetics of both prokaryotic and eukaryotic organisms, cell communication and signaling, the cell cycle, and elements of molecular biology. Intended for biology majors.

FHGE: Non-GE Applicable

Transferable: CSU/UC

Prerequisite: BIOL 1A. Advisory: Students taking the biology majors' sequence (BIOL 1A, 1B, 1C, 1D) are strongly advised to take the sequence in its entirety.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

BIOL 1B

4 hours lecture, 6 hours laboratory. (120 hours total per guarter.)

An introduction to the structure and physiological processes of plants and animals. Transport systems, reproduction, digestion, gas exchange, regulation of the internal environment, responses to external stimuli, nervous systems, hormones, and locomotion. Intended for biology majors. FHGE: Non-GE Applicable Transferable: CSU/UC

BIOL 1C EVOLUTION, SYSTEMATICS 6 Units & ECOLOGY

Degree & Credit Status: Degree-applicable credit course Prerequisite: BIOL 1B.

Advisory: Students taking the biology majors' sequence (BIOL 1A, 1B, 1C, 1D) are strongly advised to take the sequence in its entirety.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 6 hours laboratory. (120 hours total per quarter.) Principles of evolutionary theory, classification of organisms, and basic ecology. Phylogenetic survey of the major groups of organisms (bacteria, archaea, protistans, plants, animals and fungi) and their evolutionary history. Intended for biology majors.

FHGE: Non-GE Applicable Transferable: CSU/UC

BIOL 1D INTRODUCTION TO MOLECULAR 4 Units GENETICS

Degree & Credit Status: Degree-applicable credit course Prerequisite: BIOL 1A.

Advisory: Students taking the biology majors' sequence (BIOL 1A, 1B, 1C, 1D) are strongly advised to take the sequence in order and in its entirety. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Intended for students wishing to transfer to a four year school with a major in molecular biology, biochemistry, or molecular genetics. An introduction to molecular genetics with an emphasis in genome organization, DNA replication and repair, mutation, transcription, translation and the regulation of gene expression.

FHGE: Non-GE Applicable

Transferable: CSU/UC

BIOL 8 **BASIC NUTRITION** 5 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Introductory nutrition course intended for non-science/health-career majors. Not intended for students wishing to pursue a career in health care. Basic biological function of nutrients. Nutritional needs throughout the life span. Relationship between nutrition and disease. Current scientific, social, and psychological issues and controversies in nutrition.

FHGE: Lifelong Understanding Transferable: CSU/UC

ENVIRONMENTAL BIOLOGY

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per guarter.)

An introduction to environmental biology and a survey of the biological and ecological principles needed to understand environmental issues. Global, national and local perspectives on current issues, such as resource use, pollution, biodiversity and impacts of human population growth. FHGE: Lifelong Understanding, Natural Sciences

ENVIRONMENTAL BIOLOGY

Transferable: CSU/UC

BIOL 9L

BIOL 9

LABORATORY

Degree & Credit Status: Degree-applicable credit course Corequisite: BIOL 9.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory; in-class field trips. (36 hours total per quarter.)

An introduction to environmental biology through laboratory and field experiments, examination of local examples illustrating ecological concepts, use of sampling techniques to assess environmental quality, and student research of environmental topics.

FHGE: Natural Sciences

Transferable: CSU/UC

BIOL 10 GENERAL BIOLOGY: BASIC 5 Units PRINCIPLES

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per guarter.) Methods of science and basic principles of biology. Special emphasis on genetics, ecology, overpopulation, nutrition and disease prevention. FHGE: Natural Sciences Transferable: CSU/UC

HUMAN GENETICS BIOL 12

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

An introduction to the nature of human inheritance. The molecular basis of inheritance, Mendelian genetics, population genetics, common human genetic diseases, factors affecting human diversity and the social and moral implications of recent advances in genetics. Intended for both majors and GE students.

FHGE: Lifelong Understanding

BIOL 13 MARINE BIOLOGY

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 3 hours laboratory; three all-day field trips. (84 hours total per quarter.)

An introduction to biology using marine animals, plants and ecosystems. Major emphasis given to the ecology and conservation issues with examples drawn from California marine life. Conceptual development of seashore, estuaries, coral reefs, kelp forests, and pelagic life as interrelated ecosystems. **FHGE: Natural Sciences** Transferable: CSU/UC

BIOL 14 HUMAN BIOLOGY

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per guarter.)

An introduction to biology using human beings as the exemplary organism. The evolution and biological unity of the human species and of all life forms; American and global patterns of human biological diversity; reproduction and heredity; how human organ systems function; humans and their environment; the uses and misuses of the scientific method; the scientific and biological bases for human equality.

FHGE: Natural Sciences

4 Units

1 Unit

4 Units

5 Units

Transferable: CSU/UC

BIOL 15	CALIFORNIA
	FCOLOGY/NAT

ECOLOGY/NATURAL HISTORY

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 3 hours laboratory; all-day field trips. (84 hours total per quarter.)

An introduction to ecology, natural history and field biology through the study, largely in an outdoor setting, of the plants and animals of the San Francisco Bay Area.

FHGE: Natural Sciences Transferable: CSU/UC

BIOL 40A HUMAN ANATOMY & 5 Units PHYSIOLOGY I

Degree & Credit Status: Degree-applicable credit course Prerequisite: One of the following: CHEM 1A, 1AH, 25, 30A, 30B or equiv-

alent. Advisory: BIOL 14 or equivalent; one of the following: ENGL 1A, 1AH, 1S & 1T or equivalent.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.)

Basic human anatomy and physiology. Emphasis on integration of systems and homeostatic mechanisms. Physical and chemical basis of life, histology and integumentary, skeletal and muscular systems. Designed for majors that require fundamental background in human anatomy and physiology. FHGE: Non-GE Applicable Transferable: CSU/UC

 HUMAN ANATOMY &	5 Units
PHYSIOLOGY II	

Degree & Credit Status: Degree-applicable credit course Prerequisite: BIOL 40A or equivalent.

Advisory: Completion of this course with a grade of "C" or higher is highly recommended.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

BIOL 40C

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.)

HUMAN ANATOMY &

Anatomy and physiology of the nervous system, cardiovascular system and respiratory system.

FHGE: Non-GE Applicable

Transferable: CSU/UC

5 Units

PHYSIOLOGY III

Degree & Credit Status: Degree-applicable credit course

Prerequisite: BIOL 40B or equivalent.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.)

Anatomy and physiology of the digestive system; metabolism; urinary system; fluid, electrolyte and acid/base balance; lymphatic system; endocrine system; and reproductive system.

FHGE: Non-GE Applicable

Transferable: CSU/UC

5 Units

BIOL 41 MICROBIOLOGY

Degree & Credit Status: Degree-applicable credit course

Prerequisite: CHEM 12A or 30A or equivalent.

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 6 hours laboratory. (120 hours total per quarter.)

Morphology and physiology of bacteria, fungi and viruses. Mechanisms of pathogenicity, host-parasite relationships, the immune response and principles of disease transmission. Techniques of microbial control including sterilization, aseptic procedures, use of disinfectants, antiseptics and chemotherapy.

FHGE: Natural Sciences	Transferable: CSU/UC

BIOL 45

INTRODUCTION TO HUMAN 4 Units

NUTRITION Degree & Credit Status: Degree-applicable credit course Prerequisite: BIOL 1A or 40A.

Advisory: One of the following: ENGL 1A, 1AH, or 1S & 1T. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Introduction to the medical aspects of nutrition, intended for students wishing to pursue a career in health care. Biological function and chemical classification of nutrients. Nutritional needs throughout the lifespan. Effects of nutritional deficiencies and excesses. Recommended nutrient intakes and the role of diet in the development of chronic disease. FHGE: Non-GE Applicable Transferable: CSU/UC

BIOL 54H HONORS INSTITUTE SEMINAR 1 Unit IN BIOLOGY

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant. Advisory: Not open to students with credit in BIOL 34 or 34H. Grade Type: Letter Grade Only Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

A seminar in directed readings, discussions and projects in biology. Specific topic to be determined by the instructor. This advanced honors course is open to all majors. This course satisfies one of the two honors seminar requirements for the Honors Scholar program.

FHGE: Non-GE Applicable Transferable: CSU

BIOL 81

LEARNERS ENGAGED IN 4 Units ADVOCATING FOR DIVERSITY

IN SCIENCE Degree & Credit Status: Degree-applicable credit course

Advisory: BIOL 1A, 40A, 41, or equivalent; ENGL 1A, 1AH, or 1S & 1T, or equivalent; MATH 17, 105, or equivalent, completed with a letter grade of "C" or better.

Grade Type: Letter Grade Only

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

This course is intended for students interested in equity, diversity, and inclusion in the sciences. Students will explore research on inclusion and diversity in biology and health science, as well as research on interventions to enhance inclusion and diversity in those fields in higher education contexts. Students will reflect on how their own identities have impacted their experiences in science and develop strategies to promote equity in their future biology or health science careers. Through service learning, students will co-author culturally relevant curricular materials that will expand faculty capacity to connect students' personal lives to course content. Materials developed by students will be used and assessed in biology and/or health science courses at Foothill College, local middle schools, and/or local high schools, and will be made available for a nationwide audience of teachers and professors.

FHGE: Lifelong Understanding

Transferable: CSU

BIOL 300

6 Units

HUMAN PATHOPHYSIOLOGY & PHARMACOLOGY

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

The basis of human disease and its management relevant to the practice of health care professionals. The etiology and pathogenesis of diseases are discussed along with the application of diagnostic procedures and patient care. The pathology and underlying principles of the human systems are presented, along with characteristics of typical drugs, side effects, cautions, and interactions. This is an upper division General Education course, intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program. FHGE: Upper Division Transferable: CSU

BUSINESS

Business and Social Sciences

650.949.7322 foothill.edu/business/

BUSI 11 INTRODUCTION TO 5 Units INFORMATION SYSTEMS Degree & Credit Status: Degree-applicable credit course Advisory: Elementary Algebra or equivalent; demonstrated proficiency

in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; knowledge of Excel; not open to students with credit in CIS 10 or 60. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Introduction to the concepts of management and information systems especially as used in business and similar organizations. Covers the need for information, how computers are used in business and other organizations to provide information, elements of computer hardware and software, software development, data storage and communication, and the social impact of computers. Hands-on introduction to personal productivity software such as word processing, spreadsheet, database, and presentation applications.

FHGE: Non-GE Applicable

BUSI 12

Transferable: CSU/UC

4 Units

INTRODUCTION TO DATA ANALYTICS & BUSINESS

DECISIONS t Status: Degree-applicable credit cou

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

This course is an overview of data analytics and their use in making business decisions, covering a broad selection of topics along the life-cycle of data analytics (business objective; data collection, cleansing, transformation; data analysis, data visualization/storytelling; data-based decision making). Professional skills, such as communication, presentation, and data storytelling, will be presented. Students will acquire a basic working knowledge of data analytics through hands-on projects and study in a variety of business, engineering, social sciences, or life sciences domains. Issues of ethics, leadership, and teamwork will be highlighted.

FHGE: Non-GE Applicable

BUSINESS LAW I

Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; UC will award transfer credit for either BUSI 18 or BUSI 19, not both.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per guarter.)

Introduction to law applicable to business. Social forces and the law; source of law; agencies for enforcement; and court systems and procedures. California law applicable to contracts, tort negligence, agency, and the Uniform Commercial Code. Contemporary Legal Issues. Transferable: CSU/UC

FHGE: Non-GE Applicable

BUSI 19 BUSINESS LAW II

Degree & Credit Status: Degree-applicable credit course

Advisory: BUSI 18; UC will award transfer credit for either BUSI 18 or BUSI 19. not both.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Law of sales, warranty and product liability, partnerships, corporations, personal property, and bailments. The Uniform Commercial Code as related to negotiable instruments and secured transactions, and creditor-debtor riahts.

FHGE: Non-GE Applicable Transferable: CSU/UC

BUSI 22 PRINCIPLES OF BUSINESS Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in BUSI 22H or 52. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Examination of the principles and functions of business and the objectives and operations of the corporate and small business managerial decision-making process. The course examines the relationship between businesses and consumers, internal and external stakeholders and how those relationships impact business operations. The course topics include the impact of globalization on business operations, and how economic, political, legal, and social issues impact business operations. In addition, the course covers basic business and corporate ethics and social responsibility topics. FHGE: Social & Behavioral Sciences Transferable: CSU/UC

HONORS PRINCIPLES OF BUSI 22H BUSINESS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant. Advisory: Not open to students with credit in BUSI 22 or 52. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Examination of the principles and functions of business and the objectives and operations of the corporate and small business managerial decision-making process. The course examines the relationship between businesses and consumers, internal and external stakeholders and how those relationships impact business operations. The course topics include the impact of globalization on business operations, and how economic, political, legal, and social issues impact business operations. In addition, the course covers basic business and corporate ethics and social responsibility topics. As an honors course, this course will use advanced teaching methods and current real-world business situations to enhance and deepen student learning of critical business concepts and frameworks. With an emphasis on research and analysis, students will apply critical thinking skills and business concepts to develop their knowledge of how businesses succeed within today's global business environment.

FHGE: Social & Behavioral Sciences

Transferable: CSU/UC

BUSI 45 FUNDAMENTALS OF PERSONAL 4 Units FINANCE

Degree & Credit Status: Degree-applicable credit course Advisory: Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

5 Units

4 Units

5 Units

5 Units

Designed to help students understand the impact of financial decisions on their personal, professional, and community lives. More specifically, the course will discuss personal finance and quantitative reasoning concepts, frameworks, and techniques to plan, implement, and evaluate financial strategies and tactics. Topics will also include the time value of money, major consumer purchases (e.g., home, car, student loans, credit cards), retirement planning, investment options and their interrelationship with psychological, sociological, and economic factors. The course will culminate with the development of a comprehensive personal financial plan and simulate investment, retirement, tax, insurance, credit, and other financial decisions. The long-term objective is for students to develop a critically-reflective and adaptive capacity for life-long financial decision-making. FHGE: Non-GE Applicable Transferable: CSU/UC

BUSI 53	SURVEY OF INTERNATIONA	L 4 Units
	BUSINESS	

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in BIS 53 or BUSI 20. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Introduction to the global commercial community, theory and practice. Exploration of trade and development with the Pacific Rim, Eastern/Western Europe, Third World and developing nations. Major economic, social, political, cultural forces directing the competitive business environment. Examination of the full range of international commercial activities, marketing, logistics, research, risk analysis, and global corporate ethics and social responsibility.

FHGE: Social & Behavioral Sciences

Transferable: CSU

BUSI 57 PRINCIPLES OF ADVERTISING

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in ADVT 57 or BUSI 81.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Introduction to the relationship between advertising and society, and consumer and business. Analysis of markets and direction of advertising campaigns toward them. Selection of media. Evaluation and proper use of the creative aspects of advertising. Actual creation of an advertising campaign and pro-forma budget.

FHGE: Non-GE Applicable

Transferable: CSU

BUSI 59

PRINCIPLES OF MARKETING

4 Units

4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in BUSI 90. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Contemporary marketing developments and applications relative to business activities that determine customer demand for products and services. Focus on market planning strategy, determining the right product, price, distribution and promotion elements and evaluating the results of effective marketing decision-making from both a marketer's and a consumer's perspective.

FHGE: Non-GE Applicable

Transferable: CSU COURSE CATALOG 2020-2021

BUSI 59A WEB MARKETING

Degree & Credit Status: Degree-applicable credit course

Advisory: BUSI 59B or equivalent coursework or experience; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Primary focus of this course will be on marketing strategies and techniques to help e-businesses reach potential customers, drive traffic to generate customer to e-business interaction, convert leads to sales, and to maintain customer relationships over time. This course gives students a deeper understanding of the part social media plays in a digital marketing strategy. Students will learn about different platforms and their best practices. Students will create a social media strategy.

FHGE: Non-GE Applicable

Transferable: CSU

BUSI 59B E-BUSINESS

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Foundations and principles of electronic commerce and doing business on the internet. Topics include e-commerce models, value and supply chains, business strategy, electronic data interchange (EDI), electronic payments and digital currency, integrating channels of business (walk-in, mail, phone, internet), e-marketing, intranets and extranets, security risks and legal issues in e-commerce, and Electronic Document Management Systems (EDMS). Current topics about latest e-business trends will be discussed, including peer-to-peer commerce, public and private exchanges, e-hubs and e-marketplaces, technology trends in enterprise computing, including web services and knowledge management, and global e-commerce infrastructure.

FHGE: Non-GE Applicable

Transferable: CSU

4 Units

4 Units

5 Units

5 Units

STRATEGY & BRANDING Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; basic internet skills and an understanding of Microsoft Office applications are recommended.

MARKETING CONTENT

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

BUSI 59C

4 hours lecture. (48 hours total per quarter.)

Focused on branding and content strategy, this course aims to push students to explore concepts such as consumer psychology and behavior, content and channel creation, visual design and search engine optimization. Students will have the opportunity to practice their writing and communication skills, which are both vital for digital marketing. **Transferable: CSU**

FHGE: Non-GE Applicable

BUSI 59D

MARKET ANALYTICS & PERFORMANCE OPTIMIZATION

Degree & Credit Status: Degree-applicable credit course Advisory: BUSI 11; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Focusing on key performance indicators (KPIs), this course aims to give students the skills needed to analyze results of marketing efforts. Students will learn about factors that drive conversion and how to optimize their efforts using data and A/B testing. Students will be assessed through projects that give them an opportunity to get hands-on experience using spreadsheets, Google Analytics and analyzing an A/B test.

FHGE: Non-GE Applicable

Transferable: CSU

BUSI 59E EMAIL MARKETING

Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; basic internet skills and an understanding of Microsoft Office applications are recommended. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

This course offers a deep dive into the world of email marketing, an incredibly effective marketing channel that can deliver great results for companies. In this course, students will learn about the role of email marketing in a company's marketing campaign, what stages of the customer journey email marketing is suited for and best practices for email visuals and copy. The course will also touch upon more complex email practices, such as automation and how to outline an email drip campaign. **Transferable: CSU** FHGE: Non-GE Applicable

BUSI 60 FUNDAMENTALS OF FINANCE 5 Units

Degree & Credit Status: Degree-applicable credit course Advisory: MATH 105.

Grade Type: Letter Grade Only

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

This course provides an introduction to the fundamentals of financial analysis and applications to business challenges in valuation, risk analysis, corporate investment decisions, and basic security analysis and investment management. The four major sections of the course are: (A) an introduction to the financial system, financial statement analysis; (B) Interest Rates and Valuing Cash Flows: time value of money; interest rates; valuation of stocks, bonds; (C) Valuation of the Firm: Investment Decision Rules, Fundamentals of Capital Budgeting, Stock Valuation (NPV); and (D) Introduction to Risk and Return: risk and return; systemic risk; Portfolio Theory, CAPM, WACC. FHGE: Non-GE Applicable **Transferable: CSU**

INVESTMENT FUNDAMENTALS **BUSI 61** Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Introduction to securities investment characteristics and rights. Investment vehicles (stock, bonds, derivatives [options]). Markets and exchanges. Stock and bond valuation analyses (fundamental and technical analysis). Portfolio evaluation and stock trading. Personal financial management. After-tax returns.

FHGE: Non-GE Applicable

Transferable: CSU

4 Units

3 Units

BUSI 70

PROFESSIONAL ETHICS

BUSINESS &

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Social and moral dilemmas encountered in business and professional lives. Exploration and analysis of the ongoing conflicts between personal value systems, expected codes of behavior, evolving technology and government regulations and international issues, and standard operating procedure in the work place. Examples of major philosophical schools of ethics and how their specific theories may be applied to concrete business cases and contemporary management issues.

FHGE: Non-GE Applicable

BUSI 70R	INDEPENDENT STUDY IN BUSINESS	1 Unit
BUSI 71R		2 Units
BUSI 72R		3 Units
BUSI 73R		4 Units
Degree & Credit	Status: Degree-applicable credit course	

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3-12 hours laboratory per week. (36-144 hours total per quarter.)

Provides an opportunity for the student to expand their studies in Business beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department. FHGE: Non-GE Applicable Transferable: CSU

BUSI 87 HUMAN RESOURCES 5 Units MANAGEMENT

Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade Only

Not Repeatable. 5 hours lecture. (60 hours total per quarter.)

This course is a comprehensive study of human resource management in organizations, including human resource planning; employment legislation; recruitment and selection; training and development; compensation and benefits; performance appraisal and career management; managing labor relations; safety, health, and well-being; and motivation and enhancing performance. The course will explore topics including values, ethical issues, leadership and communication, conflict, work design, and organizational culture.

FHGE: Non-GE Applicable

Transferable: CSU

BUSI 88A FOUNDATIONS OF LEADERSHIP

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

This course explores the nature of leadership in a variety of areas and emphasizes the business field, explaining the difference between leadership and management as it applies to both corporate human talent development and in entrepreneurial contexts. Students will use an integrated and interdisciplinary approach, experiential exercises, and critically-reflective practices to identify and develop communication, interpersonal, critical thinking, and other selected personal attributes. The course will emphasize team and project management, negotiation and conflict resolution, systems-thinking, pattern-recognition, problem-solving, judgement and risk-taking skills, as well as ethics and grit. Students will build the capacity to deal more effectively with our ever-changing, ambiguous, uncertain, and interdependent world.

FHGE: Non-GE Applicable

Transferable: CSU

BUSI 90A PRINCIPLES OF MANAGEMENT

Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

4 Units

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Introduction to the study of the principles and functions of business management as an important part of the social, political and economic environment. The following functional areas of management include: planning and organizing, control and monitoring, strategy and leadership, legal and ethical issues affecting business today. FHGE: Non-GE Applicable Transferable: CSU

BUSI 91L INTRODUCTION TO BUSINESS 4 Units INFORMATION PROCESSING

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in BUSI 10. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Knowledge and understanding of business uses of computer and information processing. Introduction to computer hardware and software and popular operating systems. Hands-on experience in the use of word processing software, spreadsheet software, presentation graphics software, database software and communications software.

FHGE: Non-GE Applicable Transferable: CSU

BUSI 95 ENTREPRENEURSHIP-THE 4 Units BUSINESS PLAN

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 Units

4 hours lecture. (48 hours total per quarter.)

This course focuses on the business plan as a necessary component of starting a small business. The course discusses the phases and components in the development of the business plan, including determining actual content, reviewing examples, creating a comprehensive plan, and pitching to potential investors.

FHGE: Non-GE Applicable Transferable: CSU

BUSI 96 ENTREPRENEURSHIP-STARTING 3 Units & MANAGING A SMALL BUSINESS

Degree & Credit Status: Degree-applicable credit course

Advisory: BUSI 95; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Hands-on course introducing the broad range of skills needed to startup and maintain a small business, an intrapreneurial venture, or a social entrepreneurship project. In this class, students begin with a well-planned business concept (business plan or business model) and apply fundamental entrepreneurial techniques to successfully initiate their business, and ultimately identify critical actions required to succeed. Areas of discussion will include legal, financial, marketing, operational, personnel, with a specific focus on bringing students' business plans to life.

FHGE: Non-GE Applicable

CAREER LIFE PLANNING

Counseling and Student Services

650.949.7423 foothill.edu/counseling/

CRLP 7 SELF-ASSESSMENT

4 Units

1 Unit

1 Unit

1 Unit

Degree & Credit Status: Degree-applicable credit course Advisory: May not be concurrently enrolled in CRLP 71; not open to students with credit in CRLP 70.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Comprehensive approach to career and life planning. Students will explore their individual skills, interests, values, and personality style as they relate to career choice. This intensive career investigation will also encompass lifestyle assessment like the influence of career choice on the family unit, decision making, goal-setting, job search strategies, resume writing and interviewing skills. This course is helpful to people considering a career change or undecided about a college major. Transferable: CSU/UC

FHGE: Lifelong Understanding

CRLP 71 **EXPLORING CAREER FIELDS**

Degree & Credit Status: Degree-applicable credit course Advisory: May not be concurrently enrolled in CRLP 7. Grade Type: Pass/No Pass Only

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Explore career options compatible with student's strengths and interests. Using resources on the campus as well as on the Internet and in communities to investigate specific career choices, researching job descriptions, desired employee characteristics, training/education requirements, salary ranges and employment trends.

FHGE: Non-GE Applicable

Transferable: CSU

EFFECTIVE RESUME WRITING CRLP 73

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per quarter.) Development of successful resume writing skills including understanding of the hidden job market, types of resumes and tips that will create resumes that result in interviews.

FHGE: Lifelong Understanding

Transferable: CSU

CRLP 74 SUCCESSFUL INTERVIEWING

TECHNIQUES Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Development of successful interviewing skills, including techniques for pre-interview preparation, dynamics of an interview, salary negotiations and follow-up.

FHGE: Lifelong Understanding

Transferable: CSU

CHEMISTRY

Physical Sciences, Mathematics & Engineering 650.949.7259 foothill.edu/chemistry/

CHEM 1A GENERAL CHEMISTRY 5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisites: Satisfactory score on the chemistry placement test or CHEM 25; MATH 105 or equivalent.

Advisory: MATH 48A or equivalent Precalculus I course; concurrent enrollment in ESLL 125 or ENGL 209; not open to students with credit in CHEM 1AH.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 6 hours laboratory. (108 hours total per quarter.)

Fundamental chemical principles with an emphasis on physical and chemical properties, stoichiometry, chemical reaction types, kinetic molecular theory, thermochemistry, modern atomic theory and atomic structure, chemical bonding and bonding theory, and molecular shapes. Laboratory component parallels lecture topics and also includes chemical nomenclature, basic chemical equations, stoichiometry, unknown analysis, and fundamentals of oxidation and reduction. **FHGE: Natural Sciences** Transferable: CSU/UC

CHEM 1AH HONORS GENERAL CHEMISTRY

5 Units Degree & Credit Status: Degree-applicable credit course

Prerequisites: Satisfactory score on the chemistry placement test or CHEM 25; MATH 105 or equivalent; Honors Institute participant.

Advisory: MATH 48A or equivalent Precalculus I course; not open to students with credit in CHEM 1A.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 6 hours laboratory. (108 hours total per quarter.)

Fundamental chemical principles with an emphasis on physical properties and their mathematical modeling and interpretation. As an honors course, the treatment of the chemical topics will be at a higher level mathematically and conceptually. Students are expected to have a high degree of competency in mathematics and advanced reasoning skills. Topics include: The atom in modern chemistry; chemical formulas, equations, stoichiometry and theoretical yields; classical models of atomic bonding, electron shells, and molecular shapes; the behavior of gases, gas laws, kinetic molecular theory, molecular collisions; solids, liquids and phase transitions, intermolecular forces, phase diagrams; thermodynamic processes and thermochemistry, heat capacity and colorimetry, reversible processes in ideal gases; spontaneous processes and thermodynamic systems. **FHGE: Natural Sciences** Transferable: CSU/UC

CHEM 1B **GENERAL CHEMISTRY**

Degree & Credit Status: Degree-applicable credit course

5 Units

Prerequisite: CHEM 1A or 1AH. Advisory: MATH 48B or equivalent Precalculus II course; not open to students with credit in CHEM 1BH.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 6 hours laboratory. (108 hours total per quarter.) Kinetic molecular theory and gas laws, intermolecular forces, chemical kinetics, equilibria, behavior of acids and bases, acid/base equilibrium, and classical thermodynamics. Laboratory parallels lecture topics and includes computer graphing techniques, chemical kinetics, equilibrium measurements, heat transfer experiments, thermodynamics of an equilibrium system, vapor pressure of liquids.

FHGE: Non-GE Applicable

CHEM 1BH HONORS GENERAL CHEMISTRY 5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisites: CHEM 1AH; Honors Institute participant.

Advisory: MATH 48B or equivalent Precalculus II course; not open to students with credit in CHEM 1B.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 6 hours laboratory. (108 hours total per quarter.)

Designed for physical science majors, the fundamental chemical principles are explored with an emphasis on physical properties and their mathematical modeling and interpretation. As an honors course, the treatment of the chemical topics will be at a higher level mathematically and conceptually. Students are expected to have a high degree of competency in mathematics and advanced reasoning skills. Topics include: chemical equilibrium with a mass action and thermodynamic description; solutions, including acid-base titrations, oxidation reduction titrations, nonvolatile and volatile solutes; advanced acid-base equilibrium, including strengths, weak acid/base reactions, and polyprotic acids; introduction to quantum mechanics, including the wave nature of light, Bohr model, wave-particle duality and particle in a box models; quantum mechanics and atomic structure, including the hydrogen atom, the shell model, Aufbau principle, periodic table interpretation and periodic properties; valence bond theory and orbital hybridization; chemical kinetics, including mechanisms Arrhenius equation, catalysts and solution kinetics.

FHGE: Non-GE Applicable

CHEM 1C

Transferable: CSU/UC

5 Units

5 Units

QUALITATIVE ANALYSIS Degree & Credit Status: Degree-applicable credit course Prerequisite: CHEM 1B or 1BH. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 6 hours laboratory. (108 hours total per quarter.) Aqueous ionic equilibria of buffers, solubility product constants and formation constants; properties of solutions, including factors affecting solubility, energy changes in the solution process and colligative properties; electrochemistry, including the thermodynamics of voltaic cells; introduction to coordination chemistry and bonding theory; nuclear chemistry with emphasis on applications; and, time permitting, an introduction to modern materials. Laboratory parallels lecture topics with an introduction to qualitative inorganic analysis.

GENERAL CHEMISTRY &

FHGE: Non-GE Applicable

Transferable: CSU/UC

CHEM 9 CHEMISTRY OF COOKING Degree & Credit Status: Degree-applicable credit course Prerequisite: Elementary Algebra or equivalent.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.)

This course will use kitchen science and cooking to introduce fundamental principles of chemistry. Concepts include atomic theory; stoichiometry; acid-base reactions; the molecular structure of food compounds; heat transfer and cooking methods; egg foams, protein structure and denaturation; gas laws; pressure cooking and the Maillard reaction for meats; the molecular basis of aroma and flavor; sauces and viscosity; chemical reactions involved in baking; caramelization of sugars and crystallization in chocolate. Laboratory experiments will utilize both common chemistry instrumentation and kitchen equipment.

FHGE: Natural Sciences

Transferable: CSU/UC

CHEM 12A **ORGANIC CHEMISTRY**

Degree & Credit Status: Degree-applicable credit course Prerequisite: CHEM 1C.

Corequisite: Concurrent enrollment or prior completion of laboratory component to course (CHEM 12AL or 13AH).

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

This course is the first of a three guarter course describing the chemistry of organic (carbon containing) compounds. Emphasis on structure-reactivity relationships and mechanisms of functional group transformations. For science majors and students pursuing professional careers in dentistry, medicine, pharmacy, or veterinary medicine. Generally not appropriate for nursing majors (see CHEM 30B). Transferable: CSU/UC

FHGE: Non-GE Applicable

ORGANIC CHEMISTRY CHEM 12AL 2 Units LABORATORY

Degree & Credit Status: Degree-applicable credit course Corequisite: Completion of or concurrent enrollment in CHEM 12A.

Advisory: Not open to students with credit in CHEM 13AH.

Grade Type: Letter Grade Only

Not Repeatable.

6 hours laboratory. (72 hours total per quarter.)

Laboratory course to accompany CHEM 12A. Intended to introduce students to laboratory techniques common in modern synthetic organic chemistry. Students will work on both standard preparative scale and microscale to synthesize, isolate, purify and characterize organic compounds. FHGE: Non-GE Applicable Transferable: CSU/UC

CHEM 12B **ORGANIC CHEMISTRY** 4 Units

Degree & Credit Status: Degree-applicable credit course

Prerequisites: CHEM 12A and CHEM 12AL or 13AH.

Corequisite: Concurrent enrollment or prior completion of laboratory component to course (CHEM 12BL or 13BH).

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

This course is the continuation of CHEM 12A. Emphasis is on structure-reactivity relationships of organic compounds, mechanisms of functional group transformations, and synthesis of organic target compounds from simple precursors. For chemistry, biological science, environmental science majors, and for pre-professional students in dentistry, medicine, pharmacy, veterinary medicine or any other interested students who have mastered the prerequisites. FHGE: Non-GE Applicable Transferable: CSU/UC

CHEM 12BL

LABORATORY

2 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: CHEM 12AL or 13AH.

Corequisite: Completion of or concurrent enrollment in CHEM 12B. Advisory: Not open to students with credit in CHEM 13BH.

ORGANIC CHEMISTRY

Grade Type: Letter Grade Only Not Repeatable.

6 hours laboratory. (72 hours total per quarter.)

Laboratory course to accompany CHEM 12B. Emphasis is on spectroscopic methods for the structure elucidation of organic compounds. Provides extensive practice in the synthesis, purification, isolation and characterization of organic target molecules. For chemistry and other STEM majors, and for pre-professional students in dentistry, medicine, pharmacy, veterinary medicine or any other interested students that have mastered the prerequisites. FHGE: Non-GE Applicable Transferable: CSU/UC

CHEM 12C **ORGANIC CHEMISTRY**

Degree & Credit Status: Degree-applicable credit course Prerequisites: CHEM 12B and CHEM 12BL or 13BH.

Corequisite: Concurrent enrollment or prior completion of laboratory component to course (CHEM 12CL or 13CH). Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

The third and final guarter of Organic Chemistry expands the study of functional groups to include ketones, aldehydes, carboxylic acids and its derivatives, and amines. Also introduces the chemistry of poly-functional, biologically active molecules such as proteins and carbohydrates. Continued emphasis on structure-reactivity relationships, mechanisms of reaction and multi-step syntheses. For chemistry and other STEM majors as well as any pre-professional students studying for careers in dentistry, medicine, pharmacy, veterinary medicine and for any other interested students who have mastered the prerequisites.

FHGE: Non-GE Applicable

Transferable: CSU/UC

CHEM 12CL ORGANIC CHEMISTRY LABORATORY

Degree & Credit Status: Degree-applicable credit course

Prerequisite: CHEM 12BL or 13BH.

Corequisite: Completion of or concurrent enrollment in CHEM 12C. Advisory: Not open to students with credit in CHEM 13CH. Grade Type: Letter Grade Only

Not Repeatable.

6 hours laboratory. (72 hours total per quarter.)

Laboratory course to accompany CHEM 12C. Intended to strengthen skill in application of laboratory techniques, and to encourage independent work. Emphasis is on chemical reactions relevant to CHEM 12C, multi-step syntheses, and identification of unknowns.

FHGE: Non-GE Applicable Transferable: CSU/UC

CHEM 13AH HONORS ORGANIC CHEMISTRY 3 Units LABORATORY

Degree & Credit Status: Degree-applicable credit course Prerequisites: CHEM 1C or equivalent; Honors Institute participant. Corequisite: CHEM 12A.

Advisory: Not open to students with credit in CHEM 12AL. Grade Type: Letter Grade Only Not Repeatable.

1 hour lecture, 6 hours laboratory. (84 hours total per quarter.)

Honors laboratory course to accompany CHEM 12A. Intended to introduce students to laboratory techniques common in modern synthetic organic chemistry. Emphasis is on chemical reactions relevant to CHEM 12A content. Similar to CHEM 12AL, this honors course adds critical analysis of primary literature, and requires additional writing assignments and group presentations.

FHGE: Non-GE Applicable	Transferable: CSU/UC
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HONORS ORGANIC CHEMISTRY CHEM 13BH 3 Units LABORATORY

Degree & Credit Status: Degree-applicable credit course Prerequisites: CHEM 12A and CHEM 12AL or 13AH; Honors Institute

participant.

Corequisite: CHEM 12B.

Advisory: Not open to students with credit in CHEM 12BL. Grade Type: Letter Grade Only

Not Repeatable.

1 hour lecture, 6 hours laboratory. (84 hours total per quarter.)

Honors laboratory course to accompany CHEM 12B. Intended to introduce students to laboratory techniques common in modern synthetic organic chemistry. Emphasis is on chemical reactions relevant to CHEM 12B content. Similar to CHEM 12BL, this honors course adds critical analysis of primary literature, and requires additional writing assignments and group presentations.

FHGE: Non-GE Applicable

Transferable: CSU/UC

CHEM 13CH HONORS ORGANIC CHEMISTRY 3 Units LABORATORY

Degree & Credit Status: Degree-applicable credit course Prerequisites: CHEM 12B and CHEM 12BL or 13BH; Honors Institute participant.

Corequisite: CHEM 12C.

Advisory: Not open to students with credit in CHEM 12CL. Grade Type: Letter Grade Only

Not Repeatable.

4 Units

2 Units

1 hour lecture, 6 hours laboratory. (84 hours total per guarter.)

Honors laboratory course to accompany CHEM 12C. Intended to introduce students to research methods, improve skill in application of laboratory techniques, and strengthen quantitative reasoning. Students work on challenging projects taken from the primary literature. Emphasis is on Physical-Organic Chemistry, Multi-step synthesis, and chemical reactions relevant to CHEM 12C. FHGE: Non-GE Applicable Transferable: CSU/UC

CHEM 25 FUNDAMENTALS OF CHEMISTRY 5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: MATH 105 or equivalent.

Advisory: Concurrent enrollment in ESLL 125 or ENGL 209; UC will grant transfer credit for a maximum of one course from the following: CHEM 25, 304 or 30B.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.)

The course includes basic chemical laboratory techniques and methods, a survey of important chemical principles with emphasis on problem solving, and a description of the elements and their compounds. Intended for students who wish to meet general education requirements in physical science or need background preparation for CHEM 1A. Transferable: CSU/UC

FHGE: Natural Sciences

SURVEY OF INORGANIC & 5 Units **ORGANIC CHEMISTRY**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Elementary Algebra or equivalent.

Advisory: UC will grant transfer credit for a maximum of one course from the following: CHEM 25, 30A or 30B.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

CHEM 30A

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.)

An introductory course covering basic principles of chemistry more descriptive than quantitative in emphasis. Topics include atomic structure, the periodic table, the three states of matter, energy, chemical bonding in ionic and molecular compounds, nomenclature, measurement and the metric system, chemical reactions and equations, solutions, acids, bases, salts and electrolyte systems. Primarily intended for students entering the allied health field, including: nursing, veterinary technology, dental assistant, dental hygiene, biotechnology, primary care associate, radiation therapy technology, radiologic technology, respiratory therapy, and pharmaceutical technology.

FHGE: Natural Sciences

Transferable: CSU/UC

FOOTHILL COLLEGE

CHEM 30B **SURVEY OF ORGANIC &** BIOCHEMISTRY

Degree & Credit Status: Degree-applicable credit course Prerequisite: CHEM 30A. Advisory: UC will grant transfer credit for a maximum of one course from the following: CHEM 25, 30A or 30B.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.)

Basic principles of organic chemistry and biological chemistry. Topics include organic chemistry nomenclature, functional groups, and an introduction to structure and properties of carbohydrates, lipids, nucleic acids, proteins and enzymes. An overview of metabolism will also be given. Primarily intended for students entering the allied health field, including: nursing, dental hygiene, and biotechnology. FHGE: Non-GE Applicable

Transferable: CSU/UC

CHILD DEVELOPMENT

Business and Social Sciences 650.949.7322 foothill.edu/childdevelopment/

CHLD 1 **CHILD GROWTH & DEVELOPMENT: PRENATAL** THROUGH EARLY CHILDHOOD

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in CHLD 55. Grade Type: Letter Grade Only Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Development of the child from prenatal life through early childhood. This introductory course examines the major physical, psychosocial, and cognitive/language developmental milestones for children, both typical and atypical, from conception through early childhood. Emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages. Transferable: CSU/UC

FHGE: Social & Behavioral Sciences

CHLD 2

CHILD GROWTH & DEVELOPMENT II: MIDDLE CHILDHOOD THROUGH ADOLESCENCE

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

4 hours lecture. (48 hours total per guarter.)

Development of the child from middle childhood through adolescence. This introductory course examines the major physical, psychosocial, and cognitive/language developmental milestones for children, both typical and atypical, from middle childhood through adolescence. Emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages. Transferable: CSU/UC

FHGE: Social & Behavioral Sciences

CHLD 8

5 Units

4 Units

4 Units

CHILD, FAMILY & COMMUNITY

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in CHLD 88. Grade Type: Letter Grade Only Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

An examination of the developing child in a societal context focusing on interrelationship of family, school, and community, and emphasizing historical and sociocultural factors. The processes of socialization and identity development will be highlighted, showing the importance of respectful, reciprocal relationships that support and empower families.

FHGE: Non-GE Applicable Transferable: CSU/UC

CHLD 50A **INFANT/TODDLER** DEVELOPMENT

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Human growth and development from birth to three years within the context of the young child's family, culture and community. Examination of developmental theory within the three distinct ages of infancy. Integration of physical, cognitive, language, social and emotional domains emphasizing the importance of relationships.

FHGE: Non-GE Applicable **Transferable: CSU**

AFFIRMING DIVERSITY IN CHLD 51A 4 Units EDUCATION

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in CHLD 11. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable. 4 hours lecture. (48 hours total per quarter.)

This course will examine the development of social identities in diverse societies, including theoretical and practical implications affecting young children, families, programs, teaching, education and schooling. Culturally relevant and linguistically appropriate anti-bias approaches supporting all children in becoming competent members of a diverse society. Course involves self-reflection of one's own understanding of educational principles in integrating anti-goals in order to better inform teaching practices and/or program development.

FHGE: American Cultures & Communities **Transferable: CSU**

SUPPORTING CHILDREN WITH CHLD 53NC 3 Units SPECIAL NEEDS IN CHILDREN'S PROGRAMS

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Strategies to work effectively with all children in early childhood programs. Focus on infants, toddlers and preschoolers with disabilities, developmental delays or special health care needs. Best practices from early childhood education and early childhood special education/early intervention will be embedded throughout. Making adaptations, modifications and accommodations in the environment, with materials and to teaching strategies, for individual children in group settings. Working in collaboration with additional support professionals, community resources, IFSP and IEP teams and family members.

FHGE: Non-GE Applicable

Transferable: CSU

3 Units

CHLD 53NP

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Introduction to a variety of diagnosed disabilities and other special needs conditions that cause children, birth through age 8, to show atypical development. Laws and service provisions, social and educational implications, culture and family dynamics in the context of the larger community will be discussed.

DEVELOPMENT OF CHILDREN

WITH SPECIAL NEEDS

FHGE: Non-GE Applicable

Transferable: CSU

CHLD 54A **DEVELOPING A HEALTHY ORGANIZATIONAL CLIMATE IN EDUCATION**

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Investigation and analysis of the ten dimensions of organizational climate which help shape the quality of work life for educators. Students will assess the organizational climate of their own education programs and develop specific strategies to create an excellent workplace. Discussion of unique role perspective plays in shaping work attitudes and behavior. FHGE: Non-GE Applicable **Transferable: CSU**

CHLD 54B THE RIGHT FIT: 1 Unit **RECRUITING, SELECTING** & ORIENTING STAFF

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Students will determine the criteria to maximize the "fit" between individuals, the job and the program. Course breaks down the teacher recruitment, interviewing, screening, selection, and employee orientation processes into manageable components. Practical and effective techniques to find teaching staff will be discussed. Students will design a continuous recruitment plan to implement in their own workplace in order to be well prepared when future employee turnover occurs. FHGE: Non-GE Applicable

Transferable: CSU

LEADERSHIP IN ACTION: HOW 1 Unit CHLD 54C EFFECTIVE DIRECTORS GET THINGS DONE

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Course provides an overview of educational leadership from five perspectives: leadership as a role, leadership tasks and functions, leadership as a repertoire of skills and competencies, leadership traits and dispositions, and leadership style. Course examines the link between effective leadership and program quality.

FHGE: Non-GE Applicable

Transferable: CSU

FROM THE INSIDE OUT: THE **POWER OF REFLECTION &** SELF-AWARENESS

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Course will help educators learn the value of reflective practice and how to become a self-mentor. Participants will reflect on how their past experiences shape present perceptions and future aspirations. Topics discussed will include identifying one's preferred perceptual modality, learning style, psychological type, practical strategies for reducing stress and avoiding burnout in the education field. Intended for directors, principals, leaders, teachers, board members and parent volunteers.

FHGE: Non-GE Applicable **Transferable: CSU**

CHLD 56 **OBSERVATION &** ASSESSMENT

Degree & Credit Status: Degree-applicable credit course

Advisory: CHLD 1 and 56N.

Grade Type: Letter Grade Only

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Focus on training in observation and assessment techniques in natural settings using a range of tools. Conducting formal observations and assessments that will guide development of curriculum. Child portfolio development and preparation for teacher-parent conferences. Recording strategies, rating systems, and multiple assessment methods are explored. **Transferable: CSU** FHGE: Non-GE Applicable

CHLD 56N **PRINCIPLES & PRACTICES OF TEACHING** YOUNG CHILDREN

Degree & Credit Status: Degree-applicable credit course

Grade Type: Letter Grade Only

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

An examination of the underlying theoretical principles of developmentally appropriate practices applied to early childhood programs and environments. Emphasizing the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative and intellectual development of the child. Includes a review of the historical roots of early childhood programs and the evolution of the professional practices promoting advocacy, ethics and professional identity. FHGE: Non-GE Applicable **Transferable: CSU**

CHLD 59 WORKING WITH SCHOOL-AGE 4 Units CHILDREN

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Review of developmental characteristics of children ages five to 12 years. Role of adult in high quality school-age care. Planning and implementing developmentally appropriate curriculum and behavior management. Creating environment program standards and using quality standards guides for evaluation. Specifically intended for those who work or desire to work with school-age children in a variety of after-school, recreation and summer day camps.

FHGE: Non-GE Applicable

Transferable: CSU

4 Units

4 Units

1 Unit

3 Units

CHLD 63N **ARTISTIC & CREATIVE** DEVELOPMENT

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Artistic awareness and creativity in young children. Uses a variety of media to promote children's sensitivity to, and use of, various tactile arts, visual arts and performing arts. Role of the family and teacher in encouraging children's explorations. Emphasis on developmentally appropriate curriculum that encourages children's imagination, creative thinking and self-expression.

FHGE: Non-GE Applicable Transferable: CSU

CHLD 71 PLANNING CREATIVE ART 1 Unit ACTIVITIES FOR CHILDREN

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture. (12 hours total per guarter.)

Introduction to a variety of creative art activities for the young child. Exploration of a variety of tactile arts including paint, chalk, play dough, collage and crayons. Emphasis on developmentally appropriate curriculum development that encourages children's imagination, creative thinking and self-expression.

FHGE: Non-GE Applicable **Transferable: CSU**

LANGUAGE, LITERACY & 3 Units **CHLD 72** THE DEVELOPING CHILD

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Development of language and speech, language acquisition theories, and emergent literacy in monolingual and young English language learners. Discussion of experiences and activities which promote oral and written language abilities. Focus on the developmental stages of receptive and expressive language, conversations, print awareness, phonemic awareness, reading and writing, bilingual development, and speech and language delays, children's literature and poetry. Students gain experience in using language art materials and planning language experiences for young children. FHGE: Non-GE Applicable **Transferable: CSU**

MUSIC & MOVEMENT IN 2 Units **CHLD 73** THE EARLY YEARS

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Music and movement activities and experiences that facilitate non-musician teachers to express ideas and implement expanded curriculum ideas for infants/toddlers, preschoolers and school aged children. Elements of presentation and basic concepts of teaching music and movement to promote the growth and development of the young children. FHGE: Non-GE Applicable **Transferable: CSU**

SCIENCE & NATURE CHLD 74

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Developing science experiences for children. Activities involving plants, animals, and the physical properties of the environment. Emphasis on making science part of the everyday experience in early childhood program curriculum.

FHGE: Non-GE Applicable

Transferable: CSU

3 Units

CARING FOR INFANTS & TODDLERS IN GROUPS

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Overview of infant and toddler development as it relates to caregiving practices in group settings. Observation and analysis of infant/toddler classrooms. Influence of responsive and culturally sensitive relationships with children and their parents on children's development. Effects of social and physical environments on program practices, child learning and behavior. FHGE: Non-GE Applicable **Transferable: CSU**

CHLD 82	PLANNING CREATIVE	1 Unit
	DRAMATICS	
Degree & Credit	t Status: Degree-applicable credit course	
Curde True et Lett	han Cuada an Daas (Nia Daas	

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Introduction to creative dramatics for the child; dramatic play, puppetry, role playing, acting out stories; how to implement creative dramatics. The emergence of creativity, imagining, and empathizing with others. Techniques for promoting children's sensitivity to, and use of, various dramatic art forms. Role of the parent and teacher in facilitating children's explorations.

FHGE: Non-GE Applicable **Transferable: CSU**

CHLD 86A	MENTORING THE EARLY CARE	4 Units
	& EDUCATION	
	PROFESSIONAL	

Degree & Credit Status: Degree-applicable credit course

Advisory: CHLD 1, 8; a minimum of one other three-unit course in Child Development.

Grade Type: Letter Grade Only

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Prepares the student for the role of mentoring student teachers, assistant teachers, parents, and volunteers in early care and education settings. Emphasis on the role of teachers supervising other adults while simultaneously addressing the classroom needs of the early care and education program. Development of the mentor in supporting the professional growth of the teaching adult. Fulfills the Child Development permit adult supervision course requirement.

FHGE: Non-GE Applicable

Transferable: CSU

CHLD 86B PRACTICUM STUDENT 5 Units **TEACHING IN AN EARLY** CHILDHOOD PROGRAM

Degree & Credit Status: Degree-applicable credit course Prerequisites: CHLD 1, 8, 56N, and 89.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture, 10 hours laboratory. (144 hours total per quarter.)

A demonstration of developmentally appropriate early childhood teaching competencies under guided supervision. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning, and assessment; and knowledge of curriculum content areas will be emphasized as student teachers design, implement and evaluate experiences that promote positive development and learning for all young children.

FHGE: Non-GE Applicable

Transferable: CSU

1 Unit

CHLD 88B MANAGEMENT

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Introduction to a range of positive guidance techniques that can be used with infants, toddlers, pre-school, and school-aged children. Emphasis on selection of appropriate positive guidance strategies to meet the needs of each individual child.

FHGE: Non-GE Applicable **Transferable: CSU**

CHLD 89

CURRICULUM FOR EARLY CARE 4 Units **& EDUCATION PROGRAMS**

Degree & Credit Status: Degree-applicable credit course Advisory: CHLD 1 or 2.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

An overview of knowledge and skills related to providing appropriate curriculum and environments for infants and young children. Students will examine the teacher's role in supporting development by using observation and assessment strategies and emphasizing the essential role of play. An overview of content areas will include but not be limited to: language and literacy, social and emotional learning, sensory learning, art and creativity, math and science.

FHGE: Non-GE Applicable **Transferable: CSU**

CHLD 90B **ADMINISTRATION &** SUPERVISION OF CHILDREN'S PROGRAMS PART I

Degree & Credit Status: Degree-applicable credit course Advisory: Completion of 9 units of child development courses. Grade Type: Letter Grade Only Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

A study of the development of the components of a quality early care and education program including roles and responsibilities of the director, types of programs, philosophy development, organizational structure, licensing regulations, advisory boards, facility design and set up, budgets and funding. FHGE: Non-GE Applicable Transferable: CSU

CHLD 90C **ADMINISTRATION &** 4 Units SUPERVISION OF CHILDREN'S PROGRAMS PART II

Degree & Credit Status: Degree-applicable credit course Advisory: Completion of 9 units of child development courses. Grade Type: Letter Grade Only Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Study of the development of the components of a quality early care and education program including the administrator's responsibilities in equipping the program, staffing, marketing the program, selecting, grouping and enrolling the children. Also included are the administrative responsibilities of food management, health and safety programs, evaluating center components, staff professional development, working with families, volunteers and the community.

FHGE: Non-GE Applicable

Transferable: CSU

ADMINISTRATION & SUPERVISION: ADULT **SUPERVISION &** LEADERSHIP

Degree & Credit Status: Degree-applicable credit course Advisory: Completion of 9 units of child development courses. Grade Type: Letter Grade Only Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Methods and principles of supervising adults in early care and education programs. Study of the supervisory process, professional conduct, communication, assessment, organizational climate, leadership styles, ethics and career development. Fulfills requirement of CA Child Development Permit Matrix and Mentor Teacher course. Transferable: CSU

FHGE: Non-GE Applicable

CHLD 95 HEALTH, SAFETY & 4 Units NUTRITION IN CHILDREN'S PROGRAMS

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

Not Repeatable.

4 Units

4 hours lecture. (48 hours total per quarter.)

Introduction to the laws, regulations, standards, policies and procedures and early childhood curriculum related to child health, safety and nutrition. The key components that ensure physical health, mental health and safety for both children and staff will be identified along with the importance of collaboration with families and health professionals. Focus on integrating the concepts into everyday planning and program development. FHGE: Non-GE Applicable **Transferable: CSU**

COMMUNICATION STUDIES

Fine Arts and Communication

650.949.7440 foothill.edu/communicationstudies/

COMM 1A PUBLIC SPEAKING

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in COMM 1AH or SPCH 1A.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

193

5 hours lecture. (60 hours total per guarter.)

Introduction to the analysis, theory and history of rhetoric and public address; application of principles of public address to the preparation and delivery of public speeches.

FHGE: Communication & Analytical Thinking Transferable: CSU/UC

5 Units

CHLD 91

COMM 1AH HONORS PUBLIC SPEAKING

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Honors Institute participant.

Advisory: Not open to students with credit in COMM 1A or SPCH 1A. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Introduction to the analysis of the history of rhetoric and public address; application of principles of public address to the preparation and delivery of public speeches in front of a live audience. Particular attention is paid to development of oral communication and listening skills. The honors section provides accelerated students with additional academic challenge in the areas of research, discussion, and intellectual exploration of ideas. Expanded opportunities include, but are not limited to, in-depth examination of speech text within historical context, self-reflection speeches and papers, creative individual and group projects, historical oral interpretation, and enrichment activities.

FHGE: Communication & Analytical Thinking Transferable: CSU/UC

COMM 1B ARGUMENTATION & PERSUASION

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in COMM 1BH or

SPCH 1B. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

The study and practice of argumentation and persuasion. Analysis of rhetorical theory and application of methods of effective persuasion. Knowledge of the structure and format of various types of disputation and participation in in-class speech activities.

FHGE: Communication & Analytical Thinking Transferable: CSU/UC

COMM 1BH HONORS ARGUMENTATION 5 Units & PERSUASION

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Honors Institute participant.

Advisory: Not open to students with credit in COMM 1B or SPCH 1B. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

The study and practice of argumentation and persuasion. Analysis of rhetorical theory and application of methods of effective persuasion. Knowledge of the structure and format of various types of disputation and participation in in-class speech activities. The honors section provides accelerated students with academic enrichment emphasizing rhetorical analysis and critical thinking. Expanded opportunities include, but are not limited to, examination of political speech in historical context, student-initiated and student-led discussion, self-reflection paper, and creative group project. FHGE: Communication & Analytical Thinking Transferable: CSU/UC COMM 2

5 Units

5 Units

INTERPERSONAL COMMUNICATION

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in SPCH 2. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Experience in interpersonal communication, including discussion, the perception process, critical thinking and reasoning, verbal and nonverbal modes of communication, intercultural communication, and the effect of communication on individuals and society. Faculty and peer feedback on critically evaluated exercises.

FHGE: Communication & Analytical Thinking, Lifelong Understanding Transferable: CSU/UC

COMM 3 INTRODUCTION TO 5 Units COMMUNICATION STUDIES

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in SPCH 3. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Exploration of the nature and history of human communication in multiple forms and contexts. Critical examination of human communication theories, methods, and processes. Overview of research methods for the evaluation of human communication phenomena. Discussion of ethical perspectives and intercultural aspects of communication. Application of communication theory through critically evaluated exercises and oral presentations. FHGE: Communication & Analytical Thinking Transferable: CSU/UC

COMM 4 GROUP DISCUSSION

5 Units

5 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in SPCH 4. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Analysis of the principles of group interaction and decision making. Participation in discussion groups designed to share information, solve problems and reach consensus.

FHGE: Communication & Analytical Thinking Transferable: CSU/UC

COMM 5 MASS COMMUNICATION

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in JRNL 2. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

The study of mass media and media technology as applied to society. Includes a study of media functions, responsibilities, practices, and influences, as well as a study of media history, development, and impact in shaping modern culture.

FHGE: Non-GE Applicable

COMM 10 GENDER, COMMUNICATION 5 Units & CULTURE

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in SPCH 10. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

A comparative and integrative study of the interactive relationship between communication, gender, and culture in American society. Emphasis on the multiple ways communication in interpersonal relationships, educational institutions, organizations, media, and society in general creates and perpetuates gender roles. Analysis of gendered histories, traditions, and practices which normalize certain expectations, values, meanings and patterns of behavior across cultural/racial lines (Asian Americans, African Americans, European Americans, Latino Americans, Native Americans, Gays, Lesbians, Bisexual and Transgendered peoples).

FHGE: American Cultures & Communities, Lifelong Understanding Transferable: CSU/UC

COMM 12 INTERCULTURAL 5 Units COMMUNICATION

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in SPCH 12. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

A comparative and integrative study of intercultural communication in American society. Analysis of cultural histories, cultural concepts, language, ethnic perspectives, perceptions, symbols and roles as they facilitate or hinder effective verbal and nonverbal interaction across cultural lines. Examination of cultural identities which influence thinking and behavior, such as race, class, gender, ethnicity, sexual orientation, nationality, age, appearance and physical ability.

FHGE: American Cultures & Communities, Lifelong Understanding Transferable: CSU/UC

COMM 55 CAREER & LEADERSHIP 5 Units COMMUNICATION IN THE GLOBAL WORKPLACE

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in SPCH 55. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per guarter.)

Introduction to communication in organizational, career, leadership and global contexts. Interviewing, interpersonal and intercultural communication, group interactions, professional presentations and leadership development. Application of theories and skills through critically evaluated exercises.

FHGE: Communication & Analytical Thinking, Lifelong Understanding Transferable: CSU

COMPUTER SCIENCE

Physical Sciences, Mathematics & Engineering 650.949.7259 foothill.edu/cs/

C S 1A OBJECT-ORIENTED 4.5 Units PROGRAMMING METHODOLOGIES IN JAVA

Degree & Credit Status: Degree-applicable credit course

Advisory: MATH 105 or equivalent; not open to students with credit in C S 1AH.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

Systematic introduction to fundamental concepts of computer science through the study of the Java programming language. Coding topics include Java control structures, classes, methods, arrays, graphical user interfaces and elementary data structures. Concept topics include algorithms, recursion, data abstraction, problem solving strategies, code style, documentation, debugging techniques and testing.

FHGE: Communication & Analytical Thinking Transferable: CSU/UC

C S 1AH HONORS OBJECT-ORIENTED 4.5 Units PROGRAMMING METHODOLOGIES IN JAVA

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Honors Institute participant.

Advisory: MATH 105 or equivalent; not open to students with credit in C S 1A.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

Systematic introduction to fundamental concepts of computer science through the study of the Java programming language. Coding topics include Java control structures, classes, methods, arrays, graphical user interfaces and elementary data structures. Concept topics include algorithms, recursion, data abstraction, problem solving strategies, code style, documentation, debugging techniques and testing. Honors work emphasizes a deeper study of computer science via discourse, projects and techniques that exercise the powerful tools available to the computer scientist in general, and Java programmers in particular.

FHGE: Communication & Analytical Thinking Transferable: CSU/UC

C S 1B INTERMEDIATE SOFTWARE 4.5 Units DESIGN IN JAVA

Degree & Credit Status: Degree-applicable credit course

Prerequisite: C S 1A or 1AH.

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

Systematic treatment of intermediate concepts in computer science through the study of Java object-oriented programming (OOP). Coding topics include Java interfaces, class extension, generics, the Java collections framework, multi-dimensional arrays and file I/O. Concept topics include OOP project design, inheritance, polymorphism, method chaining, functional programming, linked-lists, FIFOs, LIFOs, event-driven programming and guarded code.

FHGE: Communication & Analytical Thinking Transferable: CSU/UC

C S 1C

ADVANCED DATA STRUCTURES & ALGORITHMS IN JAVA

4.5 Units

4.5 Units

CS2B

Degree & Credit Status: Degree-applicable credit course Prerequisite: C S 1B.

Advisory: One of the following: ENGL 1A, 1AH, or 1S & 1T. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

Systematic treatment of advanced data structures, algorithm analysis and abstract data types in the Java programming language. Coding topics include the development of ADTs from scratch, building ADTs on top of the java.util collections, array lists, linked lists, trees, maps, hashing functions and graphs. Concept topics include searching, big-O time complexity, analysis of all major sorting techniques, top down splaying, AVL tree balancing, shortest path algorithms, minimum spanning trees and maximum flow graphs.

FHGE: Communication & Analytical Thinking Transferable: CSU/UC

C S 1M INTERMEDIATE ALGORITHM & DATA STRUCTURE **METHODOLOGIES IN JAVA**

Degree & Credit Status: Degree-applicable credit course Prerequisite: C S 1A or 1AH. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

Systematic treatment of intermediate data structures, algorithm analysis and abstract data types in the Java programming language intended for Computer Science transfer majors. Coding topics include large program software engineering design, multi-dimensional arrays, string processing, primitives, compound types, and allocation of instance and static data. Concept topics include dynamic memory, inheritance, polymorphism, hierarchies, recursion, linked-lists, stacks, queues, trees and hash tables. FHGE: Non-GE Applicable Transferable: CSU/UC

CS2A

OBJECT-ORIENTED 4.5 Units PROGRAMMING METHODOLOGIES IN C++

Degree & Credit Status: Degree-applicable credit course

Advisory: MATH 105 or equivalent; not open to students with credit in C S 2AH.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.) Systematic introduction to fundamental concepts of computer science through the study of the C++ programming language. Coding topics include C++ control structures, objects, global-scope functions, class methods, arrays and elementary data structures. Concept topics include algorithms, recursion, data abstraction, problem solving strategies, code style, documentation, debugging techniques and testing.

FHGE: Communication & Analytical Thinking Transferable: CSU/UC

INTERMEDIATE SOFTWARE **DESIGN IN C++**

Degree & Credit Status: Degree-applicable credit course Prerequisite: C S 2A.

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per guarter.)

Systematic treatment of intermediate concepts in computer science through the study of C++ object-oriented programming (OOP). Coding topics include C++ derived classes, class templates, function templates, virtual functions, operator overloading, an introduction to the Standard Template Library, multiple inheritance, pointers, dynamic memory allocation and file I/O. Concept topics include OOP project design, inheritance, polymorphism, method chaining, functional programming, linked-lists, FIFOs, LIFOs, events in GUIs and guarded code.

FHGE: Communication & Analytical Thinking Transferable: CSU/UC

CS2C **ADVANCED DATA STRUCTURES** 4.5 Units & ALGORITHMS IN C++

Degree & Credit Status: Degree-applicable credit course Prerequisite: C S 2B.

Advisory: One of the following: ENGL 1A, 1AH, or 1S & 1T. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.) Systematic treatment of advanced data structures, algorithm analysis and abstract data types in the C++ programming language. Coding topics include the development of ADTs from scratch, building ADTs on top of the STL templates, vectors, lists, trees, maps, hashing functions and graphs. Concept topics include searching, big-O time complexity, analysis of all major sorting techniques, top down splaying, AVL tree balancing, shortest path algorithms, minimum spanning trees and maximum flow graphs. FHGE: Communication & Analytical Thinking Transferable: CSU/UC

C S 2M INTERMEDIATE ALGORITHM 4.5 Units & DATA STRUCTURE **METHODOLOGIES IN C++** Degree & Credit Status: Degree-applicable credit course

Prerequisite: C S 2A. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

Systematic treatment of intermediate data structures, algorithm analysis and abstract data types in the C++ programming language intended for Computer Science transfer majors. Coding topics include large program software engineering design, multi-dimensional arrays, string processing, primitives, compound types, and allocation of instance and static data. Concept topics include dynamic memory, inheritance, polymorphism, hierarchies, recursion, linked-lists, stacks, queues, trees and hash tables. FHGE: Non-GE Applicable Transferable: CSU/UC

4.5 Units

INTERMEDIATE ALGORITHM & DATA STRUCTURE METHODOLOGIES IN PYTHON Degree & Credit Status: Degree-applicable credit course

Prerequisite: C S 3A.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

Systematic treatment of intermediate data structures, algorithm analysis and abstract data types in the Python programming language intended for Computer Science transfer majors. Coding topics include large program software engineering design, multi-dimensional arrays, string processing, primitives, compound types, and allocation of instance and static data. Concept topics include dynamic memory, inheritance, polymorphism, hierarchies, recursion, linked-lists, stacks, queues, trees and hash tables. FHGE: Non-GE Applicable Transferable: CSU/UC

COMPUTER ARCHITECTURE C S 10 4.5 Units & ORGANIZATION

Degree & Credit Status: Degree-applicable credit course Prerequisite: One of the following: C S 1A, 1AH or 2A.

Advisory: C S 1C or 2C.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

Introduction to the organization, architecture and machine-level programming of computer systems. Topics include mapping of high-level language constructs into assembly code, internal data representations, numerical computation, virtual memory, pipelines, caching, multitasking, MIPS architecture, MIPA assembly language code, interrupts, input/output, peripheral storage processing, and comparison of CISC (Intel) and RISC (MIPS) instruction sets.

FHGE: Non-GE Applicable

Transferable: CSU/UC

5 Units

4.5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisites: C S 1A or 1AH; MATH 48C or equivalent. Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in CIS 18 or MATH

DISCRETE MATHEMATICS

22. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Discrete mathematics: set theory, logic, Boolean algebra, methods of proof, mathematical induction, number theory, discrete probability, combinatorics, functions, relations, recursion, algorithm efficiencies, graphs, trees. FHGE: Communication & Analytical Thinking Transferable: CSU/UC

C S 20A **PROGRAMMING IN C#**

Degree & Credit Status: Degree-applicable credit course Advisory: One of the following: C S 1A, 1AH, 2A, 3A or equivalent. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.) Introduction to the C# programming language and the .NET platform. Topics include object oriented programming, graphical user interfaces, elementary data structures, algorithms, recursion, data abstraction, code style, documentation, debugging techniques and testing. FHGE: Non-GE Applicable Transferable: CSU/UC

4.5 Units

197

4.5 Units

C S 18

C S 3C **ADVANCED DATA STRUCTURES** & ALGORITHMS IN PYTHON

OBJECT-ORIENTED

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

code style, documentation, debugging techniques and testing.

Systematic introduction to fundamental concepts of computer science

through the study of the Python programming language. Coding topics include control structures, functions, classes, string processing, lists, tuples,

dictionaries, working with files, and elementary graphics. Concept topics

include algorithms, recursion, data abstraction, problem solving strategies,

INTERMEDIATE SOFTWARE

Advisory: Demonstrated proficiency in English by placement via multiple

measures OR through an equivalent placement process OR completion of

through the study of Python object-oriented programming (OOP). Coding topics include Python sequences, user-defined classes and interfaces,

comprehensions, regular expressions and multi-dimensional arrays. Concept

topics include OOP project design, recursion, inheritance, polymorphism,

functional programming, linked-lists, FIFOs, LIFOs, event-driven parsing,

DESIGN IN PYTHON

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

Systematic treatment of intermediate concepts in computer science

modules, packages, collection classes, threads, lambda expressions, list

Degree & Credit Status: Degree-applicable credit course

IN PYTHON Degree & Credit Status: Degree-applicable credit course

Advisory: MATH 105 or equivalent.

Grade Type: Letter Grade or Pass/No Pass

FHGE: Communication & Analytical Thinking

Grade Type: Letter Grade or Pass/No Pass

Degree & Credit Status: Degree-applicable credit course Prerequisite: C S 3B.

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

C S 3A

Not Repeatable.

Transferable: CSU/UC

Prerequisite: C S 3A.

ESLL 125 & ESLL 249.

exceptions and guarded code.

FHGE: Non-GE Applicable

Not Repeatable.

C S 3B

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

A systematic treatment of advanced data structures, algorithm analysis and abstract data types in the Python programming language, intended for computer science majors as well as non-majors and professionals seeking advanced Python experience. Coding topics include large program software engineering design, multi-dimensional arrays, string processing, primitives, compound types, and allocation of instance and static data. Data structure concept topics include dynamic memory, inheritance, polymorphism, hierarchies, recursion, linked-lists, stacks, queues, trees, hash tables and graphs. Algorithm concept topics include searching, big-O time complexity, analysis of all major sorting techniques, top down splaying, AVL tree balancing, shortest path algorithms, minimum spanning trees and maximum flow graphs.

FHGE: Non-GE Applicable

Transferable: CSU/UC

Transferable: CSU/UC

4.5 Units

C S 30B LINUX SHELL PROGRAMMING Degree & Credit Status: Degree-applicable credit course Advisory: C S 30A or equivalent. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4.5 Units

4.5 Units

4.5 Units

4 hours lecture, 2 hours laboratory. (72 hours total per guarter.)

Linux shell script programming using the Bourne Again shell programming language (bash) and Linux utilities to create practical shell scripts. Topics covered include customizing the environment, running and writing scripts, variables, loops, functions, text processing and debugging. FHGE: Non-GE Applicable Transferable: CSU/UC

LINUX SYSTEM	4.5 Units
ADMINISTRATION	

Degree & Credit Status: Degree-applicable credit course Advisory: C S 30A.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

C S 30C

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

Basic Linux systems administration. Command line fundamentals, file management from command line, help commands, create/view/edit text files, manage local Linux users and groups, control access to files with Linux file system permissions, monitor and manage Linux processes, control services and daemons, configure and secure OpenSSH service, analyze and store logs, manage Linux networking, archive and copy files between systems, install and update software packages, access Linux file systems, use virtualized systems.

FHGE: Non-GE Applicable Transferable: CSU/UC

C S 30D ADVANCED LINUX SYSTEM **ADMINISTRATION**

Degree & Credit Status: Degree-applicable credit course

Advisory: C S 30C or equivalent.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

Advanced systems administration of Red Hat Enterprise Linux (RHEL). Overview of automated installation, basic Linux command line usage, regular expression overview, pipelines, redirection, network configuration and troubleshooting, simple partition and filesystems creation, logical volumes, SMB and NFS network file systems, user account management, access control lists (ACLs), SELinux security overview, software package management, installed services management, log file analysis and maintenance, process management, Linux kernel tuning and maintenance, Linux troubleshooting techniques.

ADMINISTRATION: NETWORK

FHGE: Non-GE Applicable

Transferable: CSU/UC

4.5 Units

4.5 Units

SERVICES Degree & Credit Status: Degree-applicable credit course Advisory: C S 30D or equivalent. Grade Type: Letter Grade or Pass/No Pass

LINUX SYSTEM

Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

The course is focused on deploying and managing network servers running caching Domain Name Service (DNS), MariaDB, Apache HTTPD, Postfix SMTP mail clients, network file sharing with Network File System (NFS) and Server Message Block (SMB), iSCSI initiators and targets, advanced networking facilities and firewall configurations, and the use of Bash shell scripting to help automate, configure, and troubleshoot the system. These topics will be taught through lectures and hands-on labs. FHGE: Non-GE Applicable Transferable: CSU/UC

C S 30A INTRODUCTION TO LINUX Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

Introduction to the Linux operating system primarily focused on command line usage. Covers the history, kernel, file systems, shells and user utilities. Also introduces students to the fundamentals of shell programming, processes, communications, and basic security.

FHGE: Non-GE Applicable

Transferable: CSU/UC

FOOTHILL COLLEGE

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.) Introduction to object oriented programming in JavaScript. Topics include:

Grade Type: Letter Grade or Pass/No Pass

C S 21A

C S 21B

C S 22A

Not Repeatable.

Not Repeatable.

ging techniques and testing.

FHGE: Non-GE Applicable

FHGE: Non-GE Applicable

edge of HTML and CSS.

Not Repeatable.

client and server side programming, Model/View/Controller architecture, current tools and testing methods, interaction with HTML and CSS, Document Object Model, XML and JSON. Students will have practice writing programs for mobile web browsers and creating dynamic web pages including animation.

PYTHON FOR PROGRAMMERS

Degree & Credit Status: Degree-applicable credit course

Grade Type: Letter Grade or Pass/No Pass

Advisory: One of the following: C S 1A, 1AH, 2A, 3A or equivalent.

4 hours lecture, 2 hours laboratory. (72 hours total per guarter.)

Introduction to the Python language and environment. Covers topics in-

INTERMEDIATE PYTHON

PROGRAMMING Degree & Credit Status: Degree-applicable credit course

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

JAVASCRIPT FOR

PROGRAMMERS

Degree & Credit Status: Degree-applicable credit course

This course builds on the student's prior knowledge of the Python program-

ming language by offering a more in-depth and advanced approach to build-

networked applications, databases, multithreading and regular expressions.

Advisory: One of the following: C S 1A, 1AH, 2A, 3A or equivalent; knowl-

ing effective Python applications. Specific topics include user interfaces,

The course reinforces object oriented design, thorough documentation,

Advisory: C S 3A or 21A or relevant experience.

Grade Type: Letter Grade or Pass/No Pass

testing and conventional programming style.

cluding object oriented programming, elementary data structures, modules,

Transferable: CSU/UC

Transferable: CSU/UC

algorithms, recursion, data abstraction, code style, documentation, debug-

FHGE: Non-GE Applicable Transferable: CSU/UC

RUBY & FUNCTIONAL 4.5 Units C S 26A PROGRAMMING

Degree & Credit Status: Degree-applicable credit course

Advisory: One of the following: C S 1A, 1AH, 2A; not open to students with credit in C S 85A.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

Introduction to functional programming languages using Ruby as an educational and practical development environment. Students will learn how to create programs that use the functional paradigm while obeying the object-oriented structure inherent in the language. Many examples and topics will be covered including database-driven web applications using the Rails framework.

FHGE: Non-GE Applicable

4.5 Units

198

C S 30E

Transferable: CSU/UC

C S 31A INTRODUCTION TO DATABASE 4.5 Units MANAGEMENT SYSTEMS

Degree & Credit Status: Degree-applicable credit course Advisory: One of the following: C S 1A, 1AH, 2A, 3A or equivalent. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

Introduction to database design and use of database management systems for applications. Topics include database architecture, comparison to file-based systems, historical data models, conceptual model; integrity constraints and triggers; functional dependencies and normal forms; relational model, algebra, database processing and Structured Query Language (SQL), database access from Applications-Embedded SQL, JDBC, Cursors, Dynamic SQL, Stored Procedures. Emerging trends will be studied, such as NoSQL databases, internet and databases and Online Analytical Processing (OLAP). A team project that builds a database application for a real-world scenario is an important element of the course.

SOFTWARE ENGINEERING

FHGE: Non-GE Applicable

C S 40A

Transferable: CSU/UC

4.5 Units

METHODOLOGIES Degree & Credit Status: Degree-applicable credit course Advisory: C S 1B or 2B.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

A collaboration-oriented course that trains students in the techniques currently used by software engineers to develop reliable products in an efficient manner. The course emphasizes Agile methods and a variety of tools used during the software development lifecycle.

FHGE: Non-GE Applicable Transferable: CSU/UC

C S 48ADATA VISUALIZATION4.5 UnitsDegree & Credit Status: Degree-applicable credit courseAdvisory: MATH 10, MATH 17, PSYC 7 or SOC 7.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

Introduction to the effective processing and communication of data. Topics include identifying the key techniques and theory used in data visualization, creating and designing static and interactive visualizations using data, and communicating insight through data visualization to an intended audience. Students will use a data visualization package, such as R, Tableau, or Mat-PlotLib in Python.

FHGE: Non-GE Applicable

Transferable: CSU/UC

C S 49 FOUNDATIONS OF COMPUTER 2 Units PROGRAMMING

Degree & Credit Status: Degree-applicable credit course Advisory: MATH 105 or equivalent; concurrent enrollment in ESLL 125 or ENGL 209.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2 hours lecture, 1 hour laboratory. (36 hours total per quarter.)

Introduction to basic computer programming concepts using an object-oriented language. Intended for students interested in C S 1A or 2A, but would like a more gradual entry to computing foundations. Coding topics include hands-on practice with software engineering tools, simple programs, variables, control structures, functions, and input /output. Concept topics include the comprehension of specifications, adherence to style guidelines, and the importance of testing to ensure that programs are usable, robust and modifiable.

FHGE: Non-GE Applicable

Transferable: CSU/UC

C S 50A NETWORK BASICS (CCNA)

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

Introduction to the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. Students will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. FHGE: Non-GE Applicable Transferable: CSU

C S 50B

ROUTING & SWITCHING

4.5 Units

4.5 Units

ESSENTIALS (CCNA) Degree & Credit Status: Degree-applicable credit course Advisory: C S 50A.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

This course describes the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course students will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANs, and inter- VLAN routing in both IPv4 and IPv6 networks. This course is preparation for the CCENT and CCNA certification exams. This course describes the architecture, components, and operations of routers, and explains the principles of routing and routing protocols. Students will be given the opportunity to configure a router for basic and advanced functionality. Students will be able to configure and troubleshoot routers and resolve common issues with RIPv1, RIPv2, EIGRP, and OSPF in both IPv4 and IPv6 network.

FHGE: Non-GE Applicable

Transferable: CSU

C S 50C

SCALING LOCAL AREA NETWORKS (CCNA)

Degree & Credit Status: Degree-applicable credit course Advisory: C S 50A.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

This course describes the architecture, components, and operations of routers and switches in larger and more complex networks. Students learn how to configure routers and switches for advanced functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, and STP in both IPv4 and IPv6 networks. Students will also develop the knowledge and skills needed to implement a WLAN in a small-to-medium network. **FHGE: Non-GE Applicable** Transferable: CSU

C S 50D CONNECTING NETWORKS-WANS 4.5 Units (CCNA)

Degree & Credit Status: Degree-applicable credit course

Advisory: C S 50A, 50B and 50C. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

This course discusses the WAN technologies and network services required by converged applications in a complex network. The course enables students to understand the selection criteria of network devices and WAN technologies to meet network requirements. Students learn how to configure and troubleshoot network devices and resolve common issues with data link protocols. Students will also develop the knowledge and skills needed to implement IPSec and virtual private network (VPN) operations in a complex network.

FHGE: Non-GE Applicable

Transferable: CSU

C S 50E INTRODUCTION TO IP NETWORK SECURITY

Degree & Credit Status: Degree-applicable credit course Advisory: C S 50A, 50B, 50C and 50D or equivalent knowledge and skills. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

Next step for students who want to enhance their CCNA-level skill set and help meet the growing demand for network security professionals. Provides an introduction to the core security concepts and skills needed for the installation, troubleshooting, and monitoring of network devices to maintain the integrity, confidentiality, and availability of data and devices. Prepares students for entry-level security career opportunities and the globally recognized Cisco CCNA Security certification.

FHGE: Non-GE Applicable **Transferable: CSU**

C S 52A

4.5 Units **ADVANCED IP ROUTING PROTOCOLS & SERVICES**

Degree & Credit Status: Degree-applicable credit course Advisory: C S 50B or equivalent experience. Grade Type: Letter Grade or Pass/No Pass

(CCNP)

Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

The ROUTE course is designed to help students advance their knowledge and skills and work independently on complex network solutions. Students will plan, configure and verify the implementation of secure enterprise LAN and WAN routing solutions using a range of routing protocols. Configuration of solutions to support branch offices and mobile workers will be presented. This course uses the official Cisco Academy CCNP ROUTE curriculum and is designed to provide preparation for the CCNP ROUTE certification exam.

ADVANCED SWITCHING &

FHGE: Non-GE Applicable

C S 52B

Transferable: CSU

4.5 Units

4.5 Units

CAMPUS LAN DESIGN (CCNP) Degree & Credit Status: Degree-applicable credit course Advisory: C S 50C or equivalent experience. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

The course provides the knowledge and skills necessary to plan, configure and verify the implementation of complex enterprise switching solutions using Cisco's Campus Enterprise Architecture. Secure integration of VLANs, WLANs, voice and video into campus networks is also provided. The material is presented in a lecture and discussion format supplemented by comprehensive laboratory exercises. This course uses the official Cisco Academy CCNP SWITCH curriculum and is designed to provide preparation for the CCNP SWITCH certification exam. **Transferable: CSU**

FHGE: Non-GE Applicable

C S 52C

ADVANCED NETWORK TROUBLESHOOTING (CCNP)

4.5 Units

Degree & Credit Status: Degree-applicable credit course Advisory: C S 52A, 52B or equivalent experience. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

This course provides the knowledge and teaches the skills necessary to plan and perform regular maintenance on complex enterprise routed and switched networks and use technology-based practices and a systematic ITIL-compliant approach to perform network troubleshooting. This course uses the official Cisco Academy CCNP TSHOOT curriculum and is designed to provide preparation for the CCNP ROUTE certification exam. FHGE: Non-GE Applicable **Transferable: CSU**

C S 53A



Degree & Credit Status: Degree-applicable credit course

Advisory: C S 50A.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

The fundamental aspects of computer and network security as it pertains to policy deployment and network defense. Core topics include cryptography, public key infrastructure, standards and protocols, physical security, infrastructure security, remote access, messaging, intrusion detection and system baselines. Industry-specific topics include certifications for Comp-TIA's Security+, ISC2, SSCP. FHGE: Non-GE Applicable **Transferable: CSU**

C S 53B **FIREWALLS & THREAT** 4.5 Units MANAGEMENT

Degree & Credit Status: Degree-applicable credit course Advisory: C S 53A.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

Survey of topics in field of firewall, advanced threats and their characteristics. Students will learn how to manage Firewalls and advanced threats using security policies, profiles and signatures to protect networks against emerging threats.

FHGE: Non-GE Applicable Transferable: CSU

C S 53C **ETHICAL HACKING** Degree & Credit Status: Degree-applicable credit course Advisory: C S 53A.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

Survey current techniques used by malicious hackers to attack computers and networks, and it develops the defenses that security professionals use to defend Windows and Linux systems from such attacks. Topics will be presented in the context of legal restrictions and ethical guidelines. Handson labs, playing the role of both attacker and defender, using port scans, footprinting, buffer overflow exploits, SQL injection, privilege escalation, Trojans, and backdoors.

FHGE: Non-GE Applicable **Transferable: CSU**

INTRODUCTION TO COMPUTER 4.5 Units C S 53D FORENSICS

Degree & Credit Status: Degree-applicable credit course Advisory: C S 53A.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

Provides an overview of the forensic rules-of-evidence, evidence integrity, factual reporting, and the role of expert opinion in legal proceedings. The course is appropriate for students from information technology-related field. No previous experience in computer forensics is required. All students must agree with and sign the CyberSecurity Institute Code of Ethics and Conduct.

FHGE: Non-GE Applicable

Transferable: CSU

4.5 Units

4.5 Units

4.5 Units

CONFIGURE & MANAGE Degree & Credit Status: Degree-applicable credit course Advisory: C S 50A, 50B, 50C. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

C S 54B

C S 54D

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

This course covers all aspects of server virtualization and draws its examples from VMware vSphere. This hands-on training course explores installation, configuration, and management of VMware vSphere, which consists of VMware ESXi and VMware vCenter Server. The course is based on ESXi and vCenter Server. Completion of this course satisfies the prerequisite for taking the VMware Certified Professional exam. Course is taught by a VMware certified instructor.

VMWARE VSPHERE INSTALL,

FHGE: Non-GE Applicable	Transferable: CSU	

CLOUD INFRASTRUCTURE

& SERVICES Degree & Credit Status: Degree-applicable credit course Advisory: C S 50A.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

Presents the transition from a Classic Data Center environment to a Virtual Data Center. The student will understand Cloud virtualization at each layer--compute, storage, network, desktop, and application--along with business continuity in a Virtual Data Center (VDC) environment. Explanation and discussion of Cloud computing basics, infrastructure components, service management activities, security concerns, and considerations for Cloud adoption.

FHGE: Non-GE Applicable

Transferable: CSU

C S 55A

INTRODUCTION TO CLOUD 4.5 Units COMPUTING IN AMAZON WEB SERVICES

Degree & Credit Status: Degree-applicable credit course Advisory: C S 50A.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per guarter.)

This course introduces cloud computing which shifts information systems from on premises computing infrastructure to highly scalable internet architectures using the Amazon AWS platform. The course provides a basic understanding of cloud computing technologies and provides students with the abilities to configure, deploy and manage cloud facilities including simple and complex compute instances, web servers and web services. The course also demonstrates/makes available the AWS Educate platform for educational, industry career path guidance and career opportunities. FHGE: Non-GE Applicable **Transferable: CSU**

C S 55B

DATABASE ESSENTIALS IN **AMAZON WEB SERVICES**

Degree & Credit Status: Degree-applicable credit course Advisory: C S 55A. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.) This course addresses cloud database management which supports a

number of different approaches for storing data. In the course, students define, operate and scale both SQL and noSQL data storage solutions. This course considers factors that should be balanced during the design of a storage solution. Principles are applied by performing exercises using Amazon RDS and SQL to create and fill tables, retrieve and manipulate data. Object-based APIs are used to serialize objects to Amazon DynamoDB for noSQL solutions. Topics include automated backups, transaction logs, restoration and retention.

FHGE: Non-GE Applicable

Transferable: CSU

C S 55C

COMPUTE ENGINES IN AMAZON 4.5 Units WEB SERVICES

Degree & Credit Status: Degree-applicable credit course Advisory: C S 55A.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

In this course, students explore how cloud computing systems are built using a common set of core technologies, algorithms, and design principles centered around distributed systems. Students will use the Amazon Web Services (AWS) Management Console to provision, load-balance and scale their applications using the Elastic Compute Cloud (EC2) and the AWS Elastic Beanstalk. The course discusses, from a developer perspective, the most important reasons for using AWS and examines the underlying design principles of scalable cloud applications.

FHGE: Non-GE Applicable **Transferable: CSU**

C S 55D SECURITY IN AMAZON WEB 4.5 Units SERVICES

Degree & Credit Status: Degree-applicable credit course Advisory: C S 55A.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

This course focuses on protecting the confidentiality, integrity and availability of computing systems and data. Students learn how Amazon Web Service (AWS) uses redundant and layered controls, continuous validation and testing, and a substantial amount of automation to ensure the underlying infrastructure is continuously monitored and protected. Students examine the AWS Shared Responsibility Model and access the AWS Management Console to learn more about security tools and features provided by the AWS platform.

FHGE: Non-GE Applicable

Transferable: CSU

4.5 Units

Degree & Credit Status: Degree-applicable credit course

C S 56B

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

IT ESSENTIALS

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

The course presents a working knowledge of computer internals and provide practical skills in computer hardware assembly and software installation. Emphasis is placed on troubleshooting problems, throughout the process Activities includes hands-on labs and virtual learning tools which encourage critical thinking and complex problem-solving skills. FHGE: Non-GE Applicable **Transferable: CSU**

C S 60C **CONFIGURING ADVANCED** 4.5 Units WINDOWS SERVER 2012 SERVICES

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

Introduction to configuring advanced services on Windows Server 2012. It provides both lecture and laboratory exercises to enable the student to deploy, manage, and maintain servers, configure file and print services, configure network services and access, configure a network policy server infrastructure, and configure and manage group policy. Transferable: CSU FHGE: Non-GE Applicable

4.5 Units

C S 63A

DEVELOPING APPLICATIONS FOR IOS

Degree & Credit Status: Degree-applicable credit course Advisory: C S 1B, 2B or 3B. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

An introduction to programming the iPhone, iPad and iPod Touch devices. Covers Swift, Cocoa Touch, and the Model/View/Controller architecture. Students will learn the basics of Swift and will acquire practical experience with the tools, techniques, and concepts needed to build a basic iOS app from scratch.

FHGE: Non-GE Applicable Transferable: CSU

C S 64A	WRITING APPS FOR THE	4.5 Units	
	ANDROID IN JAVA		
D			

Degree & Credit Status: Degree-applicable credit course Advisory: C S 1B or 2B. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

C S 71A

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

DATA ANALYTICS &

Introduction to mobile apps programming in Java for the Android. Coding topics include the Android SDK for Eclipse, the ADT Plugin, XML fundamentals and a survey of API methods and objects used to control the Android user interface. Concept topics include layouts, activity lifecycles, runtime binding, intents, location awareness, audio, video, OpenGL ES, and monetizing apps.

FHGE: Non-GE Applicable

Transferable: CSU

4.5 Units

4.5 Units

MANAGEMENT Degree & Credit Status: Degree-applicable credit course Advisory: MATH 10, C S 31A, C S 21A or 21B. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.) Introduction of Big Data ecosystems, tool infrastructure and industrial applications. Overview of the evolution, characteristics and significance of Big Data and the analytics process model. Hands-on exploration of Big Data solutions for specific industries. Concept topics include data management such as acquiring, cleansing and normalizing Big Data; application to log analytics, fraud detection, social media patterns, call centers, etc.; review of traditional SQL based Relational Database Management and issues with scaling when datasets are too big; methodology of NoSQL; big data technology infrastructures, such as the Hadoop framework and ecosystem components including Hadoop Distributed File Systems (HDFS), Hbase, MapReduce, Oozie, Pig and functionality used in Big Data; survey of tools in analytics and data visualization (DVT); survey of deployment patterns used in various industries.

FHGE: Non-GE Applicable

Transferable: CSU

C S 80A OPEN SOURCE CONTRIBUTION 4.5 Units

Degree & Credit Status: Degree-applicable credit course Advisory: C S 40A; C S 1A (or 1AH) and 1B (or 1M), or 2A and 2B. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

Introduction to the tools for, and culture of, contributing to open source software projects. Tool-based topics include Git repositories, pull requests, forks, logs, merges, tagging, rebasing and server configuration. Concept topics include commit guidelines, branching workflows, small-team vs. large-team workflows, project maintenance, iterative staging, selecting viable source communities, joining public projects, setting up accurate dev environments, testing and prepping patch merges, and becoming a committer. FHGE: Non-GE Applicable Transferable: CSU

C S 81A 3-D GRAPHICS PROGRAMMING

4.5 Units

Degree & Credit Status: Degree-applicable credit course Advisory: One of the following: C S 1B, 2B, 20A, 21B. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

Introduction to 3-D graphics programming using OpenGL, intended for anyone interested in gaining 3-D expertise for games, scientific visualization, desktop and mobile apps. Coding topics include a systematic study of the OpenGL API in conjunction with any of these programming languages: Java, C++, C# or Objective C (student's choice). Concept topics include viewports, graphics primitives, 3-D motion matrices, normal vectors, shaders, fragment and pixel buffers, light simulation, polygons, virtual cameras, image pipelines, texture mapping and alpha blending.

FHGE: Non-GE Applicable Transferable: CSU

C S 82A INTRODUCTION TO SOFTWARE 4.5 Units QUALITY ASSURANCE

Degree & Credit Status: Degree-applicable credit course Advisory: Knowledge of an object-oriented programming language. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.) Introduction to Software Quality Assurance principles, techniques, processes and tools. A team project takes students through the planning

and implementation of the test and release of a software product using a current toolset.

FHGE: Non-GE Applicable Transferable: CSU

C S 84A DATABASE-DRIVEN WEB 4.5 Units APPLICATION DEVELOPMENT

Degree & Credit Status: Degree-applicable credit course Advisory: C S 31A, 49 and GID 57 or equivalent.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

Students evolve simple static websites into dynamic, database-driven web applications. Students will use the popular LAMP framework (Linux, Apache, MySQL, and PHP), in combination with JavaScript, CSS, and HTML5. FHGE: Non-GE Applicable Transferable: CSU

C S 84B DISTRIBUTED DATABASES 4.5 Units

Degree & Credit Status: Degree-applicable credit course Advisory: C S 31A or equivalent.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 2 hours laboratory. (72 hours total per quarter.)

An introduction to distributed data management including distributed database design, implementation techniques including concurrency control, query processing and optimization, data replication, integration and peer-to-peer systems. Distributed database solutions are also presented, including data management systems for cloud computing. FHGE: Non-GE Applicable Transferable: CSU

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Counseling and Student Services

650.949.7423 foothill.edu/counseling/

CNSL1 COLLEGE SUCCESS 3 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Maximum UC credit awarded for completion of CNSL 1 and CNSL 5 is 4.5 quarter units.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Examination of factors that contribute to college success, including responsibility/control; competition; task-precision; expectations; wellness; time management; college involvement; family/support systems involvement. Activities include: testing and individualized evaluations; group processing and practicum.

FHGE: Lifelong Understanding Transferable: CSU/UC

INTRODUCTION TO COLLEGE CNSL 5 Degree & Credit Status: Degree-applicable credit course

Advisory: ESLL 236 & 237; maximum UC credit awarded for completion of CNSL 1 and CNSL 5 is 4.5 quarter units; not open to students with credit in CNSL 50.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Introduction to Foothill College academic policies, resources, programs and services; tools for career exploration, determination and decision making; choosing the right classes based on career/academic goals, the transfer process; study skills; time management and formulation of computer based educational plans.

FHGE: Non-GE Applicable

Transferable: CSU/UC

EXPLORING LEADERSHIP 4 Units CNSL 6 Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in CNSL 61. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Explores concepts of leadership theory with direct applications for leading organizations and creating positive social change. The intent is to provide students with a foundational understanding of the knowledge and skills needed to be an effective leader. This course utilizes experiential activities and group projects as a primary method for applying theories and concepts to the everyday practice of leadership. In this course, leadership is understood primarily as a function of personal development with the intention to create transformational change in one's community. Transferable: CSU/UC

FHGE: Non-GE Applicable

CNSL 8 **TRANSFER READINESS**

1 Unit

Degree & Credit Status: Degree-applicable credit course Advisory: One of the following: ENGL 1A, 1AH, or 1S & 1T; not open to students with credit in CNSL 8H, 85A, or 85H. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Provides a global perspective about the transfer process from a California community college to a four-year university, including transfer exploration, transfer policies, academic requirements, transfer planning and process, and available tools and services in support of transfer goals. Students have the opportunity to broaden their perspectives by examining the role of higher education in society. Guides students to examine their life plan and achievements, and to develop a strong personal statement. Students will complete a university cost analysis, as well as explore resources to help fund their education.

FHGE: Non-GE Applicable FOOTHILL COLLEGE Transferable: CSU/UC

CNSL 8H HONORS TRANSFER READINESS

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant. Advisory: One of the following: ENGL 1A, 1AH, or 1S & 1T; not open to students with credit in CNSL 8, 85A, or 85H. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Provides a global perspective about the transfer process from a California community college to a four-year university, including transfer exploration, transfer policies, academic requirements, transfer planning and process, and available tools and services in support of transfer goals. Students have the opportunity to broaden their perspectives by examining the role of higher education in society. Guides students to examine their life plan and achievements, and to develop a strong personal statement. Students will complete a university cost analysis, as well as explore resources to help fund their education. This honors course includes digging deeper into the pedagogy of higher education, exploring additional highly selective colleges and universities, and requires application of higher-level critical thinking, reading and writing skills.

FHGE: Non-GE Applicable

Transferable: CSU/UC

CNSL 52

COLLEGE & LIFE MANAGEMENT

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in CNSL 2. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Examination of psycho-social and wellness issues related to personal and academic success. Explores theories and practice for effective goal-setting, communication, health and wellness, learning and social growth. FHGE: Lifelong Understanding Transferable: CSU

CNSL 56 LIFELONG LEARNING 3 Units STRATEGIES Degree & Credit Status: Degree-applicable credit course

Advisory: Not open to students with credit in CRLP 55. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Interactive, applied course to teach learning strategies and skills necessary to successfully reach educational, career and personal objectives. Topics include time management, memory techniques, study reading, note taking, test preparation, other learning strategies and the techniques to apply them in college and throughout life.

FHGE: Lifelong Understanding Transferable: CSU

CNSL 72 STRESS, WELLNESS & COPING

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in SPED 72. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Explore and become familiar with symptoms of stress, depression, and anxiety. Examine the social and psychological factors that contribute to these problems and the patterns of behavior which result. Learn, practice, and understand effective coping strategies to promote self-awareness, personal wellness, and academic success. Emphasis placed on mental health and application of self-help skills.

FHGE: Lifelong Understanding

Transferable: CSU

4 Units

1 Unit

1 Unit

CNSL 86 INTRODUCTION TO LEADERSHIP

Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Introduction to the dynamics of working groups and the impact of leadership on the effectiveness of groups; examination of the linkage between concepts and theories of leadership to the everyday functioning of student organizations. FHGE: Non-GE Applicable **Transferable: CSU**

	II	
CNSL 87	LEADERSHIP: THEORIES	1 Unit
	& PRACTICES	

Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Further exploration of leadership application to the everyday functioning of student organizations; understand the role played by structure and governance models in organizational effectiveness. Understand and apply the concepts of team building and communication in groups. Advanced development of leadership goals and application of group goal setting strategies. Affiliation with student government or other campus leadership position required.

FHGE: Non-GE Applicable Transferable: CSU

LEADERSHIP: THEORIES, 1 Unit **CNSL 88 STYLES & REALITIES**

Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

CNSL 89

1 hour lecture. (12 hours total per quarter.)

Continued development and further study in the dynamics of working groups with a focus on community advocacy, leadership ethics training, and program planning. **Transferable: CSU**

FHGE: Non-GE Applicable

REALITIES Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

ADVANCED LEADERSHIP

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Advanced study in the dynamics of working groups and the impact of leadership on the effectiveness of groups; advanced practical application of group and individual leadership techniques.

FHGE: Non-GE Applicable **Transferable: CSU** 1 Unit

INTRODUCTION TO ONLINE LEARNING

Degree & Credit Status: Degree-applicable credit course Advisory: Familiarity with the internet; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture, 1.5 hours laboratory. (30 hours total per quarter.)

Concepts, tools and techniques for success in online learning. Through self-assessment, online interaction, and use of the various tools and resources of the internet, the student will develop an understanding of the skills needed to be successful when engaging in online instruction. FHGE: Lifelong Understanding **Transferable: CSU**

EOPS: THE ROAD TO COLLEGE **CNSL 275** 1 Unit SUCCESS-MORE THAN JUST BOOKS

Degree & Credit Status: Non-degree-applicable credit course Advisory: Not open to students with credit in CNSL 175. Grade Type: Pass/No Pass Only

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Course will introduce EOPS/CARE students to various EOPS services, policies and requirements governing programs. Course encourages collaborative learning, educational attainment, promotes student retention, persistence, success. Topics included: financial aid/scholarship applications, identifying campus resources, budgeting and managing money, cultural identity and experiences, goal-setting, self-esteem, career options, managing time.

FHGE: Non-GE Applicable Transferable: None

CREATIVE WRITING

Language Arts 650.949.7678 foothill.edu/la/

CRWR 6 INTRODUCTION TO CREATIVE 5 Units WRITING

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 Unit

204

5 hours lecture. (60 hours total per quarter.)

Explicit instruction and practice in writing poetry and short fiction. Assignments include reading, analyzing and responding to published and student work and writing original work. Analysis of public readings and/or interviews with writers.

FHGE: Humanities

Transferable: CSU/UC

CRWR 25A POETRY IN COMMUNITY

Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Contemporary local poets guest lecture and engage in conversation with students about process, poetics, and approach to publishing. Emphasis on ways poetry has historically created community to honor and maintain cultural knowledge and to complicate single narratives. Special emphasis on integrated reading and writing for literary analysis, including reflective and creative stylistic emulation of poets studied. Focus on sharing new work through organizing community reading and publishing class anthology. **FHGE: Humanities** Transferable: CSU/UC

INTRODUCTION TO SHORT **CRWR 39A** 5 Units **FICTION WRITING**

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.) Explicit instruction and practice in writing a variety of short fiction forms, including short narratives, flash fiction and traditional short stories. Assignments include reading, analyzing and responding to published works and student work, as well as writing original work. Analysis of public readings and/or interviews with writers.

FHGE: Humanities Transferable: CSU/UC

CRWR 39B ADVANCED SHORT FICTION 5 Units WRITING

Degree & Credit Status: Degree-applicable credit course Prerequisite: CRWR 39A. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Explicit instruction and practice in writing a variety of short fiction forms, including short narratives, flash fiction and traditional short stories. Assignments include reading, analyzing and responding to published works and student work, as well as writing original work. Class presentations and workshop leadership. Analysis of public readings and/or interviews with writers. FHGE: Non-GE Applicable Transferable: CSU/UC

POETRY WRITING CRWR 41A

Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Explicit instruction and practice in writing poetry. Assignments include reading, analyzing and responding to published and student work and writing original work.

FHGE: Humanities

Transferable: CSU/UC

CRWR 41B **ADVANCED POETRY WRITING**

5 Units

Degree & Credit Status: Degree-applicable credit course Advisory: CRWR 41A.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Explicit instruction and practice in reading and writing poetry at an advanced level. Assignments include reading, analyzing and responding to published and student work and writing original work. Class presentation and workshop leadership required.

FHGE: Non-GE Applicable

Transferable: CSU/UC

DANCE

5 Units

Kinesiology and Athletics 650.949.7741 foothill.edu/dance/

Foothill offers dance activity courses in four different family categories. No single course may be repeated. Enrollment is limited to six courses per family within the Foothill-De Anza Community College District. Please refer to the De Anza College Catalog for the corresponding families and courses.

Ballet & Conditioning Family: DANC 1A, 1B, 1C & 14

Dance Performance Family: DANC 7, 11A, 11B, 11C, 12A, 12B & 12C

Social & Cultural Dance Family: DANC 4A, 4B, 4C, 6, 18A & 18B

Dance Technique Family: DANC 2A, 2B, 3A, 3B, 13A & 13B

DANC 1A **BEGINNING BALLET**

1 Unit

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Ballet & Conditioning family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Introduction to the elementary fundamentals of classical ballet technique and training. Includes the basic vocabulary and practice of beginning barre and center floor exercises. Transferable: CSU/UC

FHGE: Lifelong Understanding

DANC 1B INTERMEDIATE BALLET

1 Unit

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Ballet & Conditioning family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Continuation into the intermediate fundamentals of ballet technique and training. Includes the intermediate vocabulary and practice of barre and center floor exercises.

FHGE: Lifelong Understanding

Transferable: CSU/UC

DANC 1CADVANCED BALLET1 LDegree & Credit Status: Degree-applicable credit course	Unit D	DANC 4A	BEGINNING BALLR SOCIAL DANCE	00M &	1 Unit
Advisory: This course is included in the Ballet & Conditioning family of	0	Degree & Credit	Status: Degree-applicable	credit course	
activity courses. Grade Type: Letter Grade or Pass/No Pass		-	urse is included in the Soc not open to students with		mily of
Not Repeatable.		-	er Grade or Pass/No Pass		
3 hours laboratory. (36 hours total per quarter.)		lot Repeatable.			
Continuation into the advanced fundamentals of ballet technique and	3	hours laborator	y. (36 hours total per qua	rter.)	
training. Includes the advanced vocabulary and practice of barre and cen	nter lr	ntroduction to b	eginning ballroom and soc	ial dance techniques. In	struction
floor exercises.	a	nd practice in be	ginning Swing, Cha-Cha, V	Naltz, Fox Trot, Rhumba	and
FHGE: Lifelong Understanding Transferable: CSU/UC		ango dances.			
	F	HGE: Lifelong U	Inderstanding T	ransferable: CSU/UC	
DANC 2A BEGINNING MODERN DANCE 1 U	Unit				
Degree & Credit Status: Degree-applicable credit course	0	DANC 4B	INTERMEDIATE BA	LLROOM	1 Unit
Advisory: This course is included in the Dance Technique family of activi	vity		& SOCIAL DANCE		
courses; not open to students with credit in DANC 2.	C	Degree & Credit	Status: Degree-applicable	credit course	
Grade Type: Letter Grade or Pass/No Pass	۵	dvisory: This co	urse is included in the Soc	ial & Cultural Dance far	mily of
Not Repeatable.	a	ctivity courses.			
3 hours laboratory. (36 hours total per quarter.)		••	er Grade or Pass/No Pass		
Introduction to the elementary fundamentals of modern dance techniqu	ue N	lot Repeatable.			
and training. Course includes the basic vocabulary and practice of beginr modern center barre and floor exercises.			y. (36 hours total per quant termediate ballroom and state		Instruc-
FHGE: Lifelong Understanding Transferable: CSU/UC			in intermediate Swing, Ch		
······································		nd Tango dances		,,, -	
DANC 2B INTERMEDIATE MODERN DANCE 1 U		HGE: Lifelong U		ransferable: CSU/UC	
Degree & Credit Status: Degree-applicable credit course	onne		•		
Prerequisite: DANC 2A.	г	DANC 4C	ADVANCED BALLR		1 Unit
Advisory: This course is included in the Dance Technique family of activi			SOCIAL DANCE	ooma	1 Onit
courses.	•	Degree & Credit	Status: Degree-applicable	credit course	
Grade Type: Letter Grade or Pass/No Pass			urse is included in the Soc		milv of
Not Repeatable.		ctivity courses.			
3 hours laboratory. (36 hours total per quarter.)			er Grade or Pass/No Pass		
Continuation into the intermediate fundamentals of modern technique a		lot Repeatable.			
training. Includes the intermediate vocabulary and practice of center flo	oor 3	hours laborator	y. (36 hours total per qua	rter.)	
and across the floor exercises.	Ir	ntroduction to a	dvanced ballroom and soci	al dance techniques. In	struction
FHGE: Lifelong Understanding Transferable: CSU/UC		nd practice in ad ango dances.	lvanced Swing, Cha-Cha, V	Valtz, Fox Trot, Rhumba	and
DANC 3A BEGINNING JAZZ DANCE 1 U		HGE: Lifelong U	Inderstanding T	ransferable: CSU/UC	
Degree & Credit Status: Degree-applicable credit course	onne	5	5		
Advisory: This course is included in the Dance Technique family of activi	vity C	DANC 6	BEGINNING COUN	TRY-WESTERN	1 Unit
courses.	-				
Grade Type: Letter Grade or Pass/No Pass			Status: Degree-applicable urse is included in the Soc		milu of
Not Repeatable. 3 hours laboratory. (36 hours total per quarter.)			arse is included in the Soc		illy of
Introduction to the fundamental technique of jazz dance. Emphasis is pla		ctivity courses. Stado Typo: Lotte	er Grade or Pass/No Pass		
on class participation so that students may develop their knowledge and		Not Repeatable.			
understanding of the basic principles of jazz dancing, including warm-up,			y. (36 hours total per qua	rter.)	
stretch, isolations and choreography.			ne fundamental skills for C		e Danc-
FHGE: Lifelong Understanding Transferable: CSU/UC			participate in a variety of		
······································		•	skill, choreography and tir		•
DANC 3B INTERMEDIATE JAZZ DANCE 1 U		lancing.			
Degree & Credit Status: Degree-applicable credit course	F	HGE: Lifelong U	inderstanding Ti	ransferable: CSU/UC	
Prerequisite: DANC 3A.					
Advisory: This course is included in the Dance Technique family of activi	vity C	DANC 7	CHOREOGRAPHY		1 Unit
courses.		-	Status: Degree-applicable		
Grade Type: Letter Grade or Pass/No Pass		•	urse is included in the Dar	ce Performance family	of
Not Repeatable.		ctivity courses.			
3 hours laboratory. (36 hours total per quarter.)			er Grade or Pass/No Pass		
Opportunity to practice and develop intermediate jazz techniques. Empl		lot Repeatable.			
sis on techniques presented, as well as information on historical and styli			y. (36 hours total per qua		C 1
perspectives of this dance form.			e exploration of the basic		
FHGE: Lifelong Understanding Transferable: CSU/UC		eography and co	mposition and the tools fo	or defining the creative	process.

reography and composition and the tools for defining the creative process. FHGE: Lifelong Understanding Transferable: CSU/UC

DANC 10 **TOPICS IN DANCE HISTORY**

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in H P 70. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

A comprehensive study of the evolution of theatrical dance in the western world from the 16th century through the present day. Includes the eras of French court ballet, ballet d'action, romantic and classical ballet, modern, post-modern and contemporary dance styles. Examines topics in dance as an art form, including origin and history of major styles, traditions, trends; outstanding artists and works; practice in observing and understanding dance in a historical and cultural context. Analysis of dance as an expression of social order, power, classical art, a medium of cultural fusion, and as an expression of individual artists.

FHGE: Humanities Transferable: CSU/UC

DANC 11A **REPERTORY DANCE I**

4 Units

5 Units

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Dance Performance family of activity courses; not open to students with credit in DANC 11. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture, 6 hours laboratory. (96 hours total per quarter.) Introduction to the basic concepts of dance performance. Includes beginning experience with the rehearsal process, learning dance works and preparation for a performance. Students will be given the opportunity to perform for a live audience and to collaborate with and perform for area colleges and universities, civic, local, or charity organizations. FHGE: Non-GE Applicable Transferable: CSU/UC

DANC 11B CHOREOGRAPHY FOR PERFORMANCE I

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Dance Performance family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture, 6 hours laboratory. (96 hours total per quarter.)

Introduction to the basic concepts of choreography and dance composition. Students will be given the opportunity to create original beginning dance works for individuals and groups to be performed in front of a live audience. Includes beginning dance technique and practice of basic choreographic skills

FHGE: Non-GE Applicable

Transferable: CSU/UC

DANC 11C DANCE PRODUCTION I

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Dance Performance family of activity courses.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2 hours lecture, 6 hours laboratory. (96 hours total per quarter.)

Introduction to the fundamentals of dance production and performance. Includes instruction on how to produce and mount a full-scale theatrical production for public performance, makeup techniques, lighting design and stagecraft. Students will also have the opportunity to perform, choreograph and stagecrew at the beginning dance production skill level. Transferable: CSU/UC

FHGE: Non-GE Applicable

DANC 12A **REPERTORY DANCE II**

Degree & Credit Status: Degree-applicable credit course Prerequisite: DANC 11A.

Advisory: This course is included in the Dance Performance family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture, 6 hours laboratory. (96 hours total per quarter.)

Continuation into the intermediate-level concepts of dance performance. Includes intermediate experience with the rehearsal process, learning dance works and preparation for a performance. Students will be given the opportunity to perform for a live audience and to collaborate with and perform for area colleges and universities, civic, local, or charity organizations. FHGE: Non-GE Applicable Transferable: CSU/UC

DANC 12B	CHOREOGRAPHY FOR	4 Units
	PERFORMANCE II	

Degree & Credit Status: Degree-applicable credit course Prerequisite: DANC 11B.

Advisory: This course is included in the Dance Performance family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture, 6 hours laboratory. (96 hours total per quarter.)

Continuation into the intermediate-level concepts of choreography and dance composition. Students will be given the opportunity to create intermediate original dance works for individuals and groups to be performed in front of a live audience. Includes intermediate dance technique and practice of complex choreography. FHGE: Non-GE Applicable

Transferable: CSU/UC

DANC 12C	DANCE PRODUCTION II	4 Units
	Chatter Design and Backle and Statutes	

Degree & Credit Status: Degree-applicable credit course Prerequisite: DANC 11C.

Advisory: This course is included in the Dance Performance family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture, 6 hours laboratory. (96 hours total per quarter.)

Continuation into the intermediate level of dance production and performance. Includes instruction on how to produce and mount a full-scale theatrical production for public performance, makeup techniques, lighting design and stagecraft. Students will also have the opportunity to perform, choreograph and stagecrew at the intermediate dance production skill level.

FHGE: Non-GE Applicable

Transferable: CSU/UC

1 Unit

DANC 13A

INTRODUCTION TO **CONTEMPORARY DANCE**

Degree & Credit Status: Degree-applicable credit course

Advisory: This course is included in the Dance Technique family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Introduction to the fundamental techniques of contemporary dance. Emphasis is placed on development of the knowledge and understanding the principles of contemporary dance, including basic movement theory, technique and repertoire from global artists.

FHGE: Lifelong Understanding Transferable: CSU/UC

4 Units

207

conjunction with FHGE: Lifelong	• •	alignment and body awa Transferable: CSU/		D A 51A	IN DI
DANC 18B			1 Unit	Degree & Crec Grade Type: Le Not Repeatabl	etter Grad
Degree & Credit Prereguisite: DA		plicable credit course		6.5 hours lectu Introduction to	
Advisory: This co activity courses.	ourse is included in t	the Social & Cultural Dan o Pass	ce family of	tient managem procedures suc crown and brid	nent, inst ch as com Ige appoi
Not Repeatable.				ly prepared or	
Continuation int training. Include: across the floor	 3 hours laboratory. (36 hours total per quarter.) Continuation into the intermediate fundamentals of Hip Hop technique and training. Includes the intermediate vocabulary and practice of isolations and across the floor exercises. FHGE: Lifelong Understanding Transferable: CSU/UC 			impression materials, c resins and amalgams. lı gram; enrollment is lim FHGE: Non-GE Applic	
J	J			D A 51B	IN DI
				Degree & Crec Grade Type: Le Not Repeatabl 2 hours lecture Periodontal an Registered Dei the Dental Ass the program. FHGE: Non-GI	etter Grad e. 3 hours d oral sun ntal Assis isting Pro
🏮 FOOTHIL	L COLLEGE		20	28	

Degree & Credit Status: Degree-applicable credit course

Prerequisite: DANC 13A.

Advisory: This course is included in the Dance Technique family of activity courses.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Continuation into the intermediate contemporary dance technique and training. Includes the intermediate vocabulary and practice of barre, center floor exercises and across the floor combinations.

FHGE: Lifelong Understanding Transferable: CSU/UC

DANC 14 DANCE CONDITIONING

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Ballet & Conditioning family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Introduction to the principles of dance and conditioning through floor work derived from various dance disciplines, including ballet, jazz, contemporary and other psycho-physical disciplines. Topics may include body mechanics, muscle groups critical to dance, flexibility, alignment, self-assessment, dance injury prevention, and strengthening the mind-body-spirit connection.

FHGE: Lifelong Understanding Transferable: CSU/UC

INTRODUCTION TO HIP-HOP DANC 18A 1 Unit DANCE

Degree & Credit Status: Degree-applicable credit course

Advisory: This course is included in the Social & Cultural Dance family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

An introduction to the technique of Hip Hop dance with an integrated fitness approach that focuses on developing the stabilization muscles of the center of the body. Concentration will be on isolations of the muscles of the torso, back, hips, inner and outer thighs, chest and abdominals in

1 Unit

student. Preview of dental practice, including specialties, history, professional and legal responsibilities and the role of the dental auxiliary; HIPAA, patient privacy, Academic Honor Code, student rights and responsibilities, strategies for student success, stress and time management, record keeping, patient communication and office personnel relations. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

Introduction to Foothill College Dental Assisting Program for the incoming

NTRODUCTION TO CHAIRSIDE 10.5 Units DENTAL ASSISTING

Transferable: CSU

is: Degree-applicable credit course ade Only

ours laboratory. (234 hours total per quarter.)

de assisting; use and care of dental equipment, patrument identification; overview of common dental mposite, amalgam, partials, dentures, root canals, pintments; manipulation of dental materials commonthe dental assistant including temporary dressings, cement bases and liners, topical agents, composites, ntended for students in the Dental Assisting Pronited to students accepted in the program. able **Transferable: CSU**

NTERMEDIATE CLINICAL 3 Units DENTAL ASSISTING

is: Degree-applicable credit course ade or Pass/No Pass

rs laboratory. (60 hours total per quarter.)

urgery procedures, equipment, and instruments. istant orthodontic function. Intended for students in rogram; enrollment is limited to students accepted in

> able Transferable: CSU

2 Units 3 Units 4 Units

1 Unit

DANC 73R Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

INDEPENDENT STUDY IN

DANCE

3-12 hours laboratory per week. (36-144 hours total per quarter.)

Provides an opportunity for the student to expand their studies in Dance beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department. FHGE: Non-GE Applicable **Transferable: CSU**

DENTAL ASSISTING

DANC 70R

DANC 71R

DANC 72R

Biological and Health Sciences

650.949.7351 foothill.edu/dentalasst/

D A 50	ORIENTATION TO DENTAL	2.5 Units
	ASSISTING	

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

Not Repeatable.

FHGE: Non-GE Applicable

2.5 hours lecture. (30 hours total per guarter.)

D A 51C

SKILLS Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

ADVANCED DENTAL ASSISTING

Not Repeatable.

2.5 hours lecture, 4 hours laboratory. (78 hours total per quarter.)

Continuation of techniques introduced in D A 51A and 51B to include pulp vitality testing, fluoride administration, intraoral/extraoral exam, polishing removable partial and full dentures, dental implants, and pedodontic procedures. Theory and practice of coronal polishing. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable	Transferable: CSU

D A 53A INTRODUCTION TO 3 Units **RADIOGRAPHY I**

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture, 3 hours laboratory. (60 hours total per quarter.)

Introduction to dental radiology. Emphasis on production, characteristics, biologic effects, radiation safety and protection. Introduction to intraoral long-cone radiographic techniques, film processing and mounting. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

2 Units

1 Unit

1 Unit

209

DENTAL RADIOGRAPHY II D A 53B

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

1 hour lecture, 3 hours laboratory. (48 hours total per quarter.)

Intraoral radiographic technique continued with evaluation of film quality, proficient parallelism with the XCP film holders, proper patient management, and a reduction in film errors. Introduction to direct digital panoramic radiographs and indirect intraoral images using PSP plates. Further identification of radiolucent and radiopaque landmarks of the head and neck using the panoramic image. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

DA53C DENTAL RADIOGRAPHY III

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Last in the three quarter series of dental radiography. Intraoral technique and film evaluation skills practiced on mannequins and performed on patients. Greater emphasis on time efficiency and patient management. Digital radiography is encouraged to be used for patient care. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

Transferable: CSU FHGE: Non-GE Applicable $D \Delta 56$ DENTAL HEALTH EDUCATION

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Principles of patient motivation and education; etiology, process and prevention of dental decay and periodontal disease; design and management of a plaque control program, brushing, flossing, adjunctive aids; dietary counseling for caries risk. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program. **Transferable: CSU** FHGE: Non-GE Applicable

3.5 Units D A 57

OFFICE EMERGENCY PROCEDURES

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Overview of psychological or common medical problems which could lead to an emergency situation in a dental office. Emphasis placed on prevention, management, and legal issues of an emergency response. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

SPECIALTY PRACTICE PROCEDURES

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Familiarization with the scope of practice in both general and specialty dental office settings. The emphasis of this survey class will be on the role of the auxiliary personnel in each of the different types of dental practices. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable Transferable: CSU

DA60A DENTAL OFFICE BUSINESS 2 Units PRACTICES I

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Introduction to appointment management, telephone techniques, communication and patient management, dental and office records management; written correspondence, treatment plan and case presentation; accounts receivables. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable Transferable: CSU

DA60B DENTAL OFFICE BUSINESS 3 Units **PRACTICES II**

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

3 hours lecture, 1 hour laboratory. (48 hours total per quarter.)

Introduction to purchasing, inventory and cost control; banking, payroll and tax procedures; resume writing and interviewing techniques. Includes billing procedures, collection of accounts, treatment plans and case presentations, dental insurance procedures. Instruction in both manual and computer applications. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

DENTAL SCIENCES I D A 62A Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

Not Repeatable.

2 hours lecture, 1 hour laboratory. (36 hours total per quarter.)

Discussion of anatomy and morphology of the teeth, the eruption sequence and process; normal occlusion, development and class of malocclusions; anatomy of the skull, arteries and veins, musculature and nervous structures of the head and neck. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

1 Unit

2 Units

DA58

DA62B DENTAL SCIENCES II

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

An overview of the embryologic development of the structures and tissues of the head, neck, teeth and oral cavity, histology of the hard and soft tissues of the oral cavity. Developmental and structural defects involving the oral cavity and the teeth. Periodontal diseases, caries process and oral pathology. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

DENTAL SCIENCES III DA62C

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Microbiologic and nutritional conditions related to dentistry; etiology, symptoms, transmission and control of infective and contagious diseases, nutritional physiology, and counseling, effect of nutrition on general dental health. Pharmacology of local anesthetic solutions, analgesic gases, and psychosedatives, and antibiotic agents. Use of nitrous oxide equipment. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

SPECIAL PATIENT 1 Unit DA 63 POPULATIONS

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Discussion and development of techniques and/or equipment needed to meet the needs of special patient populations. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

D A 71 **INFECTION CONTROL &** 1.5 Units HAZARDOUS WASTE MANAGEMENT

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

1.5 hours lecture. (18 hours total per quarter.)

Introduction to infectious diseases important to dentistry. Instruction on disinfection, instrument decontamination, sterilization procedures and tray set-up preparation. Regulatory compliance agencies such as OSHA, CDC and ADA recommendations. Hazardous materials management and waste management. Protocols and emergency procedures for hazardous and biohazardous waste or materials. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

DA73

DENTAL ASSISTING SUPERVISED CLINIC Degree & Credit Status: Degree-applicable credit course

Prerequisite: D A 51A. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

17 hours clinic. (204 hours total per quarter.)

Continuation of techniques introduced in D A 51A; supervised clinical experience in externship environment, chairside dental assisting in general practice and specialty clinics at the UCSF School of Dentistry. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

2 Units

2 Units

DENTAL ASSISTING CLINICAL PRACTICE

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

Not Repeatable.

D A 74

17 hours clinic. (204 hours total per quarter.)

Continuation of techniques introduced in D A 51A, 51B and 73; supervised clinical experience in externship environment; advanced and specialty chair side procedures. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

DA 85

RDA REVIEW

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

1 hour lecture, 3 hours laboratory. (48 hours total per quarter.)

Fabrication, seating, temporary cementation and removal of excess cement for temporary crowns. Information necessary for completion of requirements for national certification and Registered Dental Assisting (RDA) licensure in the State of California. Review of chairside dental assisting procedures to prepare for written and practical examinations. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable Transferable: CSU

PIT & FISSURE SEALANTS D 4 88 1.5 Units Degree & Credit Status: Degree-applicable credit course

Grade Type: Letter Grade Only Not Repeatable.

1 hour lecture, 2 hours laboratory. (36 hours total per guarter.)

Theory and practice for placement of sealants by the Registered Dental Assistant to prevent decay in the pit and fissure areas of the dentition. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program. Transferable: CSU

FHGE: Non-GE Applicable

D A 100 LAW & ETHICS FOR THE 1 Unit DENTAL ASSISTANT

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Professional, legal and ethical responsibilities of the dental team with an emphasis on dental assisting. The role of the dental assistant with regards to patient communication and office personnel relations.

FHGE: Non-GE Applicable Transferable: None

5.5 Units

5.5 Units

DENTAL HYGIENE

Biological and Health Sciences 650.949.7538 foothill.edu/dentalhygiene/

DH 50 **ORIENTATION TO DENTAL HYGIENE**

Degree & Credit Status: Degree-applicable credit course Prerequisite: D H 200L. Grade Type: Letter Grade Only

Not Repeatable.

1 hour lecture, 1 hour laboratory. (24 hours total per quarter.)

Overview of dental hygiene as a career. Dental terminology, introduction to instrumentation skills, including: modified pen grasp, fulcrums, adaptation, insertion and activation of the explorer. The course will involve some online homework, observation in clinic, and instrumentation on typodonts. Introduces infectious diseases, control strategies, hazardous materials management and waste management in the dental environment. Strategies & skills for student success in the dental hygiene program. Introduction to evidence-based literature in dental hygiene. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable	Transferable: CSU

D H 70R	INDEPENDENT STUDY IN	1 Unit
	DENTAL HYGIENE	
D H 71R		2 Units
D H 72R		3 Units
D H 73R		4 Units

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

D H 200L

3-12 hours laboratory per week. (36-144 hours total per quarter.)

Provides an opportunity for the student to expand their studies in Dental Hygiene beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department. **Transferable: CSU** FHGE: Non-GE Applicable

INTRODUCTION TO DENTAL

1.5 Units

3 Units

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

HYGIENE

1.5 hours lecture, 1 hour laboratory. (30 hours total per quarter.)

Introduction to the profession of dental hygiene. Emphasis on dental terminology, communication skills, legal and ethical aspects of dental hygiene practice and licensing requirements. An overview of dental hygiene clinical and lab technique including infection control and examination of the head and neck. This course is a prerequisite for the BS degree in Dental Hygiene and is intended for students in that program. **Transferable: None**

FHGE: Non-GE Applicable

DH 300A **ORAL BIOLOGY I**

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in D H 52A. Grade Type: Letter Grade Only Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Comprehensive overview of anatomy of the skull, arteries, veins, and lymphatics, musculature and nervous structures of the head and neck. Identification of the teeth, the eruption sequence, normal occlusion, and classification of occlusion used in the dental profession. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

D H 300B **ORAL BIOLOGY II**

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in D H 52B. Grade Type: Letter Grade Only Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

The embryologic development of the structures and tissues of the head, neck, teeth and oral cavity; histology of the hard and soft tissues of the oral cavity. Anatomy of the tooth crown, root and pulp; development and structural defects involving the oral cavity and the teeth. The normal periodontal tissues, oral mucous membranes, and salivary glands. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

DH 302 ASSESSMENT PROCEDURES IN 3 Units **DENTAL HYGIENE**

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in D H 53. Grade Type: Letter Grade Only

Not Repeatable.

1 Unit

3 hours lecture. (36 hours total per quarter.)

The first in a three course series in dental hygiene theory and practice. Focus on the principles of assessment techniques as the first phase of the dental hygiene process of care. The rationale for collection of assessment data, and associated clinical procedures will be discussed. Analysis of current evidence based literature related to the dental hygiene patient assessment procedures. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

D H 304	PRE-CLINICAL DENTAL HYGIENE	4 Units
	IIIGILINE	
	C	

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in D H 54. Grade Type: Letter Grade Only

Not Repeatable.

1 hour lecture, 9 hours laboratory. (120 hours total per quarter.)

The first in a series in dental hygiene clinical courses. Integrates the scientific and clinical principles underlying the practice of dental hygiene. Performance of clinical procedures and techniques for patient assessment, including prevention of disease transmission, health history, extra-intraoral examination, gingival evaluation and periodontal examination are taught in a pre-clinical setting. Students will practice on typodonts and classmates. The course requires evaluation of clinical performance through demonstration of skill acquisition and level of competency. Field experiences reinforce and amplify the knowledge and skills needed to perform dental hygiene procedures in the clinical setting. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

DH 305A

INTRODUCTION TO DENTAL **RADIOGRAPHY I**

2 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in D H 60A. Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

The first in a series of four dental radiology courses for the dental hygiene student. Component parts, functions, operations of the dental x-ray unit and radiation safety is emphasized. Relationships between anatomical and radiographic landmarks are analyzed. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

FOOTHILL COLLEGE

D H 305B DENTAL RADIOGRAPHY II

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in D H 60B. Grade Type: Letter Grade Only Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

The second in a series of dental radiology courses. Introduction to the radiology laboratory. Emphasis on dental x-ray techniques, film development and mounting, digital radiography and scanning. Radiation safety protection is practiced for all laboratory procedures. All films will be viewed for self-critique and instructor evaluation. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable Tran

Transferable: CSU

D H 305C DENTAL RADIOGRAPHY III Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in D H 68A. Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

The third in a series of dental radiology courses. Interpretation of intraoral and panoramic radiographs. Emphasis on normal, atypical and pathological structures. Identification of dental anomalies, dental materials and the interpretation of disease. Analysis of the progression of dental caries, periodontal disease, and periapical lesions. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

D H 305D DENTAL RADIOGRAPHY IV 1 Unit Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in D H 60D.

Grade Type: Letter Grade Only Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

This is the fourth and last in the series of dental radiology courses intended for second year dental hygiene students in the program. Emphasis is on the understanding of radiographic localization techniques and common technical, operator, processing errors. Continued application of digital radiography with use of sensors and scanners and alternative imaging techniques. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable Transferable: CSU

D H 308

CLINICAL TECHNIQUE

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in D H 61A. Grade Type: Letter Grade Only Not Repeatable.

3 hours lecture, 9 hours laboratory. (144 hours total per quarter.)

Continuation of dental hygiene clinical practice and instrumentation techniques including: instrumentation for scaling and root debridement and instrument sharpening. Adjunctive dental hygiene procedures taught include: fluorides, selective coronal polishing. Clinical activities utilize typodonts and student partners. The course requires evaluation of clinical performance through demonstration. Evaluation of best practices through evidence based research. Supportive labs and observation to reinforce and amplify the knowledge and skills needed to perform dental hygiene procedures in the clinical setting for D H 308. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

D H 310 DENTAL MATERIALS

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in D H 72. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2 hours lecture, 3 hours laboratory. (60 hours total per quarter.)

Properties of dental materials, characteristics and manipulation of dental materials and the equipment used in the manipulation of these materials with an emphasis on dental hygiene care. Course also covers caries risk assessment, hazardous waste management, MSDS and regulations related to dental materials. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

D H 312 EMERGENCY PROCEDURES Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in D H 71. Grade Type: Letter Grade Only Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

This course is a study of common medical emergencies that may occur during delivery of dental care. Emphasis is placed on methods to prevent emergencies from occurring and procedures to manage emergency situations. Ethical and legal aspects in assisting during emergencies are also discussed. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable Transferable: None

D H 314 DENTAL HEALTH EDUCATION 2 Units

Degree & Credit Status: Degree-applicable credit course Advisory: PSYC 1 or 1H; not open to students with credit in D H 73. Grade Type: Letter Grade Only

Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Health communication and learning theories applied to patient education. Topics include: communication theory, health literacy, working with interpreters, development of client/clinician relationships, patient motivation with particular attention to psychological, social, and economic, cultural & life stage factors. Emphasis on prevention of dental diseases through effective patient education, such as: mechanical plaque removal techniques, antimicrobial therapies, nutritional counseling for dental hygiene, and smoking cessation counseling. Preventive dental products will be reviewed and analyzed using current evidence based literature. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

D H 316A PERI

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in D H 57A. Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

The first in a series of two courses in periodontics for the dental hygiene student. Examination of anatomy and physiology of periodontium, correlating of basic sciences with the clinical aspects of periodontal diseases. American Academy of Periodontics classification system, etiology and pathogenesis of periodontal diseases. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

PERIODONTICS I

3 Units

1 Unit



1 Unit

2 Units

D H 316B PERIODONTICS II

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in D H 57B. Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

The second in a series of two periodontics courses for the dental hygiene student. Focus on best practices in periodontics, decision making and treatment planning, implementation of nonsurgical periodontal therapy, interviewing and education to enhance patient motivation, and evidence based therapy for the treatment and care of periodontal disease. The course also covers periodontal surgical procedures, dental implants, periodontal emergencies, legal issues in documentation and reporting. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program. **Transferable: CSU**

FHGE: Non-GE Applicable

DH 318 INTRODUCTION TO CLINIC

Degree & Credit Status: Degree-applicable credit course Advisory: D H 300B and 308 with a grade of "C" or better; possession of a current CPR certificate; not open to students with credit in D H 61B. Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture, 6 hours clinical laboratory. (108 hours total per quarter.) First course in a yearlong series of clinical dental hygiene practice. Emphasis on assessing, planning, and implementing comprehensive dental hygiene care for diverse patient populations and management of patients with special needs in a clinical setting. Students apply knowledge, critical thinking, and clinical skills acquired in previous completed dental hygiene courses. Development of progress in clinical performance with each successive academic period. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

D H 320A **CLINICAL DENTAL HYGIENE I** Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in D H 62A. Grade Type: Letter Grade Only Not Repeatable.

9 hours clinic. (108 hours total per quarter.)

Continuation of dental hygiene clinical practice. Emphasis on assessing, planning, and implementing comprehensive dental hygiene care for diverse patient populations and management of patients with special needs in a clinical setting. Students apply knowledge, critical thinking, and clinical skills acquired in previous completed dental hygiene courses. Additional procedures include fluoride varnish application, placement of dental sealants and individualized oral hygiene instructions. Progress of development in clinical performance will be evaluated with each successive academic period including evaluation of periodontal probing with a passing grade of 75%. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

Transferable: CSU FHGE: Non-GE Applicable

D H 320B **CLINICAL DENTAL HYGIENE II**

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in D H 62B. Grade Type: Letter Grade Only Not Repeatable.

1 hour lecture, 23 hours clinic. (288 hours total per guarter.)

Continuation of clinical dental hygiene practice providing comprehensive dental hygiene care in a clinic setting on patients. Emphasis on assessing, planning, and implementing comprehensive dental hygiene care for diverse patient populations and management of patients with special needs in a clinical setting. Students apply knowledge, critical thinking, and clinical skills acquired in previous completed dental hygiene courses. Additional procedures include local anesthesia, advanced instrumentation techniques, and locally delivered antimicrobials. Progress of development in clinical performance will be evaluated with each successive academic period including evaluation of periodontal probing with a passing grade of 80%. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable

Transferable: CSU

DH 320C **CLINICAL DENTAL HYGIENE III** 8.5 Units Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in D H 62C. Grade Type: Letter Grade Only Not Repeatable.

1 hour lecture, 23 hours clinic. (288 hours total per quarter.)

Continuation of clinical dental hygiene practice providing comprehensive dental hygiene care in a clinic setting on patients. Emphasis on assessing, planning, and implementing comprehensive dental hygiene care for diverse patient populations and management of patients with special needs in a clinical setting. Students apply knowledge, critical thinking, and clinical skills acquired in previous completed dental hygiene courses. Additional procedures include soft tissue curettage, alternative fulcrums and operatory positioning and interim therapeutic restorations. Progress of development in clinical performance will be evaluated with each successive academic period including evaluation of periodontal probing with a passing grade of 84%. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

DH 320D **CLINICAL DENTAL HYGIENE IV** 8.5 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in D H 62D. Grade Type: Letter Grade Only Not Repeatable.

1 hour lecture, 23 hours clinic. (288 hours total per quarter.)

Final course in the series of clinical dental hygiene practice providing comprehensive dental hygiene care in a clinic setting on patients. Emphasis on assessing, planning, and implementing comprehensive dental hygiene care for diverse patient populations and management of patients with special needs in a clinical setting. Students apply knowledge, critical thinking, and clinical skills acquired in previous completed dental hygiene courses. Additional procedures include administration of nitrous oxide/oxygen analgesia. Progress of development in clinical performance will be evaluated with each successive academic period including evaluation of periodontal probing with a passing grade of 92%. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

5 Units

3 Units

DH 322 LOCAL ANESTHESIA

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in D H 65. Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture, 1.5 hours laboratory. (42 hours total per quarter.)

The study of local anesthesia administration in dental procedures, including the pharmacology, anatomy, physiology, patient management and emergency procedures associated with local anesthetic procedures. Laboratory and clinical experience in administration techniques for local infiltration, field block and nerve block. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable **Transferable: CSU**

DH 324 **ORAL PATHOLOGY**

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in D H 55B. Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

The study of pathology of the head, neck, and oral structures. Developmental conditions and diseases of bacterial and viral origin, neoplasms of the oral cavity. Clinical aspects of recognizing deviations from normal, documentation, differential diagnosis and referral. The role of the dental hygienist in education and prevention, early detection and referral of lesions of the head and neck regions. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

2.5 Units

2 Units

D H 326A COMMUNITY DENTAL HEALTH I 2 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in D H 58A or 63C. Grade Type: Letter Grade Only

Not Repeatable.

2 hours lecture, 1 hour laboratory. (36 hours total per quarter.) The first course in a year long series in the study of community dental health problems and disparities that exist in health care. The science of epidemiology, research and writing skills, and statistics will be discussed. An analysis of current dental health issues and initial development of a community dental health program. Evaluation of scientific literature will be developed. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program. **Transferable: CSU** FHGE: Non-GE Applicable

D H 326B COMMUNITY DENTAL HEALTH II 2 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in D H 58B or 63D. Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture, 1 hour laboratory. (36 hours total per quarter.)

Continuation of D H 326A. Emphasis on the steps to developing community dental health programs, including health promotion programs. Local, state, and federal departments of public health services, types of fluoridation, and school-based dental health programs and screenings. Evidence-based decision making will be applied to the dental public health setting. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable **Transferable: CSU**

DH326C COMMUNITY DENTAL HEALTH III

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in D H 58C. Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture, 1 hour laboratory. (36 hours total per guarter.)

Continuation of D H 326B. Course includes 4 weeks of outside field work to assess and analyze a target group, design lesson plans/program activities and present to target group, and evaluation of program outcomes. Career options for registered dental hygienists and scientific communication formats will also be discussed. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

D H 328A **CLINICAL DENTAL HYGIENE** 2 Units THEORY I

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in D H 75A. Grade Type: Letter Grade Only Not Repeatable.

1 hour lecture, 3 hours laboratory. (48 hours total per quarter.)

Discussion and demonstration of advanced and supplemental dental hygiene functions: digital intraoral photography, dental hygiene instrumentation, ultrasonic scaling techniques, soft tissue curettage and locally delivered antimicrobials. Supportive course to reinforce and amplify the knowledge and skills needed to perform dental hygiene procedures in the clinical setting for D H 320B. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable Transferable: CSU

D H 328B

CLINICAL DENTAL HYGIENE THEORY II

2 Units

2 Units

2 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in D H 75B. Grade Type: Letter Grade Only Not Repeatable.

1 hour lecture, 3 hours laboratory. (48 hours total per quarter.)

Discussion and demonstration of advanced and supplemental dental hygiene functions, interim therapeutic restorations, advanced instrumentation techniques, advanced local anesthesia techniques, dentinal desensitization, air polishing, implants in dentistry, orthodontic therapy and new technologies in dental hygiene. Supportive course to reinforce and amplify the knowledge and skills needed to perform dental hygiene procedures in the clinical setting for D H 320C. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable **Transferable: CSU**

D H 328C CLINICAL DENTAL HYGIENE THEORY III

Degree & Credit Status: Degree-applicable credit course

Advisory: Not open to students with credit in D H 75C. Grade Type: Letter Grade Only Not Repeatable.

1 hour lecture, 3 hours laboratory. (48 hours total per quarter.)

Preparation for clinical licensing board examinations. Overview of exam criteria, identification an appropriate patient for clinical state and/or regional board licensing exam for Dental Hygienists. Strategies for exam preparation and anticipating methods which will influence a successful board experience. Supportive course to reinforce and amplify the knowledge and skills needed to perform dental hygiene procedures. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

D H 330

ANALGESIA Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in D H 67. Grade Type: Letter Grade Only

Not Repeatable.

1 hour lecture, 1 hour laboratory. (24 hours total per quarter.)

The study of nitrous oxide/oxygen analgesia used in the dental practice. Emphasis will be placed on understanding the mechanism of sedation, risks and benefits associated with nitrous oxide sedation, how to administer and properly document the use of nitrous oxide. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

NITROUS OXIDE/OXYGEN

FHGE: Non-GE Applicable

Transferable: CSU

D H 332 ETHICS, LAW & BUSINESS PRACTICES Degree & Credit Status: Degree-applicable credit course

Advisory: Not open to students with credit in D H 64. Grade Type: Letter Grade Only Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

The study of ethics, jurisprudence, business practices, finance, management, and policy creation for oral health care professionals, programs and businesses. This course examines current societal and professional issues and their impact on dental hygiene business practices and management. The course will cover the following areas: planning, strategy and leadership, legal and ethical issues affecting businesses in the oral health care sector, financial statements, and personnel considerations. The course will prepare students to take the California Dental Hygiene Law & Ethics exam, required for licensing as a Registered Dental Hygienist. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

DENTAL HYGIENE RESEARCH

FHGE: Non-GE Applicable

Transferable: CSU

& CAPSTONE PROJECT I Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

Not Repeatable.

D H 350A

5 hours lecture. (60 hours total per quarter.)

First in a series of three capstone courses. Introduction to the capstone project and evaluation of scientific evidence-based literature. Basic research design components and writing skills will be discussed. Analysis of career options for dental hygienists including public health, research, education, corporate sales and marketing, administration and advocacy. Dental workforce models will be explored. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

DENTAL HYGIENE RESEARCH

& CAPSTONE PROJECT II

FHGE: Non-GE Applicable

D H 350B

Transferable: CSU

5 Units

215

5 Units

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

The second in a series of three capstone courses, continuation of D H 350A. Emphasis on development of capstone project proposal and implementation, including project description, assessment tools, project goals and objectives and activities. Field work to implement capstone project will be completed. Interprofessional practice within the health care profession will be discussed. Evidence-based research in health care decision making, the oral-systemic link and the importance of lifelong learning will be explored. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program. **FHGE: Non-GE Applicable Transferable: CSU**

3 Units

DENTAL HYGIENE RESEARCH & CAPSTONE PROJECT III

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

The third course in a series of three capstone courses. Completion of capstone project including final field work to evaluate project outcomes and statistical analysis. The final version of the written literature review and project plan will be completed. Scientific communication methods with an emphasis on poster presentation techniques will be addressed. Contemporary issues in dental hygiene including aging populations, health care reform and access to care will be discussed. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable Transferable: CSU

D H 352 HEALTH COMMUNICATION 5 Units & CULTURAL ISSUES

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

Not Repeatable. 5 hours lecture. (60 hours total per quarter.)

Health communication and multicultural issues unique to the dental and medical fields. Topics include intercultural communication; health literacy; interpersonal, small group, electronic, and nonverbal communication; listening; persuasion, caring for limited English proficient people; and working with interpreters. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the completion degree track.

FHGE: Non-GE Applicable Transferable: none

HEALTH CARE MANAGEMENT

Degree & Credit Status: Degree-applicable credit course

Grade Type: Letter Grade Only

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

An introduction to business practices, finance, management, and policy creation for oral health care programs and businesses. This course examines current societal and professional issues and their impact on dental hygiene business practices and management. The course will cover the following areas: planning, strategy and leadership, legal and ethical issues affecting businesses in the oral health care sector, financial statements, and personnel considerations. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the completion degree track.

FHGE: Non-GE Applicable

Transferable: none

D H 356

DH354

EDUCATION THEORY,

5 Units

5 Units

ADMINISTRATION Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

PRACTICE &

5 hours lecture. (60 hours total per quarter.)

The study of education theories and principles for didactic, lab and clinical courses. The faculty role in active teaching and learning, development of critical thinking and reflective writing, development of curriculum, outcomes and competencies, and course delivery methods. Theory and practices of clinical instruction and supervision, related to psychomotor skill development, competency-based evaluation, student mentoring and remediation. Examination of organizational and administrative philosophy and practice in curriculum planning, implementation and evaluation based on accreditation standards. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the completion degree track.

FHGE: Non-GE Applicable

Transferable: none

DIAGNOSTIC MEDICAL SONOGRAPHY

Biological and Health Sciences 650.949.7538 foothill.edu/dms/

DMS 50A DIAGNOSTIC MEDICAL SONOGRAPHY PRINCIPLES & PROTOCOLS

Degree & Credit Status: Degree-applicable credit course Prerequisites: BIOL 40A, 40B and 40C. Corequisites: DMS 50B, 60A and 72A. Grade Type: Letter Grade Only Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

An intensive course about fundamentals of ultrasound principles, protocols, and scanning involving the major abdominal organ structures, gynecology, obstetrics, and vessels. Sonographic terminology, orientation and descriptions of normal and abnormal structures. It is assumed the student has a thorough knowledge of gross and sectional anatomy. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

SONOGRAPHY & PATIENT CARE DMS 50B

Degree & Credit Status: Degree-applicable credit course Prerequisite: AHS 52 or equivalent medical terminology course. Corequisites: DMS 50A, 60A and 72A. Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Defines the student sonographer's role on the medical team. It prepares the student to enter the clinical environment, including instruction in sonographer safety and ergonomics. Legal, ethical, legislative and regulatory issues, including scope of practice and standards. Patient care techniques, clinical assessment, diagnosis and treatment. Interacting with cultural, age, and the special needs populations. Professionalism, competency-based education and leadership. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

DMS 51A SECTIONAL ANATOMY

Degree & Credit Status: Degree-applicable credit course Prerequisites: BIOL 40A, 40B and 40C or equivalent. Advisory: Not open to students with credit in R T 75. Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Human anatomy of the head and body cavities is presented for the health care professional in transverse, sagittal and coronal imaging planes, with specific correlation to sonographic, computed tomographic and magnetic resonance imaging modalities. Anatomic reference points, intersecting planes and medical terminology are used to identify relationships of organs as well as pathologic alterations. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

Degree & Credit Status: Degree-applicable credit course Prerequisite: DMS 50A. Grade Type: Letter Grade Only 4 Units Not Repeatable. 2 hours lecture. (24 hours total per quarter.) Principles of diagnostic ultrasound, wave characteristics, propagation, acoustic variables, and review of mathematical skills. Additional emphasis on transducers, pulsed waves, intensities, beam shaping, Huygens' principle, resolution, and display modes. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable Transferable: CSU PHYSICAL PRINCIPLES OF **DMS 52B** DIAGNOSTIC MEDICAL **SONOGRAPHY II** Degree & Credit Status: Degree-applicable credit course Prerequisite: DMS 52A. Grade Type: Letter Grade Only Not Repeatable. 2 hours lecture. (24 hours total per quarter.) 2 Units A continuation of DMS 52A with an emphasis on transducer types, 2-D imaging, pulse echo instrumentation, image processing, dynamic range as well as harmonic imaging. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU DMS 52C** PHYSICAL PRINCIPLES OF DIAGNOSTIC MEDICAL SONOGRAPHY III Degree & Credit Status: Degree-applicable credit course Prerequisite: DMS 52B. Grade Type: Letter Grade Only Not Repeatable. 2 hours lecture. (24 hours total per quarter.) A continuation of DMS 52B with an emphasis on advanced principles in medical ultrasound instrumentation, artifacts, quality assurance, bioeffects, 3 Units volume rendering, use of doppler imaging and sonographic quality control procedures. Preparation for national examinations. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable Transferable: CSU DIAGNOSTIC MEDICAL **DMS 53A SONOGRAPHY I**

PHYSICAL PRINCIPLES OF

DIAGNOSTIC MEDICAL **SONOGRAPHY I**

Degree & Credit Status: Degree-applicable credit course Prerequisite: DMS 50A.

Grade Type: Letter Grade Only

Not Repeatable.

2 hours lecture, 1 hour laboratory. (36 hours total per quarter.)

Anatomy and physiology related to the major abdominal organs and major abdominal vessels. Assessment including physical, clinical symptoms, and laboratory findings. Related pathology and its sonographic appearance involving these structures. Scanning protocols, technical factors and image quality. One hour per week will be spent in completing online exams and working on patient case studies. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

2 Units

2 Units

2 Units

216

DMS 52A

DMS 53B

Degree & Credit Status: Degree-applicable credit course Prerequisite: DMS 53A. Grade Type: Letter Grade Only

SONOGRAPHY II

DIAGNOSTIC MEDICAL

Not Repeatable.

2 hours lecture, 1 hour laboratory. (36 hours total per quarter.)

Anatomy and physiology related to major and superficial structures and organs, including sonography of abdominal organs and superficial structures. Assessment including physical, clinical symptoms, laboratory findings, and pathology, including the sonographic appearances. Scanning protocols, technical factors and image quality. One hour per week will be spent in completing online exams and working on patient case studies. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program. **Transferable: CSU**

FHGE: Non-GE Applicable

DIAGNOSTIC MEDICAL **DMS 53C** 2 Units SONOGRAPHY III

Degree & Credit Status: Degree-applicable credit course

Prerequisite: DMS 53B. Grade Type: Letter Grade Only

Not Repeatable.

2 hours lecture, 1 hour laboratory. (36 hours total per quarter.)

Anatomy, physiology and pathology of abdominal organs not yet covered, neurosonography, superficial structures, transplant, and the pediatric patient. Use of sonography in the operating room with a review of aseptic technique. Discussion of related medical ethics and legal issues. One hour per week will be spent in completing online exams and working on patient case studies. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program. **Transferable: CSU** FHGE: Non-GE Applicable

DMS 54A GYNECOLOGY

Degree & Credit Status: Degree-applicable credit course

Prerequisite: DMS 50A. Grade Type: Letter Grade Only

Not Repeatable.

2 hours lecture, 1 hour laboratory (laboratory meets every other week). (30 hours total per quarter.)

Anatomy and physiology of the nongravid pelvis. Pathology, sonographic appearance, and clinical symptoms of the female patient. Sonographic protocols and measurements with correlations to accepted standards. One hour per week will be spent in completing online exams and working on patient case studies. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

DMS 54B GYNECOLOGY & 2 Units OBSTETRICS

Degree & Credit Status: Degree-applicable credit course Prerequisite: DMS 54A.

Grade Type: Letter Grade Only

Not Repeatable.

2 hours lecture, 1 hour laboratory (laboratory meets every other week). (30 hours total per quarter.)

Anatomy and physiology of the nongravid pelvis and first trimester pregnancy. Pathology, sonographic appearance, and clinical symptoms of the female patient. Sonographic protocols and measurements with correlations to accepted standards. One-half hour per week will be spent in completing online exams and working on patient case studies. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

DMS 55A OBSTETRICS I

Degree & Credit Status: Degree-applicable credit course Prerequisite: DMS 54B. Grade Type: Letter Grade Only

Not Repeatable.

2 Units

2 hours lecture, 1 hour laboratory (laboratory meets every other week). (30 hours total per quarter.)

Normal fetal growth and sonographic measurements with correlation to accepted standards. Development of the placenta, amniotic fluid and cord. Abnormalities, pathology and maternal complications. One-half hour per week will be spent in completing online exams and working on patient case studies. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

DMS 55B OBSTETRICS II 2 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: DMS 55A.

Grade Type: Letter Grade Only

Not Repeatable.

2 hours lecture, 1 hour laboratory (laboratory meets every other week). (30 hours total per quarter.)

Advanced obstetrical sonography. Abnormal second and third trimester fetal growth and sonographic measurements with correlations to accepted standards. Abnormalities, pathology and maternal complications. One-half hour per week will be spent in completing online exams and working on patient case studies. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

DMS 56A VASCULAR SONOGRAPHY 3 Units

Degree & Credit Status: Degree-applicable credit course

Prerequisite: DMS 50A.

Grade Type: Letter Grade Only

Not Repeatable.

2 Units

3 hours lecture. (36 hours total per quarter.)

Vascular terminology, principles including doppler physics. Interpretation of frequency spectral analysis. Intracranial, cerebrovascular and peripheral venous applications related to vascular technology. Normal, abnormal and pathologic states of the human vascular system. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable

Transferable: CSU

ADVANCED APPLICATIONS OF **DMS 56B** 2 Units VASCULAR TECHNOLOGY

Degree & Credit Status: Degree-applicable credit course Prerequisite: DMS 56A. Grade Type: Letter Grade Only

Not Repeatable.

217

2 hours lecture. (24 hours total per quarter.)

A continuation of DMS 56A for the advanced principles and theory of noninvasive vascular technology. Comprehensive study of arterial and venous applications, including peripheral arterial, abdominal vascular, and assessment of the reproductive tract. Designed to help prepare individuals for the National Board for credentialing as a Registered Vascular Technologist. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

COURSE CATALOG 2020-2021

DMS 60ACRITIQUE & PATHOLOGY I2 UnitsDegree & Credit Status: Degree-applicable credit coursePrerequisites: BIOL 40A, 40B and 40C.Corequisites: DMS 50A, 50B and 72A.Grade Type: Letter Grade OnlyNot Repeatable.2 hours lecture. (24 hours total per quarter.)Interpretation and critique of normal and abnormal anatomy with correla-tion of didactic, clinical and image information. Emphasis on communicationskills via written and oral case presentations and critiques. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limitedto students accepted in the program.	DMS 60FCRITIQUE & PATHOLOGY VI2 UnitsDegree & Credit Status: Degree-applicable credit coursePerequisite: DMS 60E.Perequisite: DMS 60E.Prerequisite: DMS 60E.Grade Type: Letter Grade OnlyPerequisite: DMS 60E.Not Repeatable.Pours lecture. (24 hours total per quarter.)Perequisite: DMS for more and abnormal anatomy with correlation of didactic, clinical and image information. Written and oral case presentations with emphasis on additional subjects in superficial parts, pediatric, neonatal and vascular subjects. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.
FHGE: Non-GE Applicable Transferable: CSU	FHGE: Non-GE Applicable Transferable: CSU
DMS 60BCRITIQUE & PATHOLOGY II2 UnitsDegree & Credit Status: Degree-applicable credit coursePrerequisite: DMS 60A.Grade Type: Letter Grade OnlyNot Repeatable.2 hours lecture. (24 hours total per quarter.)	DMS 70ACLINICAL PRECEPTORSHIP I11.5 UnitsDegree & Credit Status: Degree-applicable credit coursePrerequisite: DMS 72A.Grade Type: Letter Grade OnlyNot Repeatable.32 hours laboratory. This is a 13 week course. (416 hours total per quarter)
Interpretation and critique of normal and abnormal anatomy with correlation of didactic, clinical and image information. Written and oral case presentations with emphasis on abdominal subjects. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.FHGE: Non-GE ApplicableTransferable: CSUDMS 60CCRITIQUE & PATHOLOGY III2 Units	This course builds on the clinical competencies of DMS 72A. Preceptorship to obtain the technical expertise with emphasis on mastery of knowledge, skills, and abilities required performing sonographic studies and procedures. Emphasis is on elementary level for abdominal and gynecological exam- inations as to delineate complete anatomic and functional information for interpretation. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable Transferable: CSU
Degree & Credit Status: Degree-applicable credit course Prerequisite: DMS 60B. Grade Type: Letter Grade Only Not Repeatable. 2 hours lecture. (24 hours total per quarter.) Interpretation and critique of normal and abnormal anatomy with cor- relation of didactic, clinical and image information. Written and oral case presentations with emphasis on gynecological and abdominal subjects. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable Transferable: CSU DMS 60D CRITIQUE & PATHOLOGY IV 2 Units Degree & Credit Status: Degree-applicable credit course Prerequisite: DMS 60C. Grade Type: Letter Grade Only Not be presented by	DMS 70BCLINICAL PRECEPTORSHIP II10.5 UnitsDegree & Credit Status: Degree-applicable credit coursePrerequisite: DMS 70A.Grade Type: Letter Grade Only.Not Repeatable.32 hours laboratory. (384 hours total per quarter.)Second course in the DMS 70 series. Preceptorship in a medical setting allows the student to obtain the technical expertise with emphasis on mastery of knowledge, skills, and abilities required performing sonographic studies and procedures. The student is exposed to varied methodologies and practice philosophies in a variety of clinical settings. Major emphasis is on the knowledge and performance for abdominal, obstetrics, and gynecology examinations. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.FHGE: Non-GE Applicable
Not Repeatable.2 hours lecture. (24 hours total per quarter.)Interpretation and critique of normal and abnormal anatomy with cor- relation of didactic, clinical and image information. Written and oral case presentations with emphasis on obstetrical subjects. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.FHGE: Non-GE ApplicableTransferable: CSU	DMS 70CCLINICAL PRECEPTORSHIP III9.5 UnitsDegree & Credit Status: Degree-applicable credit course9.5 UnitsPrerequisite: DMS 70B.Grade Type: Letter Grade OnlyNot Repeatable.32 hours laboratory. This is an 11 week course. (352 hours total per quarter)Third course in the DMS 70 series. Preceptorship in a medical setting that allows the student to obtain the technical expertise with emphasis on
DMS 60ECRITIQUE & PATHOLOGY V2 UnitsDegree & Credit Status: Degree-applicable credit coursePrerequisite: DMS 60D.Grade Type: Letter Grade OnlyNot Repeatable.2 hours lecture. (24 hours total per quarter.)Interpretation and critique of normal and abnormal anatomy with cor-relation of didactic, clinical and image information. Written and oral case	 mastery of knowledge, skills, and abilities required performing sonographic studies and procedures. Major emphasis is on intermediate-advanced level of knowledge and competency for abdominal, gynecology, obstetrics, and vascular sonography. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable Transferable: CSU
presentations with emphasis on superficial parts, pediatric, neonatal and vascular subjects. Intended for students in the Diagnostic Medical Sonogra- phy Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable Transferable: CSU	

Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 32 hours laboratory. This is a 13 week course. (416 hours total per quarter) Fourth course in the DMS 70 series. Preceptorship in a medical setting			Advisory: Previo BIOL 40A, 40B,	Status: Non-degree-applicabl us completion of anatomy and 40C) and medical terminolog nended to be successful in this	physiology courses (e.g., y course (e.g., AHS 52)	
advanced mastery types of sonograp	v of knowledge, sk phic studies and pr al Sonography Pro	echnical expertise with em ills, and abilities required p rocedures. Intended for stu ogram; enrollment is limited	erforming all dents in the	Introduction to t	-	edical sonography. Em-
FHGE: Non-GE A	-	Transferable: CSU		diagnostic medio	cal sonography practice and cre the scope of diagnostic medica	edentialing requirements.
DMS 70ECLINICAL PRECEPTORSHIP V10.5 UnitsDegree & Credit Status: Degree-applicable credit coursePrerequisite: DMS 70D.Grade Type: Letter Grade Only			10.5 Units		•	
allows students to	DMS 70 series. F obtain the techn	tal per quarter.) Preceptorship in a medical s ical expertise with emphasi wledge, skills, and abilities r	s on the	ECONOM	1ICS	
is on terminal con students in the Di limited to student	npetencies leading agnostic Medical is accepted in the	1 5	ntended for	Business and S 650.949.7322 f	ocial Sciences oothill.edu/economics/	
FHGE: Non-GE A	pplicable	Transferable: CSU		ECON 1A	PRINCIPLES OF MACROECONOMICS	5 Units
DMS 72A Degree & Credit Prerequisites: BIC Corequisites: DM Grade Type: Lette	& APPLICAT Status: Degree-ap DL 40A, 40B and S 50A, 50B and 6	HY PROCEDURES IONS plicable credit course 40C.	11.5 Units	Prerequisite: Ele Advisory: Demo measures OR th ESLL 125 & ESLL	Status: Degree-applicable cre mentary Algebra or equivalent nstrated proficiency in English rough an equivalent placement 249; MATH 105. ter Grade or Pass/No Pass	t. by placement via multiple
Instruction to dev for sonographic in nical quality, inter on participation in live scanning exer	elop the fundame nage acquisition. pretation, analysis a structured lab cises plus clinical	(396 hours total per quart ntal skills, procedures and ncludes instruction in esta s, and case presentation. In setting with emphasis on si preceptorship. Intended fo	applications blishing tech- cludes hands- mulation and r students	Fundamental eco employment; inc ment monetary a development; inc order.	(60 hours total per quarter.) onomic concepts; determinatic come fluctuation; money and th and fiscal policies; current ecor ternational trade. ECON 1A and Behavioral Sciences	ne banking system; govern- nomic problems; economic
in the Diagnostic students accepter FHGE: Non-GE A	d in the program.	hy Program; enrollment is Transferable: CSU	limited to	ECON 1B	PRINCIPLES OF MICROECONOMICS	5 Units
DMS 80A		SONOGRAPHIC	4 Units	Prerequisite: Ele	status: Degree-applicable cre mentary Algebra or equivalent nstrated proficiency in English	t.
Degree & Credit : Prerequisite: DM Grade Type: Lette Not Repeatable.	S 60D.	plicable credit course		ESLL 125 & ESLL	rough an equivalent placement 249; MATH 105. ter Grade or Pass/No Pass	t process OR completion of
3 hours lecture, 3 hours laboratory. (72 hours total per quarter.) Continuation of all courses as well as new developments with advanced analysis of current sonographic practice. Final preparation for completion and participation of national registry examinations. Student presentation and critique of neoplastic cases. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable Transferable: CSU		5 hours lecture. Micro analysis of ior. Pricing and c and characterist tive economic sy	(60 hours total per quarter.) Feconomic life. Allocation of re butput decisions. Distribution o ics of business enterprises. Inte vstems. ECON 1A and 1B may b Behavioral Sciences	f wealth and income. Nature ernational trade. Compara-		

11.5 Units

DMS 200

INTRODUCTION TO

SONOGRAPHY

DIAGNOSTIC MEDICAL

2 Units

5 Units

5 Units

DMS 70D

Prerequisite: DMS 70C.

CLINICAL PRECEPTORSHIP IV

Degree & Credit Status: Degree-applicable credit course

ECON 9 POLITICAL ECONOMY

Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in ECON 9H, POLI 9 or POLI 9H.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Analysis of the contending theoretical formulations of International Political Economy (IPE), emphasizing the interconnection between economics and politics in the broad context of a global economy and the formulation of national public policy. Economic and political policy issues of current national and international significance are emphasized.

FHGE: Social & Behavioral Sciences Transferable: CSU/UC

ECON 9H HONORS POLITICAL ECONOMY 4 Units

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Honors Institute participant.

Advisory: Not open to students with credit in ECON 9, POLI 9 or 9H. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Analysis of the contending theoretical formulations of International Political Economy (IPE), emphasizing the interconnection between economics and politics in the broad context of a global economy and the formulation of national public policy. Economic and political policy issues of current national and international significance are emphasized. The honors course is a full thematic seminar with advanced teaching methods, focusing on extensive writing, reading, research assignments, student-led seminar discussions, group discussions, oral presentations and interactions. Distinguishing features include: heightened focus on and evaluation of global objectives and components of developed and developing nations, increased depth of analysis and breadth of examination, higher level of student critical thinking. Expanded learning outcomes and fuller description of these focused elements.

FHGE: Social & Behavioral Sciences		Transferable: CSU/UC
ECON 25	THE GLOBAL ECONOMY	4 Units
Degree & Credit	Status: Degree-applicable credit c	ourse
Advisory: ECON	IA and 1B.	
Grade Type: Lette	er Grade or Pass/No Pass	
Not Repeatable.		
4 hours lecture. (48 hours total per quarter.)	
Analysis of increa	sing economic integration in the p	ost-WW II era with a
focus on internati	onal trade and investment. Introdu	uction to international
economic organiz	ations such as the WTO and IMF.	
FHGE: Social & B	ehavioral Sciences	Transferable: CSU/UC
ECON 54H	HONORS INSTITUTE SEM	INAR 1 Unit
Degree & Credit	Status: Degree-applicable credit c	ourse
Degree & Creuit	Status, Degree-applicable clean c	ouise

Prerequisite: Honors Institute participant. Advisory: Not open to students with credit in ECON 34 or 34H. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

A seminar in directed readings, discussions and projects in economics. Specific topics to be determined by the instructor.

FHGE: Non-GE Applicable **Transferable: CSU**

ECON 70R	INDEPENDENT STUDY IN ECONOMICS	1 Unit
ECON 71R		2 Units
ECON 72R		3 Units
ECON 73R		4 Units
Degree & Credi	t Status: Degree-applicable credit course	

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3-12 hours laboratory per week. (36-144 hours total per quarter.)

Provides an opportunity for the student to expand their studies in Economics beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department. FHGE: Non-GE Applicable **Transferable: CSU**

EDUCATION

Business and Social Sciences

650.949.7322 foothill.edu/bss/

EDUC 2	INTRODUCTION TO	5 Units
	ELEMENTARY EDUCATION	
Dearee & Cred	it Status: Degree-applicable credit course	

Advisory: One of the following: ENGL 1A, 1AH, or 1S & 1T strongly recom-

mended. Grade Type: Letter Grade Only Not Repeatable.

4 hours lecture, 4 hours laboratory. (96 hours total per quarter.)

This course provides an overview of the American education system for students interested in teaching in grades K-12. Educational philosophies, history of education in the United States, and major economic, political and social policies that have affected the school system will be explored. In addition, the structure of the K-12 school system, the teaching profession, the social and cultural contexts of schooling and an overview of curriculum design will be covered. The course requires a minimum of 48 hours of fieldwork in a public school elementary classroom, under the guidance of an approved credentialed K-5 classroom teacher.

FHGE: Non-GE Applicable Transferable: CSU/UC

EMERGENCY MEDICAL SERVICES (EMT/EMR/ PARAMEDIC)

Biological and Health Sciences 408.745.8022 foothill.edu/ems/

EMS 50	EMERGENCY MEDICAL RESPONSE

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in EMR 50, HLTH 5 or 55. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 4 hours laboratory. (96 hours total per quarter.)

Provides the student with the knowledge and skills necessary to work as an emergency medical responder (EMR) to help sustain life, reduce pain and minimize the consequences of injury or sudden illness until more advanced medical help takes over. The course meets or exceeds the 2008 Emergency Medical Services Educational Standards for Emergency Medical Response and meets Guidelines 2010 for First Aid and 2010 Consensus on Science for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care. FHGE: Non-GE Applicable **Transferable: CSU**

COURSE CATALOG 2020-2021

5 Units

TECHNICIAN: BASIC PART A

Degree & Credit Status: Degree-applicable credit course Prerequisite: EMS 50 or 400, or First Responder Course, or equivalent work experience as determined by the instructor. Corequisite: EMS 52A.

Advisory: EMS 52 and 53 may not be taken concurrently; not open to students with credit in EMT 50 or 304.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

EMS 52

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.)

Intended to instruct a student to the level of Emergency Medical Technician-1 who serves as a vital link in the chain of the health care team. It is recognized that the majority of prehospital emergency medical care will be provided by the EMT-1. Includes all skills necessary for the individual to provide emergency medical care at a basic life support level with a fire department, or other specialized service. First of two courses required to be eligible to take the California written and practical exam for certification as an Emergency Medical Technician-1.

FHGE: Non-GE Applicable

Transferable: CSU

EMS 52A

EMERGENCY MEDICAL 0.5 Units TECHNICIAN SIMULATION LABORATORY I

Degree & Credit Status: Degree-applicable credit course Corequisite: EMS 52.

Advisory: EMS 52A and 53A may not be taken concurrently. Grade Type: Letter Grade Only Not Repeatable.

1.5 hours laboratory. (18 hours total per quarter.)

First in a two course series, which provides the student with hands on application of skills necessary to work as an emergency medical technician (EMT). Students will participate in patient assessment scenarios focused on medical complaints and treatments of various diseases, to build competence and prepare to sit for the state certification exam and enter into the EMT workforce.

FHGE: Non-GE Applicable	Transferable: CSU

EMS 53

EMERGENCY MEDICAL TECHNICIAN: BASIC PART B

Degree & Credit Status: Degree-applicable credit course Prerequisite: EMS 52.

Corequisite: EMS 53A.

Advisory: EMS 53 is part two of two courses required to be eligible to take the California State written and practical exam for certification as an Emergency Medical Technician-1; EMS 52 and 53 may not be taken concurrently; not open to students with credit in EMT 51 or 305.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 3 hours laboratory, 2 hours clinic. (108 hours total per quarter.)

Second of two courses required to be eligible to take the California State written and practical exam for certification as an Emergency Medical Technician-1. Intended to instruct a student to the level of Emergency Medical Technician-Basic who serves as a vital link in the chain of the health care team. Includes all skills necessary for the individual to provide emergency medical care at a basic life support level with a fire department, ambulance, or other specialized service.

Transferable: CSU

FHGE: Non-GE Applicable

EMERGENCY MEDICAL TECHNICIAN SIMULATION LABORATORY II

Degree & Credit Status: Degree-applicable credit course Corequisite: EMS 53.

Advisory: EMS 53A is part two of two courses required to be eligible to take the California State written and practical exam for certification as an Emergency Medical Technician-1; EMS 52A and 53A may not be taken concurrently.

Grade Type: Letter Grade Only

Not Repeatable.

1.5 hours laboratory. (18 hours total per quarter.)

Second in a two course series, which provides the student with hands on application of skills necessary to work as an emergency medical technician (EMT). Students will participate in patient assessment scenarios focused on trauma and treatment of various mechanisms of injuries, to build competence and prepare to sit for the state certification exam and enter into the EMT workforce.

FHGE: Non-GE Applicable Transferable: CSU

EMS 60A	PARAMEDIC COGNITIVE &	9 Units
	AFFECTIVE IA	
Degree & Credit St	atus: Degree-applicable credit course	

Prerequisite: BIOL 40A or equivalent (with laboratory). Corequisite: EMS 60B.

Advisory: Not open to students with credit in EMTP 60A or 100A. Grade Type: Letter Grade Only

Not Repeatable.

9 hours lecture. (108 hours total per quarter.)

First of three modularized lecture series in which paramedic students will learn and discuss the EMS System, understand the relationship of anatomy and physiology of the human body, life span of the patient, cellular function and disease, medical terminology, and pharmacology related to patient care. Intended for students in the Paramedic Program; enrollment is limited to students accepted in the program.

PARAMEDIC COGNITIVE,

FHGE: Non-GE Applicable 1

Transferable: CSU

EMS 60B

5.5 Units

AFFECTIVE IB Degree & Credit Status: Degree-applicable credit course Corequisite: EMS 60A.

PSYCHOMOTOR &

Advisory: Not open to students with credit in EMTP 60B. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture, 6.5 hours laboratory. (90 hours total per quarter.)

Paramedic skills presented: proper hand washing; personal protective equipment; patient assessment; intravenous access; intraosseous infusion; pharmacology; medication administration; airway management: endotracheal intubation, oropharyngeal airway, nasopharyngeal airway, suctioning, dual lumen airways; advanced cardiac life support ambulance 911 call simulations and case studies; synchronized cardioversion; transcutaneous pacing; defibrillation; cardiovascular/chest pain emergency 911 call simulations; end tidal carbon dioxide monitoring; capnography; 12 lead ECG interpretation. Intended for students in the Paramedic Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

221

Transferable: CSU

PARAMEDIC COGNITIVE &

9 Units

3 Units

9 Units

Degree & Credit Status: Degree-applicable credit course Prerequisites: EMS 60A and 60B. Corequisite: EMS 61B.

AFFECTIVE IIA

Advisory: Not open to students with credit in EMTP 61A or 100B. Grade Type: Letter Grade Only

Not Repeatable.

EMS 61A

9 hours lecture. (108 hours total per quarter.)

Continuation of EMS 60A, the second of three modularized lecture series. Discusses airway anatomy and management, EKG, 12 leads and discuss various respiratory emergencies. In addition students will learn and discuss neurological disorders, cardiovascular emergencies, musculoskeletal injuries and treatment, and GI, and GU anatomy and disorders. Intended for students in the Paramedic Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

EMS 61B PARAMEDIC COGNITIVE, **AFFECTIVE & PSYCHOMOTOR IIB**

Degree & Credit Status: Degree-applicable credit course Prerequisites: EMS 60A and 60B. Corequisite: EMS 61A.

Advisory: Not open to students with credit in EMTP 61B or 100B.

Grade Type: Letter Grade Only

Not Repeatable.

1 hour lecture, 6.5 hours laboratory. (90 hours total per quarter.)

The cognitive, psychomotor, and affective basis for EMT students wishing to become EMT paramedics. The paramedic: anatomy and physiology; patient assessment; respiratory ambulance 911 call simulations and case studies; nebulizer/BVM set-up; pleural decompression; digital intubation; foreign body airway obstruction; neurological ambulance 911 call simulations and case studies; 12 lead ECG interpretation; diabetic ambulance 911 call simulations and case studies; blood glucose analysis; medication administration; pharmacology; pediatric advanced life support ambulance 911 call simulations and case studies; non-traumatic abdominal ambulance 911 call simulations and case studies; bleeding control & shock management; pressure infusers; intubation with spinal immobilization; intravenous access; overdose and poisoning ambulance 911 call simulations and case studies. Intended for students in the Paramedic Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

EMS 62A PARAMEDIC COGNITIVE & AFFECTIVE IIIA

Degree & Credit Status: Degree-applicable credit course Prerequisites: EMS 61A and 61B.

Advisory: Not open to students with credit in EMTP 62A or 100C.

Grade Type: Letter Grade Only

Not Repeatable.

9 hours lecture. (108 hours total per quarter.)

Continuation of EMS 61A, and the third of three modularized lecture series. Discusses various toxicological emergencies, psychiatric emergencies, OB, pediatric anatomy and emergencies, command and control, triage, and the geriatric patient. Intended for students in the Paramedic Program; enrollment is limited to students accepted in the program. **Transferable: CSU**

FHGE: Non-GE Applicable

PARAMEDIC COGNITIVE, **AFFECTIVE & PSYCHOMOTOR IIIB** Degree & Credit Status: Degree-applicable credit course

Prerequisites: EMS 61A and 61B.

Advisory: Not open to students with credit in EMTP 62B. Grade Type: Letter Grade Only

Not Repeatable.

1 hour lecture, 6.5 hours laboratory. (90 hours total per quarter.)

Paramedic skills presented: proper hand washing; personal protective equipment; patient assessment; intravenous access; intraosseous infusion; pharmacology; medication administration; airway management: endotracheal intubation, oropharyngeal airway, nasopharyngeal airway, suctioning, dual lumen airways; advanced cardiac life support ambulance 911 call simulations and case studies; synchronized cardioversion; transcutaneous pacing; defibrillation; cardiovascular/chest pain emergency 911 call simulations; end tidal carbon dioxide monitoring; capnography; 12 lead ECG interpretation. Intended for students in the Paramedic Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

PARAMEDIC HOSPITAL **EMS 63A** SPECIALTY ROTATIONS

Degree & Credit Status: Degree-applicable credit course Prerequisites: EMS 60A and 60B. Corequisites: EMS 61A and 61B. Advisory: Not open to students with credit in EMTP 63A or 102.

Grade Type: Letter Grade Only

Not Repeatable.

6 hours clinic. (72 hours total per quarter.)

Application of skills that demonstrate principles and concepts of anatomy, physiology, pathophysiology, clinical symptoms and diagnosis as they pertain to pre-hospital emergency medical care of the sick and injured. The student will rotate through specialty areas of the hospital departments: pediatrics, pediatric intensive care unit, labor and delivery, surgery (airway management), respiratory therapy, other selected hospital areas, assisted living, Skills Nursing Facilities, and facilities for the mentally and physically challenged. Intended for students in the Paramedic Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable **Transferable: CSU**

> PARAMEDIC HOSPITAL 4.5 Units EMERGENCY DEPARTMENT ROTATIONS

Degree & Credit Status: Degree-applicable credit course Prerequisites: EMS 60A and 60B.

Corequisite: Completion of or concurrent enrollment in EMS 63A.

Advisory: Not open to students with credit in EMTP 63B or 102.

Grade Type: Letter Grade Only

Not Repeatable.

EMS 63B

14 hours clinic. (168 hours total per quarter.)

Application of skills that demonstrate principles and concepts of anatomy, physiology, pathophysiology, clinical symptoms and diagnosis as they pertain to pre-hospital emergency medical care of the sick and injured. The student will rotate through specialty areas of the hospital departments: pediatrics, pediatric intensive care unit, labor and delivery, surgery (airway management), respiratory therapy, and other selected hospital areas. Intended for students in the Paramedic Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in EMTP 64A or 103A. Grade Type: Letter Grade Only Not Repeatable.

40 hours clinic. (480 hours total per quarter.)

Application of paramedic knowledge and skills in the clinical setting as an intern responding on a 911 ambulance to ill and injured patients while being instructed and evaluated by a field preceptor. The student has the task of initiating, providing, and directing entire emergency patient care while under the supervision of a preceptor. First of two ambulance field internships required for certification as an EMT-Paramedic in California. Intended for students in the Paramedic Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable **Transferable: CSU**

EMS 64B PARAMEDIC AMBULANCE FIELD 13 Units **INTERNSHIP II**

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in EMTP 64B or 103B. Grade Type: Letter Grade Only

Not Repeatable.

40 hours clinic. (480 hours total per quarter.)

Application of paramedic knowledge and skills in the clinical setting as an intern responding on a 911 ambulance to ill and injured patients while being instructed and evaluated by a field preceptor. The student has the task of initiating, providing, and directing entire emergency patient care while under the supervision of a preceptor. Second of two ambulance field internships required for certification as an EMT-Paramedic in California. Intended for students in the Paramedic Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

EMERGENCY MEDICAL

8 Units

1.5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: EMS 53.

Advisory: Not open to students with credit in EMT 120 or 309. Grade Type: Letter Grade Only

SERVICES ACADEMY

Not Repeatable.

EMS 120

6 hours lecture, 6 hours laboratory. (144 hours total per quarter.) Students will participate in physical training identical to that of EMTs employed by large private ambulance providers. Heavy emphasis is placed on training in patient moving and lifting, documentation, scenario practice, customer service and medical legal issues. Mock interviews will be conducted by job recruiters from local public and private agencies. Successful completion of the class will result in a stronger first time job applicant. Intended for students interested in a career as an Emergency Medical Technologist. FHGE: Non-GE Applicable **Transferable: None**

PARAMEDIC ACADEMY **EMS 200**

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Current CPR card; current EMT license; at least 2 years of experience as an EMT.

Advisory: Not open to students with credit in EMTP 200.

Grade Type: Letter Grade Only

Not Repeatable.

6 hours lecture, 36 hours laboratory. This is a 1 week course. (42 hours total per quarter)

Introduction to the profession of paramedicine. Emphasis on paramedic terminology, communication skills, licensure, documentation, patient assessments, and skills proficiency. Discussion of the requirements for the paramedic program. Intended for students entering or considering to enter the paramedic program. This course is designed to prepare the student with the basic knowledge and skills necessary to succeed in the Paramedic Academy.

FHGE: Non-GE Applicable

Transferable: None

13 Units

EMERGENCY MEDICAL **TECHNICIAN: BASIC** CONTINUING EDUCATION

Degree & Credit Status: Non-degree-applicable credit course Advisory: Students must possess either a current EMT-1 certificate or a certification which has been expired for no more than 24 months (must complete before the end of that month); students who have not fulfilled NREMT requirements within one year of EMT course completion may enroll; students must also possess current certification in American Red Cross CPR-BLS for the Professional Rescuer or American Heart Association CPR for the Healthcare Provider; students may repeat this course without petition when necessary to meet a legally mandated training requirement as a condition of volunteer or paid employment.

Grade Type: Letter Grade or Pass/No Pass

Unlimited Repeatability.

2 hours lecture, 1.5 hours laboratory. (42 hours total per quarter.) This course meets the education requirements as specified by the California Emergency Medical Services Authority, the Emergency Medical Authority of Santa Clara County and the National Registry of EMT (NREMT) of 40 hours. Intended for both pre-employed personnel and those persons currently employed by a fire department or ambulance service within the County of Santa Clara. Review and update the knowledge and skills required for basic certification. Students maintaining their National Registry of Emergency Technicians (NREMT) certification will meet the NREMT transition requirements with this course.

FHGE: Non-GE Applicable

Transferable: None

EMS 400 EMERGENCY MEDICAL 0 Units **RESPONSE NONCREDIT** Degree & Credit Status: Non-degree-applicable non-credit course

Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

4 hours lecture, 4 hours laboratory. (96 hours total per quarter.) Provides the student with the knowledge and skills necessary to work as an emergency medical responder (EMR) to help sustain life, reduce pain and minimize the consequences of injury or sudden illness until more advanced medical help takes over. The course meets or exceeds the 2008 Emergency Medical Services Educational Standards for Emergency Medical Response and meets Guidelines 2010 for First Aid and 2010 Consensus on Science for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care. Students must successfully pass this course to enter in the EMT course. FHGE: Non-GE Applicable **Transferable: None**

EMS 401 EMERGENCY MEDICAL 0 Units **TECHNICIAN: BASIC PART A** NONCREDIT

Degree & Credit Status: Non-degree-applicable non-credit course Prerequisite: EMS 50 or 400, or First Responder Course, or equivalent work experience as determined by the instructor. Corequisite: EMS 401A.

Advisory: EMS 401 and 402 may not be taken concurrently. Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.)

Intended to instruct a student to the level of Emergency Medical Technician-1 who serves as a vital link in the chain of the health care team. It is recognized that the majority of prehospital emergency medical care will be provided by the EMT-1. Includes all skills necessary for the individual to provide emergency medical care at a basic life support level with a fire department, or other specialized service. First of two courses required to be eligible to take the California written and practical exam for certification as an Emergency Medical Technician-1.

FHGE: Non-GE Applicable

Transferable: None

EMERGENCY MEDICAL TECHNICIAN SIMULATION LABORATORY I NONCREDIT

Degree & Credit Status: Non-degree-applicable non-credit course Corequisite: EMS 401.

Advisory: EMS 401A and 402A may not be taken concurrently. Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

1.5 hours laboratory. (18 hours total per quarter.)

First in a two course series, which provides the student with hands on application of skills necessary to work as an emergency medical technician (EMT). Students will participate in patient assessment scenarios focused on medical complaints and treatments of various diseases, to build competence and prepare to sit for the state certification exam and enter into the EMT workforce.

FHGE: Non-GE Applicable **Transferable: None**

EMS 402 **EMERGENCY MEDICAL** 0 Units **TECHNICIAN: BASIC PART B** NONCREDIT

Degree & Credit Status: Non-degree-applicable non-credit course Prerequisite: EMS 401.

Corequisite: EMS 402A.

Advisory: EMS 402 is part two of two courses required to be eligible to take the California State written and practical exam for certification as an Emergency Medical Technician-1; EMS 401 and 402 may not be taken concurrently.

Grade Type: Non-credit course that receives no grade

Unlimited Repeatability.

4 hours lecture, 3 hours laboratory, 2 hours clinic. (108 hours total per quarter.)

Second of two courses required to be eligible to take the California State written and practical exam for certification as an Emergency Medical Technician-1. Intended to instruct a student to the level of Emergency Medical Technician-Basic who serves as a vital link in the chain of the health care team. Includes all skills necessary for the individual to provide emergency medical care at a basic life support level with a fire department, ambulance, or other specialized service.

FHGE: Non-GE Applicable

Transferable: None

EMS 402A EMERGENCY MEDICAL 0 Units **TECHNICIAN SIMULATION** LABORATORY II NONCREDIT

Degree & Credit Status: Non-degree-applicable non-credit course Corequisite: EMS 402.

Advisory: EMS 402A is part two of two courses required to be eligible to take the California State written and practical exam for certification as an Emergency Medical Technician-1; EMS 401A and 402A may not be taken concurrently.

Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

1.5 hours laboratory. (18 hours total per quarter.)

Second in a two course series, which provides the student with hands on application of skills necessary to work as an emergency medical technician (EMT). Students will participate in patient assessment scenarios focused on trauma and treatment of various mechanisms of injuries, to build competence and prepare to sit for the state certification exam and enter into the EMT workforce.

FHGE: Non-GE Applicable

Transferable: None

ENGINEERING

0 Units

Physical Sciences, Mathematics & Engineering 650.949.7259 foothill.edu/engineering/

ENGR 6 ENGINEERING GRAPHICS 4 Units

Degree & Credit Status: Degree-applicable credit course

Prerequisite: MATH 48C or equivalent.

Advisory: ENGL 110 or ESLL 125. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

The application of orthographic projection to detail and assembly drawings, with examples from various engineering fields. Geometric construction, sketching, dimensioning for interchangeable assembly and specification of materials. Graphical analysis, documentation and presentation of engineering information. Theory of orthographic projection and its application to graphical solution of the more advanced three-dimensional space problems. Investigation of relationships between points, lines, planes and solids. Use of solid modeling computer program in carrying out the above course components.

FHGE: Non-GE Applicable

Transferable: CSU/UC

INTRODUCTION TO **ENGR 10** 5 Units ENGINEERING

Degree & Credit Status: Degree-applicable credit course Advisory: ENGL 110 or ESLL 125; UC will accept for transfer credit either ENGR 10 or ENGR 49, not both; not open to students with credit in ENGR 20.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.) A first experience in engineering, this course is open to all students intending to major in engineering or who want to try out engineering. Students will gain experience with project management and design, insights from discussions on ethics and environmental impact and skills in written and oral

technical communication. FHGE: Non-GE Applicable Transferable: CSU/UC

5 Units **ENGR 11 PROGRAMMING & PROBLEM-SOLVING IN MATLAB** Degree & Credit Status: Degree-applicable credit course

Prerequisite: MATH 1B or 1BH.

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.)

This course utilizes the MATLAB environment to provide students with a working knowledge of computer-based problem-solving methods relevant to science and engineering. It introduces the fundamentals of procedural and object-oriented programming, numerical analysis, and data structures. Examples and assignments in the course are drawn from practical applications in engineering, physics, and mathematics.

FHGE: Non-GE Applicable Transferable: CSU/UC

ENGR 35

5 Units

STATICS Degree & Credit Status: Degree-applicable credit course

Prerequisites: MATH 1B or 1BH; PHYS 4A. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Principles of statics as applied to particles and rigid bodies in two and three dimensions under concentrated and distributed force systems. Equilibrium conditions in structures, machines, beams and cables. Determination of centroids and moments of inertia. Dry friction and methods of virtual work. FHGE: Non-GE Applicable Transferable: CSU/UC

ENGR 37 INTRODUCTION TO CIRCUIT ANALYSIS

Degree & Credit Status: Degree-applicable credit course Prerequisite: PHYS 4B. Corequisite: MATH 2A. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Analysis of lumped, linear circuits in steady state DC and AC. Principals and Laws are used, such as Ohm's Law and Kirchhoff's Law, Thevenin's and Norton's Theorem. Methods of analyzing circuits also include Linearity, Superposition, Source Transformation, and Maximum Power Transfer. First and second order circuits' complete response, AC power and steady-state analysis, frequency and transient response and circuits using op-amps. FHGE: Non-GE Applicable Transferable: CSU/UC

ENGR 37L **CIRCUIT ANALYSIS** LABORATORY

Degree & Credit Status: Degree-applicable credit course Corequisite: Completion of or concurrent enrollment in ENGR 37. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture, 3 hours laboratory. (48 hours total per quarter.) Practical verification of theorems and concepts learned in ENGR 37 through experimentation. Included will be experiments in DC and AC circuits involving the utilization of a variety of instruments, such as DC/ AC meters, regulated power supplies, signal generators, oscilloscopes and frequency counters.

FHGE: Non-GE Applicable Transferable: CSU/UC

ENGR 40 INTRODUCTION TO CLEAN 5 Units ENERGY TECHNOLOGY

Degree & Credit Status: Degree-applicable credit course

Advisory: CHEM 25 or equivalent; ability to do basic engineering calculations, including use of spreadsheets.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.)

Introduces the technical student to the field of clean energy technology, including modern energy systems and utility infrastructure, fossil fuel and renewable energy power generation, solar photovoltaic (PV) and wind technology, buildings as systems, green and LEED building, smart energy and active distribution (microgrid concept), transportation energy and advanced transportation solutions, and the future of sustainable energy systems. Overview of the energy industry, environmental and economic considerations, and key research and policy areas for clean and sustainable energy solutions. Provides students with a conceptual framework and foundation to proceed to more advanced study, as well as exploring emerging clean energy careers.

FHGE: Non-GE Applicable

Transferable: CSU/UC

PROPERTIES OF MATERIALS 5 Units **ENGR 45** Degree & Credit Status: Degree-applicable credit course Prerequisites: CHEM 1B or 1BH; MATH 1C. Corequisite: Completion of or concurrent enrollment in PHYS 4B. Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 4 hours lecture, 3 hours laboratory. (84 hours total per quarter.) Properties of engineering materials related to basic structure; applications

to the selection and use of engineering materials. FHGE: Non-GE Applicable Transferable: CSU/UC

ENGR 47 **DYNAMICS**

Degree & Credit Status: Degree-applicable credit course Prerequisite: ENGR 35. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Intended for engineering majors planning to transfer to four-year institutions. It covers the fundamentals of kinematics and kinetics of particles and rigid bodies. Topics include general and relative motion, force and acceleration, work and energy, and impulse and momentum analyzed in two and three dimensions. Provides an introduction to vibrations and oscillations. Transferable: CSU/UC FHGE: Non-GE Applicable

ENGR 49 ENGINEERING PROFESSION 1 Unit

Degree & Credit Status: Degree-applicable credit course Advisory: UC will accept for transfer credit either ENGR 10 or ENGR 49,

not both. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per guarter.)

A study of the engineering profession, its requirements, opportunities and responsibilities. Exposure to engineers and their educational, personal, and career paths. Review of engineering ethics. Students formulate a career plan.

FHGE: Non-GE A	pplicable	Transferable: CSU/UC	
ENGR 70R	INDEPENDE ENGINEERII	ENT STUDY IN NG	1 Unit
ENGR 71R			2 Units
ENGR 72R			3 Units
ENGR 73R			4 Units
Degree & Credit	Status: Degree-ap	plicable credit course	
Grade Type: Lette	er Grade or Pass/N	lo Pass	

Not Repeatable.

3-12 hours laboratory per week. (36-144 hours total per quarter.)

Provides an opportunity for the student to expand their studies in Engineering beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department. FHGE: Non-GE Applicable Transferable: CSU

5 Units

ENGLISH

Language Arts

650.949.7250 foothill.edu/english/

ENGL 1A COMPOSITION & READING 5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Demonstrated proficiency in English by placement via multi-

ple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Corequisite: For students who do not meet the prerequisite requirement, concurrent enrollment in ENGL 246A or ESLL 201A or NCEN 401A is required, depending on placement by multiple measures.

Advisory: Not open to students with credit in ENGL 1AH; students may

enroll in ENGL 1A or 1T, but not both, for credit.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Techniques and practice of expository and argumentative writing based on critical reading and thinking about texts. Reading focused primarily on works of non-fiction prose, chosen to represent a broad spectrum of opinions and ideas, writing styles, and cultural experiences. Fulfills the Foothill College reading and composition requirement for the AA/AS degree and the university-transfer general education requirement in English reading and written composition.

FHGE: English

Transferable: CSU/UC

ENGL 1AH HONORS COMPOSITION & 5 Units READING 5

Degree & Credit Status: Degree-applicable credit course

Prerequisites: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; Honors Institute participant.

Advisory: Not open to students with credit in ENGL 1A or 1T. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Techniques and practice of expository and argumentative writing based on critical reading and thinking about texts. Reading focused primarily on works of non-fiction prose, chosen to represent a broad spectrum of opinions and ideas, writing styles, and cultural experiences. Fulfills the Foothill College reading and composition requirement for the AA/AS degree and the university-transfer general education requirement in English reading and written composition. The honors section offers rigorous preparation in analytic reading and writing skills for students intending to transfer to a four-year college or university. Provides opportunity to engage contemporary social and ethical issues through small group discussion, a structured sequence of papers requiring higher-level thinking tasks, and collaborative projects. Emphasis is placed on multiple drafts and substantive revision to produce articulate writing appropriate to academic disciplines. Research paper is required.

FHGE: English

Transferable: CSU/UC

ENGL 1B

COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE

Degree & Credit Status: Degree-applicable credit course Prerequisite: One of the following: ENGL 1A, 1AH, or 1S & 1T. Advisory: Not open to students with credit in ENGL 1BH. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Further development in the technique and practice of analytical, critical, and argumentative writing through critical reading of literature. Course focuses on literary works from major genres to promote appreciation of literature and represent a broad spectrum of opinions and ideas, writing styles, and cultural experiences. Formal instruction in composition and critical thinking.

FHGE: Communication & Analytical Thinking Transferable: CSU/UC

ENGL 1BH

HONORS COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant. Advisory: Not open to students with credit in ENGL 1B. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Further development in the technique and practice of analytical, critical, and argumentative writing through critical reading of literature. Course focuses on literary works from major genres to promote appreciation of literature and represent a broad spectrum of opinions and ideas, writing styles, and cultural experiences. Formal instruction in composition and critical thinking. The honors section offers a challenging intellectual environment for students intending to transfer to a four-year college or university. Class discussion and assignments focus on literature as a reflection of multiple perspectives, social constructs, and cultural values. Course fosters an understanding and appreciation of various literary genres and includes logic and literary theory. Emphasis on rhetorical strategies and stylistic refinements for effective persuasive writing across the disciplines. Enrichment activities include attendance at plays, author readings, public lectures, and independent or collaborative study on a contemporary author. FHGE: Communication & Analytical Thinking Transferable: CSU/UC

ENGL 1C

ARGUMENTATIVE WRITING & CRITICAL THINKING

5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: One of the following: ENGL 1A, 1AH, or 1S & 1T. Advisory: Not open to students with credit in ENGL 1CH or 2. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Advanced study and practice of argumentative writing with emphasis on critical analysis and evaluation of texts. Focus is on reading and writing assignments from across the disciplines to further improve and refine critical reading, writing, and thinking skills.

FHGE: Non-GE Applicable

Transferable: CSU/UC

HONORS ARGUMENTATIVE WRITING & CRITICAL THINKING

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant. Advisory: Not open to students with credit in ENGL 1C or 2. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per guarter.)

Advanced study and practice of argumentative writing with emphasis on critical analysis and evaluation of texts. Focus is on reading and writing assignments from across the disciplines to refine critical reading, writing, and thinking skills. The honors section is intensive in content, involving both writing and meta-analysis of complex texts. Includes collaborative evaluations of the content, evidence, organizing principles and style of a variety of texts. Course encourages students to examine assumptions, implications and unintended consequences of rhetorical and content choices. Includes focus on primary sources and the interpretations of these documents in contemporaneous writing. Course expands and enhances the student's ability to write with fluency, effectiveness, and intellectual rigor. FHGE: Non-GE Applicable Transferable: CSU/UC

ENGL 1S INTEGRATED COMPOSITION 4 Units

& READING Degree & Credit Status: Degree-applicable credit course Prerequisite: Eligibility based on appropriate assessment information.

Corequisite: ENGL 242A or NCEN 442A.

Advisory: If the student intends to use ENGL 1S & 1T combination to satisfy the Foothill General Education requirement for Area II, English, the student must complete ENGL 1S & 1T; also, to receive UC transfer credit for ENGL 1A, the student must complete ENGL 1S & 1T, and UC will transfer 5 units maximum for the combination of these two courses; not open to students with credit in ENGL 42S. Grade Type: Letter Grade Only

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Integrated reading and writing pathway that scaffolds instruction in freshman composition outcomes over two quarters, ENGL 1S and 1T respectively. Over this two quarter stretch, students read college-level texts and write a total of 8,000 words, comprised of a minimum of eight compositions (of which at least five must be out-of-class and at least two must be in-class) to practice the techniques of critical reading, critical thinking, and written communication. Reading focused primarily on works of non-fiction prose, including published and student writing, chosen to represent a broad spectrum of opinions and ideas, writing styles, and cultural experiences.

FHGE: English

Transferable: CSU/UC

INTEGRATED COMPOSITION & READING

Degree & Credit Status: Degree-applicable credit course Prerequisite: ENGL 1S.

Corequisite: ENGL 242B or NCEN 442B.

Advisory: Student should enroll with the same instructor as taken for ENGL 1S; if the student intends to use ENGL 1S & 1T combination to satisfy the Foothill General Education requirement for Area II, English, the student must complete ENGL 1S & 1T; to receive UC transfer credit for ENGL 1A, the student must complete ENGL 1S & 1T, and UC will transfer 5 units maximum for the combination of these two courses; the student may enroll in ENGL 1T or 1A, but not both, for credit; not open to students with credit in ENGL 42T.

Grade Type: Letter Grade Only

Not Repeatable.

ENGL 1T

4 hours lecture. (48 hours total per quarter.)

Integrated reading and writing pathway that scaffolds instruction in freshman composition outcomes over two quarters, ENGL 1S and 1T respectively. Over this two quarter stretch, students read college-level texts and write a total of 8,000 words, comprised of a minimum of eight compositions (of which at least five must be out-of-class and at least two must be in-class) to practice the techniques of critical reading, critical thinking, and written communication. Reading focused primarily on works of non-fiction prose, including published and student writing, chosen to represent a broad spectrum of opinions and ideas, writing styles, and cultural experiences. FHGE: English Transferable: CSU/UC

ENGL 5 LGBT LITERATURE

4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Introduction to the history and development of LGBT literature as a continuous theme in the development of mainstream literary traditions and, more recently, as a separate and distinct literary genre. Readings selected to represent a variety of historical periods and contrasting societal attitudes toward same-sex relationships and queer gender identities, ranging from ancient Greek and Roman texts to contemporary American poetry, fiction, drama, and non-fiction prose. Emphasis on the emergence of contemporary LGBT literatures and identities in the United States in the twentieth century within the broader context of on-going class, race, gender, religious, political, and aesthetic debates.

FHGE: Humanities Transferable: CSU/UC

ENGL 7 NATIVE AMERICAN LITERATURE

.N

4 Units

LITERATURE Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of

ESLL 125 & ESLL 249; not open to students with credit in ENGL 7H. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Introduction to the history, development, and diversity of Native American literatures, from pre-contact civilizations to present-day tribal cultures. Readings in traditional creation myths, songs, and stories from a variety of tribal cultures; nineteenth and twentieth century autobiographical narratives; and significant works of fiction, poetry, and non-fiction prose by contemporary Native American authors. Emphasis on the specific religious, linguistic, historical, political and cultural context of Native American literary achievements.

FHGE: American Cultures & Communities, Humanities Transferable: CSU/UC

ENGL 8 CHILDREN'S LITERATURE

Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

A survey of children's literature from many periods and cultures, including classics, picture books, folktales, fairy tales, biography, poetry, fantasy, and fiction. Emphasis on the ideas, didactic and sociological, reflecting relationships among cultures in America included in books usually read by children. Special emphasis on books that explore the cross-cultural influences of our shared oral tradition and folklore, as well as the issues arising from a diversity of U.S. cultures.

FHGE: Non-GE Applicable

Transferable: CSU/UC

INTRODUCTION TO POETRY ENGL 11 Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in ENGL 11H. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Students will be introduced to the forms, techniques, meanings, and history of poetry. Because poetry, since the mid-nineteenth century has turned internationally toward a more communicative and social form of literary expression, emphasis relies on modern examples in English and translation to develop the student's ability to read, understand, and evaluate a poem in the context of the modern world.

FHGE: Non-GE Applicable

Transferable: CSU/UC

ENGL 11H HONORS INTRODUCTION TO POETRY

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant. Advisory: Not open to students with credit in ENGL 11. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

The honors section offers rigorous preparation in discussion and analysis of poetic forms, techniques, meanings, and history of poetry for students intending to transfer to a four-year college or university. Because poetry, since the mid-nineteenth century, has turned internationally toward a more communicative and social form of literary expression, emphasis relies on modern examples in English and translation to develop the student's ability to read, understand, and evaluate a poem in the context of the modern world. Honors students will have the opportunity to engage in deeper critical analysis and evaluation of poetry and its social, historical, and literary contexts to through the application of higher level, student-generated, student-centered discussion and creative assessments.

FHGE: Non-GE Applicable

Transferable: CSU/UC

AFRICAN AMERICAN LITERATURE

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 Units

4 Units

4 Units

4 hours lecture. (48 hours total per quarter.)

Literature by African Americans beginning in slavery and continuing on into the 20th and 21st centuries. Discovery of many of the current stereotypes in American cultural mythology about African Americans. Study of the complex and varying forms of resistance and creation African Americans have developed. Definition of issues and strategies in writings from the 19th, 20th and 21st centuries, including audience, identity (self), gender, family, culture, politics, spirituality and language. Intended for students wishing to transfer and/or students interested in African American literature. FHGE: American Cultures & Communities, Humanities

Transferable: CSU/UC

ENGL 14 TRAVELING THE WORLD 4 Units THROUGH CONTEMPORARY LITERATURE

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Selected fiction written between 1950 and the present, with emphasis on English, Canadian, and international works in translation. Students are introduced to various thematic and stylistic trends in contemporary fiction; use of current scientific discoveries, historical theories, religious and cultural developments.

FHGE: Humanities

Transferable: CSU/UC

ENGL 16 INTRODUCTION TO 4 Units LITERATURE

Degree & Credit Status: Degree-applicable credit course Prerequisite: One of the following: ENGL 1A, 1AH, or 1S & 1T. Grade Type: Letter Grade Only

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Introduction to literary study through texts from a wide range of genres, including poetry, drama, fiction, and creative nonfiction. Focus on analytical reading and literary analysis, including effective use of critical theory and secondary source research. Intended for students desiring further development of literary analytical skills and literary appreciation. FHGE: Humanities Transferable: CSU/UC

INTRODUCTION TO ENGL 17 4 Units **SHAKESPEARE**

Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Introduction to selected tragic, comedic, romance, history plays, and sonnets of Shakespeare, with focus on detailed analysis of texts. Includes critical theory and secondary source research. Intended as an introductory course for English majors and students across the curriculum. FHGE: Humanities Transferable: CSU/UC

VAMPIRE LITERATURE: MULTICULTURAL REPRESENTATIONS OF THE BLOODSUCKER

Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade Only Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Survey of vampire literature across a variety of cultures. Discussion and analysis (both written and oral) of vampiric literary texts within various theoretical and historical contexts, including the gothic, the psychoanalytic, gender and sexuality, race and the "other," cultural studies, theories of corporeality. Emphasis on historical and cross-cultural analyses. FHGE: Humanities Transferable: CSU/UC

ENGL 18B GOTHIC & HORROR LITERATURE

4 Units

4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

A survey of gothic and horror literature from its 18th-century beginnings to its 21st-century manifestations, including subgenres, such as haunted spaces, poltergeists, and demonic possession; werewolves and vampires; supernatural, psychological, religious, and "slasher" horror. Reading and analysis of multicultural texts contextualized historically and interculturally, with special attention to the aesthetics and psychologies of fear. FHGE: Non-GE Applicable Transferable: CSU/UC

ENGL 22 WOMEN WRITERS

4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

An examination of the works of multicultural women poets, novelists, dramatists, and essayists and their aesthetic and sociopolitical contribution to English and American literature. Literary discussions of gender as relevant to race, ethnicity, socioeconomic class, sexual orientation, and other constructs of identity and power.

FHGE: Humanities Transferable: CSU/UC

ENGL 24 UNMASKING COMICS: THE DAWN OF THE GRAPHIC NO

4 Units

229

DAWN OF THE GRAPHIC NOVEL Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Introduction to the history of graphic communication, emphasizing the burgeoning and dynamic form of contemporary graphic narrative: from memoir writing, to crime fiction, to the superhero, to socio-political writing. Explore how the history and evolution of this distinct literary genre has made it a relevant form of expression for artists and writers across the world and how reading comics challenges traditional modes of reading. Because this form of storytelling is used by artists all over the world to express the human condition and specific socio-cultural insight, the course inspires world-wide cross-cultural awareness.

FHGE: Humanities Transferable: CSU/UC

ENGL 31 LATINO/A LITERATURE

RATURE

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple

measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Reading and discussion of Latino/a literature and its relationship to social issues and identity politics of Latinos/as. Critical examination of fiction, poetry, essays, and drama by and about the Latino/a communities, including those of Mexican, Puerto Rican, Cuban, Caribbean, and South and Central American descent.

FHGE: Humanities Transferable: CSU/UC

ENGL 34C LITERATURE INTO FILM

FILM

4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Examination of the ways great world literature throughout world history has been adapted for the modern day movie going audience, from one medium to the other - from text to film or television series. Consideration of: 1. how film makers adapt literature to film, considering the conventions of each medium; 2. how film and literature may evoke similar or different meanings, considering historical, cultural and other contexts for creation and reception; 3. how one medium may inform the other.

FHGE: Humanities Transferable: CSU/UC

ENGL 37	SCIENCE FICTION	4 Units
	LITERATURE:	
	REIMAGINEERING REALITY	

Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Introduction to the evolution of science fiction, emphasizing analysis of literature and artwork in or after the age of reason, exploring how new scientific insights and technologies hypothetically shape reality through: poems, short stories, novels, plays, film, comics, paintings, or other artistic expressions. Examine how the history and evolution of this distinct literary field has inspired many different modes of art and genres of literature. Because this form of storytelling is used by artists all over the world to express the human condition and specific socio-cultural insight, the course inspires world-wide cross cultural awareness.

FHGE: Humanities Transferable: CSU/UC

ENGL 38 LITERATURE OF PROTEST

Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

An exploration of protest found in literature, music, and art in the United States. Texts, such as essays, short stories, poetry, drama, music, paintings, photography and film, which helped to inform, sustain, and empower during difficult periods of human history, will be examined. Evaluation of how various artists construe the relationship between aesthetics and politics (that is, the social/political purposes of their art) is the central question we will seek to answer. By examining the ways in which each work confronts the status quo of an inhumane society, we will trace a tradition of protest and discover the means and methods of protest across an array of sources. Transferable: CSU/UC **FHGE: Humanities**

ENGL 40 ASIAN AMERICAN LITERATURE 4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in ENGL 40H. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Introduction to Asian American literature. Readings in 20th century works, with an emphasis on three relevant themes: problems of identity as they relate to class, gender, mixed heritages, and sexuality; politics and the history of Asian American activism and resistance; and diversity of cultures within the Asian American community.

FHGE: American Cultures & Communities, Humanities Transferable: CSU/UC

ENGL 41 LITERATURE OF 4 Units MULTICULTURAL AMERICA

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249. Grade Type: Letter Grade Only

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

An exploration of American identity, focusing on ethnic, cultural, and national affiliations. Analysis of literary works by (including among others) Native American, European American, African American, Latino/a, Arab American, Asian American, and mixed race writers. Readings selected represent a variety of historical periods and literary genres. Emphasis on issues of identity politics, immigration, internally and externally imposed borders, cultural and linguistic power, assimilation, acculturation, and cultural pluralism as expressed through diverse voices.

FHGE: Humanities Transferable: CSU/UC

ENGL 43A

4 Units

SURVEY OF BRITISH LITERATURE I: BEOWULF TO THE LATE 18TH CENTURY

Degree & Credit Status: Degree-applicable credit course Prerequisite: Eligibility for college-level composition (ENGL 1A or 1AH), as determined by college assessment or other appropriate method. Advisory: Successful completion of college-level composition (ENGL 1A, 1AH or 1S & 1T) or equivalent; not open to students with credit in ENGL 43AH, 46A or 46B.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

A survey of canonical literature spanning the earliest Old English texts, Middle English period, Early Modern period, ending with Neoclassicism. Texts discussed and analyzed within historical, sociocultural, philosophical, and aesthetic contexts. FHGE: Humanities

ENGL 43AH

HONORS SURVEY OF BRITISH LITERATURE I: BEOWULF TO THE LATE 18TH CENTURY

Transferable: CSU/UC

Degree & Credit Status: Degree-applicable credit course

Prerequisites: Eligibility for college-level composition (ENGL 1A or 1AH), as determined by college assessment or other appropriate method; Honors Institute participant.

Advisory: Successful completion of college-level composition (ENGL 1A, 1AH or 1S & 1T) or equivalent; not open to students with credit in ENGL 43A, 46A or 46B.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

A survey of canonical literature spanning the earliest Old English texts, Middle English period, Early Modern period, ending with Neoclassicism. Texts discussed and analyzed within historical, sociocultural, philosophical, and aesthetic contexts. Specific to this honors course: A higher level of sophisticated scholarship through extensive research and literature review, critical essays, and opportunities for scholarly presentation, student-generated discussions, and self-directed projects. Rigorous application and analysis of theoretical paradigms as applied across these contexts in analysis of canonical literary texts.

Transferable: CSU/UC FHGE: Humanities

ENGL 43B

SURVEY OF BRITISH LITERATURE II: THE **ROMANTIC PERIOD TO THE** PRESENT

5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Eligibility for college-level composition (ENGL 1A or 1AH), as determined by college assessment or other appropriate method. Advisory: Successful completion of college-level composition (ENGL 1A, 1AH or 1S & 1T) or equivalent; not open to students with credit in ENGL 43BH, 46B or 46C.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

230

5 hours lecture. (60 hours total per guarter.)

A survey of canonical literature beginning with the 1798 publication of Lyrical Ballads, through the Romantic Period, Victorian Period, twentieth-century Modernism and Postmodernism, to the present. Texts discussed and analyzed within historical, sociocultural, philosophical, and aesthetic contexts.

FHGE: Humanities Transferable: CSU/UC

HONORS SURVEY OF BRITISH LITERATURE II: THE ROMANTIC PERIOD TO THE PRESENT

Degree & Credit Status: Degree-applicable credit course Prerequisites: Eligibility for college-level composition (ENGL 1A or 1AH),

as determined by college assessment or other appropriate method; Honors Institute participant.

Advisory: Successful completion of college-level composition (ENGL 1A, 1AH or 1S & 1T) or equivalent; not open to students with credit in ENGL 43B, 46B or 46C.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

ENGL 43BH

5 hours lecture. (60 hours total per quarter.)

A survey of canonical literature spanning the Romantic Period, Victorian Period, through Modernism and Postmodernism, to the present. Texts discussed and analyzed within historical, sociocultural, philosophical, and aesthetic contexts. Specific to this honors course: A higher level of sophisticated scholarship through extensive research and literature review, critical essays, and opportunities for scholarly presentation, student-generated discussions, and self-directed projects. Rigorous application and analysis of theoretical paradigms as applied across these contexts in analysis of canonical works.

FHGE: Humanities Transferable: CSU/UC

ENGL 45A SURVEY OF AMERICAN LITERATURE I: BEGINNINGS TO 1865

Degree & Credit Status: Degree-applicable credit course Prerequisite: Eligibility for college-level composition (ENGL 1A or 1AH), as determined by college assessment or other appropriate method. Advisory: Successful completion of college-level composition (ENGL 1A, 1AH or 1S & 1T) or equivalent; not open to students with credit in ENGL 45AH, 48A or 48B.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

The first in a two-course sequence that surveys the history of American literature from its beginnings to the present. Introduces students to works of American literature from its beginnings through the Civil War, focusing on the evolution of literary traditions, genres, cultural voices, and ecological landscapes within historical, philosophical, social, political, and aesthetic contexts. Special emphasis on the contributions of diverse cultures in forging a distinctively American literature, landscape, and identity.

FHGE: American Cultures & Communities, Humanities Transferable: CSU/UC

5 Units EN

5 Units

ENGL 45AH

HONORS SURVEY OF AMERICAN 5 Units LITERATURE I: BEGINNINGS TO 1865

Degree & Credit Status: Degree-applicable credit course Prerequisites: Eligibility for college-level composition (ENGL 1A or 1AH), as determined by college assessment or other appropriate method; Honors Institute participant.

Advisory: Successful completion of college-level composition (ENGL 1A, 1AH or 1S & 1T) or equivalent; not open to students with credit in ENGL 45A, 48A or 48B.

Grade Type: Letter Grade Only

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

The first in a two-course sequence that surveys the history of American literature from its beginnings to the present. Introduces students to works of American literature from its beginnings through the Civil War, focusing on the evolution of literary traditions, genres, cultural voices, and ecological landscapes within historical, philosophical, social, political, and aesthetic contexts. Special emphasis on the contributions of diverse cultures in forging a distinctively American literature, landscape, and identity. Specific to this honors course: A higher level of sophisticated scholarship through extensive research and literature review, critical essays, and opportunities for scholarly presentation, student-generated discussions, and self-direct-ed projects. Rigorous application and analysis of theoretical paradigms as applied across these contexts in analysis of canonical literary texts. **FHGE: American Cultures & Communities, Humanities**

Transferable: CSU/UC

ENGL 45B	SURVEY OF AMERICAN	5 Units
	LITERATURE II: 1865 TO	
	THE PRESENT	
Dograa & Cradie	t Status, Dograa applicable gradit gourse	

Degree & Credit Status: Degree-applicable credit course Prerequisite: Eligibility for college-level composition (ENGL 1A or 1AH), as determined by college assessment or other appropriate method. Advisory: Successful completion of college-level composition (ENGL 1A, 1AH or 1S & 1T) or equivalent; not open to students with credit in ENGL 45BH, 48B or 48C.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Introduces students to multicultural American Literature from the end of the Civil War in 1865 to the present, focusing on the evolution of literary traditions, genres, cultural voices, and ecological landscapes within historical, philosophical, social, political, and aesthetic contexts. Special emphasis on the role of diverse writers in redefining the nature of American literature from the late nineteenth century through the 21st century, and thereby reshaping American national identity as the United States becomes a global superpower.

FHGE: American Cultures & Communities, Humanities Transferable: CSU/UC

Degree & Credit Status: Degree-applicable credit course Prerequisites: Eligibility for college-level composition (ENGL 1A or 1AH), as determined by college assessment or other appropriate method; Honors Institute participant.

Advisory: Successful completion of college-level composition (ENGL 1A, 1AH or 1S & 1T) or equivalent; not open to students with credit in ENGL 45B, 48B or 48C.

Grade Type: Letter Grade Only

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Introduces students to multicultural American Literature from the end of the Civil War in 1865 to the present, focusing on the evolution of literary traditions, genres, cultural voices, and ecological landscapes within historical, philosophical, social, political, and aesthetic contexts. Special emphasis on the role of diverse writers in redefining the nature of American literature from the late nineteenth century through the 21st century, and thereby reshaping American national identity as the United States becomes a global superpower. Specific to this honors course: A higher level of sophisticated scholarship through extensive research and literature review, critical essays, and opportunities for scholarly presentation, student-generated discussions, and self-directed projects. Rigorous application and analysis of theoretical paradigms as applied across these contexts in analysis of canonical literary texts.

FHGE: American Cultures & Communities, Humanities Transferable: CSU/UC

ENGL 47A WORLD LITERATURE I

5 Units

5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Eligibility for college-level composition (ENGL 1A or 1AH), as determined by college assessment or other appropriate method. Advisory: Successful completion of college-level composition (ENGL 1A, 1AH or 1S & 1T) or equivalent; not open to students with credit in ENGL 47AH.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

A comparative study of selected works, in translation and in English, of literature from around the world, including Europe, the Middle East, Africa, Asia, and other areas, from antiquity through the seventeenth century. A cross-cultural examination of global literatures within broader historical, cultural, political, and social frameworks, including the contexts of class, race and ethnicity, gender, religion, and aesthetics.

FHGE: Humanities Transferable: CSU/UC

ENGL 47AH HONORS WORLD LITERATURE I 5 Units Degree & Credit Status: Degree-applicable credit course

Prerequisites: Eligibility for college-level composition (ENGL 1A or 1AH), as determined by college assessment or other appropriate method; Honors Institute participant.

Advisory: Successful completion of college-level composition (ENGL 1A, 1AH or 1S & 1T) or equivalent; not open to students with credit in ENGL 47A.

Grade Type: Letter Grade Only Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

A comparative study of selected works, in translation and in English, of literature from around the world, including Europe, the Middle East, Africa, Asia, and other areas, from antiquity through the seventeenth century. A cross-cultural examination of global literatures within broader historical, cultural, political, and social frameworks, including the contexts of class, race and ethnicity, gender, religion, and aesthetics. The honors section provides a higher level of sophisticated scholarship through extensive research and literature review, critical essays, and opportunities for scholarly presentation, student-generated discussions, and self-directed projects. Rigorous application and analysis of theoretical paradigms as applied across these contexts in analysis of canonical works. **FHGE: Humanities**

Transferable: CSU/UC

ENGL 47B WORLD LITERATURE II

Degree & Credit Status: Degree-applicable credit course

5 Units

Prerequisite: Eligibility for college-level composition (ENGL 1A or 1AH), as determined by college assessment or other appropriate method. Advisory: Successful completion of college-level composition (ENGL 1A, 1AH or 1S & 1T) or equivalent; not open to students with credit in ENGL 47BH.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per guarter.)

A comparative study of selected works, in translation and in English, of literature from around the world, including Europe, the Middle East, Africa, Asia, and other areas, from the seventeenth century to the present. A cross-cultural examination of global literatures within broader historical, cultural, political, and social frameworks, including the contexts of class, race and ethnicity, gender, religion, and aesthetics. FHGE: Humanities Transferable: CSU/UC

ENGL 47BH	HONORS WORLD LITERATURE	5 Units
	II	

Degree & Credit Status: Degree-applicable credit course Prerequisites: Eligibility for college-level composition (ENGL 1A or 1AH), as determined by college assessment or other appropriate method; Honors Institute participant.

Advisory: Successful completion of college-level composition (ENGL 1A, 1AH or 1S & 1T) or equivalent; not open to students with credit in ENGL 47B.

Grade Type: Letter Grade Only

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

A comparative study of selected works, in translation and in English, of literature from around the world, including Europe, the Middle East, Africa, Asia, and other areas, from the seventeenth century to the present. A cross-cultural examination of global literatures within broader historical, cultural, political, and social frameworks, including the contexts of class, race and ethnicity, gender, religion, and aesthetics. The honors section provides a higher level of sophisticated scholarship through extensive research and literature review, critical essays, and opportunities for scholarly presentation, student-generated discussions, and self-directed projects. Rigorous application and analysis of theoretical paradigms as applied across these contexts in analysis of canonical literary texts. Transferable: CSU/UC FHGE: Humanities

ENGL 49	CALIFORNIA LITERATURE: GOLDEN STATE CULTURES,	4 Units
	GEOGRAPHIES &	
	HISTORIES	

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Introduction to literature written by and about Californians, from pre-contact California Indian creation myths to contemporary poetry, fiction, drama, essays, and autobiographical narratives. Emphasis on important literary contributions by authors from a range of ethnic, socio-economic, and regional communities representing the cultural complexity of California. Emphasis on the influence of ecology, geography, political and social developments, ethnicity, gender, and class on the formation of distinctive yet interconnected California cultures, as represented in literary works. **FHGE: Humanities** Transferable: CSU/UC

ENGL 50C TECHNICAL WRITING

Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in ENGL 3. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

An introductory course in technical and workplace communication. Focus on the strategic implementation of technical writing process, including assessment of context, purpose, and audience; evaluation and production of effective verbal and visual communication, including sentence clarity, document design, and use of visuals; and production of written texts for business and industry, including correspondence, technical definitions and descriptions, instructions, proposals and applications, reports, and websites. **FHGE: Communication & Analytical Thinking**

Transferable: CSU

ENGL 70R	INDEPENDENT STUDY IN ENGLISH	1 Unit
ENGL 71R		2 Units
ENGL 72R		3 Units
ENGL 73R		4 Units
Degree & Credit	t Status: Degree-applicable credit course	

Grade Type: Letter Grade Only

Not Repeatable.

3-12 hours laboratory per week. (36-144 hours total per quarter.)

Provides an opportunity for the student to expand their studies in English beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department. FHGE: Non-GE Applicable Transferable: CSU

ENGL 80

INTRODUCTION TO TRAVEL WRITING

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple

measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

An introductory course in travel writing. Focus on recognizing, evaluating, and producing the characteristics of travel writing in a range of travel writing genres. Practice in skills of observation, research, and reflection to understand aspects of place and draw meaning from travel experiences. Recognition and evaluation of publishing options.

FHGE: Non-GE Applicable Transferable: CSU

ENGL 110 INTRODUCTION TO COLLEGE WRITING

Degree & Credit Status: Degree-applicable credit course Prerequisite: Eligibility based on assessment or successful completion of ENGL 209.

Advisory: Not open to students with credit in ENGL 108. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Intended for students requiring explicit instruction and practice in writing expository essays, emphasizing clear sentence structure and logical development. Assignments include summary and synthesis of texts, critical analysis, as well as personal writing. Instruction includes rules of and practice on punctuation skills. Lecture, discussion, collaborative, and individualized instruction.

FHGE: Non-GE Applicable

Transferable: None

ENGL 209

5 Units

4 Units

5 Units

INTRODUCTION TO COLLEGE READING

Degree & Credit Status: Non-degree-applicable basic skills-2 course Advisory: Not open to students with credit in ENGL 100 or 108. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Techniques of critical analysis for reading-college level prose, focusing primarily on expository/argumentative essays and textbook materials. Students learn to comprehend text holistically, identifying and expressing critical elements of comprehension. Practice and testing to be done on authentic text of one or more page length and with written responses. Lecture, discussion, group work, and individualized instruction. FHGE: Non-GE Applicable Transferable: None

ENGL 242A CRITICAL THINKING: 1 Unit STUDENT-MANAGED PORTFOLIO DEVELOPMENT 1

Degree & Credit Status: Non-degree-applicable basic skills course Corequisite: ENGL 1S.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

A survey of basic theory, design, and implementation strategies for the student-managed formative portfolio. Students write a total of at least 750 words, with emphasis on the reflective and evaluative processes necessary for portfolio development. Practice in managing and maintaining the information and artifacts of a portfolio as a comprehensive analysis of the student learning experience. Use of portfolio development to increase meta-cognitive awareness of the integration between reading and writing processes; of the student's location within discourse communities, including the campus community; and of the behaviors necessary for college success. FHGE: Non-GE Applicable Transferable: None

ENGL 242B CRITICAL THINKING: 1 Unit PORTFOLIO MANAGEMENT & PUBLICATION

Degree & Credit Status: Non-degree-applicable basic skills course Prerequisite: ENGL 242A. Corequisite: ENGL 1T.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Application of basic theory, design, and implementation strategies for the student-managed summative portfolio. Students write a total of at least 750 words, with emphasis on the reflective and evaluative processes necessary for portfolio development. Management and publication of the artifacts of a summative portfolio as a comprehensive demonstration of the student learning experience across the curriculum. Use of portfolio publication to demonstrate meta-cognitive awareness of the integration between reading and writing processes; of the student's location within discourse communities, including the campus community; and of the behaviors necessary for college success. Students will demonstrate ability to transfer knowledge and learning across disciplines.

FHGE: Non-GE Applicable Transferable: None

ENGL 246A COMPOSITION & READING 2 Units SUPPLEMENTAL INSTRUCTION

Degree & Credit Status: Non-degree-applicable basic skills course Corequisite: ENGL 1A.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Incorporates and contextualizes reading and writing strategies aligned with ENGL 1A coursework. Students receive additional support for success in ENGL 1A by practicing and reinforcing critical reading, thinking, and writing skills to engage further in the processes of expository and argumentative writing.

FHGE: Non-GE Applicable

Transferable: None

ENGLISH FOR SECOND-LANGUAGE LEARNERS

Language Arts

650.949.7250 foothill.edu/esl/

ESLL 125 COMPOSITION & READING

Degree & Credit Status: Degree-applicable credit course Prerequisite: Appropriate placement test score or a grade of "C" or better in ESLL 236 and 237.

Advisory: Concurrent enrollment in ESLL 249; if not taken concurrently, ESLL 249 should be taken prior to ESLL 125; completion of or concurrent enrollment in ESLL 235 strongly recommended; designed for students whose native language is not English; not open to students with credit in ESL 25, 257, or ESLL 25.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Explicit instruction in critical reading and composition skills. Detailed analysis of selected readings that present a range of cultural experiences and perspectives. Instruction in writing expository essays based on personal experience, observations, and class readings with a review of acceptable English sentence structure. Does not fulfill the associate degree requirement for English composition.

COMPOSITION & READING

FHGE: Non-GE Applicable Transferable: None

INSTRUCTIONAL SUPPORT FOR ENGLISH LANGUAGE LEARNERS

Degree & Credit Status: Non-degree-applicable basic skills course Corequisite: ENGL 1A.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

ESLL 201A

2 hours lecture. (24 hours total per quarter.)

Designed to assist second language learners in developing the reading and writing skills and strategies required for success in ENGL 1A. Reinforcement of reading skills and strategies as they pertain to comprehension of content and critical analysis of rhetorical elements. Development of critical thinking skills and strategies related to the process of expository and argumentative writing. Application of essay revision and editing skills to include appropriate content, coherence, sentence efficiency and variety, and grammatical accuracy.

FHGE: Non-GE Applicable

Transferable: None

ESLL 226 HIGH-INTERMEDIATE GRAMMAR 5 Units

Degree & Credit Status: Non-degree-applicable basic skills-3 course Advisory: Concurrent enrollment in ESLL 227 recommended; designed for students whose native language is not English; not open to students with credit in ESL 156.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

A high-intermediate English course focusing on verb tenses, gerunds, infinitives, modal verbs in present, past, real present and future conditionals. FHGE: Non-GE Applicable Transferable: None

ESLL 227 HIGH-INTERMEDIATE READING 5 Units SKILLS

Degree & Credit Status: Non-degree-applicable basic skills-3 course Advisory: Appropriate placement test score and concurrent enrollment in ESLL 226 recommended; intended for students whose native language is not English; not open to students with credit in ESL 157. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 Units

2 Units

5 hours lecture. (60 hours total per guarter.)

An upper intermediate-level reading course focusing on developing comprehension skills and strategies for processing pre-college-level readings. In addition to developing vocabulary, students will demonstrate understanding of main ideas of texts by composing single- and multi-sentence writings in response to questions about the given texts.

FHGE: Non-GE Applicable Transferable: None

ESLL 228 DEVELOPING LANGUAGE 10 Units SKILLS FOR ESL STUDENTS

Degree & Credit Status: Non-degree-applicable basic skills-4 course Prerequisite: TOEFL score of 475 to 499 or appropriate placement test score.

Advisory: Designed for students whose native language is not English; not open to students with credit in ESL 158.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

ESLL 235

10 hours lecture. (120 hours total per quarter.)

An adaptive level course for intermediate-to-advanced students who use English as a second language. Designed to improve grammar, writing, reading, and speaking skills in order to handle the challenges of using English in college academic programs.

FHGE: Non-GE Applicable Transferable: None

LISTENING/SPEAKING FOR ACADEMIC PURPOSES

Degree & Credit Status: Non-degree-applicable basic skills-2 course Prerequisite: Appropriate placement test score.

Advisory: Successful completion of ESLL 226 and 227 strongly recommended; intended for students whose native language is not English; not open to students with credit in ESL 165.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

A listening/speaking course focusing on preparing students for listening to authentic lectures and participating in classroom discussions and presentations.

FHGE: Non-GE Applicable

Transferable: None

5 Units

5 Units

ESLL 236 ADVANCED GRAMMAR 5 Degree & Credit Status: Non-degree-applicable basic skills-2 course

Prerequisite: Appropriate placement test score or ESLL 226 and 227. Advisory: Concurrent enrollment in ESLL 237 recommended; intended for students whose native language is not English; not open to students with credit in ESL 166.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Continuation of ESLL 226. An advanced English grammar course focusing on clause and phrase structures.

FHGE: Non-GE Applicable

Transferable: None

ESLL 237 BASIC COMPOSITION SKILLS 5 Units

Degree & Credit Status: Non-degree-applicable basic skills-2 course Prerequisite: Appropriate placement test score or a grade of "C" or better in ESLL 226 and 227.

Advisory: Concurrent enrollment in ESLL 236; designed for students whose native language is not English; not open to students with credit in ESL 167. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per guarter.)

A basic course for non-native speakers focusing on college-level reading and writing skills. Development of readings skills through analysis of assigned readings. Production of short multi-paragraph compositions that develop focused main ideas using a variety of standard English sentences. Lecture, discussion, and individualized instruction. Does not meet the graduation requirement in composition.

FHGE: Non-GE Applicable

Transferable: None

ESLL 246 APPLIED GRAMMAR & 3 Units EDITING SKILLS

Degree & Credit Status: Non-degree-applicable basic skills course Prerequisite: ESLL 236 or an appropriate score on the ESL placement test. Corequisite: Concurrent enrollment in ESLL 125, ENGL 1A, 1AH, 1B, 1BH, or 110.

Advisory: Not open to students with credit in ESL 176. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Identify and edit for patterns of grammatical errors in original writing. Develop individual error profile. Address pertinent grammar issues through review of grammatical rules, various grammar exercises, and editing of sample papers and original work.

FHGE: Non-GE Applicable

Transferable: None

Transferable: None

Transferable: None

ESLL 248 ADVANCED GRAMMAR REVIEW 3 Units Degree & Credit Status: Non-degree-applicable basic skills course

Prerequisite: ESLL 236 or an appropriate score on the ESL placement test. Advisory: Not open to students with credit in ESL 186. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture. (36 hours total per guarter.)

A review of essential grammar and greater in-depth examination of grammatical and lexical structures used in academic and professional writing designed for nonnative speakers of English. This course is delivered entirely online

FHGE: Non-GE Applicable

ESLL 249 ADVANCED READING

Degree & Credit Status: Non-degree-applicable credit course Prerequisites: ESLL 236 and 237 or appropriate placement test score. Advisory: Concurrent enrollment in ESLL 125; if not taken concurrently, ESLL 249 should be taken prior to ESLL 125; designed for students whose native language is not English.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

An advanced-level ESLL reading course in techniques of critical analysis for reading college-level prose, focusing primarily on authentic expository/ argumentative essays and textbook materials written for a native speaker audience. Practice in holistic and close reading of texts to identify and comprehend textual detail and application of critical rhetorical elements. Explicit instruction in the process of writing and revising summaries on assigned texts. Lecture, discussion, and group work.

FHGE: Non-GE Applicable

ENVIRONMENTAL HORTICULTURE & DESIGN

Biological and Health Sciences 650.949.7249 foothill.edu/hort/

HORT 10 **ENVIRONMENTAL** 3 Units **HORTICULTURE & THE** URBAN LANDSCAPE

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

Not Repeatable.

HORT 15

3 hours lecture. (36 hours total per quarter.)

Environmental horticulture encompasses the planning, design, construction, and management of the urban landscape. Relevant topics include ecosystem restoration and management, landscape ecology, sustainable landscape management, sustainable use of natural resources, urban horticulture, and urban landscape design. This course is intended for students in the Environmental Horticulture & Design program but members of the public and professional community are invited to enroll.

FHGE: Non-GE Applicable Transferable: CSU; UC Pending

> **ORIENTATION TO ENVIRONMENTAL** HORTICULTURE

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in HORT 50A. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3.5 hours lecture, 1.5 hours laboratory. (60 hours total per quarter.) Survey of the many facets and component sciences of environmental horticulture. Exploration of the multitude of career options available in the green industry. An introduction to the vocabulary of the environmental sciences including the terminology used in the identification of plants. Foundations of plant science such as plant structure, plant growth, and the environmental needs of plants. Transferable: CSU/UC

FHGE: Non-GE Applicable

HORT 21

5 Units

PLANT MATERIALS I

3 Units

4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Completion of or concurrent enrollment in HORT 15 strongly recommended; not open to students with credit in HORT 51A. Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Identification, taxonomy, habits of growth, cultural and environmental requirements of plants grown in California. Emphasis on the identification, use and maintenance of plants commonly used in the landscaping and gardening industry. Plants are observed on campus and at off-site locations. This is the first of two plants courses covering the master plant list. Transferable: CSU/UC FHGE: Non-GE Applicable

HORT 22

PLANT MATERIALS II

3 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Completion of or concurrent enrollment in HORT 15 strongly recommended; not open to students with credit in HORT 51B. Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Identification, taxonomy, habits of growth, cultural and environmental requirements of plants grown in California. Emphasis on the identification, use and maintenance of plants commonly used in the landscaping and gardening industry. Plants are observed on campus and at off-site locations. This is the second of two plant courses covering the master plant list.

FHGE: Non-GE Applicable Transferable: CSU/UC Degree & Credit Status: Degree-applicable credit course Advisory: Completion of or concurrent enrollment in HORT 15 strongly recommended; not open to students with credit in HORT 51D. Grade Type: Letter Grade Only

Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Identification, taxonomy, habits of growth, cultural and environmental requirements of plants native to California landscapes. Emphasis on a wide variety of native species including trees, shrubs, ground covers, and herbaceous plants. Plants are observed via media and physical observation. FHGE: Non-GE Applicable Transferable: CSU/UC

HORT 24 PLANT MATERIALS: GROUND 2 Units **COVERS & VINES**

Degree & Credit Status: Degree-applicable credit course Advisory: Completion of or concurrent enrollment in HORT 15 strongly recommended; not open to students with credit in HORT 51E. Grade Type: Letter Grade Only

Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Identification, taxonomy, habits of growth, cultural and environmental requirements of woody and herbaceous ground covers and vines grown in California. Emphasis on the use and maintenance of evergreen and deciduous plants used as ground covers, vines, or espaliers in ornamental landscapes. Plants are observed in class, on campus, and at off-site locations. FHGE: Non-GE Applicable Transferable: CSU/UC

PLANT MATERIALS: BAMBOOS 2 Units HORT 25 & PALMS

Degree & Credit Status: Degree-applicable credit course Advisory: Completion of or concurrent enrollment in HORT 15 strongly recommended; not open to students with credit in HORT 51F. Grade Type: Letter Grade Only

Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Identification, taxonomy, habits of growth, cultural and environmental requirements of bamboos and palms grown in California. Emphasis on the use and maintenance of these two categories of monocots, each with markedly different forms. Plants are observed via media and physical observation. FHGE: Non-GE Applicable Transferable: CSU/UC

2 Units HORT 26 PLANT MATERIALS: **PERENNIALS & ANNUALS**

Degree & Credit Status: Degree-applicable credit course Advisory: Completion of or concurrent enrollment in HORT 15 strongly recommended; not open to students with credit in HORT 51H. Grade Type: Letter Grade Only

Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Identification, taxonomy, habits of growth, cultural and environmental requirements of herbaceous plants grown in California. Emphasis on the use and maintenance of significant perennial and annual species with significant features such as flower and foliage displays. Plants are observed via media and physical observation.

FHGE: Non-GE Applicable

Transferable: CSU/UC

2 Units

HORTICULTURAL PRACTICES: SOILS

Degree & Credit Status: Degree-applicable credit course Advisory: Completion of or concurrent enrollment in HORT 15 recommended; not open to students with credit in HORT 52A. Grade Type: Letter Grade Only

Not Repeatable.

2 hours lecture, 3 hours laboratory. (60 hours total per quarter.)

Fundamentals of soil science, including examination of soil formation, physical and chemical properties of soil, relationships between soil, water and plants, and biological factors of soil. Examination of soil samples and interpretation of soil reports and surveys. Basics of plant fertility requirements and soil related topics, such as composting, environmental issues, and soils in construction.

FHGE: Non-GE Applicable

Transferable: CSU/UC

HORTICULTURAL PRACTICES: **HORT 31** 3 Units PLANT PROPAGATION

Degree & Credit Status: Degree-applicable credit course Advisory: Completion of or concurrent enrollment in HORT 15 strongly recommended.

Grade Type: Letter Grade Only

Not Repeatable.

2 hours lecture, 3 hours laboratory. (60 hours total per quarter.)

Principles of plant propagation with an emphasis on techniques that are used in the nursery and greenhouse industries. Seeds, cuttings, grafting techniques, and the separation and division of specialized structures. Transferable: CSU/UC FHGE: Non-GE Applicable

HORT 40 LANDSCAPE DESIGN: GRAPHIC 4 Units COMMUNICATION

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in HORT 60A. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

An introductory survey of the basic principles of design communication, landscape graphics, and design process. Graphic mediums and tools, graphic vocabulary, graphic skills, reprographic techniques, plan reading, and presentation skill development. The application of lines, symbols, and lettering to create typical landscape drawings. FHGE: Non-GE Applicable

Transferable: CSU/UC

VECTORWORKS FOR LANDSCAPE HORT 45 3 Units DESIGNERS

Degree & Credit Status: Degree-applicable credit course

Advisory: HORT 40 and a basic understanding of the operation of computers is recommended; not open to students with credit in HORT 60E. Grade Type: Letter Grade Only

Not Repeatable.

2 hours lecture, 3 hours laboratory. (60 hours total per quarter.)

Introduction to Vectorworks 2D software for computer aided design and drafting (CADD), specifically for landscape related applications. Focus on development of basic command skills, including 2-D drawing, editing, creation of layers, plant placement tool, and exporting to other programs and as a PDF for printing. 3-D CADD drawing is covered in a different course. Vectorworks software is utilized in this course.

Transferable: CSU/UC FHGE: Non-GE Applicable

HORT 52C HORTICULTURE PRACTICES: **PLANT INSTALLATION &** MAINTENANCE

Degree & Credit Status: Degree-applicable credit course

Advisory: Completion of or concurrent enrollment in HORT 15 strongly recommended.

Grade Type: Letter Grade Only Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Horticultural principles and practices for management of plants and gardens. Proper selection and maintenance of trees, shrubs, and ground covers. Fine gardening techniques used by landscape gardeners. Transplanting and planting containerized and boxed plant material. Preparation of planting areas and post-planting care of landscape plants. Techniques for pruning of various species. Operation of equipment and tools used in gardening. Managing pests in the landscape. Troubleshooting irrigation equipment. Surveying requirements for landscape maintenance business. **Transferable: CSU**

FHGE: Non-GE Applicable

HORT 52E

HORTICULTURAL PRACTICES: 3 Units **GREENHOUSE & NURSERY** MANAGEMENT

Degree & Credit Status: Degree-applicable credit course Advisory: Completion of or concurrent enrollment in HORT 15. Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture, 3 hours laboratory. (60 hours total per quarter.)

Commercial greenhouse and nursery management as related to the production of plants in California. Emphasis is on greenhouse and nursery operations. Class will focus on organization, management, and production practices used in large and small-scale commercial greenhouse plant production and nursery operations of all sizes. Retail outlets will be addressed as part of the nursery production sequence. Operations and the utilization of technology will be emphasized through use of on-campus facilities and observation of off-site operations.

FHGE: Non-GE Applicable

Transferable: CSU

HORTICULTURAL PRACTICES: 3 Units HORT 52G TURFGRASS MANAGEMENT

Degree & Credit Status: Degree-applicable credit course

Advisory: Completion of or concurrent enrollment in HORT 15 strongly recommended.

Grade Type: Letter Grade Only

Not Repeatable.

2 hours lecture, 3 hours laboratory. (60 hours total per quarter.)

Turf identification and planting techniques. Turf maintenance and management practices for golf courses, athletic fields, parks, and areas surrounding commercial buildings and private residences. Examination of soils, irrigation, weeds, diseases and pests as they pertain to turfgrass. FHGE: Non-GE Applicable **Transferable: CSU**

HORTICULTURE PRACTICES: 3 Units HORT 52H INTEGRATED PEST MANAGEMENT

Degree & Credit Status: Degree-applicable credit course Advisory: Completion of or concurrent enrollment in HORT 15 strongly recommended.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture, 3 hours laboratory. (60 hours total per quarter.)

Problems of and control solutions for diseases, insects, and weeds in landscapes and gardens. Ecologically based Integrated Pest Management (IPM) practices for handling plant pathogens, insect infestations, and unwanted vegetation. Emphasis on identification, life cycles, and symptoms of diseases, insects, and weeds.

FHGE: Non-GE Applicable

Transferable: CSU

HORT 52M **URBAN FORESTRY**

4 Units

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture, 3 hours laboratory. (60 hours total per quarter.)

This course will explore the impact, use and maintenance of plant material used in the urban environment. Emphasis will be on proper selection of plants for urban situations, proper installation of urban plants and maintenance of plants. Pruning and maintenance of trees and other large plants will be included. FHGE: Non-GE Applicable **Transferable: CSU**

LANDSCAPE CONSTRUCTION: HORT 54A **GENERAL PRACTICES**

5 Units

3 Units

3 Units

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.) General practices of construction as applied to landscape projects. Basic tools and equipment, building materials and hardware, and installation techniques utilized in landscape construction. Focus is on hardscape applications, including paving, walls, masonry, decks, and related wood structures. Basics of installation of water features, landscape lighting and plant material. Overview of cost estimating. Review of safety practices, careers in landscape construction, and contractor licensing. FHGE: Non-GE Applicable

Transferable: CSU

LANDSCAPE CONSTRUCTION: HORT 54B **TECHNICAL PRACTICES** Degree & Credit Status: Degree-applicable credit course

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2.5 hours lecture, 1.5 hours laboratory. (48 hours total per quarter.)

Technical aspects of landscape construction projects. Landscape surveying & grading techniques, surface & subsurface hydraulics, landscape drainage systems, erosion control & soil conservation, fences & gates, and building codes. Estimating landscape materials, construction costs, and preparation of project bids and contracts.

FHGE: Non-GE Applicable

HORT 54C

Transferable: CSU

LANDSCAPE CONSTRUCTION:

IRRIGATION PRACTICES

Degree & Credit Status: Degree-applicable credit course

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2.5 hours lecture, 1.5 hours laboratory. (48 hours total per quarter.)

Methods and materials used in the irrigation of ornamental landscapes. Selection of materials and operational theory of irrigation equipment. Installation techniques for sprinkler and drip irrigation systems. Water conservation features and maintenance of irrigation systems.

FHGE: Non-GE Applicable **Transferable: CSU**

LANDSCAPE CONSTRUCTION: HORT 54D 2 Units **APPLIED PRACTICES**

Degree & Credit Status: Degree-applicable credit course Advisory: HORT 54A strongly recommended. Grade Type: Letter Grade Only Not Repeatable.

1 hour lecture, 3 hours laboratory. (48 hours total per quarter.)

The practical application of landscape construction practices to actual projects. Emphasis on field work which may include the design and construction of landscape amenities, carpentry, paving, or wall projects. Training on motorized equipment, such as tractors and backhoes used in landscape construction.

FHGE: Non-GE Applicable Transferable: CSU

HORT 54J HORTICULTURAL PRACTICES: INSECT IDENTIFICATION & DISORDERS

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Identification, morphology, physiology and management of common agricultural and horticultural insects. Review of the disorders caused by plant insects. Review of the impacts of common insects on the plant production and landscape industries and their identification throughout the life cycle of the insect.

FHGE: Non-GE Applicable Transferable: CSU

HORTICULTURAL PRACTICES: HORT 54K 3 Units WEED IDENTIFICATION & ECOLOGY

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Identification, morphology, physiology and management of common agricultural and horticultural weedy plants. Review of the impacts of common weeds on the plant production and landscape industries and their identification throughout the life cycle of the plant. Review of the role of weeds in the landscape. **...** 6 I.I. 6611

FHGE: Non-GE Applicable		Transferable: CSU	
HORT 54L		URAL PRACTICES:	3 Units

DISEASE IDENTIFICATION & PATHOLOGY

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Identification, morphology, physiology and management of common agricultural and horticultural diseases. Study of the common diseases found in plants. Review of the impacts of common diseases on the plant production and landscape industries and their identification throughout the life cycle of the disease.

FHGE: Non-GE Applicable

Transferable: CSU

3 Units

3 Units

GREEN INDUSTRY HORT 55A PRACTICES

MANAGEMENT: BUSINESS

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Introductory survey of green industry management and business practices. Geared to people in such fields as landscape construction, nursery management, and landscape design, this course focuses on helping individuals successfully organize, manage, and/or market their agency or small business. The class utilizes both a theoretical and hands-on approach to the application of common business principles.

FHGE: Non-GE Applicable

HORT 60B

Degree & Credit Status: Degree-applicable credit course

2 hours lecture, 3 hours laboratory. (60 hours total per quarter.)

Principles of landscape design theory. Intermediate studies in and applications of graphic communication, creative problem solving, design theory, and presentation skills. Residential site analysis and landscape design case

studies.

HORT 60C

3 Units

LANDSCAPE DESIGN: IRRIGATION

Degree & Credit Status: Degree-applicable credit course Advisory: HORT 54C strongly recommended.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2.5 hours lecture, 1.5 hours laboratory. (48 hours total per quarter.)

Principles of irrigation design for ornamental landscapes. Includes history of irrigation, advanced site analysis, irrigation design theory, equipment selection and layout, controller scheduling, long-term maintenance, and water conservation issues. Process of producing irrigation plans, details, and specifications.

FHGE: Non-GE Applicable Transferable: CSU

HORT 60D LANDSCAPE DESIGN: 3 Units PLANTING

Degree & Credit Status: Degree-applicable credit course Advisory: HORT 40 and 60B or equivalent; HORT 21, 22 and 26 strongly recommended.

Grade Type: Letter Grade Only

Not Repeatable.

2 hours lecture, 3 hours laboratory. (60 hours total per quarter.)

The use of ornamental and native plant materials to express basic design principles in the landscape. Planting design theory as it applies to the aesthetic, cultural, ecological, and functional use of plant materials in the landscape. Graphics used for presenting planting designs. Special focus on the use of plants in garden designs.

FHGE: Non-GE Applicable Transferable: CSU

LANDSCAPE DESIGN: PROCESS 3 Units HORT 60F Degree & Credit Status: Degree-applicable credit course Advisory: HORT 40 and 60B.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2 hours lecture, 3 hours laboratory. (60 hours total per quarter.)

Principles of landscape design process. Application of residential site analysis, program development, and landscape design theory to one or more residential scale projects. Project planning and budgeting. Landscape designer, client, and green industry professional interactions. FHGE: Non-GE Applicable **Transferable: CSU**

HORT 60G LANDSCAPE DESIGN: 3 Units INTERMEDIATE COMPUTER **APPLICATIONS**

Degree & Credit Status: Degree-applicable credit course Advisory: HORT 40 and 45 strongly recommended; CADD experience or training and knowledge of computer operation strongly recommended. Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture, 3 hours laboratory. (60 hours total per quarter.)

Advanced use of Vectorworks as a landscape design and drafting tool. Topics covered include structuring of drawings using layers, improving drawing skills using tool commands and shortcuts, importing and rescaling PDFs for basemaps, importing images, creating viewports and sheet layers. Also covered will be customizing tool bars, expanding plant database, and importing/exporting/printing drawings. Introduction to three-dimensional drawing using Vectorworks and related programs.

FHGE: Non-GE Applicable **Transferable: CSU**

FOOTHILL COLLEGE

Grade Type: Letter Grade Only Not Repeatable. 1 hour lecture, 3 hours laboratory. (48 hours total per quarter.) Course provides skills development and internship opportunities in environmental horticulture for the Winter season. This is an extension of classroom instruction, covering topics such as woody tree and shrub pruning, drainage practices, winter plant protection, and rainwater harvesting. This course offers students learning opportunities through a combination of on-site practical field experience, independent research, student internship, community service and industry related educational opportunities in the green industry. FHGE: Non-GE Applicable **Transferable: CSU** 🛑 FOOTHILL COLLEGE

FHGE: Non-GE Applicable **Transferable: CSU** HORT 80B **ENVIRONMENTAL** 2 Units HORTICULTURE WINTER SKILLS Degree & Credit Status: Degree-applicable credit course

This course offers students learning opportunities through a combination of on-site practical field experience, independent research, student internship, community service and industry related educational opportunities in the green industry.

covering topics such as mulching, irrigation winterization, late season landscape construction practices, and protection for frost sensitive plantings.

Advisory: Not open to students with credit in HORT 80. Grade Type: Letter Grade Only Not Repeatable. 1 hour lecture, 3 hours laboratory. (48 hours total per quarter.) Course provides skills development opportunities in environmental horticulture for the Fall season. This is an extension of classroom instruction,

editing and presentation of 3-D landscape drawings. **Transferable: CSU** FHGE: Non-GE Applicable HORT 80A **ENVIRONMENTAL** 2 Units HORTICULTURE FALL SKILLS Degree & Credit Status: Degree-applicable credit course

Not Repeatable.

FHGE: Non-GE Applicable **Transferable: CSU** HORT 601 **VECTORWORKS 3-D** 3 Units Degree & Credit Status: Degree-applicable credit course Advisory: HORT 45. Grade Type: Letter Grade Only

SKETCHUP FOR LANDSCAPE

rendering for the landscape designer. Emphasizing the basics of drawing setup, creation and editing, this course will show the designers how to turn their 2-D drawings into a presentation drawing that illustrates their ideas in photo-like rendering techniques. Importing and use of the three-dimensional tools available in Sketchup Make and Sketchup Pro will be included. Intended for students seeking a landscape design career or professionals upgrading their skills.

2.5 hours lecture, 1.5 hours laboratory. (48 hours total per quarter.)

An overview and application of Google Sketchup to three-dimensional

DESIGNERS

Degree & Credit Status: Degree-applicable credit course

HORT 60J

Advisory: HORT 40.

Not Repeatable.

Grade Type: Letter Grade Only

2 hours lecture, 3 hours laboratory. (60 hours total per quarter.) Overview of three-dimensional drawing with Vectorworks related to landscape applications. Topics will include importing and constructing topography, drawing 3-D structures, inserting 3-D plants and amenities. Rendering,

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

Not Repeatable.

HORT 80D

1 hour lecture, 3 hours laboratory. (48 hours total per quarter.)

SKILLS

Course provides skills development opportunities in environmental horticulture for the Summer season. This is an extension of classroom instruction, covering topics such as irrigation system installation and maintenance, fruit tree pruning, Integrated Pest Management, landscape construction, summer landscape maintenance and water conservation practices. The course offers students learning opportunities through a combination of on-site practical field experience, independent research, student internship, community service and industry related educational opportunities in the green industry.

FHGE: Non-GE Applicable

Transferable: CSU

HORT 80E

LANDSCAPE CERTIFICATION: COMMON CORE

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

General subjects related to certification with the California Landscape Contractors Association. Includes horticultural math, plant identification, workplace safety, plant reading, plant sensitivity, grading and sodding, irrigation identification, controller programming, lateral repair and head adjustments and truck and trailer operation. This course is intended for students seeking Certified Landscape Technician certification.

Transferable: CSU FHGE: Non-GE Applicable

HORT 80F LANDSCAPE CERTIFICATION: 1 Unit SOFTSCAPE INSTALLATION

Degree & Credit Status: Degree-applicable credit course Advisory: Completion of or concurrent registration in HORT 80E recom-

mended. Grade Type: Letter Grade Only

Not Repeatable.

239

1 hour lecture. (12 hours total per quarter.)

General subjects related to certification with the California Landscape Contractors Association. Topics to include plan reading, plant layout, horticultural principles, irrigation components, controller programming, lateral repair and head adjustment, plant installation, post-planting care, sod installation, plant identification and rototiller operation. This course is intended for students seeking Certified Landscape Technician certification. FHGE: Non-GE Applicable Transferable: CSU

2 Units

2 Units

3 Units HORT 80C

> Grade Type: Letter Grade Only Not Repeatable.

1 hour lecture, 3 hours laboratory. (48 hours total per quarter.)

Degree & Credit Status: Degree-applicable credit course

ENVIRONMENTAL

SKILLS

HORTICULTURE SPRING

Course provides skills development opportunities in environmental horticulture for the Spring season. This is an extension of classroom instruction, covering topics such as the initiation of landscape construction projects, pests and diseases, vegetable crops, composting, and water management. This course offers students learning opportunities through a combination of on-site practical field experience, independent research, student internship, community service and industry related educational opportunities in the green industry.

FHGE: Non-GE Applicable **Transferable: CSU**

ENVIRONMENTAL

HORTICULTURE SUMMER

HORT 80G LANDSCAPE CERTIFICATION: HARDSCAPE INSTALLATION

Degree & Credit Status: Degree-applicable credit course

Advisory: Completion of or concurrent enrollment in HORT 80E strongly advised.

Grade Type: Letter Grade Only

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

General subjects related to certification with the California Landscape Contractors Association. Topics include plan reading, hardscape math calculations, instrument operation, grading and drainage, equipment operation, and paver installation. This course is intended for students seeking Certified Landscape Technician certification.

FHGE: Non-GE Applicable

Transferable: CSU

LANDSCAPE CERTIFICATION: **HORT 80I** 2 Units **IRRIGATION INSTALLATION**

Degree & Credit Status: Degree-applicable credit course Advisory: Completion of or concurrent enrollment in HORT 80E strongly advised.

Grade Type: Letter Grade Only

Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

General subjects related to certification with the California Landscape Contractors Association. Topics include irrigation plan reading, advanced irrigation components, basic horticultural principles, lateral repair and head adjustment, advanced program controller, lateral installation, mainline installation, valve repair, valve wiring and pipe installation equipment. This course is intended for students seeking Certified Landscape Technician certification.

FHGE: Non-GE Applicable **Transferable: CSU**

LANDSCAPE CERTIFICATION: HORT 80J 1 Unit **TURF MANAGEMENT**

Degree & Credit Status: Degree-applicable credit course

Advisory: Completion of or concurrent enrollment in HORT 80E strongly advised.

Grade Type: Letter Grade Only Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

General subjects related to certification with the California Landscape Contractors Association. Topics include irrigation principles, irrigation components, turfgrass principles, performing turfgrass calculations, basic controller programming, lateral repair and head adjustment, safe operation of power blower, 21" mower, intermediate walk-behind mower, riding mower, edger and trimmer, aerator, and understanding of turf fertilizer. This course is intended for students seeking Certified Landscape Technician certification.

FHGE: Non-GE Applicable

Transferable: CSU

HORT 80K

LANDSCAPE CERTIFICATION: **ORNAMENTAL MAINTENANCE**

Degree & Credit Status: Degree-applicable credit course

Advisory: Completion of or concurrent enrollment in HORT 80E strongly advised.

Grade Type: Letter Grade Only

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

General subjects related to certification with the California Landscape Contractors Association. Topics include ornamental horticulture maintenance principles, irrigation principles, irrigation components, maintenance calculations, plant identification review, controller programming, lateral repair and head adjustment, tree planting and staking, pruning, safe operation of landscape maintenance equipment. This course is intended for students seeking Certified Landscape Technician certification.

FHGE: Non-GE Applicable

Transferable: CSU

HORT 90A

1 Unit

CONTAINER PLANTINGS IN THE LANDSCAPE

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

12 hours lecture total per quarter.

Utilization of container plantings in both interior environments and exterior landscapes. Design theory, selection of containers, plant selection, and planting methods. Soil preparation and irrigation techniques. FHGE: Non-GE Applicable **Transferable: CSU**

HORT 90C **GARDEN PONDS & WATER** 1 Unit FFATURES

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

12 hours lecture total per quarter.

Introduction to the aesthetics of garden water features and the techniques used in their design, construction, and maintenance. Use of fish, plants, and other natural systems in garden ponds and pools.

FHGE: Non-GE Applicable **Transferable: CSU**

HORT 90D

HERBS: IDENTIFICATION, **USE & FOLKLORE**

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

12 hours lecture total per quarter.

An introductory look at the use and folklore of herbs grown for specific cultural purposes. Herbs noted for their culinary, aromatic, or medicinal properties.

FHGE: Non-GE Applicable **Transferable: CSU**

HORT 90E **HORTICULTURAL &** 1 Unit LANDSCAPE PHOTOGRAPHY

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

12 hours lecture total per quarter.

Introduction to basic photographic equipment and techniques utilized in photographing landscapes and horticulturally related elements. Emphasis on assisting green industry professionals in photographing ornamental plants, landscape construction or business-related projects, and landscape designs.

FHGE: Non-GE Applicable Transferable: CSU

HORT 90F LANDSCAPE DESIGN: BASIC 1 Unit PRINCIPLES

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

Not Repeatable.

1 Unit

12 hours lecture total per quarter.

An overview of the basic principles of landscape design. Presents basic graphic communication concepts. Also explores the concept of master planning residential landscapes, and designing with plant material and related landscape elements. FHGE: Non-GE Applicable

Transferable: CSU

HORT 90G LANDSCAPE DESIGN FORUM

1 Unit

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

12 hours lecture total per quarter.

Design topics for residential landscapes. Covers current concepts and trends in the landscape design industry through topical presentations, guest speakers, and discussion groups. Explores methods for evaluating successful landscape designs and their implementation.

FHGE: Non-GE Applicable **Transferable: CSU** 1 Unit

HORT 90H	LANDSCAF	PE LIGHTING	1 Unit	HORT 90P	PRUNING: I	BASIC SKILLS
Degree & Credit	Status: Degree-a	pplicable credit course		Degree & Credit	Status: Degree-ap	pplicable credit course
Grade Type: Lett	er Grade or Pass/	No Pass		Grade Type: Lett	er Grade or Pass/I	No Pass
Not Repeatable.				Not Repeatable.		
12 hours lecture	total per quarter.			12 hours lecture	total per quarter.	
Basic theory, des	ign, and installati	on techniques for lighting resi	dential	Methods of prun	ing deciduous and	evergreen plant materials. E
landscapes. The e	effective use of co	onventional and low-voltage lig	ghting for	pruning commor	n landscape plants,	fruit trees, and roses. Select
improving landsc	ape aesthetics ar	d the functional use of outdoo	or spaces.	able pruning too	ls, techniques for p	oruning safely, and use and m
FHGE: Non-GE A	pplicable	Transferable: CSU		of tools and equi		
				FHGE: Non-GE	Applicable	Transferable: CSU
HORT 90I		PE SUSTAINABILITY	1 Unit			
	PRACTICES		1 Onit	HORT 90Q	PESIDENTI	AL IRRIGATION
Degree & Credit		pplicable credit course		non voq	SYSTEMS	
Grade Type: Lett	-	••		Degree & Credit		oplicable credit course
Not Repeatable.					er Grade or Pass/1	
12 hours lecture	total per quarter			Not Repeatable.		10 1 833
		the design, implementation, a	nd mainte-	•	total per quarter.	
		nd gardens. Reviews ecologica				ques for residential landscap
		y use in the environment.	i principies	-		erstanding the materials and t
FHGE: Non-GE A		Transferable: CSU				ay irrigation systems. Examin
FIGE. Non-GE A	phicaple	fransferable. C50				ting irrigation systems.
				FHGE: Non-GE		Transferable: CSU
HORT 90K		PING WITH EDIBLES	1 Unit		Applicable	fransferable. C50
		pplicable credit course				
Grade Type: Lett	er Grade or Pass/	No Pass		HORT 90S		
Not Repeatable.						GEMENT (IPM)
12 hours lecture				-		pplicable credit course
		tial landscapes. Practice and fe		••	er Grade or Pass/I	No Pass
	•	scape designs. Identification o		Not Repeatable.		
•	erials which prod	uce edible fruit, foliage, flowe	rs or other		total per quarter.	
edible parts.						uild on core Integrated Pest I
FHGE: Non-GE A	Applicable	Transferable: CSU		•		litional techniques for manag
						a multi-faceted approach to
HORT 90L	PLANT PRO	OPAGATION: BASIC	1 Unit	-	•	aspects of sustainability are
	SKILLS					ndscape situations.
Degree & Credit	Status: Degree-a	pplicable credit course		FHGE: Non-GE	Applicable	Transferable: CSU
Grade Type: Lett	er Grade or Pass/	No Pass				
Not Repeatable.				HORT 90U	LANDSCAP	E DESIGN:
12 hours lecture	total per quarter.				PERSPECTIV	VE SKETCHING
Introduction to p	ropagation of pla	ints by sexual and asexual met	hods. Seed-	Degree & Credit	Status: Degree-ap	pplicable credit course
ing, cutting, graft	ting, division of s	pecialized structures, and micr	o-prop-	Grade Type: Lett	er Grade Only	
agation discussed	l and demonstrat	ed. Discussions include growir	ng media,	Not Repeatable.		
fertilizers, hormo	ones, and other pl	ant supplements.		24 hours lecture	total per quarter.	
FHGE: Non-GE A	Applicable	Transferable: CSU		Basic perspective	e sketching for lan	dscape design presentations
				and rendering of	one-point and two	o-point perspectives, includi
HORT 90M	PLANT NU	TRITION &	1 Unit	of horizon lines a	and vanishing point	ts, height determination, pos
	FERTILIZAT			of objects, and re	endering technique	es for plants, people, structu
Degree & Credit		pplicable credit course		hardscape. Empl	nasis is on creating	one-point, quick sketch pers
Grade Type: Lett				presentation to o	clients.	
Not Repeatable.				FHGE: Non-GE	Applicable	Transferable: CSU
12 hours lecture	total per quarter					
		uirements and methods for pro	ovidina	HORT 90V	SUSTAINAR	LE ORGANIC
•		ide review of basic nutrient re	-		GARDENIN	
		nutrient deficiency identificat		Degree & Credit		oplicable credit course
		nts, manufacture of fertilizers,		-	er Grade or Pass/1	•
		ethods, and organic nutrient so		Not Repeatable.		
	CHIZCI GUIVELY III	Lineas, and organic nuchelles	Jui 003.	I TOL INCOCALADIC.		

FHGE: Non-GE Applicable Transferable: CSU

HORT 90N PLANT MATERIALS: FALL COLOR 1 Unit

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

12 hours lecture total per quarter.

Identification, taxonomy, habits of growth, cultural and environmental requirements of plants which exhibit noticeable fall color. Color characteristics include stems, foliage, flowers, and fruit. Plants are observed in class, on campus, and at off-site locations.

FHGE: Non-GE Applicable

Transferable: CSU

Emphasis on ion of suitnaintenance

1 Unit

es. Course techniques es methods

1 Unit

Management ing specific pest manpresented

2 Units

Setup ng location itioning res, and spectives for

1 Unit

1 Unit

12 hours lecture total per quarter.

Principles and practices utilized in the design, implementation, and maintenance of sustainable and organic gardens. Sustainable gardening practices that produce successful, environmentally responsible produce and crops. FHGE: Non-GE Applicable **Transferable: CSU**

HORT 90X	WATER CON	SERVATION IN	1 Unit	HORT 91E	COMMUNITY GARDENING Status: Degree-applicable credit course	1 Unit
Degree & Credit S		blicable credit course		Grade Type: Lette	• • • • • • • • • • • • • • • • • • • •	
Grade Type: Lette				Not Repeatable.		
Not Repeatable.				12 hours lecture to	otal per guarter.	
12 hours lecture to	otal per quarter.				hniques for developing community-based g	ardens, includ-
	• •	tion to landscape design and	l con-		ots, maintenance of contracted plots and m	
		is which incorporate water-o		5 71	non-profit gardens. Topics include site select	0
		water and strike a balance b			peds, selection of plant species, cultural mar	
softscape and hard					and marketing of crops.	lagement of
FHGE: Non-GE Ap		Transferable: CSU		FHGE: Non-GE A	•	
HORT 90Y	CACTI & SUC	CULENTS	1 Unit	HORT 91F	FINE GARDENING	1.5 Units
		olicable credit course			Status: Degree-applicable credit course	
Grade Type: Lette				-	tion of or concurrent enrollment in HORT	52C strongly
Not Repeatable.				advised.		
12 hours lecture to	otal per quarter.			Grade Type: Lette	r Grade Only	
Identification, taxo	onomy, habits of g	rowth, cultural and environn	nental re-	Not Repeatable.		
quirements of plar	nts grown in Califo	ornia. Emphasis on the use ar	nd mainte-	30 hours total pe	r quarter: 12 hours lecture, 18 hours laborat	ory.
		ignificant design features an	d landscape		ills necessary to maintain fine gardens, inclu	• •
		and physical observation.			control, irrigation management and seasona	
FHGE: Non-GE Ap	oplicable	Transferable: CSU			oment of skills for small and large sites beyo	
				U	standard pruning techniques. Targeted at sh	
HORT 90Z	ORNAMENT	AL GRASSES	1 Unit	•	ative grasses, cacti/succulents and other sm	all ornamental
		olicable credit course		plants.	pplicable Transferable: CSU	
Grade Type: Lette Not Repeatable.	r Grade Only			FHGE: Non-GE A		
12 hours lecture to	otal per quarter.			HORT 400A	PEST MANAGEMENT: CULTURAL	0 Units
	• •	rowth, cultural and environn	nental		REQUIREMENTS	
requirements of o	rnamental grasses	grown in California. Emphas	sis on the	Degree & Credit S	Status: Non-degree-applicable non-credit c	ourse
use and maintenar	nce of these mono	cots. Plants are observed via	a media and	Grade Type: Non-	credit course that receives no grade	
physical observation	on.			Unlimited Repeat	ability.	
FHGE: Non-GE Ap	oplicable	Transferable: CSU		6 hours lecture. T quarter.)	his course meets 1 time per quarter. (6 hour	rs total per
HORT 91A	COMPOSTIN	G THEORY &	1 Unit	This course will fo	cus on the cultural requirements to reduce	pesticide use.
	TECHNIQUE		. •	The first portion v	vill concentrate on building soil and will disc	uss the chem-
Degree & Credit S		olicable credit course			terious to building soil. The next portion will	
Grade Type: Lette					diagnose problems with plants by determini	-
Not Repeatable.					organism (living or biotic) or not (non-living	
12 hours lecture to	otal per quarter.			• •	anagement uses the IPM pyramid or a hiera	
Comprehensive in	troduction to the	theory and practices utilized	l in com-	-	pesticide. New products in the marketplace	
posting of organic	materials. Course	provides a combination of o	classroom		relatively new in the pesticide realm. Weeds	
		ies geared to providing a cle		• /	t virtue. This course will discuss methods of	•
5	1 0	iniques, including sustainable			dence of pesticide resistance, review the cu eds, and indicate which of these plants have	
- ·		organics, backyard compost	ting, and		This course may satisfy requirements for the	
vermicomposting.		T. 6 11 6011		11 0 /	g education for pesticide applicator licensur	
FHGE: Non-GE Ap	oplicable	Transferable: CSU		FHGE: Non-GE A		
HORT 91C	CONSTRUCT		1 Unit	HORT 400B	PEST MANAGEMENT: PEST	0 Units
	ESTIMATING				CONTROL	0 01113
		olicable credit course		Degree & Credit S	Status: Non-degree-applicable non-credit c	ourse
Grade Type: Lette	r Grade Only				credit course that receives no grade	
Not Repeatable. 12 hours lecture to	atal per quarter			Unlimited Repeat	-	
12 hours lecture to		purpose of measuring mate	arial quanti		his course meets 1 time per quarter. (6 hour	s total per
	-	to install, and calculating ove	•	quarter.)		
		ring, compiling, and interpre		This course will int	troduce students to the polyphagous shot h	ole borer as
		es will be addressed.		a means to biolog	ical control through predators. Additional to	opics include
FHGE: Non-GE Ap	,	Transferable: CSU		-	ects and exploring alternatives to pesticide	
	· · · · · · · · · · · · · · · · · · ·				atisfy requirements for those students seeki	ng continuing
				education for pest	ticide applicator licensure.	

1 Unit

HORT 91E

COMMUNITY GARDENING

1 Unit

FHGE: Non-GE Applicable

Transferable: None

HORT 90X

WATER CONSERVATION IN

HORT 400C PEST MANAGEMENT: WORKING 0 Units WITH PESTICIDES

Degree & Credit Status: Non-degree-applicable non-credit course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

6 hours lecture. This course meets 1 time per quarter. (6 hours total per quarter.)

This course will address current topics in proper pesticide selection and handling. Topics will include reading and understanding a pesticide label, pesticide formulations and pesticide worker safety and use of personal protective equipment. This course may satisfy requirements for those students seeking continuing education for pesticide applicator licensure. FHGE: Non-GE Applicable Transferable: None

HORT 401A LANDSCAPE CERTIFICATION: 0 Units COMMON CORE

Degree & Credit Status: Non-degree-applicable non-credit course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

24 hours lecture total per quarter.

General subjects related to certification with the California Landscape Contractors Association. Includes horticultural math, plant identification, workplace safety, plant reading, plant sensitivity, grading and sodding, irrigation identification, controller programming, lateral repair and head adjustments and truck and trailer operation. This course is intended for students seeking Certified Landscape Technician certification.

FHGE: Non-GE Applicable Transferable: None

HORT 401B LANDSCAPE CERTIFICATION: 0 Units SOFTSCAPE INSTALLATION Degree & Credit Status: Non-degree-applicable non-credit course

Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

12 hours lecture total per quarter.

General subjects related to certification with the California Landscape Contractors Association. Topics to include plan reading, plant layout, horticultural principles, irrigation components, controller programming, lateral repair and head adjustment, plant installation, post-planting care, sod installation, plant identification and rototiller operation. This course is intended for students seeking Certified Landscape Technician certification. FHGE: Non-GE Applicable Transferable: None

HORT 401C LANDSCAPE CERTIFICATION: HARDSCAPE INSTALLATION

Degree & Credit Status: Non-degree-applicable non-credit course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

12 hours lecture total per quarter.

General subjects related to certification with the California Landscape Contractors Association. Topics include plan reading, hardscape math calculations, instrument operation, grading and drainage, equipment operation, and paver installation. This course is intended for students seeking Certified Landscape Technician certification.

FHGE: Non-GE Applicable

Transferable: None

HORT 401D

LANDSCAPE CERTIFICATION: IRRIGATION INSTALLATION

Degree & Credit Status: Non-degree-applicable non-credit course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

24 hours lecture total per quarter.

General subjects related to certification with the California Landscape Contractors Association. Topics include irrigation plan reading, advanced irrigation components, basic horticultural principles, lateral repair and head adjustment, advanced program controller, lateral installation, mainline installation, valve repair, valve wiring and pipe installation equipment. This course is intended for students seeking Certified Landscape Technician certification.

FHGE: Non-GE Applicable

Transferable: None

HORT 401E

LANDSCAPE CERTIFICATION: TURF MANAGEMENT

Degree & Credit Status: Non-degree-applicable non-credit course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

12 hours lecture total per quarter.

General subjects related to certification with the California Landscape Contractors Association. Topics include irrigation principles, irrigation components, turfgrass principles, performing turfgrass calculations, basic controller programming, lateral repair and head adjustment, safe operation of power blower, 21" mower, intermediate walk-behind mower, riding mower, edger and trimmer, aerator, and understanding of turf fertilizer. This course is intended for students seeking Certified Landscape Technician certification.

FHGE: Non-GE Applicable Transferable: None

HORT 401F LANDSCAPE CERTIFICATION: 0 Units ORNAMENTAL MAINTENANCE

Degree & Credit Status: Non-degree-applicable non-credit course Grade Type: Non-credit course that receives no grade

Unlimited Repeatability. 12 hours lecture total per quarter.

General subjects related to certification with the California Landscape Contractors Association. Topics include ornamental horticulture maintenance principles, irrigation principles, irrigation components, maintenance calculations, plant identification review, controller programming, lateral repair and head adjustment, tree planting and staking, pruning, safe operation of landscape maintenance equipment. This course is intended for students seeking Certified Landscape Technician certification.

FHGE: Non-GE Applicable Transferable: None

FIRE SCIENCE

Biological and Health Sciences 650.949.7249 foothill.edu

JFS 100 FIRE FIGHTER | ACADEMY 20 Units

Degree & Credit Status: Degree-applicable credit course Advisory: The student will be required to pass a physical agility test; further information to be provided to the student upon enrollment; not open to students with credit in JFS 307. Grade Type: Letter Grade Only

Not Repeatable.

0 Units

0 Units

480 hours total.

Instruction on basic fire fighting skills, laws and regulations affecting the fire service. It will provide the student with knowledge and skills to safely perform, under minimal supervision, essential and advanced fire ground tasks, basic rescue, basic fire prevention and fire investigation task and to use, inspect, and maintain fire fighting and rescue equipment. Curriculum is intended to provide the minimum training required by the State of California Fire Marshal in the field of Fire technology as it relates to firefighters. Students will receive a Fire Fighter 1 Academy certificate at the completion of this course.

FHGE: Non-GE Applicable

Transferable: None

🛑 FOOTHILL COLLEGE

0 Units

FOOTHILL COLLEGE

1.5 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

4 Units

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Introduction to the geography of economic activity; the world wide distribution and characteristics of agriculture, forestry, fishing, mining, manufacturing, transportation, high technology and international trade.

FHGE: Social & Behavioral Sciences Transferable: CSU/UC

GEOG 10 WORLD REGIONAL GEOGRAPHY 4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Survey of the world's major culture regions and major nations. Physical, cultural, economic features. Emphasis on historical influences on population growth, transportation networks, natural environment, potential and problems. Location, importance and impact of the foremost features of countries, states, major cities, rivers and landform regions.

FHGE: Social & Behavioral Sciences Transferable: CSU/UC

GEOG 11 INTRODUCTION TO MAPPING 4 Units **& SPATIAL REASONING**

Degree & Credit Status: Degree-applicable credit course Advisory: Elementary Algebra or equivalent; not open to students with credit in GIST 11.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Introduction to the fundamental concepts of GeoSpatial Technology, including Geographic Information Systems (GIS), Remote Sensing (RS) and Global Positioning Systems (GPS), map reading, and cartography. Exploration of how geospatial technologies are used in addressing human and environmental issues and can promote sustainability.

FHGE: Communication & Analytical Thinking Transferable: CSU/UC

4 Units **GEOG 12** INTRODUCTION TO **GEOSPATIAL TECHNOLOGY** Degree & Credit Status: Degree-applicable credit course

Advisory: GEOG 11 or GIST 11; not open to students with credit in GIST 12. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Study of Geospatial Technology, including Geographic Information Systems (GIS), Global Positioning Systems (GPS), cartography, remote sensing, and spatial analysis. Application of Geographic Information Systems (GIS) science to spatial data management. Assessment of vector and raster systems, scale, resolution, map projection, coordinate systems and georeferencing. Identification and acquisition of spatial data. Transferable: CSU/UC

FHGE: Non-GE Applicable

(CPT) Degree & Credit Status: Degree-applicable credit course Prerequisite: JFS 100 or equivalent. Advisory: Not open to students with credit in JFS 308A.

FIRE CONTINUED

PROFESSIONAL TRAINING

Grade Type: Pass/No Pass Only Not Repeatable.

44 hours total: 6 hours lecture, 38 hours laboratory.

Provides training which is required by the California State Fire Marshall to keep firefighters current with new equipment, policies, laws, medical training and fire skills needed to be prepared in the line of duty. Curriculum is used by multiple agencies, all requiring different training hour requirements. This course has fewer laboratory hours than JFS 101B.

FHGE: Non-GE Applicable **Transferable:** None

JFS 101B

FIRE CONTINUED 2 Units **PROFESSIONAL TRAINING 2** (CPT)

Degree & Credit Status: Degree-applicable credit course Prerequisite: JFS 100 or equivalent. Advisory: Not open to students with credit in JFS 308B. Grade Type: Pass/No Pass Only Not Repeatable.

54 hours total.

Intended for current fire personnel, and provides training which is required by the California State Fire Marshall to keep firefighters current with new equipment, policies, laws, medical training and fire skills needed to be prepared in the line of duty. Provides advanced hands on training for firefighters.

FHGE: Non-GE Applicable

Transferable: None

GEOGRAPHY

Business and Social Sciences 650.949.7322 foothill.edu/geography/

GEOG 1

5 Units

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; MATH 180.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.)

Study of the Earth's surface, including the earth's dimensions and systems; atmospheric processes; patterns of climate, vegetation and soils; and features, processes and interactions of land, water and various energy sources. Use of maps for interpretation. Transferable: CSU/UC

FHGE: Natural Sciences

HUMAN GEOGRAPHY

4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per guarter.)

The cultural geographic landscape. Study of the human population from origins to the present with an emphasis on the future. Examination of population densities, migrations and settlements; races, languages and religions; patterns of land use and major environmental perceptions and problems. Analysis of energy, mineral, and food resources and how cultures utilize

FHGE: Social & Behavioral Sciences

Transferable: CSU/UC

them.

GEOG 2

COURSE CATALOG 2020-2021

PHYSICAL GEOGRAPHY Degree & Credit Status: Degree-applicable credit course

GEOG 20 INTRODUCTION TO EARTH SCIENCE

Degree & Credit Status: Degree-applicable credit course Advisory: One of the following: ENGL 1A, 1AH, or 1S & 1T. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

An introduction to the essentials of Earth science, including the structure of the earth and its internal processes, the atmosphere, the hydrosphere, and solar system. This course focuses on the interactions between physical and chemical systems of the Earth, such as the plate tectonics, the rock cycle, the hydrologic cycle, weather and climate. Topics are aligned with the California State Science Standards for K-12 and will prepare pre-service teachers to teach these subjects.

FHGE: Non-GE A	pplicable	Transferable: CSU	I/UC
GEOG 70R	INDEPENDE GEOGRAPH	ENT STUDY IN Y	1 Unit
GEOG 71R			2 Units
GEOG 72R			3 Units

GEOG 73R Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3-12 hours laboratory per week. (36-144 hours total per quarter.)

Provides an opportunity for the student to expand their studies in Geography beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department. FHGE: Non-GE Applicable Transferable: CSU

GEOSPATIAL TECHNOLOGY & DATA SCIENCE

Business and Social Sciences 650.949.7322 foothill.edu/gis/

GIST 11 INTRODUCTION TO MAPPING 4 Units & SPATIAL REASONING

Degree & Credit Status: Degree-applicable credit course Advisory: Elementary Algebra or equivalent; not open to students with credit in GEOG 11.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Introduction to the fundamental concepts of GeoSpatial Technology, including Geographic Information Systems (GIS), Remote Sensing (RS) and Global Positioning Systems (GPS), map reading, and cartography. Exploration of how geospatial technologies are used in addressing human and environmental issues and can promote sustainability.

FHGE: Communication & Analytical Thinking Transferable: CSU/UC

4 Units

4 Units

INTRODUCTION TO **GEOSPATIAL TECHNOLOGY**

Degree & Credit Status: Degree-applicable credit course Advisory: GEOG 11 or GIST 11; not open to students with credit in GEOG 12.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Study of Geospatial Technology, including Geographic Information Systems (GIS), Global Positioning Systems (GPS), cartography, remote sensing, and spatial analysis. Application of Geographic Information Systems (GIS) science to spatial data management. Assessment of vector and raster systems, scale, resolution, map projection, coordinate systems and georeferencing. Identification and acquisition of spatial data.

FHGE: Non-GE Applicable Transferable: CSU/UC

GIST 52	GEOSPATIAL DATA	4 Units
	ACQUISITION &	
	MANAGEMENT	

Degree & Credit Status: Degree-applicable credit course Advisory: Successful completion of GEOG 11 or GIST 11 and GEOG 12 or

GIST 12; not open to students with credit in GEOG 52.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per guarter.)

Study of Geographic Information Systems (GIS) science and its applications to spatial data management. Data acquisition using GPS, digitizing and scanning techniques. Data management. Editing and verifying. Raster data manipulation and importing. Database management. Advanced queries and database manipulation.

FHGE: Non-GE Applicable **Transferable: CSU**

GIST 53		D GEOSPATIAL DGY & SPATIAL	4 Units
Degree & Credit	Status: Degree-a	pplicable credit course	
Advisory: GEOG	11 or GIST 11; GE0	OG 12 or GIST 12; GIST 52.	
Grade Type: Lette	er Grade or Pass/	No Pass	
Not Repeatable.			
2 hours lecture, 6	် hours laborator	y. (96 hours total per quart	er.)
	5	nd decision-making using g a range of disciplines.	eospatial
FHGE: Non-GE A	pplicable	Transferable: CSU	
GIST 54A	APPLICATIO GEOGRAPH	N SPECIALIZED ONS OF HIC INFORMATION	2 Units
Deeree & Credit	SYSTEMS I	undiashia aradit asuras	
-	Status: Degree-a	pplicable credit course	

Advisory: Not open to students with credit in GEOG 54A. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Seminar on the diverse applications of Geographic Information Systems (GIS). Weekly presentations by guest speakers. FHGE: Non-GE Applicable **Transferable: CSU**

GIST 58 **REMOTE SENSING &** 3 Units DIGITAL IMAGE PROCESSING Degree & Credit Status: Degree-applicable credit course

Advisory: Not open to students with credit in GEOG 58. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2 hours lecture, 3 hours laboratory. (60 hours total per quarter.) Physical basis of remote sensing. Aerial photography and high resolution multi-band imaging. Satellite multi-band optical remote sensing. Other forms of remote sensing (RADAR, SAR, LIDAR). Applications of remote sensing.

FHGE: Non-GE Applicable

Transferable: CSU

GIST 59

CARTOGRAPHY, MAP **PRESENTATION & DESIGN**

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in GEOG 59. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture, 3 hours laboratory. (48 hours total per quarter.) Map projections, geodes, coordinate systems. Map composition. Selection of colors and symbols.

FHGE: Non-GE Applicable

Transferable: CSU

GLOBAL STUDIES

Business and Social Sciences 650.949.7322 foothill.edu/globalstudies/

GLST 1 INTRODUCTION TO GLOBAL 4 Units STUDIES

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in SOSC 1. Grade Type: Letter Grade Only

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

This course provides students with an introduction to Global Studies. Students are offered an interdisciplinary view of globalization and its impacts through an examination of social, cultural, political, economic, and environmental contexts. The course emphasizes the interdependence and connections between global institutions, populations, and individuals. Transferable: CSU/UC FHGE: Non-GE Applicable

GLOBAL ISSUES GLST 2

4 Units

2 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in SOSC 2. Grade Type: Letter Grade Only Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

This course offers an introduction to the origins, current dilemmas, and future trends of major issues confronting the global community such as energy and resource depletion, food and population, war and terrorism, nuclear arms, human rights, economic interdependence, and international inequality. The role of global institutions and global citizenship will be considered as they relate to global issues.

FHGE: Non-GE Applicable

Transferable: CSU/UC

GRAPHICS & INTERACTIVE DESIGN

Fine Arts and Communication 650.949.7571 foothill.edu/gid/

Foothill offers art activity courses in six different family categories. No single course may be repeated. Enrollment is limited to six courses per family within the Foothill-De Anza Community College District. Please refer to the De Anza College Catalog for the corresponding families and courses.

Printmaking Family: GID 46

HISTORY OF GRAPHIC DESIGN 4 Units GID 1

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in ART 36 or GRDS 36. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

A study of the development of visual communication in art, graphic design, illustration and popular culture. Emphasis on the role, impact and interpretation of images, symbols, and typography used in informative and persuasive media. FHGE: Humanities Transferable: CSU/UC

GID 31 GRAPHIC DESIGN DRAWING 4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in GID 70 or GRDS 60. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.) Developing drawing skills for communicating ideas. Learning to simplify complex realistic images to express design concepts rapidly and effectively. FHGE: Non-GE Applicable Transferable: CSU/UC

GRAPHIC DESIGN STUDIO I GID 33

4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in GID 50 or GRDS 53. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Introduction to graphic design and visual communication. Projects include composition, typography, image editing and logo design. Design principles are explored through creative projects. Students practice fundamental software skills using Adobe Photoshop, Illustrator, and InDesign to complete the graphic design activities in this course.

FHGE: Non-GE Applicable Transferable: CSU/UC

GID 34

4 Units

GRAPHIC DESIGN STUDIO II Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in GID 51.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Continuation of GID 33. Students engage in problem solving with real-world graphic design projects. Focus on creative solutions that effectively use type, image, and layout. Projects include brochure, advertisement, interface, and package design. Creative ideas are explored in sketches, rough layouts, and finished comps. Students learn software skills using Adobe InDesign, Illustrator, and Photoshop to complete the graphic design activities in this course.

FHGE: Non-GE Applicable

Introduction to processing, pho	using computers an	d software for painting, drawing, image ography and time-based works. Emphasis lem solving
FHGE: Non-GE	5 1	Transferable: CSU/UC
•	e 1	
	tter Grade or Pass/N	with credit in GID 76 or GRDS 90. Io Pass
3 hours lecture Creation of ima phasis on conce opment of pers	A hours laboratory. ages to communicate ept development and sonal visual vocabula roduction processes	. (72 hours total per quarter.) e ideas. Traditional and digital media. Em- d communication effectiveness. Devel- ry while learning art making techniques and illustration business practice. Transferable: CSU/UC

🛑 FOOTHILL COLLEGE

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COURSE CATALOG 2020-2021

Continuation of GID 34. Students design and produce a real-world graphic Introduction on how to create believable movement by applying the traditional principles of animation to the 3-D digital environment, and using the computer as a tool to animate characters, creatures, and simple props related to live-action and animation film. A wide variety of current industry standard software, and traditional principles of animation will be used to animate simple 3-D animation art assets and characters. Topics include an overview of the traditional principles of animation, and how to apply them to basic 3-D digital animation. Emphasis on body mechanics, with attention on the building blocks of an animated scene, and the workflow from planning phase to final animation for live-action and animation film, will also 4 Units be explored. FHGE: Non-GE Applicable Transferable: CSU/UC **GID 45 DIGITAL SOUND, VIDEO** 4 Units & ANIMATION Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in ART 88, DRAM 86, GID 80, GRDS 86, MUS 12 or VART 86. Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 3 hours lecture, 3 hours laboratory. (72 hours total per quarter.) Basic instruction using the computer for emerging media technologies; digital sound, video editing, and animation. Emphasis on time based media and creative problem solving. 4 Units FHGE: Non-GE Applicable Transferable: CSU/UC **GID 46** SCREENPRINTING 4 Units Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Printmaking family of activity courses; not open to students with credit in ART 39. Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 3 hours lecture, 3 hours laboratory. (72 hours total per quarter.) Introduction to screen printing processes, exploring the techniques of hand-cut stencils, direct-drawn stencils and photographic processes. Theory and practice making images for limited-edition and one-of-a-kind fine art 4 Units prints. FHGE: Non-GE Applicable Transferable: CSU/UC 4 Units **GID 47 MOTION GRAPHICS** Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in GID 84, GRDS 87, MDIA 32 or VART 87. Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 3 hours lecture, 3 hours laboratory. (72 hours total per quarter.) Basic instruction using the computer for motion graphic design, animation, and composite digital video production. Emphasis on time based media and its application to creative problem solving and communication solutions. s FHGE: Non-GE Applicable Transferable: CSU/UC **GID 49 GAME ART & DESIGN** 4 Units Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 3 hours lecture, 3 hours laboratory. (72 hours total per guarter.) This course introduces the creative and technical aspects of computer and video game art and design. Students will learn conceptual and practical skills for bringing a comprehensive artistic vision to the creation of computer and video games, including concept art, character design, interface design, storytelling, and gameplay. Projects will emphasize creative design processes and digital prototyping of art for 2-D and 3-D computer and video games. FHGE: Non-GE Applicable Transferable: CSU/UC

design campaign. Focus on creative solutions that effectively use type, image, and layout. Projects include branding, identity, newsletter, website, and package design. Creative ideas are explored in sketches, rough layouts, comps, and final presentations. Students learn Adobe CC software and industry standard software to complete the graphic design activities in this course. FHGE: Non-GE Applicable Transferable: CSU/UC

GID 36 TYPOGRAPHY

Degree & Credit Status: Degree-applicable credit course

Advisory: GID 33 and 41, or proficiency using Illustrator software; not open to students with credit in GID 54 or GRDS 62.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

GID 35

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Exploration and experimentation with letter forms and page layout for expressive communication. Fundamental typographic principles, font recognition, and analysis of both historical and post modern design theory. Emphasis on content, form, and technique for effective use of typography in ads, posters, newsletters and other visual communications. Transferable: CSU/UC FHGE: Non-GE Applicable

CARTOON & COMIC GID 37 **ILLUSTRATION I** Degree & Credit Status: Degree-applicable credit course

Advisory: Not open to students with credit in GID 72 or GRDS 73A. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Fundamentals of drawing cartoons for mass communication with a variety of styles and techniques. Emphasis on skills, concepts, humor, and design. Exploration of career opportunities.

FHGE: Non-GE Applicable Transferable: CSU/UC

GID 41 DIGITAL ART & GRAPHICS

Degree & Credit Status: Degree-applicable credit course

Advisory: Familiarity with computer operating systems; ART 4A or GID 31; ART 5A; not open to students with credit in ART 14D, GID 74, or GRDS 56. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per guarter.)

GRAPHIC DESIGN STUDIO III Degree & Credit Status: Degree-applicable credit course

3 hours lecture, 3 hours laboratory. (72 hours total per guarter.)

Advisory: Not open to students with credit in GID 52.

Grade Type: Letter Grade or Pass/No Pass

4 Units

GID 44A

Not Repeatable.

FUNDAMENTALS OF 3-D

ANIMATION

Degree & Credit Status: Degree-applicable credit course

3 hours lecture, 3 hours laboratory. (72 hours total per guarter.)

Grade Type: Letter Grade or Pass/No Pass

	FRIMING			Degree & Cree
Degree & Credit	Status: Degree-ap	plicable credit course		Advisory: GID
Grade Type: Let	ter Grade or Pass/N	lo Pass		Grade Type: Lo
Not Repeatable				Not Repeatab
		. (72 hours total per quar	ter.)	3 hours lectur
	•	liate instruction in design		Website desig
		digital skills for image cre		emphasis on a
-		for screenprinting on t-sh		concepts, usat
• •		evelopment of personal v		namic pages, i
		vork. Basic business proce	,	website develo
	g industry are put ir	•		delivery to mu
FHGE: Non-GE	Аррисаріе	Transferable: CSU		software Adob
				FHGE: Non-G
GID 53C	ADVANCED	T-SHIRT DESIGN	4 Units	
	& GARMEN1	F PRINTING		GID 60
Dearee & Credit	t Status: Degree-ap	plicable credit course		
•	ter Grade or Pass/N			Degree & Cree
Not Repeatable.				Advisory: Not
•		. (72 hours total per quar	ter)	Grade Type: Le
	•	d instruction in design, pr		Not Repeatab
		full-service garment print	0, 0	2 hours lectur
	•	Transferable: CSU	ing business.	
FHGE: Non-GE	Аррисаріе	Transferable: C30		Exploring the
				photography,
GID 55	USER EXPER	RIENCE (UI/UX)	4 Units	paths including
	DESIGN			freelance, and
Degree & Credit	t Status: Degree-ap	plicable credit course		FHGE: Non-G
	ter Grade or Pass/N			
Not Repeatable.				GID 61
•		. (72 hours total per quar	ter.)	Degree & Cree
	•	experiences (UI/UX) for		Advisory: Not
		ds and behaviors. Organiz		Grade Type: Lo
		produce reusable element		Not Repeatab
				•
		ict usability testing and co		2 hours lectur
		lings. Explore issues in mo		Design and cre
	. Develop proficien	cy with professional softw	vare for mobile	phers. Plannin
development.				FHGE: Non-G
FHGE: Non-GE	Applicable	Transferable: CSU		
				GID 67
GID 56	WEBSITE DE	SIGN	4 Units	Degree & Cree
Degree & Credit	t Status: Degree-an	plicable credit course		Grade Type: Lo
-		h credit in GRDS 94.		Not Repeatab
• •	ter Grade or Pass/N			3 hours lectur
Not Repeatable.				Learn how to d
•		(72 hauna tatal namena	haw)	
	•	. (72 hours total per quar		course explore
	• .	er for website and interfa	•	The course int
•		creative problem solving.		and asset crea
FHGE: Non-GE	Applicable	Transferable: CSU		tools and tech

BEGINNING T-SHIRT DESIGN & GARMENT PRINTING

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in GID 53. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

PRINTING

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.) Basic instruction in design and printing for wearable art. Students learn techniques for image creation and preparation of artwork for screenprinting on t-shirts. Development of personal visual style while learning workflow of a professional printing studio.

FHGE: Non-GE Applicable

GID 53A

GID 53B

Transferable: CSU

INTERMEDIATE T-SHIRT **DESIGN & GARMENT**

4 Units

4 Units

GID 57

WEBSITE DESIGN & DEVELOPMENT II

Degree & Credit Status: Degree-applicable credit course

Advisory: GID 56. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Introduction to HTML/XHTML for coding fully functional Web pages and websites. Emphasis on writing well-formed markup using current Web standards and coding technologies, design concepts, usability, accessibility, and browser compatibility. Brief introduction to JavaScript, HTML5, and XML. **Transferable: CSU** FHGE: Non-GE Applicable

GID 58 WEB DESIGN & 4 Units DEVELOPMENT III Degree & Credit Status: Degree-applicable credit course D 56 and 57. Letter Grade or Pass/No Pass

ble.

re, 3 hours laboratory. (72 hours total per quarter.)

an and production using an HTML editor software, with an application of current HTML/CSS coding technologies, design bility and accessibility, organizing page content, producing dyincorporating rich media, and reusable elements. Large scale lopment with emphasis on site management, and web page ultiple platforms. Develop proficiency with web production be Dreamweaver.

Transferable: CSU GE Applicable

CAREERS IN THE VISUAL 2 Units ARTS

edit Status: Degree-applicable credit course t open to students with credit in GRDS 50 or VART 50. etter Grade or Pass/No Pass

ble.

re. (24 hours total per quarter.)

field of visual arts including commercial arts, graphic design, video arts, website design, and illustration. Survey of career ng art studios, company art departments, advertising agencies, d other job opportunities for creative services professionals. **Transferable: CSU** GE Applicable

PORTFOLIO

edit Status: Degree-applicable credit course

t open to students with credit in GRDS 77. Letter Grade or Pass/No Pass

ble.

re. (24 hours total per quarter.)

reation of portfolios for designers, illustrators, and photograng and implementation of individual professional portfolios. **Transferable: CSU** GE Applicable

MOBILE GAME DESIGN 4 Units

edit Status: Degree-applicable credit course Letter Grade or Pass/No Pass ble.

re, 3 hours laboratory. (72 hours total per quarter.)

design games for smart phones and mobile devices. This res the design and development processes for mobile games. troduces the concepts of character design, scene design, ation for mobile games. Students will use mobile game design and techniques, including animation, game mechanics, scalable vector graphics, and sound effects, to build interactive game experiences. Professional techniques for game design planning and rapid prototyping, distribution and promotion of mobile games will be presented. Students will develop proficiency with professional software for mobile game design. FHGE: Non-GE Applicable **Transferable: CSU**

2 Units

GID 68A

INTRODUCTION TO VIRTUAL REALITY DESIGN Degree & Credit Status: Degree-applicable credit course

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per guarter.)

Introduction to the core principles and foundations of design for virtual reality (VR) and immersive experiences. Students will learn theory, techniques and processes for design and development of successful VR and immersive experiences. Hands-on projects provide opportunities for creating VR animation, 3-D objects, environments and interfaces while exploring issues in design and development for VR and immersive devices. Students will develop proficiency with professional software for VR design and development. FHGE: Non-GE Applicable **Transferable: CSU**

GID 68B VIRTUAL REALITY GAME 4 Units DESIGN

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Learn how to design virtual reality (VR) games and immersive experiences. Students will be introduced to conceptual theory, design techniques, and project management skills for building successful VR games and immersive experiences. Topics include ideation, concept development, character design, environment design, 3-D animation, and sound and lighting design for VR games and immersive experiences. Students will complete handson projects that progress through the phases of designing VR games and immersive experiences, from ideation through to final production while developing proficiency with professional software for VR game and immersive experience design.

FHGE: Non-GE Applicable

Transferable: CSU

GID 71 STORYBOARDING Degree & Credit Status: Degree-applicable credit course Advisory: GID 31; not open to students with credit in GRDS 76. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Fundamentals of creating storyboards and flowcharts for media projects. Emphasis on technique, concept development and design of storyboards. Exploration of storyboard applications for new media content. FHGE: Non-GE Applicable Transferable: CSU

4 Units **GID 77** ADVANCED WEBSITE DESIGN & DEVELOPMENT

Degree & Credit Status: Degree-applicable credit course Advisory: GID 56 and 57. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per guarter.)

Introduction to HTML5 and CSS3 for advanced Web development and design. Prepares students and working professionals to use advanced tags and layout. Emphasis on writing well-formed markup using current Web standards and coding technology, design concepts, usability, accessibility, and browser compatibility. Includes minor elements of JavaScript. Intended for students with a basic working knowledge of HTML/CSS and Web design. FHGE: Non-GE Applicable **Transferable: CSU**

GID 78 RAPID WEBSITE DEVELOPMENT

4 Units

4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: GID 56, 57 and 58. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per guarter.)

Introduction to Drupal and WordPress for rapid website development. Prepares students and working professionals to use rapid development tools to create and customize websites for small and large applications, from blogs to commercial development. Emphasis on authoring, modules and architecture, CMS (Content Management System), and administrative tools. **Transferable: CSU** FHGE: Non-GE Applicable

HEALTH

Biological and Health Sciences 650.949.7249 foothill.edu/bhs/

INTRODUCTION TO PUBLIC HLTH 20 5 Units HEALTH

Degree & Credit Status: Degree-applicable credit course Advisory: One of the following: ENGL 1A, 1AH, or 1S & 1T. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Introduction to and an overview of public health. It covers: identifying and addressing population health challenges; determinants of health; and an overview of the health system. The basic concepts and terminologies of public health along with the history and accomplishments of public health officials and agencies will be reviewed. An overview of the functions of various public health professions and institutions, and an in-depth examination of the core public health disciplines is covered. Key topics include the epidemiology of infectious and chronic disease; prevention and control of diseases in the community including the analysis of the social determinants of health and strategies for eliminating disease, illness and health disparities among various populations; community organizing and health promotion programming; environmental health and safety; global health; and health care policy and management.

FHGE: Lifelong Understanding

Transferable: CSU/UC

CONTEMPORARY HEALTH 4 Units HLTH 21 CONCERNS

Degree & Credit Status: Degree-applicable credit course Advisory: One of the following: ENGL 1A, 1AH, or 1S & 1T. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

This course focuses on the exploration of major health issues and behaviors in the various dimensions of health. Emphasis is placed on individual responsibility for personal health and the promotion of informed, positive health behaviors. Topics include nutrition, exercise, weight control, mental health, stress management, violence, substance abuse, reproductive health, disease prevention, aging, health care, and environmental hazards and safety. FHGE: Lifelong Understanding Transferable: CSU/UC

4 Units

FOOTHILL COLLEGE

Survey of the development of Western culture and civilization in the ancient world. From the Neolithic period to the early Middle Ages.

FHGE: Social & Behavioral Sciences

Transferable: CSU/UC

HEALTH & SOCIAL JUSTICE

Degree & Credit Status: Degree-applicable credit course Advisory: One of the following: ENGL 1A, 1AH or 1S & 1T. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

HLTH 22

This course provides an introduction to the health inequities in the United States that stem from unequal living conditions. Students will explore how education, socioeconomic status, racism and gender shape health epidemics and policy development. The basic skills necessary for advocating for health and social justice will be theoretically demonstrated. Transferable: CSU/UC FHGE: Lifelong Understanding

DRUGS, HEALTH & SOCIETY HLTH 23

Degree & Credit Status: Degree-applicable credit course Advisory: One of the following: ENGL 1A, 1AH or 1S & 1T. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

This course explores the world-wide crisis and challenge of substance abuse, including its historical effects on various societies and cultures. In addition to examining this from a social perspective, students will receive an overview of the epidemiology and toxicology of substance abuse and its relevance to personal and public health. Students will be introduced to the concept of substance abuse and dependence, the definition of licit and illicit drugs, and the pharmacologic, neurologic and physiologic effects of selected substances on the human brain. Political, social and economic factors involved in the supply and demand for drugs will be discussed. Epidemiologic data on the prevalence, incidence, and trends of smoking, alcohol, prescription and other drug dependencies globally will be covered, as well as risk factors associated with the use and abuse of these substances. Current options for recovery will be reviewed.

FHGE: Lifelong Understanding Transferable: CSU/UC

HLTH 300 HEALTH ACROSS THE LIFESPAN 5 Units Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Examines the basic principles that guide growth, development and the health of individuals across the lifespan, from the prenatal period through senescence. Presents methodological, conceptual and substantive issues necessary for understanding and evaluating empirically based information about growth, development and health at different stages of life and from a public health perspective. Course covers several themes, including contributions of biological and environmental factors to health and human development, measuring the health of individuals in communities, understanding determinants and consequences of health and development across the lifespan, measuring population health and assessing the implications of health disparities. This is an upper division General Education course, intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

FHGE: Upper Division **Transferable: CSU** 4 Units

4 Units

Business and Social Sciences

650.949.7322 foothill.edu/history/

HIST 3A	WORLD HISTORY FROM	4 Units
	PREHISTORY TO 750 CE	
Dearee & Credit	Status: Degree-applicable credit course	

app

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Survey of the world's ancient peoples, cultures and civilizations from Africa, Asia, Europe and the Americas and Oceania. Focus on the interactions between peoples and cultures in broad regions and the similarities and difference between civilizations.

FHGE: Social & Behavioral Sciences

Transferable: CSU/UC

4 Units HIST 3B WORLD HISTORY FROM 750 CE TO 1750 CE

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Survey of world civilizations focusing on the increasing encounters between the world's peoples, cultures, and civilizations. Focus on the constructive and destructive impacts of interactions of civilizations in Europe, Africa, Asia, the Americas and Oceania.

FHGE: Social & Behavioral Sciences Transferable: CSU/UC

HIST 3C WORLD HISTORY FROM 1750 4 Units **CE TO THE PRESENT**

Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

ESLL 125 & ESLL 249.

4 hours lecture. (48 hours total per quarter.) Survey of world civilizations as they transition from colonial to modern times. Focus on the increasing interdependency of human societies through

revolution, war, globalization, and global environmental changes. FHGE: Social & Behavioral Sciences Transferable: CSU/UC

HISTORY OF WESTERN HIST 4A 4 Units **CIVILIZATION TO 800 CE** Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of

Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 4 hours lecture. (48 hours total per quarter.)

HIST 4B **HISTORY OF WESTERN CIVILIZATION: 700-1800**

Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Survey of the development of Western society and culture from the early Middle Ages through the Age of Enlightenment. Emphasis upon the cultural, social, intellectual, and institutional changes that led to the birth of the modern Western culture and its interchange with the peoples of the world's continents.

HIST 4C **HISTORY OF WESTERN** 4 Units **CIVILIZATION 1789-PRESENT**

Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in HIST 4CH. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per guarter.)

Survey of the development of Western society and culture during the nineteenth and twentieth centuries. Emphasis upon the social, intellectual, and institutional changes that have led to the contemporary Western world and its interchange with the peoples and institutions of the world's continents. **FHGE: Social & Behavioral Sciences** Transferable: CSU/UC

HIST 4CH HONORS HISTORY OF WESTERN 4 Units **CIVILIZATION 1789-PRESENT**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant. Advisory: Not open to students with credit in HIST 4C. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Survey of the development of Western society and culture during the nineteenth and twentieth centuries. Emphasis upon the social, intellectual, and institutional changes that have led to the contemporary Western world and its interchange with the peoples and institutions of the world's continents. As an honors course, it is a full thematic seminar with advanced teaching methods focusing on major writing, reading, and research assignments, student class lectures, group discussions and interactions. Transferable: CSU/UC

FHGE: Social & Behavioral Sciences

HIST 8 HISTORY OF LATIN AMERICA 4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

History of Latin America from pre-Columbian times to the present. Emphasis upon Native and European contributions to present Latin American culture. Special emphasis on governmental systems and social and economic progress. Includes revolutionary movements and their present status. **FHGE: Social & Behavioral Sciences** Transferable: CSU/UC

THE MULTICULTURAL STATE Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

HISTORY OF CALIFORNIA:

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

History of California emphasizing the interaction of peoples of different ethnicities from the Native period up to the present day. Emphasis on periods of significant cultural transition--the Spanish mission period, American conquest and dominance, and multicultural movements of the twentieth century. Analysis of class and gender as well as race and ethnicity in the development of California history and culture.

FHGE: American Cultures & Communities, Social & Behavioral Sciences Transferable: CSU/UC

HIST 17A HISTORY OF THE UNITED 4 Units **STATES TO 1815**

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

History of North America and the United States up to 1815. Survey of the political, economic, intellectual and social antecedents of United States culture with emphasis on the interactions of peoples and ideas that led to the creation and evolution of the early United States.

Transferable: CSU/UC FHGE: Social & Behavioral Sciences

HIST 17B HISTORY OF THE UNITED 4 Units **STATES FROM 1812 TO 1914**

Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

History of the United States from 1812 to 1914. Survey of the political, economic, cultural and social development of the United States with emphasis on its contentious expansion into the North American west, its evolution as an economic world power, and the conflict over the application of the ideals of freedom and equality across race, class and gender lines.

FHGE: Social & Behavioral Sciences Transferable: CSU/UC

HIST 17C HISTORY OF THE UNITED 4 Units **STATES FROM 1914 TO THE** PRESENT

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in HIST 17CH. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

251

4 hours lecture. (48 hours total per quarter.)

History of the United States from 1914 to the present. Survey of the political, economic, social and cultural development of the United States with emphasis on the country's evolving involvement in world affairs and increasing struggle to achieve civil rights for all Americans.

FHGE: Social & Behavioral Sciences

Transferable: CSU/UC

COURSE CATALOG 2020-2021



4 Units

HIST 17CH HONORS HISTORY OF THE

UNITED STATES FROM 1914 TO THE PRESENT Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant.

Advisory: Not open to students with credit in HIST 17C. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

History of the United States from 1914 to the present. Survey of the political, economic, social and cultural development of the United States with emphasis on the country's evolving involvement in world affairs and increasing struggle to achieve civil rights for all Americans. As an honors course, it is a full thematic seminar with advanced teaching methods focusing on major writing, reading, and research assignments, student class lectures, group discussions and interactions. Transferable: CSU/UC

FHGE: Social & Behavioral Sciences

INTRODUCTION TO MIDDLE HIST 18 4 Units **EASTERN CIVILIZATION**

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Civilization of the Middle East. History of the region, concentrating on the 19th and 20th and 21st centuries. European colonization, culture, institutions and religion. Political, economic, and social development of the area. **FHGE: Social & Behavioral Sciences** Transferable: CSU/UC

HISTORY OF ASIA:

CHINA/JAPAN Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

HIST 19

4 hours lecture. (48 hours total per quarter.)

Political, social and economic development of China and Japan. Emphasis on impact of Western culture and problems of political and economic modernization.

FHGE: Non-GE Applicable

Transferable: CSU/UC

HIST 20 **HISTORY OF RUSSIA &**

THE SOVIET UNION Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Russian political and social development from the 10th Century to present. Emphasis on post-revolutionary Russia and problems of authoritarian modernization, independence, political and economic integration and industrialization.

FHGE: Social & Behavioral Sciences

Transferable: CSU/UC

HIST 54H

4 Units

4 Units

4 Units

252

HONORS INSTITUTE SEMINAR IN HISTORY

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant.

Advisory: Not open to students with credit in HIST 34 or 34H.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

A seminar in directed readings, discussions and projects in history. Specific topics to be determined by the instructor in consultation with the individual student.

FHGE: Non-GE Applicable

Transferable: CSU

HUMANITIES

Business and Social Sciences 650.949.7322 foothill.edu/humanities/

HUMN 1	CULTURES, CIVILIZATIONS	4 Units
	& IDEAS: THE ANCIENT WORLD	
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Degree & Credit Status: Degree-applicable credit course Advisory: One of the following: ENGL 1A, 1AH, or 1S & 1T; not open to students with credit in HUMN 1A or 1H.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

An interdisciplinary and thematic approach to the history of human culture and ideas. Major eras covered include Mesopotamia, Egypt, China's Han and Tang Dynasties, India's Gupta Empire, Japan's Nara Period, Ancient Greece, Ancient Rome and the Flowering of World Religions. Class discussions, projects and lectures address the development of worldviews, moral and ethical values and the arts in civilizations across the globe and throughout time. **FHGE: Humanities** Transferable: CSU/UC

HONORS CULTURES, HUMN 1H 4 Units **CIVILIZATIONS & IDEAS: THE ANCIENT WORLD**

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Honors Institute participant.

Advisory: One of the following: ENGL 1A, 1AH, or 1S & 1T; not open to students with credit in HUMN 1 or 1A.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

An interdisciplinary and thematic approach to the history of human culture and ideas. Major areas covered include Mesopotamia, Ancient Egypt, China's Han and Tang Dynasties, India's Indus Valley Civilization, the Olmec Civilization of Meso-America, Ancient Greece, and Ancient Rome, as well as the Flowering of World Religions. As an honors course, this is a full seminar with advanced teaching methods focusing on major writing, reading and research assignments, student class presentations, group discussions and interactions. **FHGE: Humanities**

Transferable: CSU/UC

HUMN 2

CULTURES, CIVILIZATIONS 4 Units

& IDEAS: OF EMPIRES & CONFLICT

Degree & Credit Status: Degree-applicable credit course Advisory: One of the following: ENGL 1A, 1AH, or 1S & 1T; not open to students with credit in HUMN 1B.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

An interdisciplinary and thematic approach to the history of human culture and ideas. Major eras covered include India's Pala Empire, China's Song and Ming Dynasty, the Mongol Empire, Japan's Muromachi Period, Culture, the people and empires of North, Central and South America, the Islamic Golden Age and the European Middle Ages. Class discussions, projects and lectures address the development of worldviews, moral and ethical values and the arts in civilizations across the globe and throughout time. **FHGE: Humanities** Transferable: CSU/UC

HUMN 3 WORLD MYTHS IN LITERATURE 4 Units **ARTS & FILM**

Degree & Credit Status: Degree-applicable credit course

Advisory: One of the following: ENGL 1A, 1AH, or 1S & 1T strongly recommended; not open to students with credit in HUMN 3H.

Grade Type: Letter Grade Only

Not Repeatable.

4 hours lecture. (48 hours total per guarter.)

An in-depth study of myths and legends, including, but not limited to, those from ancient Mesopotamia, classical Greece and Rome, Asia, India, Africa, Europe, and the indigenous Americas, and their adaptation in literature, art and film. The course traces both the function and influence of myths from diverse cultural contexts on our understanding of the past and our experience of modern/popular culture.

FHGE: Humanities Transferable: CSU/UC

HUMN 3H HONORS WORLD MYTHS IN 4 Units LITERATURE ARTS & FILM

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Honors Institute participant.

Advisory: Not open to students with credit in HUMN 3. Grade Type: Letter Grade Only Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

An in-depth study of myths and legends, including, but not limited to, those from ancient Mesopotamia, classical Greece and Rome, Asia, India, Africa, Europe, and the indigenous Americas, and their adaptation in literature, art and film. The course traces both the function and influence of myths from diverse cultural contexts on our understanding of the past and our experience of modern/popular culture. As an honors course, it is a full seminar with advanced teaching methods focusing on major writing, reading and research assignments, student class presentations, group discussions and interactions.

Transferable: CSU/UC FHGE: Humanities

HUMN 4 **TRAUMA & THE ARTS**

4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: One of the following: ENGL 1A, 1AH, or 1S & 1T strongly recommended; not open to students with credit in HUMN 4H.

Grade Type: Letter Grade Only

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

This course applies theories of trauma to representations of trauma and violence in the visual arts, literature, film and music with an emphasis on the transformative potential of the creative process. Topics include the representation of war, genocide and racism. Students will gain acuity to identify, understand, empathize, and respond to traumatic subjectivity, its images and artistic as well as social intent.

FHGE: Humanities Transferable: CSU/UC

HUMN 4H **HONORS TRAUMA & THE ARTS**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant.

Advisory: Not open to students with credit in HUMN 4. Grade Type: Letter Grade Only

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

This course applies theories of trauma to representations of trauma and violence in the visual arts, literature, film and music with an emphasis on the transformative potential of the creative process. Topics include the representation of war, genocide and racism. Students will gain acuity to identify, understand, empathize, and respond to traumatic subjectivity, its images and artistic as well as social intent. As an honors course, it is a full seminar with advanced teaching methods focusing on major writing, reading and research assignments, student class presentations, group discussions and interactions. **FHGE: Humanities**

CULTURES, CIVILIZATIONS

Transferable: CSU/UC

4 Units

4 Units

& IDEAS: THE MODERN WORLD

Degree & Credit Status: Degree-applicable credit course Advisory: One of the following: ENGL 1A, 1AH, or 1S & 1T; not open to students with credit in HUMN 5H. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

HUMN 5

4 hours lecture. (48 hours total per quarter.)

An interdisciplinary and thematic approach to the history of human culture and ideas. Major eras covered include the Renaissance, the Age of Encounters, the Enlightenment, the Romantic Period, the Industrial Revolution and the dark legacy of Colonialism. Class discussions, projects and lectures address the development of worldviews, moral and ethical values and the arts in civilizations across the globe and throughout time. FHGE: Humanities Transferable: CSU/UC

HONORS CULTURES, HUMN 5H **CIVILIZATIONS & IDEAS: THE MODERN WORLD** Degree & Credit Status: Degree-applicable credit course

Prerequisite: Honors Institute participant.

Advisory: One of the following: ENGL 1A, 1AH, or 1S & 1T; not open to students with credit in HUMN 5.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

An interdisciplinary and thematic approach to the history of human culture and ideas. Major eras covered include China's Qing Dynasty, the people and Empires of North, South and Central America, the Renaissance, the Age of Encounters, the Enlightenment, the Ottoman Empire, the Romantic Period and the Industrial Revolution. As an honors course, this is a full seminar with advanced teaching methods focusing on major writing, reading and research assignments, student class presentations, group discussions and interactions.

FHGE: Humanities

Transferable: CSU/UC

THE SHOCK OF THE NEW: FROM THE MODERN TO THE CONTEMPORARY

Degree & Credit Status: Degree-applicable credit course Advisory: One of the following: ENGL 1A, 1AH, or 1S & 1T. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

An interdisciplinary and thematic approach to the history of human culture and ideas. Major eras covered include: Modernity (from cubism and expressionism to jazz and film), the Soviet Union and Nazi Germany, the Atomic Age, Post-Colonialism (India, Africa, Latin America, the Middle East), Post Modernity, and the Digital Age. Class discussions, projects and lectures address the development of worldviews, moral and ethical values and the arts in Asia, Europe, the Americas and Africa throughout the 20th Century and beyond.

FHGE: Humanities

Transferable: CSU/UC

HUMN 7

HUMN 6

GLOBAL RELIGIONS: **CONTEMPORARY PRACTICES** & PERSPECTIVES

Degree & Credit Status: Degree-applicable credit course Advisory: One of the following: ENGL 1A, 1AH, or 1S & 1T; not open to students with credit in HUMN 7H.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Interdisciplinary course that explores how religions shape our understanding of diverse topics such as human rights, war, peace, globalization and science as well as music, sport, humor, film and the visual arts. Course eschews a focus on a specific tradition (i.e. Western or Eastern religions), and instead examines the inter-relationship between religion and human meaning creation through the specific lenses of ethics, aesthetics and politics. **FHGE: Humanities** Transferable: CSU/UC

HUMN 7H

HONORS GLOBAL RELIGIONS: 4 Units CONTEMPORARY PRACTICES & PERSPECTIVES

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant. Advisory: Not open to students with credit in HUMN 7. Grade Type: Letter Grade Only Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Interdisciplinary course that explores how religions shape our understanding of diverse topics such as human rights, war, peace, globalization and science as well as music, sport, humor, film and the visual arts. Course eschews a focus on a specific tradition (e.g., Western or Eastern religions), and instead examines the inter-relationship between religion and human meaning creation through the specific lenses of ethics, aesthetics and politics. As an honors course, it is a full seminar with advanced teaching methods focusing on major writing, reading and research assignments, student class presentations, group discussions and interactions.

FHGE: Humanities Transferable: CSU/UC

4 Units HUMN 8

EX MACHINA: THE PARADOX OF BEING HUMAN IN THE DIGITAL AGE

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in HUMN 58. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

FHGE: Humanities

4 Units

4 hours lecture. (48 hours total per guarter.)

An inquiry into reality and human culture as a co-construct between technology and art. Through the study of film, video games and other cultural products, the course traces how social media and artificial intelligence challenge our understanding of what it means to be human and how social engagement in the digital age is altered by the acceleration of time and the collapse of space.

Transferable: CSU/UC

ONCE UPON A TIME? THE HUMN 9 4 Units **IMMORTAL LURE OF FAIRY** TALES

Degree & Credit Status: Degree-applicable credit course Advisory: One of the following: ENGL 1A, 1AH, or 1S & 1T strongly recommended.

Grade Type: Letter Grade Only

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Interdisciplinary exploration of the origins, structure and function of fairy tales and their enduring influence on contemporary art, film, and gaming. Examines how the fairy tale and its multi-cultural variants dynamically give voice to the universally shared human experience. Interdisciplinary strategies are employed to trace the impact of fairy tales on science fiction, fantasy, dystopia, and horror.

FHGE: Humanities Transferable: CSU/UC

HUMN 44H **HONORS ART & TRANSGRESSION: THE** HOLOCAUST IN THE LITERARY IMAGINATION

2 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant. Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

When Theodor Adorno claimed that "Writing Poetry after Auschwitz is barbaric," he challenged us to reflect upon the dangers that come with artistic representation. This course traces how art mediates our encounters with history by examining the role of art in shaping our understanding of the Holocaust. Specifically the course examines art's complicity in utilizing the Holocaust for national and political interests and art's ability to provide a space that affords us to behold a realm beyond reason.

Transferable: CSU/UC FHGE: Non-GE Applicable

HONORS INSTITUTE SEMINAR HUMN 54H 1 Unit IN HUMANITIES

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Honors Institute participant. Advisory: Not open to students with credit in HUMN 34 or 34H.

Grade Type: Letter Grade Only

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

A seminar in directed readings, discussions, and projects in humanities. Specific topics to be determined by the instructor. FHGE: Non-GE Applicable

Transferable: CSU

INSTALLER TECHNICIAN SOUND & COMMUNI-CATION

Apprenticeship 650.949.7208 foothill.edu/apprenticeships/ **ITSC 101** STRUCTURED CABLING .5 Units **ESSENTIALS** Degree & Credit Status: Degree-applicable credit course Prerequisite: Completion of recognized sound and communication apprenticeship or equivalent and recent employment as an installer/technician in the sound and communication industry. Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 15 hours total: 9 hours lecture, 6 hours laboratory. Covers the essentials in structured cabling, including telephony, industry standards, performance, and wiring. FHGE: Non-GE Applicable **Transferable: None ITSC 105** FIBER 1 1 Unit Degree & Credit Status: Degree-applicable credit course Prerequisite: Completion of recognized sound and communication apprenticeship or equivalent and recent employment as an installer/technician in the sound and communication industry. Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 15 hours lecture total. Covers safety involved with optical cable, optical cable terms, communications over optical cable, fiber optic cable types, bandwidth performance, the effects of attenuation, fiber optic termination, splices, and types of connectors. FHGE: Non-GE Applicable **Transferable: None ITSC 106** FIBER 2 .5 Units Degree & Credit Status: Degree-applicable credit course Prerequisite: Completion of recognized sound and communication appren-

ticeship or equivalent and recent employment as an installer/technician in the sound and communication industry. Advisory: ITSC 105.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

17 hours total: 8 hours lecture, 9 hours laboratory.

Covers fiber optic transmission, testing, networks, installation and testing practices.

FHGE: Non-GE Applicable

ELECTRICAL THEORY ESSENTIALS

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Completion of recognized sound and communication apprenticeship or equivalent and recent employment as an installer/technician in the sound and communication industry.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

ITSC 110

26 hours total: 12 hours lecture, 14 hours laboratory.

Covers the basics of electrical circuits, how electricity works, how to calculate and measure voltage, current, resistance and power in a series and/or parallel circuit.

FHGE: Non-GE Applicable

Transferable: None

Transferable: None

ITSC 113 MASTER CLOCKS

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Completion of recognized sound and communication apprenticeship or equivalent and recent employment as an installer/technician in the sound and communication industry.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

9 hours total: 6 hours lecture, 3 hours laboratory.

Covers the theory and installation of a master clock system. Lessons include: types of clocks, wired clocks, wireless clocks, clock syncing, and advanced clocks.

FHGE: Non-GE Applicable

Transferable: None

ITSC 114 NURSE CALL SYSTEMS

.5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Completion of recognized sound and communication apprenticeship or equivalent and recent employment as an installer/technician in the sound and communication industry.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

12 hours total: 6 hours lecture, 6 hours laboratory.

Covers the theory and installation of a nurse call system. Lessons include: components, ancillary systems, and working in a healthcare environment. FHGE: Non-GE Applicable **Transferable: None**

ITSC 115	COMPUTER LITERACY 1	.5 Units
	(MICROSOFT WORD &	
	EXCEL)	

Degree & Credit Status: Degree-applicable credit course Prerequisite: Completion of recognized sound and communication apprenticeship or equivalent and recent employment as an installer/technician in the sound and communication industry.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

12 hours total: 6 hours lecture, 6 hours laboratory.

Covers the fundamentals of Microsoft Word and Excel; how to navigate the software, write, edit, format, create spreadsheets and use formulas. FHGE: Non-GE Applicable **Transferable: None**

FIRE ALARM ESSENTIALS .5 Units **ITSC 123**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Completion of recognized sound and communication apprenticeship or equivalent and recent employment as an installer/technician in the sound and communication industry. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 Unit

21 hours total: 6 hours lecture, 15 hours laboratory.

Covers the essentials of fire alarm systems, including fundamentals, general requirements, fire alarm circuits, and wiring.

FHGE: Non-GE Applicable **Transferable:** None

ITSC 125 PAGING SYSTEMS

.5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Completion of recognized sound and communication apprenticeship or equivalent and recent employment as an installer/technician in

the sound and communication industry. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

9 hours total: 6 hours lecture, 3 hours laboratory.

Covers the essentials of paging systems, including functionality, components and how to wire/install.

FHGE: Non-GE Applicable

.5 Units

•	•	VIDEO opplicable credit course gnized sound and communica	1 Unit	IN'
ticeship or equi the sound and c	valent and recent communication ind ter Grade or Pass/	employment as an installer/† lustry.	technician in	Biolog foothil
21 hours total: 1	4 hours lecture, 7	hours laboratory. ents, and installation of netv		IDS 3
systems. FHGE: Non-GE	Applicable	Transferable: None		Degree Grade Not Re
Prerequisite: Co ticeship or equi the sound and o Grade Type: Let Not Repeatable 12 hours total: 8 Covers the appl	ompletion of recognation valent and recent communication inc ter Grade or Pass/ B hours lecture, 4 l icable standards, p llation of intrusion	applicable credit course gnized sound and communic employment as an installer/ lustry. 'No Pass hours laboratory. preventing false alarms, comp	ation appren- technician in ponents,	5 hour This cc how it and me tion of of curr opmer Genera Baccal in the FHGE:
Prerequisite: Co ticeship or equi the sound and c Grade Type: Let Not Repeatable	t Status: Degree-a ompletion of record valent and recent communication inc ter Grade or Pass/	'No Pass	technician in	IN Busine 650.94
Covers the cate	ccess control syste	ts, credentials, types of lock	-	ITRN Degree Grade Not Re
ITSC 132	AUDIO VIS	UAL ESSENTIALS	1 Unit	3 hour

AUDIO VISUAL ESSENTIALS **ITSC 132**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Completion of recognized sound and communication apprenticeship or equivalent and recent employment as an installer/technician in the sound and communication industry.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

18 hours total: 12 hours lecture, 5 hours laboratory.

Covers analog and digital signals, basics of sound, microphones, amplifiers, speakers, video signals, and projection technology. FHGE: Non-GE Applicable Transferable: None

ITSC 134

BLUEPRINTS, LEED, TITLE 24

Degree & Credit Status: Degree-applicable credit course Prerequisite: Completion of recognized sound and communication apprenticeship or equivalent and recent employment as an installer/technician in the sound and communication industry.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

9 hours total: 6 hours lecture, 3 hours laboratory.

Covers reading blueprints, Leadership in Energy and Environmental Design (LEED), and energy efficiency standards. **Transferable: None**

FHGE: Non-GE Applicable

TERDISCIPLINARY STUDIES

gical and Health Sciences ill.edu

300 RESEARCH METHODOLOGY FOR 5 Units HEALTH PROFESSIONALS

ee & Credit Status: Degree-applicable credit course e Type: Letter Grade Only

Repeatable.

rs lecture. (60 hours total per quarter.)

ourse is designed to introduce students to the research process and applies to evidence-based patient care. Emphasis on research design ethods, scientific databases and evidence-based resources. Applicaf research methods and statistical techniques to the critical evaluation rrent scientific literature. Evidence-based decision making and develnt of critical thinking skills will be discussed. This is an upper division ral Education course, intended for students in the Dental Hygiene alaureate Degree Program; enrollment is limited to students accepted program.

: Upper Division

Transferable: CSU

TERNSHIP

ness and Social Sciences 49.7793 foothill.edu

50

INTERNSHIP

1 Unit

ee & Credit Status: Degree-applicable credit course e Type: Letter Grade or Pass/No Pass Repeatable.

3 hours laboratory. (36 hours total per quarter.)

The internship is a structured worked experience with an organization or company external to the classroom. This activity primarily involves the student and faculty working with a third party. The primary management of the student's activities and the majority of the evaluation score is done by the third party offsite supervisor. The internship will address professional workplace skills in addition to targeted technical skills as appropriate. Faculty works with the offsite supervisor to create an internship that is targeted at the student's skill level. The student will meet with their faculty supervisor 2-3 times per quarter to discuss 21st century skills, issues of discipline, professionalism, application of technical skills and professional code of ethics. The student is required to contract with faculty to determine the type and scope of the assignment.

FHGE: Non-GE Applicable

Transferable: CSU

.5 Units

ITSC 127 CATV/DAS Degree & Credit Status: Degree-applicable credit course

Not Repeatable.

FHGE: Non-GE Applicable

the sound and communication industry.

Grade Type: Letter Grade or Pass/No Pass

12 hours total: 7 hours lecture, 5 hours laboratory.

and Distributed Antenna Systems (CATV/DAS) system.

Prerequisite: Completion of recognized sound and communication appren-

ticeship or equivalent and recent employment as an installer/technician in

Covers the basic structure, cabling, tools, connectors and terminations,

hardware, headend equipment and testing of a Closed Antenna Television

Transferable: None

.5 Units

ITRN 51

INTERNSHIP

2 Units

3 Units

4 Units

257

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

6 hours laboratory. (72 hours total per quarter.)

The internship is a structured worked experience with an organization or company external to the classroom. This activity primarily involves the student and faculty working with a third party. The primary management of the student's activities and the majority of the evaluation score is done by the third party offsite supervisor. The internship will address professional workplace skills in addition to targeted technical skills as appropriate. Faculty works with the offsite supervisor to create an internship that is targeted at the student's skill level. The student will meet with their faculty supervisor 2-3 times per quarter to discuss 21st century skills, issues of discipline, professionalism, application of technical skills and professional code of ethics. The student is required to contract with faculty to determine the type and scope of the assignment. Transferable: CSU

FHGE: Non-GE Applicable

ITRN 52

INTERNSHIP Degree & Credit Status: Degree-applicable credit course

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

9 hours laboratory. (108 hours total per quarter.)

The internship is a structured worked experience with an organization or company external to the classroom. This activity primarily involves the student and faculty working with a third party. The primary management of the student's activities and the majority of the evaluation score is done by the third party offsite supervisor. The internship will address professional workplace skills in addition to targeted technical skills as appropriate. Faculty works with the offsite supervisor to create an internship that is targeted at the student's skill level. The student will meet with their faculty supervisor 2-3 times per quarter to discuss 21st century skills, issues of discipline, professionalism, application of technical skills and professional code of ethics. The student is required to contract with faculty to determine the type and scope of the assignment. Transferable: CSU

FHGE: Non-GE Applicable

ITRN 53 INTERNSHIP

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

12 hours laboratory. (144 hours total per quarter.)

The internship is a structured worked experience with an organization or company external to the classroom. This activity primarily involves the student and faculty working with a third party. The primary management of the student's activities and the majority of the evaluation score is done by the third party offsite supervisor. The internship will address professional workplace skills in addition to targeted technical skills as appropriate. Faculty works with the offsite supervisor to create an internship that is targeted at the student's skill level. The student will meet with their faculty supervisor 2-3 times per quarter to discuss 21st century skills, issues of discipline, professionalism, application of technical skills and professional code of ethics. The student is required to contract with faculty to determine the type and scope of the assignment.

FHGE: Non-GE Applicable

Transferable: CSU

ITRN 54 INTERNSHIP

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

15 hours laboratory. (180 hours total per guarter.)

The internship is a structured worked experience with an organization or company external to the classroom. This activity primarily involves the student and faculty working with a third party. The primary management of the student's activities and the majority of the evaluation score is done by the third party offsite supervisor. The internship will address professional workplace skills in addition to targeted technical skills as appropriate. Faculty works with the offsite supervisor to create an internship that is targeted at the student's skill level. The student will meet with their faculty supervisor 2-3 times per quarter to discuss 21st century skills, issues of discipline, professionalism, application of technical skills and professional code of ethics. The student is required to contract with faculty to determine the type and scope of the assignment. Transferable: CSU

FHGE: Non-GE Applicable

JAPANESE

Language Arts 650.949.7043 foothill.edu/japanese/

For information on clearing a foreign language prerequisite, please contact the Student & Faculty Support center at FHGetHelp@ fhda.edu.

JAPN 1	ELEMENTARY JAPANESE I	5 Units
Degree & Cre	dit Status: Degree-applicable credit course	
Grade Type: L	etter Grade or Pass/No Pass	
Not Repeatab	le.	
5 hours lectur	e. (60 hours total per quarter.)	
Oral and writt	en practice in the minimum competencies in la	anguage
functions: voo	cabulary essential to basic communicative situa	tions, grammar
-		

necessary for carrying out functions, signals for carrying out communicative tasks, and cultural skills in specific situations. Introduction to Hiragana, Katakana and about 80 Kanji. FHGE: Non-GE Applicable Transferable: CSU/UC

JAPN 2 ELEMENTARY JAPANESE II

Degree & Credit Status: Degree-applicable credit course Prerequisite: JAPN 1 or equivalent.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Further development of material presented in JAPN 1. Oral and written practice in competencies in language functions: vocabulary essential to daily communicative situations, grammar necessary for carrying out functions, signals for carrying out communicative tasks, and cultural skills in specific situations. Distinguishing formal and informal styles. Additional 120 Kanji pronunciation and recognition.

FHGE: Non-GE Applicable

Transferable: CSU/UC

5 Units

JAPN 3 ELEMENTARY JAPANESE III

Degree & Credit Status: Degree-applicable credit course Prerequisite: JAPN 2 or equivalent. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Further development of material presented in JAPN 1 & 2. Oral and written practice in competencies in language functions: vocabulary essential to daily communicative situations, grammar necessary for carrying out various functions, signals for carrying out communicative tasks, and cultural skills in specific situations. Distinguishing formal and informal styles, and using honorifics. Making suppositions. Additional 120 Kanji pronunciation and recognition.

FHGE: Non-GE Applicable Transferable: CSU/UC

JAPN 4 INTERMEDIATE JAPANESE I Degree & Credit Status: Degree-applicable credit course Prerequisite: JAPN 3 or equivalent. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Continuation of JAPN 3. Review of grammar and discussion of grammatical features beyond the elementary level. Introduction to intermediate-level grammar and communicative tasks. Intensive oral and written drills, including additional 110 Kanji, in idiomatic constructions. Composition, conversation and selected readings.

FHGE: Non-GE Applicable Transferable: CSU/UC

JAPN 5 INTERMEDIATE JAPANESE II Degree & Credit Status: Degree-applicable credit course Prerequisite: JAPN 4 or equivalent.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Continuation of JAPN 4. Development of intermediate-level grammatical structures and communicative tasks. Further practice in intensive oral and written drills, including additional 150 Kanji, in idiomatic constructions. Composition, conversation and selected readings. Differentiating socio-linguistic features, such as honorifics, feminine and masculine styles. Cultural skills to carry out tasks.

FHGE: Non-GE Applicable

Transferable: CSU/UC

INTERMEDIATE JAPANESE III **JAPN 6**

Degree & Credit Status: Degree-applicable credit course Prerequisite: JAPN 5.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Continuation of JAPN 5. Further development of intermediate-level grammatical structures and communicative tasks. Intensive and extensive oral and written drills, including 230 more Kanji, in idiomatic constructions. Composition, conversation and selected readings. Further competency in correct language usage in different socio-linguistic features of speech. Stating and supporting opinions on both concrete and abstract topics. Cultural skills to carry out tasks.

FHGE: Non-GE Applicable

Transferable: CSU/UC

JAPN 13A INTERMEDIATE CONVERSATION I 4 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: JAPN 3.

Advisory: May be taken concurrently with JAPN 4.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Speaking and listening experience in culturally appropriate ways. Special emphasis on correct perception and speaking, and familiarity with oral idioms and grammar as they differ from more formal written and literary uses. Development of critical thinking skills by comparing different viewpoints and different values of diverse cultures. Development of listening and speaking skills by exploring various forms of authentic materials, such as current news media, formal and informal conversations. Understanding ambiguities, vagaries, and value inherent in the target language. FHGE: Non-GE Applicable Transferable: CSU/UC

INTERMEDIATE CONVERSATION II **JAPN 13B** 4 Units

Degree & Credit Status: Degree-applicable credit course

Prerequisite: JAPN 13A.

Advisory: May be taken concurrently with JAPN 5. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Continuation of JAPN 13A. Speaking and listening experience in an environment of increasingly challenging language situation in culturally appropriate ways. Special emphasis on rapidity of correct perception and speaking, acquaintance with a variety of native dialects, and familiarity with oral idioms and grammar as they differ from more formal written and literary uses. Development of critical thinking skills by comparing different viewpoints and different values of diverse cultures. Development of listening and speaking skills by exploring various forms of authentic materials, such as current news media, political speech, and debates. Stating and supporting opinions on various topics. Understanding ambiguities, vagaries, and value inherent in the target language.

FHGE: Non-GE Applicable

Transferable: CSU/UC

4 Units

ADVANCED CONVERSATION I JAPN 14A

Degree & Credit Status: Degree-applicable credit course Prerequisite: JAPN 13B.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Development of fluency in the oral/aural language, and cultural skills required in socio-linguistic functions, e.g., honorifics, in-group/out-group, male/female, and formal/informal expressions. Development of critical thinking skills by comparing different viewpoints and different values of diverse cultures. Development of listening and speaking skills by exploring various forms of authentic materials, such as current news media, political speech, debates, and drama. Stating and supporting opinions on various topics, including abstract concepts. Understanding and appreciating ambiguities, vagaries, and value inherent in the target language.

FHGE: Humanities Transferable: CSU/UC

5 Units

5 Units

5 Units

5 Units

JAPN 14B ADVANCED CONVERSATION II

Degree & Credit Status: Degree-applicable credit course

Prerequisite: JAPN 14A. Advisory: May be taken concurrently with JAPN 6. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Continuation of JAPN 14A. Development of advanced level of oral/aural fluency in the language, and cultural skills required in socio-linguistic functions. Stating and supporting opinions on complex, abstract topics. Analyzing and hypothesizing. Understanding cultural differences, persuading, negotiating, and giving speech in formal settings. Development of critical thinking skills by comparing different viewpoints and different values of diverse cultures. Development of listening and speaking skills by exploring various forms of authentic materials, such as current news media, debates on various issues, and drama.

FHGE: Humanities Transfe

Transferable: CSU/UC

JAPN 101A

JAPANESE LANGUAGE PROFICIENCY TEST PREPARATION I

Degree & Credit Status: Degree-applicable credit course Advisory: JAPN 3 or equivalent. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

This course is designed to help prepare students for the Japanese Language Proficiency Test (JLPT) N4 level and aims at enabling students to pass the JLPT N4 level. Students will comprehensively expand their proficiency in Japanese and increase ability to use the knowledge in actual communication. Covers vocabulary, Kanji, grammar, reading comprehension and listening comprehension related to the JLPT N4 level. Special emphasis is placed on reading and listening comprehension. Students will also learn a strategy to pass the JLPT N4 level.

FHGE: Non-GE Applicable

Transferable: None

JAPN 101B

JAPANESE LANGUAGE PROFICIENCY TEST

Degree & Credit Status: Degree-applicable credit course Advisory: JAPN 101A or equivalent. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

PREPARATION II

4 hours lecture. (48 hours total per quarter.)

Continuation of JAPN 101A, this course aims at enabling students to pass the Japanese Language Proficiency Test (JLPT) N4 level. Development of intermediate level of reading and listening skills by understanding a more complex range of information. Reading and listening skills and ability to use the knowledge in actual communication are to be developed through classroom activities and homework assignments. Special emphasis is placed on rapidity of correct perception and acquaintance with a variety of native dialects, and familiarity with oral idioms and grammar. Students will also learn a strategy to pass the JLPT N4 level.

FHGE: Non-GE Applicable

Transferable: None

4 Units

4 Units

259

JAPANESE LANGUAGE PROFICIENCY TEST PREPARATION III

Degree & Credit Status: Degree-applicable credit course Advisory: JAPN 101B or equivalent. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Continuation of JAPN 101B, this course aims at enabling students to pass the Japanese Language Proficiency Test (JLPT) N4 level. Further development of intermediate level of reading and listening by increasing vocabulary and by understanding socio-linguistic features, such as honorific verbs and extra-modest expressions. Reading and listening experience in an environment of increasingly challenging language situations. Students will gain a high level of communicative competence and continue to learn Kanji. Students will also learn a strategy to pass the JLPT N4 level. FHGE: Non-GE Applicable Transferable: None

JAPN 101D	JAPANESE LANGUAGE	4 Units
	PROFICIENCY TEST	
	PREPARATION IV	
Degree & Credit Sta	atus: Degree-applicable credit course	
Advisory: JAPN 101C or equivalent.		
Grade Type: Letter Grade or Pass/No Pass		

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Continuation of JAPN 101C, this course aims at enabling students to pass the Japanese Language Proficiency Test (JLPT) N4 level, as well as helps prepare students for the JLPT N3 level. Development of advanced level of reading and listening skills by understanding a more abstract range of information relating to high-frequency situations and by exploring various forms of authentic materials, such as current news media and drama. Students will gain a high level of communicative competence and continue to learn Kanji. Students will also learn a strategy to pass the JLPT N3 level and N4 level. **FHGE: Non-GE Applicable Transferable: None**

JAPN 192 COMMUNITY SERVICE LEARNING FOR JAPANESE Degree & Credit Status: Degree-applicable credit course

Advisory: Completion of JAPN 6 or equivalent. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

For students who desire training in experiential learning as community volunteers in Japanese language courses. The students enrolled in this course will assist the instructor as in-class Japanese language tutors.

FHGE: Non-GE Applicable Transferable: None

1 Unit

JOURNALISM

Fine Arts and Communication 650.949.7262 foothill.edu

JRNL 22A INTRODUCTION TO REPORTING 5 Units & NEWSWRITING

Degree & Credit Status: Degree-applicable credit course Advisory: ENGL 1A, 1AH, or 1S & 1T; not open to students with credit in JRNL 52A.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.)

An introduction to gathering, synthesizing/organizing and writing news in journalistic style across multiple platforms. Includes role of the journalist and related legal and ethical issues, including instruction and practice in reporting and the fundamentals of news writing for media, with analysis of typical news stories. Concentration on the language and style of news writing; organization and structure of news stories; the lead and the basic story types. Students will report and write based on their original interviews and research to produce news content. Experiences may include covering speeches, meetings, and other events, writing under deadline and use of AP Style.

FHGE: Non-GE Applicable

Transferable: CSU/UC

5 Units

JRNL 22B

INTERMEDIATE

REPORTING/NEWSWRITING Degree & Credit Status: Degree-applicable credit course

Advisory: ENGL 1A, 1AH, or 1S & 1T; not open to students with credit in JRNL 21A.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.)

This course is a continuation of the introductory newswriting/reporting course (JRNL 22A) and focuses on coverage of public affairs beats, including local and regional government, police, courts, and school and city boards. Fundamentals in feature writing for newspapers, magazines and other media with instruction and practice in profile, human interest, consumer and interpretive news features. It includes both on- and off-campus reporting and writing/news presentation for a variety of news purposes and through multiple platforms with practical experience in interviewing, writing special story types and revising.

FHGE: Non-GE Applicable

Transferable: CSU/UC

JRNL 53A STUDENT MEDIA PRACTICUM I 5 Units

Degree & Credit Status: Degree-applicable credit course Advisory: ENGL 1A, 1AH, or 1S & 1T; not open to students with credit in JRNL 49.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 6 hours laboratory. (108 hours total per quarter.)

Provides practical experience in creating basic news and feature content as members of the college newspaper, magazine or online media staff, which includes a lab that regularly produces a news or feature non-fiction product with a journalism emphasis by and for students and distributed to a campus or community audience. Must include weekly news assignments. May include a variety of student media across multiple platforms, including print, broadcast, and online. Includes practical experience in design/layout, visual, online, multimedia journalism, and emerging technologies. Must be student-produced with student leadership.

FHGE: Non-GE Applicable Transferable: CSU

JRNL 53B STUDENT MEDIA PRACTICUM II 5 Units

Degree & Credit Status: Degree-applicable credit course Advisory: ENGL 1A, 1AH, or 1S & 1T; not open to students with credit in JRNL 25.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2 hours lecture, 9 hours laboratory. (132 hours total per quarter.)

This course provides practical experience in creating longer and complex news, feature and visual content as a member of the college newspaper, magazine or online media staff, requiring higher skill level and/or leadership/management involvement than JRNL 53A. Intermediate student media practicum includes a lab that regularly produces a news or feature non-fiction product with a journalism emphasis by and for students and distributed to a campus or community audience. Must include weekly news assignments. May include a variety of student media across multiple platforms, including print, broadcast, and online. Includes practical experience in design/layout, visual, online, multimedia journalism, emerging technologies and leadership/management. Must be student-produced with student leadership.

FHGE: Non-GE Applicable Transferable: CSU

JRNL 60	EDITORIAL LEADERSHIP FOR	2 Units
	STUDENT NEWS MEDIA	
Degree & Cred	it Status: Degree-applicable credit course	
C I T I I		

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

6 hours laboratory. (72 hours total per quarter.)

Practical experience in planning, assigning, editing and placing print, video and/or web content as members of the college newspaper, magazine or media staff.

FHGE: Non-GE Applicable Transferable: CSU

JRNL 61 REPORTING FOR STUDENT 2 Units NEWS MEDIA Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 6 hours laboratory. (72 hours total per quarter.)

Practical experience contributing as a reporter to the college newspaper and/or digital media as a reporter.

FHGE: Non-GE Applicable Transferable: CSU

JRNL 62	DIGITAL PRODUCTION FOR	2 Units
	STUDENT MEDIA	
Degree & Credit S	itatus: Degree-applicable credit course	

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

6 hours laboratory. (72 hours total per quarter.) Practical experience contributing as a digital content producer to the college news media.

FHGE: Non-GE Applicable Transferable: CSU

JRNL 64 PHOTOGRAPHY FOR STUDENT 2 Units MEDIA

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

6 hours laboratory. (72 hours total per quarter.)

Practical experience contributing as a photographer to the college newspaper and/or digital media as a reporter.

FHGE: Non-GE Applicable

Transferable: CSU

JRNL 70R	INDEPENDENT STUDY IN JOURNALISM	1 Unit
JRNL 71R	JOORNALISM	2 Units

JRNL 72R		3 Units
JRNL 73R		4 Units
Degree & Credit	Status: Degree-applicable credit course	
Grade Type: Lette	er Grade Only	

Not Repeatable.

3-12 hours laboratory per week. (36-144 hours total per quarter.)

Provides an opportunity for the student to expand their studies in Journalism beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department. FHGE: Non-GE Applicable Transferable: CSU

JOURNEYPERSONS

Apprenticeship

650.949.7142 foothill.edu/apprenticeships/

JRYM 100 BUILDING TRADES TEACHER 5 Units DEVELOPMENT

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

60 hours lecture total.

Basic principles and techniques of how to become a teacher in the local labor union trade. Actively develop communication, leadership, and presentation skills. The community learning environment will foster individuals to work individually, in partners, and groups, to comprehensively design and facilitate lecture instruction. Instruction provided to create a course syllabus, lesson plan, evaluation tools, and integrate multi-mode learning methods. Develop and demonstrate public speaking skills in an individual and group environment.

FHGE: Non-GE Applicable	Transferable: None
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JRYM 105 PROJECT MANAGEMENT DEVELOPMENT FOR

COMMERCIAL CONSTRUCTION

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

54 hours total: 18 hours lecture, 36 hours laboratory.

In this course students will learn the roles and responsibilities of a commercial construction project manager. Students will learn topics that cover the entire life cycle of a construction project. Lecture and exercises will entail pre-construction planning, estimating, project monitoring, and project closeout.

FHGE: Non-GE Applicable

Transferable: None

2.5 Units

261

JRYM 106 PROJECT MANAGEMENT DEVELOPMENT FOR

DEVELOPMENT FOR COMMERCIAL CONSTRUCTION LEVEL 2

Degree & Credit Status: Degree-applicable credit course Prerequisite: JRYM 105. Grade Type: Letter Grade Only Not Repeatable.

54 hours total: 18 hours lecture, 36 hours laboratory.

In this course students will apply the concepts learned in JRYM 105 and advance their skills. These skills will enable students to obtain work in the construction market, manage risk, and negotiate changes, as well as develop and present pre-construction interviews. Students will build on topics learned in JRYM 105 to develop advanced planning, managing, monitoring, and interpersonal skills.

FHGE: Non-GE Applicable Trai

Transferable: None

JRYM 153A AIR BALANCE TEST 1.5 Units EQUIPMENT & INSTRUMENTS FOR JOURNEYPERSONS (FIRST YEAR)

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Completion of recognized sheet metal apprenticeship or equivalent and recent employment as a journeyperson in the sheet metal industry.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

54 hours total: 6 hours lecture, 48 hours laboratory.

Development of skills necessary to use test and balance instruments and equipment for HVAC systems and automatic control systems. Use of practical mathematics and mathematical equations to measure air velocity and duct outlet, and to solve air and hydronic balancing problems. FHGE: Non-GE Applicable Transferable: None

JRYM 153B TEMPERATURE MEASUREMENT 1.5 Units INSTRUMENTS & DUCT SYSTEMS FOR JOURNEYPERSONS (FIRST YEAR)

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Completion of recognized sheet metal apprenticeship or equivalent and recent employment as a journeyperson in the sheet metal industry.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

54 hours total: 6 hours lecture, 48 hours laboratory.

Continuing study of skills necessary to test and balance instruments and equipment for HVAC systems and automatic control systems. Use of practical mathematics and mathematical equations to measure air velocity and duct outlet, and to solve air and hydronic balancing problems. FHGE: Non-GE Applicable Transferable: None

Kinesiology and Athletics

650.949.7742 foothill.edu/kinesiology/

KINS 1	INTRODUCTION TO	5 Units
	KINESIOLOGY	0 01115
Degree & Cred	lit Status: Degree-applicable credit course	
5	open to students with credit in PHED 1.	
Grade Type: Le	tter Grade or Pass/No Pass	

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Introduction to the interdisciplinary approach to the study of human movement. An overview of the importance of the sub-disciplines in kinesiology will be discussed along with career opportunities in the areas of teaching, coaching, allied health, and fitness professions.

Transferable: CSU/UC FHGE: Non-GE Applicable

KINS 2 SPORT IN SOCIETY 5 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Maximum UC credit awarded for any or all of the following courses combined is 12 units: KINS 2, 3, 8A, 8B; not open to students with credit in H P 1B or PHED 2.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Students examine the history of sports and its significance in economics and politics, and the role of race, ethnicity, culture and gender in sport and society. Students also examine specific issues, such as the emergence of professional and collegiate sports in the United States, questions of ethics, commercialization, the relationship between sports and media, the internationalization of sports, and the Olympic movement. Students will also examine youth sport and the current status of youth sport in the United States. FHGE: Social & Behavioral Sciences Transferable: CSU/UC

KINS 3

KINS 4

THEORIES & TECHNIQUES OF COACHING SPORTS

Degree & Credit Status: Degree-applicable credit course Advisory: Maximum UC credit awarded for any or all of the following courses combined is 12 units: KINS 2, 3, 8A, 8B; not open to students with credit in H P 37 or PHED 3.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Instruction to the theories and techniques of coaching sport and its variables which contribute to team performance and success. Addresses developing a coaching philosophy, sport psychology, sport pedagogy, sport physiology and sport management. Transferable: CSU/UC

FHGE: Non-GE Applicable

CONCEPTS OF PHYSICAL **FITNESS & WELLNESS**

4 Units

262

4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in PHED 4. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Study of physical fitness, training principles, nutrition and body composition, stress management, appropriate exercise and health practices with application to lifelong fitness and wellness habits.

FHGE: Lifelong Understanding

Transferable: CSU/UC

KINS 8A

THEORY & CONCEPTS OF EXERCISE PHYSIOLOGY I

Degree & Credit Status: Degree-applicable credit course Advisory: Maximum UC credit awarded for any or all of the following courses combined is 12 units: KINS 2, 3, 8A, 8B; not open to students with credit in PHED 8.

Grade Type: Letter Grade Only

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Basic concepts and principles of exercise physiology and how the human body responds to the demands of physical activity. Emphasis on anatomy and physiology of human organ systems; cardiorespiratory function; neural and hormonal control; energy systems, expenditure, and fatigue; adaptations to resistance, aerobic and anaerobic training; body composition and nutrition; and principles of training for sport. Transferable: CSU/UC

FHGE: Non-GE Applicable

KINS 8B **THEORY & CONCEPTS OF** 5 Units **EXERCISE PHYSIOLOGY II**

Degree & Credit Status: Degree-applicable credit course

Advisory: Maximum UC credit awarded for any or all of the following courses combined is 12 units: KINS 2, 3, 8A, 8B.

Grade Type: Letter Grade Only

Not Repeatable.

5 hours lecture. (60 hours total per guarter.)

Applied concepts and principles of exercise physiology and how the human body responds to the demands of physical activity. Emphasis on the impact of environmental influences, including physiological responses to exercise in the heat, cold, and at altitude; optimizing performance in sport, overtraining and detraining; body composition and nutrition; use of ergogenic aids; age and sex considerations in sport and exercise; and the implications of physical activity for health and fitness.

Transferable: CSU/UC

KINS 9

FHGE: Non-GE Applicable

BASIC NUTRITION FOR SPORTS & FITNESS

5 Units

5 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in PHED 9. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Practical application of the basic principles of nutrition and how food choices affect health and fitness. This course will provide the student with a basic understanding of how nutrition can be optimized to enhance physical performance potential and sport. "Dietary Guidelines for Americans" will be utilized to inform selection of foods that would maximize individual health. FHGE: Non-GE Applicable Transferable: CSU/UC

KINS 10

WOMEN IN SPORTS

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

This course provides students with a chronological history, analysis and interpretation of people, events, and issues that affect women in sport, in past and present day society. Physiological, sociological and psychological aspects of female athletes as related to sports, history, and education will be covered. Students will gain an understanding of the significant events of women in athletics from the past to the present and how their significance will determine the future of women in sports.

FHGE: Social & Behavioral Sciences

Transferable: CSU/UC

KINS 15 FIRST AID & CPR/AED

Degree & Credit Status: Degree-applicable credit course

Advisory: UC transfer credit is limited for some KINS courses--please see ASSIST.org for details; not open to students with credit in PHED 15 or 66. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture, 1 hour laboratory. (24 hours total per quarter.)

Provides the layperson with the knowledge and skills to respond to an emergency. Certification opportunity in First Aid and CPR/AED, CPR/AED for the Professional Rescuer, or Basic Life Support for the Healthcare Provider. FHGE: Non-GE Applicable Transferable: CSU/UC

KINS 16A PREVENTION OF ATHLETIC 3 Units INJURIES

Degree & Credit Status: Degree-applicable credit course

Advisory: Internet access to complete quizzes, discussions and assignments; not open to students with credit in H P 67A, PHED 16A or 67A. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2 hours lecture, 3 hours laboratory. (60 hours total per quarter.)

Athletic injury prevention is emphasized through pre-participation physical exams, exercise programs, preventative taping, proper fitting of equipment, and protective braces.

FHGE: Lifelong Understanding Tr	ansferable: CSU/UC
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KINS 16B EMERGENCY ATHLETIC INJURY 3 Units CARE

Degree & Credit Status: Degree-applicable credit course Advisory: Internet access to complete quizzes, discussions and assignments; not open to students with credit in H P 67B, PHED 16B or 67B. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2 hours lecture, 3 hours laboratory. (60 hours total per quarter.)

American Red Cross Standard First Aid/CPR certificates are available upon completion of the course. Basic injury recognition and emergency response of acute trauma. Practical hands-on skills are emphasized in laboratories. FHGE: Lifelong Understanding Transferable: CSU/UC

KINS 16C	TREATMENT &	3 Units
	REHABILITATION OF	
	ATHLETIC INJURIES	
D 0.0 1		

Degree & Credit Status: Degree-applicable credit course Advisory: Internet access to complete quizzes, discussions and assignments; not open to students with credit in H P 67C, PHED 16C or 67C. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture, 3 hours laboratory. (60 hours total per quarter.) Follow-up injury treatment, phases of tissue healing, and stages of rehabilitation, including therapeutic modalities.

FHGE: Lifelong Understanding Transferable: CSU/UC

FITNESS ASSESSMENT TECHNIQUES FOR THE PERSONAL TRAINER

Degree & Credit Status: Degree-applicable credit course Advisory: This is a Physical Education activity course, so UC transfer credit is limited--please visit a counselor for details; not open to students with credit in KINS 52.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

The mechanics of fitness training, including strength, endurance and flexibility; provides students the necessary knowledge base to select appropriate fitness assessments. Discussion regarding training techniques, optimal workout environments, safety, contraindications, equipment and existing certification programs will prepare the student to work in the fitness industry. Students will evaluate existing standardized assessment batteries for cardiorespiratory endurance, muscular strength, muscular endurance, flexibility and body composition, blood pressure and cholesterol. FHGE: Non-GE Applicable Transferable: CSU/UC

KINS 51 PERFORMANCE ENHANCING 4 Units SUBSTANCES IN SPORT & EXERCISE

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in PHED 51. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Current and historical issues, as well as general social, biochemical, pharmacological and behavioral information related to performance enhancing substances in sport and exercise. Areas to be addressed include, but are not limited to: theories of addiction, populations, social implications, anabolics, blood doping, diuretics, nutritional ergogenic aids, social and recreational drugs, stimulants, emerging science and technologies, and drug testing. FHGE: Social & Behavioral Sciences Transferable: CSU

KINS 53 CURRENT TOPICS IN 2 Units PERSONAL TRAINING

Degree & Credit Status: Degree-applicable credit course Advisory: KINS 8A and 9.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Discussion of current issues in the fitness field, insurance, liability, standard business practices and national certifications. Emphasis is placed on client assessment, program design, teaching strategies and professional responsibility. Students apply knowledge of basic anatomy, exercise physiology, kinesiology, personal information gathering and exercise testing. FHGE: Non-GE Applicable Transferable: CSU

KINS 54 INTRODUCTION TO SPORTS 4 Units MANAGEMENT

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

263

Introduction to the field of sports management. Career opportunities, human resources management, leadership, strategic planning, teamwork, ethics and values, marketing and advertising, finance, managing facilities, sports and the law, economics of sport and community impact. FHGE: Non-GE Applicable Transferable: CSU

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in H P 52A or PHED 62A. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

9 hours laboratory. (108 hours total per quarter.)

Hands-on experience in athletic emergency care, athletic injury prevention, therapeutic treatment, and rehabilitation of athletic injuries in the on-campus Athletic Treatment Center. Observation of orthopedic surgical procedures with the permission of the team physician is available. FHGE: Non-GE Applicable Transferable: CSU

KINS 62B

CLINICAL EXPERIENCES IN 3 SPORTS MEDICINE II

3 Units

3 Units

264

Degree & Credit Status: Degree-applicable credit course Prerequisite: KINS 62A.

Advisory: Not open to students with credit in H P 52A or PHED 62B. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

9 hours laboratory. (108 hours total per quarter.)

Hands-on experience in athletic emergency care, athletic injury prevention, therapeutic treatment, and rehabilitation of athletic injuries in the on-campus Athletic Treatment Center. Observation of orthopedic surgical procedures with the permission of the team physician is available. FHGE: Non-GE Applicable Transferable: CSU

KINS 62C CLINICAL EXPERIENCES IN 3 Units SPORTS MEDICINE III

Degree & Credit Status: Degree-applicable credit course Prerequisite: KINS 62B.

Advisory: Not open to students with credit in H P 52B or PHED 62C. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

9 hours laboratory. (108 hours total per quarter.)

Hands-on experience in emergency care, injury prevention, treatment and rehabilitation of athletic injuries in the on-campus Athletic Treatment Center. Off-campus athletic training facilities and outpatient physical therapy clinics may also be utilized for the internship. Observation of orthopedic surgical procedures with the permission of the team physician is available. FHGE: Non-GE Applicable Transferable: CSU

KINS 62D

CLINICAL EXPERIENCES IN SPORTS MEDICINE IV

Degree & Credit Status: Degree-applicable credit course Prerequisite: KINS 62C.

Advisory: Not open to students with credit in PHED 62D. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

9 hours laboratory. (108 hours total per quarter.)

Hands-on experience in emergency care, injury prevention, treatment and rehabilitation of athletic injuries in the on-campus Athletic Treatment Center. Off-campus athletic training facilities and outpatient physical therapy clinics may be utilized for the internship. Observation of orthopedic surgical procedures with the permission of the team physician is available. FHGE: Non-GE Applicable Transferable: CSU

KINS 62E CL

CLINICAL EXPERIENCES IN SPORTS MEDICINE V

Degree & Credit Status: Degree-applicable credit course Prerequisite: KINS 62D.

Advisory: Not open to students with credit in PHED 62E.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

9 hours laboratory. (108 hours total per quarter.)

Advanced experience in athletic emergency care, athletic injury prevention, therapeutic treatment, and rehabilitation of athletic injuries. Observation of orthopedic surgeries, assisting in physical therapy clinics or other related allied health settings complement the on-campus Athletic Treatment Center. FHGE: Non-GE Applicable Transferable: CSU

KINS 65A PNF: INTRODUCTION TO THE 3 Units UPPER EXTREMITY

Degree & Credit Status: Degree-applicable credit course Advisory: Internet access to complete quizzes, discussions and assignments; not open to students with credit in H P 52F or PHED 65A. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2 hours lecture, 3 hours laboratory. (60 hours total per quarter.)

Theory and hands-on practice emphasizing the upper extremity: stretching, strengthening, stabilization and active/passive range of motion including goniometric measurements.

FHGE: Non-GE Applicable Transferable: CSU

KINS 65B PNF: INTRODUCTION TO THE 3 Units LOWER EXTREMITY

Degree & Credit Status: Degree-applicable credit course Advisory: Internet access to complete quizzes, discussions and assignments; not open to students with credit in H P 52G or PHED 65B. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2 hours lecture, 3 hours laboratory. (60 hours total per quarter.) Theory and hands-on practice emphasizing lower extremity stretching, strengthening, stabilization and active range of motion, including goniometric measurement. FHGE: Non-GE Applicable Transferable: CSU

KINS 70RINDEPENDENT STUDY IN
KINESIOLOGY1 Unit
UnitsKINS 71R2 UnitsKINS 72R3 UnitsKINS 73R4 Units

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3-12 hours laboratory per week. (36-144 hours total per quarter.)

Provides an opportunity for the student to expand their studies in Kinesiology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department. FHGE: Non-GE Applicable Transferable: CSU

KINS 81 INTRODUCTION TO ADAPTIVE **FITNESS**

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in SPED 50. Grade Type: Letter Grade Only Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Introduces fitness professionals to the information and skills necessary to work with the disabled and/or older adult client in an adaptive fitness setting. Provides history and overview of adaptive fitness. Includes overview of specific disabilities. Addresses fundamentals and benefits of adaptive fitness, basic anatomy, muscles and movement, contraindicated exercises and assessment techniques. Will also include exercise program design. FHGE: Non-GE Applicable **Transferable: CSU**

LANGUAGE ARTS

Language Arts 650.949.7250 foothill.edu/la/

TUTOR TRAINING I L A 61A

Degree & Credit Status: Degree-applicable credit course Advisory: An earned "A" or "B+" grade with instructor recommendation in one of the following courses: ENGL 1A, 1AH, 1B, 1BH, 1C, 1CH, 1S & 1T, ESLL 125; not open to students with credit in L A 111A. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture. (12 hours total per guarter.)

Training in team leading skills necessary for tutoring, including study skills, college policies, professionalism, ethics, and role modeling of successful student behavior. Techniques of subject-specific tutoring skills. Practice of these skills through sample student work and, when applicable, content-specific suggestions from the tutee's instructor. Ideal for students intending to tutor the first time in English, ESLL, or other reading and/or composition based courses.

FHGE: Non-GE Applicable

Transferable: CSU

L A 61B **TUTOR TRAINING II**

Degree & Credit Status: Degree-applicable credit course Prerequisite: L A 61A.

Advisory: An earned "A" or "B+" grade with instructor recommendation in one of the following courses: ENGL 1A, 1AH, 1B, 1BH, 1C, 1CH, 1S & 1T, ESLL 125; not open to students with credit in L A 111B. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Advanced training in team leading skills necessary for tutoring. Students will be asked to engage in advanced reflections on tutoring and advanced level critique of one's own and other tutoring processes. Techniques of subject specific tutoring skills with attention given to diverse learning styles. Practice of these skills through sample student work and instructor assignments and, when applicable, content-specific suggestions from the tutee's instructor. Ideal for students intending to tutor for the second time.

FHGE: Non-GE Applicable

Transferable: CSU

LEARNING IN NEW MEDIA CLASSROOMS

Business and Social Sciences

650.949.7498 krauseinnovationcenter.org/

LINC 50

TECHNOLOGY IN THE K-12 CLASSROOM I

1 Unit

Degree & Credit Status: Degree-applicable credit course Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 255; students may enroll in LINC 50 or 50B, but not both, for credit. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable. 1 hour lecture. (12 hours total per quarter.)

Intended for educators, this hands-on overview course addresses the effective integration of technologies for teaching and learning within any standards based curriculum. Students explore the cycle of technology learning; review the issues of technology in schools; discuss the role of technology savvy teachers; analyze online resources, tools, and applications; use online collaboration tools for class communication; evaluate audio-visual and multimedia hardware for classrooms; investigate mobile devices and software; and explore interactive whiteboards. Emphasis is given to creating student-centered projects or activities using appropriate educational technologies.

FHGE: Non-GE Applicable

Transferable: CSU

TECHNOLOGY IN THE K-12 .5 Units CLASSROOM II

Degree & Credit Status: Degree-applicable credit course Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking,

searching and downloading; not open to students with credit in LINC 255S. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

6 hours lecture. This course meets 1 time per quarter. (6 hours total per quarter.)

An introductory course about educational hardware technology in the classroom. Intended for educators, this hands-on course demonstrates integration of hardware technologies such as document cameras, interactive white boards, student response systems, iPads, mobile phones, etc., for teaching and learning with any standards based curriculum. Emphasis is given to creating student-centered activities using appropriate educational hardware technologies.

Transferable: CSU

.5 Units

CLASSROOM III Degree & Credit Status: Degree-applicable credit course Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching and downloading; fundamental understanding of content topics

TECHNOLOGY IN THE K-12

in LINC 50A; not open to students with credit in LINC 255T; students may enroll in LINC 50 or 50B, but not both, for credit. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

6 hours lecture. This course meets 1 time per quarter. (6 hours total per quarter.)

Deepens the student's knowledge of topics covered in LINC 50A focusing on computer and online-based software technology in the classroom. Intended for educators, this course examines the effective integration of software technologies such as word processing, presentation, spreadsheet, online resources, online collaboration tools, etc., used for teaching and learning. Emphasis is given to creating student-centered activities using appropriate educational software technologies.

FHGE: Non-GE Applicable **Transferable: CSU**

1 Unit

1 Unit

4 Units

LINC 50A

FHGE: Non-GE Applicable

LINC 50B

INTEGRATING TECHNOLOGY INTO A STANDARDS-BASED CURRICULUM I

Degree & Credit Status: Degree-applicable credit course Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 225. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

LINC 50F

2 hours lecture. (24 hours total per quarter.)

Intended for educators (K-14) and includes hands-on experiences that demonstrate the effective integration of technologies and 21st century skills for teaching and learning with any standards based curriculum. Emphasis is given to developing effective student-centered projects or activities using appropriate educational technologies.

FHGE: Non-GE Applicable

Transferable: CSU

LINC 53 INTEGRATING TECHNOLOGY 1 Unit INTO MATHEMATICS

Degree & Credit Status: Degree-applicable credit course Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 263. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Overview course for mathematics educators to promote and encourage the use of technology in mathematics instruction at any level to support and enhance mathematics teaching and learning and to increase the use of technology for visualization and multiple representations of math concepts. Other topics include the assessment of technology enhanced math projects, California Mathematics Content Standards, state-approved mathematics textbooks, ISTE Technology Standards, California Technology Standards, and the emerging Common Core Standards.

FHGE: Non-GE Applicable

Transferable: CSU

LINC 53B

INTEGRATING TECHNOLOGY .5 Units INTO MATHEMATICS GRADES

Degree & Credit Status: Degree-applicable credit course

6-8

Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching and downloading; fundamental understanding of content topics in LINC 53; not open to students with credit in LINC 263T. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

6 hours lecture. This course meets 1 time per quarter. (6 hours total per quarter.)

This intermediate course for middle grades (6th - 8th) mathematics educators promotes and encourages the use of technology in mathematics instruction to support and enhance mathematics teaching and learning and increases the use of technology for visualization and multiple representations of math concepts. Other topics include the assessment of technology enhanced math projects, California Mathematics Content Standards, state-approved mathematics textbooks, ISTE Technology Standards, California Technology Standards, and the emerging Common Core Standards. **FHGE: Non-GE Applicable Transferable: CSU**

2 Units

DESIGNING LEARNER-CENTERED INSTRUCTION

Degree & Credit Status: Degree-applicable credit course Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching and downloading.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Educators will examine the learner-centered approach to teaching in order to create transformative experiences for students. Educators develop the skills and conceptual knowledge for instructional design and creating student-centered learning activities that meet Common Core and content standards. Topics addressed include how learning happens, the role of educational technologies in student engagement, and effective modifications to existing instructional material. Following the learner-centered classroom guidelines, educators will create a multidisciplinary unit of instruction that is aligned to teaching standards and include both formative and summative assessments.

FHGE: Non-GE Applicable

Transferable: CSU

LINC 58 GLOBAL PROJECT-BASED LEARNING

Degree & Credit Status: Degree-applicable credit course Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; basic skills and knowledge using Web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 224.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2 hours lecture. (24 hours total per quarter.) Intended for educators (K-14) who want to develop understanding and competencies in using the 21st century skills strategy of global project-based learning to create powerful, culturally diverse learning environments. Teachers and students connect globally via Internet telecommunications software to work collaboratively on curriculum-based, real-world projects. Participants will create a project that engages students in learning curricular content.

FHGE: Non-GE Applicable Transferable: CSU

LINC 58A E-PORTFOLIOS

1 Unit

2 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 223. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Course demonstrates how to build an e-portfolio as an authentic assessment tool. Electronic portfolios can be used for student work as well as for teacher professional development. Reflective practice that deepens learning will be presented. Student e-portfolios will be examined and analyzed. Computer tools that enable students to create powerful e-portfolios will be examined.

FHGE: Non-GE Applicable

266

Transferable: CSU

INTEGRATING 21ST CENTURY SKILLS INTO INSTRUCTION

Degree & Credit Status: Degree-applicable credit course Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Intended for educators at all levels (K-12, college) and trainers of any discipline to develop the knowledge, skills, and attitude necessary to create instructional experiences integrated with 21st Century skills, such as critical thinking, creativity and problem solving, collaboration, and communication. Participants will examine the skills that business and industry determine important for new employees to know in order to succeed in a 21st Century global economy. Participants determine the importance of integrating 21st Century skills into their courses, analyze their curriculum content and instructional strategies to determine which 21st Century skills they currently teach and which additional skills can be integrated. The final course project is a lesson, unit, or project that requires the participants' students or trainees to use 21st Century skills.

FHGE: Non-GE Applicable

Transferable: CSU

LINC 60K GAME-BASED LEARNING

Degree & Credit Status: Degree-applicable credit course

Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; basic skills and knowledge using web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 243.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Intended for educators who want to explore computer-based and internet games that engage students in science, engineering, and other content learning. Participants will analyze existing games for their educational value, create their own simple educational game and determine how students learn when they create a game. Participants will use a systematic method of game design to identify goals, develop a game, and evaluate the learning outcomes.

FHGE: Non-GE Applicable Transferable: CSU

LINC 62

CLOUD-BASED WORD 1 Unit PROCESSING TOOLS

Degree & Credit Status: Degree-applicable credit course Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; basic skills and knowledge using web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 270.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Provides hands-on experience using cloud-based word processing programs like Microsoft Word, Google Docs and Apple Pages. Topics include: formatting techniques for reports, letters, or creative projects (e.g., flyers, brochures, information graphics); editing tools; using styles; creating section breaks; inserting text boxes, graphic objects, and multimedia; creating tables; working with headers and footers; and merging documents; using Track Changes for collaboration and other advanced features.

FHGE: Non-GE Applicable

🛑 FOOTHILL COLLEGE

Transferable: CSU

LINC 63 CLOU

CLOUD-BASED DATA ANALYSIS TOOLS

Degree & Credit Status: Degree-applicable credit course Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems and basic skills and knowledge of internet technologies, such as using web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 269. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

This course covers a variety of powerful cloud-based data analysis tools (e.g., Microsoft Excel, Google Sheets, and Apple Numbers) that can support educators, students, and business professionals in myriad tasks, including analyzing performance data, tracking expenditures, budget development, meeting planning, workflow processes, and database management. FHGE: Non-GE Applicable Transferable: CSU

LINC 64 SLIDE PRESENTATION DESIGN 1 Unit

Degree & Credit Status: Degree-applicable credit course Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 246. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 Unit

1 hour lecture. (12 hours total per quarter.)

Develop the knowledge and skills to create effective and visually appealing slide presentations. This hands-on course uses software such as Keynote, PowerPoint, Prezi, or Google Presentations; however, primary emphasis is placed on applying visual literacy concepts. Additional topics include typography, inserting audio, applying animation/transition effects, and applying good presentation design.

FHGE: Non-GE Applicable Transferable: CSU

LINC 66 INTRODUCTION TO THE 1 Unit INTERNET

Degree & Credit Status: Degree-applicable credit course Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 206; students may enroll in LINC 66 or 66B, but not both, for credit. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

This overview course explores the educational, personal, professional, and social benefits of the Internet. Participants will develop information literacy skills by examining current Internet trends, tools, and technologies for information, communication, and collaboration.

FHGE: Non-GE Applicable Transferable: CSU

LINC 66C SEARCHING & 2 Units RESEARCHING THE INTERNET

Degree & Credit Status: Degree-applicable credit course Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking,

searching and downloading; not open to students with credit in LINC 208. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Intermediate course for those who use the Internet for personal research and in their work. Emphasizes using advanced search techniques that incorporate logical reasoning, critical thinking, essential questions, and inquiry-based learning to refine searches, maximize the advantages of different search engines, evaluate websites for credibility, understand the legitimacy of search results, and use search findings ethically.

FHGE: Non-GE Applicable Transferable: CSU

Degree & Credit Status: Degree-applicable credit course Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 283S.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per guarter.)

This introductory, hands-on learning class will compare the relative advantages and disadvantages of using a variety of cloud- (Internet-) based publishing tools for the purpose of group collaboration, an e-portfolio, a social networking space, or information sharing. Emphasis is given to creating a basic collaboration space for education, business, or personal applications. FHGE: Non-GE Applicable **Transferable: CSU**

LINC 67 **DESIGNING WEB-BASED** 1 Unit LEARNING PROJECTS

Degree & Credit Status: Degree-applicable credit course

Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Creation of online projects that promote inquiry-based student learning and effective use of Web 2.0 tools for research. Participants will generate ideas for projects, like Webquests or virtual tours, and develop their own project with focus and purpose. Participants will align their project with the Common Core State Standards requiring students to synthesize information by completing a challenge task.

FHGE: Non-GE Applicable

Transferable: CSU

Transferable: CSU

.5 Units

1 Unit

LINC 68B **GOOGLE DOCS** Degree & Credit Status: Degree-applicable credit course Advisory: Basic computer skills and knowledge of internet technologies,

such as using web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 270S. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

6 hours lecture. This course meets 1 time per quarter. (6 hours total per quarter.)

An introduction to Google Docs, the free online word processing application in the Google office suite, which allows people to collaborate on a single version of a document. Google Docs is a powerful, easy to use application for teachers, students, groups, and organizations that want to share and collaborate with documents online. Participants will have hands-on experience creating, formatting, editing, saving, sharing, printing documents, inserting graphics, composing tables, and working collaboratively on a single document.

FHGE: Non-GE Applicable

LINC 70 WEB PAGE DESIGN OVERVIEW

Degree & Credit Status: Degree-applicable credit course

Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 200; students may enroll in LINC 70 or 70B, but not both, for credit. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Hands-on overview of how to design and create web pages using current online authoring tools, such as Google Sites, Wix, Weebly, or others. Advantages of different online web authoring tools will be analyzed. Techniques covered include building multiple pages; adding images, widgets, videos, banners, social media, calendars, and other features to create a neat, professional looking website. No knowledge of HTML is required. FHGE: Non-GE Applicable **Transferable: CSU**

LINC 70B WEB PAGE DESIGN II

Degree & Credit Status: Degree-applicable credit course

1 Unit

Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 211; students may enroll in LINC 70 or 70B, but not both, for credit. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Covers more advanced topics of online web authoring tools or services, such as good vs poor website design, building tables, using styles and addressing accessibility. Appropriate for application in educational, social, or business environments.

FHGE: Non-GE Applicable **Transferable: CSU**

LINC 72B ADOBE INDESIGN OVERVIEW 1 Unit

Degree & Credit Status: Degree-applicable credit course Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching and downloading; students may enroll in LINC 72B or 72D, but not both, for credit; not open to students with credit in LINC 234. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

For anyone interested in print or Web-based publishing. Adobe InDesign creates page layouts for multi-page brochures, tri-folds, flyers, newsletters, books, websites, and Web-based publications with a professional quality. In this hands-on, overview course, students work with images; use guides and grids; set up master sheets and styles. FHGE: Non-GE Applicable **Transferable: CSU**

1 Unit

LINC 73 ADOBE PHOTOSHOP OVERVIEW Degree & Credit Status: Degree-applicable credit course

Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching and downloading; students may enroll in LINC 73 or 73B, but not both, for credit; not open to students with credit in LINC 230. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture. (12 hours total per guarter.)

Explore digital imaging with hands-on experiences that integrate image media with teaching and learning. Emphasis is given to creating student-centered projects or activities using Photoshop. Learn to enhance image color and contrast, touch-up photos, create collages that tell stories, paint with the paint tools, create layouts with text, apply filters and special effects, automate work-flow. Learn to communicate with compelling layouts. FHGE: Non-GE Applicable **Transferable: CSU**

ADOBE ILLUSTRATOR OVERVIEW LINC 73H

1 Unit

Degree & Credit Status: Degree-applicable credit course Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching and downloading; students may enroll in LINC 73H or 73J, but not both, for credit; not open to students with credit in LINC 233. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Adobe Illustrator creates drawings, illustrations, and images for print or Web. Use vector graphics; draw objects, stroke outlines and pattern fills; work with brushes, gradients, color blends; design type; and develop graphs. Learn basic procedures of vector drawing to create moderately complex illustrations that can be transferred to collateral design. FHGE: Non-GE Applicable Transferable: CSU

LINC 73I ADOBE ILLUSTRATOR I

Degree & Credit Status: Degree-applicable credit course

Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 233S.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

6 hours lecture. This course meets 1 time per quarter. (6 hours total per quarter.)

This course provides hands-on experience with the basic elements and tools of Adobe Illustrator, a software drawing tool, to produce simple vector illustrations. Includes methods of illustration that contribute to digital storvtelling.

FHGE: Non-GE Applicable

Transferable: CSU

INTRODUCTION TO LINC 75A INSTRUCTIONAL DESIGN & TECHNOLOGY

Degree & Credit Status: Degree-applicable credit course

Advisory: Basic skills using standard computer systems and internet-based technologies.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture. (36 hours total per guarter.)

This introductory course in instructional design and technology is for students, teachers, educators, and trainers who want to know how to create technology-based educational or training materials and resources for school, college, or business settings. Students will develop foundational knowledge and skills in systematic design processes that guide writing learning objectives, developing learning activities, applying best practices for using technology in instructional settings, and assessing learning outcomes. This is the first course in the Instructional Design & Technology program sequence.

FHGE: Non-GE Applicable

Transferable: CSU

LINC 75B

INSTRUCTIONAL TECHNOLOGY 3 Units STRATEGIES

Degree & Credit Status: Degree-applicable credit course

Advisory: It is advised, but not required, that students have the background knowledge and skill taught in LINC 75A; basic skills using standard computer systems and internet-based technologies. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture. (36 hours total per guarter.)

This instructional design and technology course builds on the coursework of LINC 75A and focuses on the specific strategies for using technology in the education or training environment. Students develop instructional plans that use technology to meet the needs of a variety of learners; plan for effective use and management of technology for teaching and learning (i.e., laptop carts, mobile devices, Bring Your Own Device [BYOD], classroom audio-visual, online technologies and learning systems); and learn to manage instructional design projects. This course is part of the Instructional Design & Technology program sequence.

FHGE: Non-GE Applicable

Transferable: CSU

LINC 75C **DESIGNING ONLINE**

INSTRUCTION

Degree & Credit Status: Degree-applicable credit course

Prerequisite: LINC 75A or 75B.

Advisory: Basic skills using standard computer systems and internet-based technologies.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

.5 Units

3 Units

3 hours lecture. (36 hours total per quarter.)

This course advances the knowledge of instructional design and technology taught in LINC 75A and LINC 75B while focusing on the unique design challenges and delivery options of online education or training. Students apply the methods of instruction with web-based technologies to design online learning courses, lessons, activities, and resources. Special emphasis is provided for creating multimedia resources (e.g., screen casting and instructional videos) and for designing online learning with video conferencing, threaded discussions, shared documents and online collaboration used in learning management systems. This course is part of the Instructional Design & Technology program sequence. FHGE: Non-GE Applicable Transferable: CSU

LINC 77 DESIGN THINKING OVERVIEW 2 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Experience with internet software tools, browsers, hyperlinks, online media resources, and basic skills using a computer.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Students learn an overview of the design thinking methodology and its applications in education, business, industry and government. Focus is on introducing all aspects of the design cycle through inquiry-based facilitation and engaging immersive activities to develop understanding of the design thinking process.

FHGE: Non-GE Applicable

Transferable: CSU

DESIGN THINKING PROCESS 2 Units LINC 77A

Degree & Credit Status: Degree-applicable credit course Advisory: Experience with internet software tools, browsers, hyperlinks, online media resources, and basic skills using a computer.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture. (24 hours total per quarter.) Students delve deeper into design thinking to hone skills in facilitating the design thinking methodology when working in groups. Special attention is given to using the design thinking process for exploring how to bring positive disruptions and shifts in mindsets in order to arrive at innovative

solutions. FHGE: Non-GE Applicable

Transferable: CSU

DESIGN THINKING & LINC 77B 2 Units TINKERING

Degree & Credit Status: Degree-applicable credit course Advisory: Experience with internet software tools, browsers, hyperlinks, online media resources, and basic skills using a computer. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Student participants from community, business, and education practice design thinking, a process that innovators, designers, policy makers, and educators are using to develop innovative and collaborative solutions to real world challenges. Participants will use the design thinking process as they build low resolution prototype models using both physical materials and a 3-D rendering program. Focus is on working individually and in teams, to hone skills of defining problems, collecting information, brainstorming and developing solutions.

FHGE: Non-GE Applicable

Transferable: CSU

LINC 77C **DESIGN THINKING FOR** TEACHERS

Degree & Credit Status: Degree-applicable credit course Advisory: Experience with internet software tools, browsers, hyperlinks, online media resources, and basic skills using a computer.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Student-participants who are familiar with the design thinking process, originally created by the d.school at Stanford University, will develop innovative and collaborative solutions to real world challenges in education. Focus is on developing a project that would be easy to implement in a school environment and allow for immediate engagement in the design process by making and doing.

FHGE: Non-GE Applicable **Transferable: CSU**

LINC 77D **DESIGN THINKING** CHALLENGES

Degree & Credit Status: Degree-applicable credit course Advisory: Experience with internet software tools, browsers, hyperlinks, online media resources, and basic skills using a computer. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Student-participants who are familiar with the design thinking process, originally created by the d.school at Stanford University, will work in groups to select a real world challenge project and create solutions. Focus is on working through the design thinking principles to develop and present prototype solutions for challenges that emerge from a wide variety of areas. FHGE: Non-GE Applicable **Transferable: CSU**

LINC 78A **COMPUTATIONAL THINKING** FOR EDUCATORS

Degree & Credit Status: Degree-applicable credit course Advisory: Experience with internet software tools, browsers, hyperlinks, online media resources, and basic skills using a computer. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Computational thinking is an essential problem solving skill in the digital age. This course, which is designed for educators, provides instruction in components of computational thinking, including: data analysis, abstraction, and algorithms. A variety of tools will be used to demonstrate coding and debugging experiences. Students will learn how to add computational thinking concepts into many content areas with a special emphasis on related NGSS and Common Core Math computational thinking practices, including opportunities to integrate these concepts into instructional practices in multiple and interdisciplinary areas within education. FHGE: Non-GE Applicable **Transferable: CSU**

LINC 78B

BLOCK BASED CODING 2 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Experience with internet software tools, browsers, hyperlinks, online media resources, and basic skills using a computer. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

CONCEPTS

This course, designed for educators, provides the foundational computer science concepts using block based computer programming languages, such as Scratch, Blockly, Logo and others. These concepts illustrate the use of scripts, loops, and arrays in computer science, without the need to type or master the syntax of higher level programming languages. FHGE: Non-GE Applicable Transferable: CSU

LINC 78C PROJECT BASED TECHNOLOGY PROJECTS Degree & Credit Status: Degree-applicable credit course Advisory: Experience with internet software tools, browsers, hyperlinks,

online media resources, and basic skills using a computer.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Intended for educators and others, this course will provide opportunities to integrate technology into project based learning. Use of Arduinos, Raspberry Pi, Microbit or other micro-controllers, and control of these devices using code in text based languages, such as C or Python, to enhance project based learning will be covered. FHGE: Non-GE Applicable **Transferable: CSU**

LINC 79 MULTIMEDIA PROJECT 2 Units PRODUCTION

Degree & Credit Status: Degree-applicable credit course Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching and downloading; familiarity with multimedia software. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture. (24 hours total per quarter.) This hands-on, project production course demonstrates how to integrate online multimedia production tools and resources (music, audio, images, video, animation) to produce a variety of artistic or communicative media for use in education, business and personal applications. FHGE: Non-GE Applicable Transferable: CSU

LINC 80 MULTIMEDIA OVERVIEW

1 Unit

Degree & Credit Status: Degree-applicable credit course Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 251. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

An overview of multimedia software and hardware and the multimedia production process. Designed for trainers, educators, and anyone interested in multimedia, the course features hands-on learning with computer-based or internet software authoring tools to design and produce a multimedia project or presentation that integrates text, graphics, animation, sound, and digital video for educational, business, or entertainment purposes. FHGE: Non-GE Applicable **Transferable: CSU**

LINC 80A	MULTIMEDIA IN THE	1 Unit
	CLASSROOM I	

Degree & Credit Status: Degree-applicable credit course

Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 252. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Explores the pedagogy and computer-based software tools used to effectively design and manage multimedia in the learning process. Best design practices and hands-on experience with computer-based multimedia authoring tools will be used to produce a student-centered project, such as an audio book, animation, musical slideshow, video composition, or interactive presentation. Course content is appropriate for students, entrepreneurs, media designers, and educators.

FHGE: Non-GE Applicable

270

Transferable: CSU

2 Units

2 Units

2 Units

LINC 80B MULTIMEDIA IN THE CLASSROOM II

Degree & Credit Status: Degree-applicable credit course Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 252S.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

6 hours lecture. This course meets 1 time per quarter. (6 hours total per quarter.)

Explores pedagogy and online multimedia tools for educators who want to use multimedia production for student-centered learning. Features handson experience with internet multimedia authoring tools and resources for audio, video, music, animation, and images, to design and produce a student-centered project. **Transferable: CSU**

FHGE: Non-GE Applicable

LINC 81 USING DIGITAL IMAGES

Degree & Credit Status: Degree-applicable credit course

Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 257. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

An introduction to digital image acquisition, manipulation, use, and storage. Students will learn to find, edit, and use images in any software application for educational, business, or social purposes. Online image storage and sharing services will be evaluated. Students produce a gallery of images based on themes or categories.

FHGE: Non-GE Applicable

Transferable: CSU

USING DIGITAL IMAGES I LINC 81A Degree & Credit Status: Degree-applicable credit course

Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 257S. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

6 hours lecture. This course meets 1 time per quarter. (6 hours total per quarter.)

Effectively use digital images for teaching and learning or training with emphasis on free, online image resources and editing tools. Topics include finding images, criteria for choosing images, editing tools and techniques, and importing into any application. Students will design and develop a project using images such as collateral materials, presentations, print publications, photo galleries, web pages, video, slideshow, or animation.

FHGE: Non-GE Applicable **Transferable: CSU**

LINC 82A

INSTRUCTIONAL TECHNOLOGY PROJECTS

Degree & Credit Status: Degree-applicable credit course

Advisory: Basic skills using standard computer systems and internet-based technologies.

INTRODUCTION TO DESIGNING

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

This introductory course in designing and developing instructional projects is for students, educators, and trainers interested in the planning of instructional design and technology projects. Students will acquire the knowledge and technology skills needed to lead the design, creation, and iteration of instructional materials, specifically, basic project management, applying instructional technology principles, and using rapid prototyping models to efficiently design, make, and evaluate instructional projects for education or business learning contexts. This course is part of the Instructional Design & Technology program sequence.

FHGE: Non-GE Applicable

Transferable: CSU

LINC 82B

DEVELOPING INSTRUCTIONAL MATERIALS

Degree & Credit Status: Degree-applicable credit course Advisory: It is advised, but not required that students have the background knowledge and skill taught in LINC 82A; basic skills using standard computer systems and internet-based technologies. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

This instructional design and development course builds on the coursework of LINC 82A and focuses on refining the skills needed for making digital media for education or business learning contexts. Students interested in the study of instructional design will rapidly design, develop, and evaluate presentations, infographics, posters, digital resources, multimedia, and web sites for particular learning styles. Special emphasis is given for using collaborative tools to facilitate and manage group projects. This course is part of the Instructional Design & Technology program sequence.

FHGE: Non-GE Applicable **Transferable: CSU**

LINC 82C

CREATING INTERACTIVE MEDIA FOR INSTRUCTION

Degree & Credit Status: Degree-applicable credit course Prerequisite: LINC 82A or 82B.

Advisory: Basic skills using standard computer systems and internet-based technologies.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

This advanced course in creating interactive media for instruction continues the coursework of LINC 82A and LINC 82B and provides the depth of skills and knowledge needed for making online learning media that includes interactive components, such as instructional video, multimedia, game-based learning, graphical user interface design, interactive tutorials, embedding collaborative elements in web sites or learning management systems. Students interested in the study of instructional design and technology will develop a project for either education or business learning contexts. This course is part of the Instructional Design & Technology program sequence. FHGE: Non-GE Applicable **Transferable: CSU**

ADOBE PREMIERE LINC 83A

Degree & Credit Status: Degree-applicable credit course Advisory: Familiarity with PC or Mac; scanning photos; using a digital still and digital video camera; not open to students with credit in LINC 81CS. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Adobe Premiere provides students with skills necessary to create digital movies. Projects are standards-based and appropriate for classroom use. Students will include text, sound and the "Ken Burns Effect" as well as other special effects in their movies. FHGE: Non-GE Applicable **Transferable: CSU**

IMOVIE

LINC 83C

Degree & Credit Status: Degree-applicable credit course Advisory: Familiarity with Macintosh computers or iOS devices (iPhone/

iPad); not open to students with credit in LINC 241.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

This course, which is designed for educators and others, will provide the basics of video production using the software application iMovie, which is available on both Macintosh computers and iOS (iPad/iPhone) devices. Students will produce a finished/edited video using video and audio content recorded from a variety of digital devices: tablets, camcorders, smart phones, etc. The finished video should contain all or some of the following video production/editing techniques: background audio, "Ken Burns Effect," voice-over narrations, sound effects, transitions and titles. FHGE: Non-GE Applicable

Transferable: CSU



1 Unit

1 Unit

3 Units

1 Unit

.5 Units

3 Units

.5 Units

LINC 83F INTRODUCTION TO DIGITAL **VIDEO EDITING**

Degree & Credit Status: Degree-applicable credit course

Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 244. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture. (12 hours total per guarter.)

Introductory course covers the skills to create short, digital movies for the Web or computer playback using low-cost, internet-based, or free software. Course topics including finding existing video, creating video slideshows, making titles, adding voiceover or music, and creating animation effects. Class projects are designed for use in education, business, and personal applications.

FHGE: Non-GE Applicable **Transferable: CSU**

LINC 84A **3-D DESIGN CONCEPTS**

Degree & Credit Status: Degree-applicable credit course Advisory: Experience with internet software tools, browsers, hyperlinks, online media resources, and basic skills using a computer. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Intended for educators and others, this course will provide the basics to move designs from concepts to finished learning projects. Throughout the course, there will be a focus on application of finished products to meet a specific need or learning outcome. Within the course, troubleshooting and basic maintenance concepts will be covered to allow educators to operate and manage 3-D printers in their schools.

FHGE: Non-GE Applicable **Transferable: CSU**

LINC 84B **3-D DESIGN & FABRICATION** 2 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Experience with internet software tools, browsers, hyperlinks, online media resources, and basic skills using a computer. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Intended for educators and others, this course will provide the fundamentals of 3-D design and fabrication concepts. The use of basic design software and online libraries will be used to assist in developing and designing 3-D projects for learning projects by students in grades K-12, business, industry, and/or governmental. An emphasis will be placed on design concepts to meet a specific educational/instructional/project need. FHGE: Non-GE Applicable **Transferable: CSU**

LINC 86A

VIDEO PODCASTING I Degree & Credit Status: Degree-applicable credit course

Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching and downloading.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

6 hours lecture. This course meets 1 time per quarter. (6 hours total per quarter.)

Introductory course on video podcast production. Using free online or industry-standard editing software, participants will create a basic video podcast or screencast that is for instructional, informative, or persuasive purposes in education, professional, or personal contexts.

FHGE: Non-GE Applicable **Transferable: CSU**

LINC 86B SCREENCASTING II

1 Unit

2 Units

Degree & Credit Status: Degree-applicable credit course

Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading; fundamental understanding of content topics in LINC 86A; students may enroll in LINC 86 or 86B, but not both, for credit.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

6 hours lecture. This course meets 1 time per quarter. (6 hours total per quarter.)

Continuation of LINC 86A, introducing more advanced skills and techniques for creating screencast tutorials that explain and demonstrate "how-to" topics. Uses free (e.g., Screencast-o-Matic or Screencastify) or industry-standard (e.g., Garageband) software. Students will create a "how-to" tutorial-style podcast of an instructional or training challenge. FHGE: Non-GE Applicable **Transferable: CSU**

LINC 87 SEMINAR IN TEACHING WITH 5 Units EDUCATIONAL TECHNOLOGY

Degree & Credit Status: Degree-applicable credit course Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

This seminar is for educators at all levels to develop student-centered learning projects and teaching practices; apply practical educational technology tools and resources; and participate in a collaborative professional development experience. Participants learn to use innovative technologies in their own curriculum content area and best practices for teaching and learning that positively impacts student achievement. Topics include 21st Century skills for teaching and learning, visual literacy, media literacy, free online tools and resources for education, educational software training, open education resources, professional learning networks, integrating technology into the curriculum, integrating science and mathematics into any curriculum, assessment strategies for complex learning outcomes, and student-centered learning. FHGE: Non-GE Applicable **Transferable: CSU**

INTRODUCTION TO COMPUTER **LINC 88** 4 Units **OPERATING SYSTEMS**

Degree & Credit Status: Degree-applicable credit course Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems and basic skills and knowledge of internet technologies, such as using web browsers, email, bookmarking, searching, and downloading.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Introductory course covers computer operating systems such as Microsoft Windows 7, Windows 8, Windows 10 and Linux. Students learn to install, configure, and administer a desktop operating system, automate operating system installation, set up and manage user accounts, and configure local file systems. Configure and troubleshoot both local and network printers, manage and troubleshoot access to shared folders, and recover from system failures.

FHGE: Non-GE Applicable

Transferable: CSU

.5 Units

LINC 89 INTRODUCTION TO MICROSOFT 4 Units WINDOWS SERVERS

Degree & Credit Status: Degree-applicable credit course Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Introductory course covers the fundamentals of Microsoft Windows server infrastructure, setup and administration. Topics include managing file systems (including Active Directory Domain Services [AD DS]), networking services, Hyper-V configuration, devices, user accounts, backups, and basic security.

FHGE: Non-GE Applicable **Transferable: CSU**

LINC 90A WEBINARS

1 Unit

Degree & Credit Status: Degree-applicable credit course Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems and basic skills and knowledge of internet technologies, such as using web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 290.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per guarter.)

For educators and trainers to develop basic skills in creating synchronous or asynchronous "webinars," web-based seminars. This course will use software tools and systems, such as CCC Confer, Adobe Connect, WebEx, or others. Students will incorporate video, media, slide presentations and Internet resources to create short webinar content for educational or training applications.

FHGE: Non-GE Applicable Transferable: CSU

OPEN EDUCATION RESOURCES 1 Unit LINC 90B Degree & Credit Status: Degree-applicable credit course

Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems and basic skills and knowledge of internet technologies, such as using web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 215. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Overview of Open Educational Resources (OER) and the use of free public domain materials for teaching and learning. Aims to build participant's knowledge and skills to find, adapt, repurpose and create accessible OER for use in education and training environments. Course topics include OER terminology, OER quality, copyright and fair use issues, sources and repositories of public domain materials in various disciplines, technical issues regarding accessibility, and uses of Creative Commons. Participants will explore and analyze: OER tools and standards available to develop, organize and disseminate content; public domain learning materials; searching techniques for identifying public domain learning materials; professional collaboration strategies; and criteria for assessing the suitability of public domain learning materials for use various disciplines. Participants will either create a lesson, activity, or training module that incorporates OER or create an OER for an identified purpose.

FHGE: Non-GE Applicable

Transferable: CSU



ONLINE COLLABORATION TOOLS

Degree & Credit Status: Degree-applicable credit course Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 214. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Features online collaboration tools for educational, business, or personal use. Explore different collaborative technologies and shared documents using the Internet with emphasis on how these tools can be integrated with curriculum and student projects; on more effective communication and collaboration for all participants; and on how these tools can be used for planning and evaluating projects. **Transferable: CSU**

FHGE: Non-GE Applicable

INTRODUCTION TO ASSESSING 3 Units INSTRUCTIONAL TECHNOLOGY

Degree & Credit Status: Degree-applicable credit course

Advisory: Basic skills using standard computer systems and internet-based technologies.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

LINC 91A

3 hours lecture. (36 hours total per guarter.)

This introductory course in assessing instructional technologies is for students, educators, and trainers interested in instructional design and technology. Students develop critical thinking skills and use evaluation processes, resources, and instruments to select and evaluate instructional materials, technologies, resources, and programs that meet specific learning outcomes for educational and training contexts. Coursework includes using technology to conduct survey research and basic data analysis. This course is part of the Instructional Design & Technology program sequence. FHGE: Non-GE Applicable **Transferable: CSU**

LINC 91B

EVALUATING TECHNOLOGY-BASED LEARNING OUTCOMES

Degree & Credit Status: Degree-applicable credit course

Advisory: It is advised, but not required that students have the background knowledge and skill taught in LINC 91A; basic skills using standard computer systems and internet-based technologies.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture. (36 hours total per guarter.)

This instructional design and technology course builds on the coursework of LINC 91A and focuses on evaluating learning outcomes in educational and business training contexts. Students will design and develop technology-based authentic and performance-based assessments, rubrics, needs assessment plans, learner analysis instruments, adaptive testing, and surveys. Coursework includes managing data collection, analyzing results, and reporting findings. This course is part of the Instructional Design & Technology program sequence.

FHGE: Non-GE Applicable

273

Transferable: CSU

LINC 91C

3 Units

INTRODUCTION TO COMPUTER 4 Units **NETWORKS**

Degree & Credit Status: Degree-applicable credit course Prerequisite: LINC 91A or 91B.

Advisory: Basic skills using standard computer systems and internet-based technologies.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture. (36 hours total per guarter.)

This advanced course in evaluating instructional technology programs continues the coursework of LINC 91A and LINC 91B and further develops the skills and knowledge students need to measure and evaluate the effectiveness of educational curriculum or training programs. Using analysis skills, students examine the entire process from program design to implementation. Students interested in the study of instructional design and technology will determine and report on the effectiveness of an instructional program or curriculum for either online or classroom delivery in terms of instructor preparation, planning, delivery medium, and effective use of technology. Skill development includes effective use of technology tools for writing, conducting, analyzing, and reporting an instructional program evaluation plan. This course is part of the Instructional Design & Technology program sequence.

LINC 92 SEMINAR IN INSTRUCTIONAL 3 Units **DESIGN & TECHNOLOGY** Degree & Credit Status: Degree-applicable credit course

Prerequisites: Completion of LINC 75A and (LINC 75B or 75C); LINC 82A and (LINC 82B or 82C); and LINC 91A and (LINC 91B or 91C).

Advisory: Basic skills using standard computer systems and internet-based technologies.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

FHGE: Non-GE Applicable

3 hours lecture. (36 hours total per guarter.)

This seminar course is for teachers, educators, and trainers who have completed the pre-requisite coursework in the Instructional Design and Technology program sequence. Students demonstrate ability to apply knowledge, skills, and dispositions acquired through program coursework to the design, development, evaluation, and implementation of technology-based instructional and training projects in a "real-world" scenario. The seminar experience provides students the opportunity to act as consultants in a real, client-based case study to apply theories, concepts, and principles of instructional technology to solve an instructional or a training problem in authentic education or business settings.

FHGE: Non-GE Applicable

Transferable: CSU

Transferable: CSU

LINC 93B

ASSISTIVE TECHNOLOGY & UNIVERSAL ACCESS

1 Unit

Degree & Credit Status: Degree-applicable credit course Advisory: Familiarity with PC or Mac; basic internet skills; not open to students with credit in LINC 221. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

This course will review current issues and legislation in assistive technology and universal access. Issues of efficacy and appropriateness of accommodations required for parity with peers in an education setting will be reviewed and discussed. Tools and issues of design and compliance will be demonstrated. Internet resources will be explored. **Transferable: CSU**

FHGE: Non-GE Applicable

LINC 94

Degree & Credit Status: Degree-applicable credit course

Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems and basic skills and knowledge of internet technologies, such as using web browsers, email, bookmarking, searching and downloading.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Covers fundamental networking concepts and develops the skills and knowledge to set up and maintain small business/home networks. The course is not hardware or vendor specific. Helps students prepare for the "Network +" certification exam, an industry-wide, vendor-neutral certification program developed and sponsored by the Computing Technology Industry Association (CompTIA). FHGE: Non-GE Applicable Transferable: CSU

TECHNOLOGY ETHICS & LINC 95B 1 Unit **EDUCATIONAL LAW**

Degree & Credit Status: Degree-applicable credit course Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 220. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Overview of current issues and legislation in computer ethics and cyberlaw. Topics such as copyright, fair use, acceptable use plans, digital divide, accessibility, internet filtering, social media, and cyber bullying will be discussed with emphasis on the implications for the student, classroom teacher, school site, parent obligation, civic government, and broader society. FHGE: Non-GE Applicable Transferable: CSU

1 Unit

LINC 95C ASSESSMENT STRATEGIES FOR **TECHNOLOGY INTEGRATION** Degree & Credit Status: Degree-applicable credit course

Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 260. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

The effectiveness of technology integration for teaching and learning. Explores various assessment strategies for technology integration when applied to curriculum development, teaching, and student learning. Participants will create formative and summative assessments of how technology-infused instruction affects teaching practice and facilitates students' use of technology to learn and communicate. Other content topics include 21st Century skills, Common Core State Standards, and ISTE NETS standards. FHGE: Non-GE Applicable **Transferable: CSU**

HANDHELD DIGITAL MEDIA LINC 96B .5 Units DEVICES I

Degree & Credit Status: Degree-applicable credit course Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 292A.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

6 hours lecture. This course meets 1 time per quarter. (6 hours total per quarter.)

This introductory course is for those interested in exploring how hand-held devices can be applied in an education or training setting. Provides hands on experience with hand-held devices such as smartphones, tablet computers, iPods, etc. Participants will learn how to operate the hand-held, explore available software for the device, and learn how to use it for educational, training or other projects.

FHGE: Non-GE Applicable

Transferable: CSU COURSE CATALOG 2020-2021

🛑 FOOTHILL COLLEGE

LINC 97 IPADS IN EDUCATION

Degree & Credit Status: Degree-applicable credit course

Advisory: Appropriate skills and abilities with mobile computer systems and internet technologies.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

6 hours lecture. This course meets 1 time per quarter. (6 hours total per quarter.)

Tablet computer technology is having greater influence in education and impacting student learning with mobile, rich media applications. Explore using the Apple iPad in every level of education; analyze changes mobile computing brings to the teaching and learning environment; evaluate applications relevant for academic disciplines and that reflect the Common Core State Standards. Provides practice in using iPads in a classroom setting and for developing instructional resources and learning aids. FHGE: Non-GE Applicable **Transferable: CSU**

LINC 97A IPADS FOR TEACHING & 1 Unit LEARNING

Degree & Credit Status: Degree-applicable credit course

Advisory: Basic technology skills and knowledge of iPad and Mac iOS systems; familiarity using web browsers, email, bookmarking, searching, and downloading.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable. 1 hour lecture. (12 hours total per quarter.)

Participants who are familiar with basic iPad use will integrate iPads into the teaching and learning process. Find, review and select applications and resources to create learning experiences aligned with Common Core State Standards. Use iPads for evaluation and assessment of student mastery. Develop course materials for student-centered activities. Build a virtual library of online resources, tips, and tricks.

FHGE: Non-GE Applicable

Transferable: CSU

LINC 97B

TABLET COMPUTERS & MEDIA CREATION

1 Unit

.5 Units

Degree & Credit Status: Degree-applicable credit course

Advisory: Basic skills in using tablet computers, such as iPads or Android devices, to manage applications, system resources, and connect to the internet.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Participants create and publish a wide variety of media using tablet computers (iPads or Android devices) and compatible hardware accessories. Focus on free or low-cost software for video, audio, animation, screen capture, and multimedia creation. Participants explore digital resources and create a media project.

FHGE: Non-GE Applicable

Transferable: CSU

LINC 98

TEACHING & LEARNING IN THE DIGITAL AGE

Degree & Credit Status: Degree-applicable credit course Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 228; students may enroll in LINC 98 or 98B, but not both, for credit. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Overview course for those interested in developing and integrating educational technology into the classroom or training environment. Students will analyze learner characteristics; analyze the role of technology in student-centered learning environments; create a design plan for a technology-enhanced learning lesson, project or activity; use collaborative online technologies to support group work and peer feedback; and develop evaluation methods for the course project. FHGE: Non-GE Applicable Transferable: CSU

LINC 98A

TEACHING & LEARNING IN THE DIGITAL AGE I

Degree & Credit Status: Degree-applicable credit course Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 228S.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

6 hours lecture. This course meets 1 time per quarter. (6 hours total per quarter.)

Introduction to integrating educational technology in the classroom for those interested in using technology to effectively deliver curriculum content, engage in professional development, and efficiently manage the classroom or training environment (e.g., online grading, storage, communication with parents, etc.). Participants will examine and set up appropriate technology tools.

FHGE: Non-GE Applicable **Transferable: CSU**

LINC 98B

TEACHING & LEARNING IN THE DIGITAL AGE II

.5 Units

Degree & Credit Status: Degree-applicable credit course

Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching and downloading; fundamental understanding of content topics in LINC 98A; not open to students with credit in LINC 228T; students may enroll in LINC 98 or 98B, but not both, for credit.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

6 hours lecture. This course meets 1 time per quarter. (6 hours total per quarter.)

An intermediate course in educational technology in the classroom, this course extends the topics in LINC 98A for educators, trainers, and instructional designers who want to develop student-centered lessons for the classroom or training environment. Focuses on collaborative software technologies that can be used for student group work and project sharing. FHGE: Non-GE Applicable **Transferable: CSU**

LINC 401 BASIC MAKERSPACE SKILLS I 0 Units

Degree & Credit Status: Non-degree-applicable non-credit course Advisory: Basic computer skills and knowledge of operating systems; familiarity using web browsers, email, bookmarking, searching and downloading.

Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

12 hours lecture total per quarter.

Introduces students and other individuals to the tools and skills used in Makerspaces. These skills include, but are not limited to: basic Makerspace safety, basic tool safety, basic prototyping. Students will be able to learn independently and in groups to enhance their personal skills in using tools safely and effectively to create and build items for personal and educational uses. After completing the two-course sequence of LINC 401 and 402, students will receive training and badges to safely use each tool at a beginning level. Students will be more prepared for entering STEM and Maker career paths in education, community centers, and libraries. This course cannot be taken for credit.

FHGE: Non-GE Applicable

Transferable: None

1 Unit

LINC 402 BASIC MAKERSPACE SKILLS II 0 Units

Degree & Credit Status: Non-degree-applicable non-credit course

Advisory: Basic computer skills and knowledge of operating systems; familiarity using web browsers, email, bookmarking, searching and downloading.

Grade Type: Non-credit course that receives no grade

Unlimited Repeatability.

12 hours lecture total per quarter.

Introduces students and other individuals to the tools and skills used in Makerspaces. These skills include, but are not limited to: basic machine safety, basic computing concepts, basic electronics. Students will be able to learn independently and in groups to enhance their personal skills in using tools safely and effectively to create and build items for personal and educational uses. After completing the two-course sequence of LINC 401 and 402, students will receive badges for each machine/tool in safety and basic use. Students will be more prepared for entering STEM and Maker career paths in education, community centers, and libraries. This course cannot be taken for credit.

FHGE: Non-GE Applicable

Transferable: None

BEGINNING TECHNOLOGY SKILLS 0 Units **LINC 405** Degree & Credit Status: Non-degree-applicable non-credit course Grade Type: Non-credit course that receives no grade

Unlimited Repeatability.

12 hours lecture total per guarter.

This noncredit course introduces students and other individuals to basic technology skills. These skills include, but are not limited to: basic word processing skills; basic spreadsheet skills; basic management and organization of files; saving, downloading, and uploading files; basic email use; mouse/navigation skills; internet search skills. Students will be able to learn independently or in small groups to enhance their personal skills in using a computer for basic digital tasks needed to begin Foothill College coursework.

FHGE: Non-GE Applicable

Transferable: None

LIBRARY SCIENCE

Language Arts 650.949.7608 foothill.edu/la/

LIBR 10 INTRODUCTION TO COLLEGE 1 Unit RESEARCH

Degree & Credit Status: Degree-applicable credit course Advisory: Familiarity with Macs or PCs; not open to students with credit in LIBR 10H or 71.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Intended for students writing a research paper in another class. Strategies and methods to identify a research topic and then find, evaluate, and use information in an ethical way. Interdisciplinary application of concepts, often covering multicultural topics.

FHGE: Lifelong Understanding

Transferable: CSU/UC

LIBR 10H

HONORS INTRODUCTION TO COLLEGE RESEARCH

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Honors Institute participant.

Advisory: Familiarity with Macs or PCs; not open to students with credit in LIBR 10 or 71.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per guarter.)

This honors-enhanced course is designed to introduce students to college level research. Students will develop critical thinking to identify a research topic and then find, evaluate, and use information in an ethical way. Interdisciplinary application of concepts, often covering multicultural topics. This course is of special value to those students intending to transfer to a fouryear institution (CSU/UC).

FHGE: Lifelong Understanding

Transferable: CSU/UC

MATHEMATICS

Physical Sciences, Mathematics & Engineering 650.949.7259 foothill.edu/math/

MATH 1A

CALCULUS Degree & Credit Status: Degree-applicable credit course Prerequisite: MATH 48C or equivalent.

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in MATH 1AH. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.) Introduction to differential calculus, including limits, derivatives and their applications to curve-sketching, families of functions, and optimization. FHGE: Communication & Analytical Thinking Transferable: CSU/UC

MATH 1AH HONORS CALCULUS I 5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisites: MATH 48C or equivalent; Honors Institute participant. Corequisite: MATH 1AHP.

Advisory: Not open to students with credit in MATH 1A.

Grade Type: Letter Grade Only

276

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Introduction to differential calculus, including limits, derivatives and their applications to curve-sketching, families of functions, and optimization. Honors work emphasizes a deeper study of differential calculus via the study of proofs using analytic techniques, real-world problems, and special applied projects.

FHGE: Communication & Analytical Thinking Transferable: CSU/UC

MATH 1AHP HONORS CALCULUS I SEMINAR

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant. Corequisite: MATH 1AH. Grade Type: Letter Grade Only

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

An honors seminar linked to MATH 1AH. In this course, students will explore a multitude of advanced problems from the calculus I honors course, including proofs of limit laws, differentiation rules, and corresponding theorems concerning the behavior of differentiable functions. As the calculus I honors course will require students to submit typed technical solutions to applied problems, this seminar will support students in learning how to use mathematical typesetting software. Best practices for mathematical writing will also be discussed.

FHGE: Non-GE Applicable Transferable: CSU/UC

MATH 1B CALCULUS

5 Units

5 Units

1 Unit

Degree & Credit Status: Degree-applicable credit course Prerequisite: MATH 1A or 1AH.

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in MATH 1BH. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.) Introduction to integral calculus including definite and indefinite integrals, the first and second Fundamental Theorems and their applications to geometry, physics, and the solution of elementary differential equations. FHGE: Communication & Analytical Thinking

Transferable: CSU/UC

MATH 1BH HONORS CALCULUS II

Degree & Credit Status: Degree-applicable credit course Prerequisites: MATH 1A or 1AH; Honors Institute participant. Corequisite: MATH 1BHP.

Advisory: Not open to students with credit in MATH 1B. Grade Type: Letter Grade Only Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Introduction to integral calculus, including Riemann Sums, definite, indefinite, and improper integrals, the First and Second Fundamental Theorems of Calculus and their applications to geometry, physics, and solutions to elementary differential equations. Honors work emphasizes more in-depth analysis of real-world problems and the theory through proofs using analysis techniques.

FHGE: Communication & Analytical Thinking Transferable: CSU/UC

MATH 1BHP

HONORS CALCULUS II SEMINAR

1 Unit

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant. Corequisite: MATH 1BH. Grade Type: Letter Grade Only Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

An honors seminar for MATH 1BH. In this course, students will explore a multitude of advanced problems from the calculus II honors course, including proofs of the fundamental theorems, properties of integrals, integration techniques, and various other theorems and propositions concerning the behavior of integrable functions. As the calculus II honors course will require students to submit typed technical solutions to applied problems, this lab will support students in learning how to use mathematical typesetting software. Best practices for mathematical writing will also be discussed. FHGE: Non-GE Applicable Transferable: CSU/UC

MATH 1C CALCULUS

Degree & Credit Status: Degree-applicable credit course Prerequisite: MATH 1B or 1BH.

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Introduction to functions of more than one variable, including vectors, partial differentiation, the gradient, contour diagrams and optimization. Additional topics include infinite series, convergence and Taylor series.

FHGE: Communication & Analytical Thinking Transferable: CSU/UC

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MATH 1D	CALCULUS	5 Units
Degree & Credi	t Status: Degree-applicable credit course	

Prerequisite: MATH 1C.

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Introduction to integration of functions of more than one variable, including double, triple, flux and line integrals. Additional topics include polar, cylindrical and spherical coordinates, parameterization, vector fields, path-independence, divergence and curl. Transferable: CSU/UC

FHGE: Non-GE Applicable

MATH 2A DIFFERENTIAL EQUATIONS 5 Units

Degree & Credit Status: Degree-applicable credit course

Prerequisite: MATH 1C.

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in MATH 12A. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Differential equations and selected topics of mathematical analysis. Transferable: CSU/UC FHGE: Non-GE Applicable

5 Units MATH 2B LINEAR ALGEBRA

Degree & Credit Status: Degree-applicable credit course Prerequisite: MATH 1C.

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

A first course in Linear Algebra, including systems of linear equations, matrices, linear transformations, determinants, abstract vector spaces and subspaces, eigenvalues and eigenvectors, inner product spaces and orthogonality, and selected applications of these topics. Transferable: CSU/UC

FHGE: Non-GE Applicable

MATH 10 ELEMENTARY STATISTICS

5 Units

5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: MATH 105 or equivalent.

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; UC will grant transfer credit for a maximum of one course from the following: PSYC 7, SOC 7, MATH 10 or 17--students are strongly encouraged to meet with a counselor for appropriate course selection.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

An introduction to modern methods of descriptive statistics, including collection and presentation of data; measures of central tendency and dispersion; probability; sampling distributions; hypothesis testing and statistical inference; linear regression and correlation; analysis of variance; use of microcomputers for statistical calculations. Illustrations taken from the fields of business, economics, medicine, engineering, education, psychology, sociology, social sciences, life science, and health science. **FHGE: Communication & Analytical Thinking**

Transferable: CSU/UC

MATH 12 CALCULUS FOR BUSINESS 5 Units & ECONOMICS

Degree & Credit Status: Degree-applicable credit course

Prerequisite: MATH 48A or equivalent.

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

A study of the techniques of differential and integral calculus, with an emphasis on the application of these techniques to problems in business and economics.

FHGE: Communication & Analytical Thinking Transferable: CSU/UC

MATH 17 INTEGRATED STATISTICS II

Degree & Credit Status: Degree-applicable credit course Prerequisite: MATH 217.

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; UC will grant transfer credit for a maximum of one course from the following: PSYC 7, SOC 7, MATH 10 or 17--students are strongly encouraged to meet with a counselor for appropriate course selection; not open to students with credit in MATH 57. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

The second of two in the Statway sequence. Covers concepts and methods of statistics with an emphasis on data analysis. Topics include methods for collecting data, graphical and numerical descriptive statistics, correlation, simple linear regression, basic concepts of probability, confidence intervals and hypothesis tests for means and proportions, chi-squared tests, and ANOVA. Application problems will be taken from the fields of business, economics, medicine, engineering, education, psychology, sociology and from culturally diverse situations. This sequence is recommended for students with majors that require no mathematics beyond freshman-level statistics.

FHGE: Communication & Analytical Thinking Transferable: CSU/UC

MATH 22 DISCRETE MATHEMATICS

Degree & Credit Status: Degree-applicable credit course Prerequisites: C S 1A or 1AH; MATH 48C or equivalent.

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in CIS 18 or C S 18. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Discrete mathematics: set theory, logic, Boolean algebra, methods of proof, mathematical induction, number theory, discrete probability, combinatorics, functions, relations, recursion, algorithm efficiencies, graphs, trees.

FHGE: Communication & Analytical Thinking Transferable: CSU/UC

MATH 42 MATH FOR ELEMENTARY 5 Units SCHOOL TEACHERS

Degree & Credit Status: Degree-applicable credit course Prerequisite: MATH 105 or equivalent.

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Focuses on the development of quantitative reasoning skills through indepth, integrated explorations of topics in mathematics, including real numbers systems and subsystems. Emphasis is on comprehension and analysis of mathematical concepts and applications of logical reasoning. FHGE: Non-GE Applicable Transferable: CSU/UC

MATH 44 MATH FOR THE LIBERAL ARTS 5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: MATH 105 or equivalent.

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

A survey of mathematical models and other tools to introduce the nonspecialist to the methods of quantitative reasoning. Problem solving by Polya's method with analytic, numeric, graphical, and verbal investigation. Selecting, constructing, and using mathematical models. Interpreting quantitative results in qualitative context. Emphasis on deductive reasoning and formal logic; algebraic, exponential, logarithmic, and trigonometric models; probability and the normal distribution; data analysis; and selected topics from discrete math, finite math, and statistics.

FHGE: Communication & Analytical Thinking

Transferable: CSU/UC

MATH 48A PRECALCULUS I

5 Units

Degree & Credit Status: Degree-applicable credit course

Prerequisite: MATH 105 or equivalent.

Corequisite: For students who do not meet the prerequisite requirement, concurrent enrollment in MATH 248A is required.

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; UC credit for MATH 48A, 48B and 48C is limited to a maximum of 7.5 units for the combination or any portion of the series completed.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Introduction to functions and families of functions, including linear functions, quadratics, power and radical functions, absolute value functions, piece-wise defined functions, transformations of these functions, composition of these functions and their use in solving application problems. **FHGE: Communication & Analytical Thinking**

Transferable: CSU/UC

MATH 48B PRECALCULUS II

5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: MATH 48A or equivalent.

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; UC credit for MATH 48A, 48B and 48C is limited to a maximum of 7.5 units for the combination or any portion of the series completed.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

This course is a continuation of topics from MATH 48A. Topics include polynomial, rational, exponential and logarithmic functions, transformations of these functions and their use in solving application problems. FHGE: Communication & Analytical Thinking Transferable: CSU/UC

MATH 48C PRECALCULUS III

Degree & Credit Status: Degree-applicable credit course Prerequisite: MATH 48B.

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; UC credit for MATH 48A, 48B and 48C is limited to a maximum of 7.5 units for the combination or any portion of the series completed.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

This course is a continuation of topics from MATH 48B. Topics include the six trigonometric functions, trigonometric identities, inverse trigonometric functions, trigonometric equations, right triangles, oblique triangles, vectors, parametric equations, and applications with various functions. FHGE: Communication & Analytical Thinking Transferable: CSU/UC

MATH 67 ENHANCED MATHEMATICS 3 Units LEARNING WITH MATHEMATICA

Degree & Credit Status: Degree-applicable credit course

Advisory: MATH 48A or equivalent; ability to download software and work with basic programs like Word or Excel.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

An introduction to Mathematica mathematics software and its use as a tool for computation and visualization in mathematics and statistics. Use of Mathematica for solving problems taken from algebra and statistics through linear algebra and differential equations. Access to Mathematica provided at no additional cost.

FHGE: Non-GE Applicable Transferable: CSU

MATH 70R	INDEPENDENT STUDY IN	1 Unit
	MATHEMATICS	
MATH 71R		2 Units
MATH 72R		3 Units
MATH 73R		4 Units
Degree & Credit Sta	atus: Degree-applicable credit course	
Grade Type: Letter	Grade or Pass/No Pass	

Not Repeatable.

3-12 hours laboratory per week. (36-144 hours total per quarter.)

Provides an opportunity for the student to expand their studies in Mathematics beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department. FHGE: Non-GE Applicable Transferable: CSU

MATH 105 INTERMEDIATE ALGEBRA

5 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MATH 108. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Quadratic, polynomial, rational, radical, exponential and logarithmic functions and expressions with an emphasis on graphing and applications. FHGE: Non-GE Applicable Transferable: None

MATH 180 QUANTITATIVE REASONING 5 Units

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.)

Students will be able to apply mathematical reasoning in their personal, professional, and academic lives, to investigate new contexts, develop and propose possible solutions, discuss and analyze proposed plans, and make decisions. Students will learn to value the collaborative process of explaining, investigating, comparing and assessing a variety of perspectives and approaches. Through immersion in contextualized lessons, students will practice quantitative thinking as they build skill in communication, critical and creative thinking, and computation. They will grow their knowledge and understanding of themselves, each other, and the world through the study of culturally relevant contexts, such as personal finance, health and wellness, membership in society, and the environment.

FHGE: Non-GE Applicable Transferable: None

 MATH 217
 INTEGRATED STATISTICS I
 5 Units

 Degree & Credit Status: Non-degree-applicable basic skills-2 course
 5
 5

 Advisory: Demonstrated proficiency in English by placement via multiple
 5
 5

 measures OR through an equivalent placement process OR completion of
 5
 5

ESLL 125 & ESLL 249. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

The first of two courses in the Statway sequence. Covers concepts and methods of statistics with an emphasis on data analysis. Topics include methods for collecting data, graphical and numerical descriptive statistics, correlation, simple linear regression, basic concepts of probability, confidence intervals and hypothesis tests for means and proportions, chi-square tests, and ANOVA. Application problems will be taken from the fields of business, economics, medicine, engineering, education, psychology, sociology and from culturally diverse situations. This sequence is recommended for students with majors that require no mathematics beyond freshman-level statistics.

FHGE: Non-GE Applicable

Transferable: None

2.5 Units

MATH 48A Degree & Credit Status: Non-degree-applicable credit course Corequisite: MATH 48A.

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

JUST-IN-TIME SUPPORT FOR

Grade Type: Pass/No Pass Only

Not Repeatable.

MATH 248A

2.5 hours lecture. (30 hours total per quarter.)

A just-in-time approach to the core prerequisite skills, competencies, and concepts needed in Precalculus I. Intended for students majoring in science, technology, engineering, and mathematics who are concurrently enrolled in MATH 48A at Foothill College. Topics include: a review of computational skills developed in beginning and intermediate algebra, including factoring, graphing linear equations, solving absolute value equations and inequalities, analyzing functions, including quadratic functions.

FHGE: Non-GE Applicable

Transferable: None



MEDIA STUDIES

Fine Arts and Communication 650.949.7562 foothill.edu/fa/

650.949./562 foothill.edu/fa/

MDIA 1

INTRODUCTION TO FILM STUDIES

STUDIES Degree & Credit Status: Degree-applicable credit course

4 Units

Advisory: Not open to students with credit in F TV 1, MDIA 1H or VART 1. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

A survey of the language, technology, theory and aesthetics of the moving image as an art form. Emphasizes an introduction to the critical analysis of the film and video.

FHGE: Humanities Transferable: CSU/UC

MDIA 1H HONORS INTRODUCTION TO 4 Units FILM STUDIES

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant.

Advisory: Not open to students with credit in F TV 1, MDIA 1 or VART 1. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

A survey of the language, technology, theory and aesthetics of the moving image as an art form with an emphasis on the critical analysis of film and media. The honors section offers an enriched and rigorous study in film analysis and introductory film theory. Completion of the honors section requires in-depth analytic readings and completion of two critical analysis essays. Assessment of exams and essays is rigorous. Strongly suggested for students planning to transfer to a four-year college or university in film and media studies.

FHGE: Humanities Transferable: CSU/UC

MDIA 2A HISTORY OF FILM 1895-1945

Degree & Credit Status: Degree-applicable credit course

4 Units

4 Units

Advisory: Not open to students with credit in F TV 2A or VART 2A. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)
 Survey of the development of motion pictures from beginning to the 1940s.
 Emphasis on understanding evolution of international filmmaking.
 FHGE: Humanities Transferable: CSU/UC

MDIA 2B HISTORY OF FILM 1945-CURRENT

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in F TV 2B or VART 2B. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

A survey of the advancement of cinematic art from 1945 to the present. Investigation and critical analysis of influential films, prominent filmmakers, and technological developments. Study of the economic, regulatory, cultural, and artistic forces at work in the evolution of film.

FHGE: Humanities Transferable: CSU/UC

MDIA 2C CUI

CURRENT TRENDS IN FILM, TV & THE INTERNET

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in F TV 2C or VART 2C. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

Current trends of film, video, television, and internet media. Critical analysis of time-based linear and non-linear visual media. Emphasis on the visual experience of communicating ideas, stories, and events. FHGE: Humanities Transferable: CSU/UC

MDIA 3 INTRODUCTION TO FILM 4 Units & MEDIA CRITICISM

Degree & Credit Status: Degree-applicable credit course

Advisory: ENGL 110. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

An introduction to the critical analysis of film, television, and internet media. Explore and apply the core concepts and language of media theory, including approaches through semiotics, post-structuralism, psychoanalysis, multicultural analysis, gender and sexuality.

FHGE: Communication & Analytical Thinking Transferable: CSU/UC

MDIA 4	EXPERIMENTAL FILM &	4 Units
	VIDEO	

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

A survey of experimental film from the early 20th century to the present, as well as video art from the 1960s on. Investigation and critical analysis of influential films/videos, prominent filmmakers, and technological developments. Study of the political, cultural, and artistic forces at work in the development of experimental film and video practices. FHGE: Humanities Transferable: CSU/UC

MDIA 5 AMERICAN CINEMA

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in F TV 3 or VART 3. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

Introduction to American film as a component of art, history, culture and business. How Hollywood has shaped an industry that has come to reflect many aspects of the American experience. American cinematic history, terminology, economic structure and cultural importance. Development of analysis and writing skills.

FHGE: Non-GE Applicable Transferable: CSU/UC

MDIA 6	FILM & NEW MEDIA	4 Units
	GENRES	

Degree & Credit Status: Degree-applicable credit course Advisory: UC course transferability will be determined by the university

after student transfer. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

Analysis of specific genres within film and new media and their evolution. Specific genres will be explored, considering their historic, aesthetic, structural, and cultural dimensions, as well as their mode of screening and distribution. Genres include film noir, horror, science fiction, disaster, war, action-adventure, musical, romance, comedy.

FHGE: Non-GE Applicable Transferable: CSU/UC

MDIA 7 **DOCUMENTARY FILM**

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per guarter.)

A survey of the development and practice of documentary film from the early 1900s to the present. Investigation and critical analysis of influential films, prominent filmmakers, and technological developments. Study of the economic, cultural, and artistic forces at work in the evolution of documentary film.

FHGE: Humanities Transferable: CSU/UC

RACE & GENDER IN MDIA 8A AMERICAN MEDIA

Degree & Credit Status: Degree-applicable credit course Advisory: ENGL 110. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

This course examines the complexities of race and gender representation in U.S. film and media. Students study the history of media representation, applying theory as a tool for analysis. Examine the means by which the media define and promote cultural stereotypes. In addition, students examine how media images and institutions influence and shape racial and gender identities. Contributions to the field of important filmmakers and media artists will be examined.

FHGE: American Cultures & Communities Transferable: CSU/UC

MDIA 11 INTRODUCTION TO POPULAR 4 Units CULTURE

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple

measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in F A 1 or MDIA 11H.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

Overview, history and critical analysis of popular culture as a window for understanding American society. Theories and methods of analyzing artifacts of popular culture. Overarching themes: history/social theories of popular culture; popular culture as a product of American multiculturalism; the relationship between a commodity culture and intellect/artistry; philosophical/ ethical issues surrounding popular culture.

FHGE: Humanities Transferable: CSU/UC

MDIA 11H

HONORS INTRODUCTION TO POPULAR CULTURE

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant.

Advisory: Not open to students with credit in F A 1 or MDIA 11. Grade Type: Letter Grade or Pass/No Pass

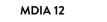
Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

Overview, history and critical analysis of popular culture as a window for understanding American society. Theories and methods of analyzing artifacts of popular culture. Overarching themes: history/social theories of popular culture; popular culture as a product of American multiculturalism; the relationship between a commodity culture and intellect/artistry; philosophical/ ethical issues surrounding popular culture. The honors section offers deeper theoretical content, assignments that require more sophisticated cognition/ critical thinking, more rigorous assessment, and an additional summative project.

FHGE: Humanities

Transferable: CSU/UC



4 Units

4 Units

4 Units

281

POPULAR CULTURE & UNITED STATES HISTORY

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in F A 2. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

Interdisciplinary overview of popular culture as a window for understanding American history and society. Theories and methods of analyzing the artifacts of popular culture. Overarching themes: 1) the interpretation of American history via popular culture media; 2) interaction between American historical events and trends, and popular culture.

FHGE: American Cultures & Communities Transferable: CSU/UC

MDIA 13 VIDEO GAMES & POPULAR 4 Units CULTURE

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 11F. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

The impact of game design and game technology on popular culture. Topics will include early history including the early hardware and software designers that emerged after World War II, the rise of the video game entrepreneurs and the resulting multi-billion dollar arcade industry, eight generations of home video game console inventors from the Magnavox Odyssey through the present day, the impact of the home computer on video games, the evolution of the handheld game console from early LCD games through the smart phone, online gaming from the first text-based games built by hobbyists through the current massively multi-player online role-playing games, and the validation of video games as an art form as evidenced by their addition to the collections of prominent institutions such as the Smithsonian and MoMA. For each historical era, the influence of video games on popular culture will be demonstrated through film, television, print, and music.

FHGE: Humanities Transferable: CSU/UC

MDIA 20 FUNDAMENTALS OF MEDIA 4 Units PRODUCTION

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in F TV 20, GID 20 or VART 20. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.) Basic instruction in concepts, techniques, and strategies of digital media production. Basic camera, lighting and sound recording will be covered through technical assignments. Emphasis on story telling, creative problem solving, web video production and distribution techniques. Transferable: CSU/UC FHGE: Non-GE Applicable

MDIA 30 DIGITAL VIDEO EDITING I

4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in F TV 84, VART 30 or 84. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

Basic instruction on the use of the computer for video and film editing. Theory and practice of cinematic editing which is explored through projects, screenings, class exercises, and demonstration. Topics include montage, pace and rhythm, openings, cutting dialogue, use of sound. FHGE: Non-GE Applicable Transferable: CSU/UC

MDIA 31 DIGITAL VIDEO EDITING II

Degree & Credit Status: Degree-applicable credit course Advisory: MDIA 30; not open to students with credit in F TV 85, VART 31 or 85.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

Continuation of MDIA 30. Further exploration of technical and aesthetic considerations in film and video editing. Address advanced topics in digital post-production. Software topics include sync, audio mixing, color correction, and compositing.

SCRIPTWRITING FOR FILM

FHGE: Non-GE Applicable

Transferable: CSU/UC

& VIDEO Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

MDIA 52

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

An introductory course in scriptwriting for film and video which covers the basic skills needed in scripting for the media. Emphasis will be on the development of visual sensitivity, the examination of sample scripts and experience in progressing from concept to finished script. The role of the script in media production and the appropriate formats for fiction and non-fiction scripts will also be examined.

FHGE: Non-GE Applicable

Transferable: CSU

MUSIC

Fine Arts and Communication 650.949.7016 foothill.edu/music/

Foothill offers music activity courses in three different family categories, as well as theatre arts activity courses in four different family categories. No single course may be repeated. Enrollment is limited to six courses per family within the Foothill-De Anza Community College District. Please refer to the De Anza College Catalog for the corresponding families and courses.

Piano Class Applied Performance Family: MUS 12A, 12B & 12C

Voice Class Applied Performance Family: MUS 13A, 13B & 13C

Guitar Class Applied Performance Family: ${\rm MUS}$ 14A, 14B, 14C, 15A, 15B & 15C

Theatre Voice Family: MUS 47A or THTR 47A, MUS 47B or THTR 47B, MUS 47C or THTR 47C, MUS 47D or THTR 47D, THTR 48A, MUS 48B or THTR 48B & MUS 48C or THTR 48C

MUS 1 INTRODUCTION TO MUSIC 4 Units Degree & Credit Status: Degree-applicable credit course 4 Units Grade Type: Letter Grade or Pass/No Pass 4 Units Not Repeatable. 4 Units

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.) A study of Western music and its place in civilization. Selected listening and readings from the masterpieces of music of Europe and the Western Hemisphere with an emphasis on methods of comprehension, listening techniques, the elements of music, primary musical forms, and a wide range of concert repertoire. Includes a study of how social, political, philosophical, and other artistic developments outside of music influenced compositional thinking and how these were integrated into the different periods of Western musical history. A variety of media consisting of slides, videos, recordings, and lecture will be used. Live performance used when possible. FHGE: Humanities Transferable: CSU/UC

MUS 2A

4 Units

4 Units

GREAT COMPOSERS & MUSIC MASTERPIECES OF WESTERN CIVILIZATION

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 2AH. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.)

An introduction to the great composers and music masterpieces of Western culture, including composer biographies with emphasis on how composers synthesize or transform the aesthetic ideals of their time. Examines how composers' music reflects their own lives as well as mirrors contemporary social, political, and religious events. Historical periods include the ancient world and the Medieval, Renaissance, and Baroque eras. Composers include Josquin, Lassus, Palestrina, Monteverdi, Purcell, Vivaldi, Handel and Bach. FHGE: Humanities Transferable: CSU/UC

MUS 2AH HONORS GREAT COMPOSERS 5 Units & MUSIC MASTERPIECES OF WESTERN CIVILIZATION

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Honors Institute participant. Advisory: Not open to students with credit in MUS 2A.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.)

An introduction to the great composers and music masterpieces of Western culture, including composer biographies with emphasis on how composers synthesize or transform the aesthetic ideals of their time. Examines how composers' music reflects their own lives as well as mirrors contemporary social, political, and religious events. Historical periods include the ancient world and the Medieval, Renaissance, and Baroque eras. Composers include Josquin, Lassus, Palestrina, Monteverdi, Purcell, Vivaldi, Handel and Bach. The honors section offers deeper theoretical content, assignments that require more sophisticated cognition/critical thinking, more rigorous assessment, and additional creative and summative projects. FHGE: Humanities Transferable: CSU/UC

MUS 2B GREAT COMPOSERS & MUSIC MASTERPIECES OF WESTERN CIVILIZATION

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 2BH. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.)

Introduction to the great composers and music masterpieces of Western culture. Includes composer biographies with emphasis on how composers synthesize or transform the aesthetic ideals of their time. Examines how composers' music reflects their own lives as well as mirrors contemporary social, political, and religious events. Historical periods include the Classical period up through early Romanticism. Composers include Gluck, Haydn, Mozart, Beethoven, Schubert and Weber.

FHGE: Humanities Transferable: CSU/UC

FOOTHILL COLLEGE

MUS 2BH

HONORS GREAT COMPOSERS & MUSIC MASTERPIECES **OF WESTERN CIVILIZATION**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant. Advisory: Not open to students with credit in MUS 2B. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.)

Introduction to the great composers and music masterpieces of Western culture. Includes composer biographies with emphasis on how composers synthesize or transform the aesthetic ideals of their time. Examines how composers' music reflects their own lives as well as mirrors contemporary social, political, and religious events. Historical periods include the Classical period up through early Romanticism. Composers include Gluck, Haydn, Mozart, Beethoven, Schubert and Weber. The honors section offers deeper theoretical content, assignments that require more sophisticated cognition/ critical thinking, more rigorous assessment, and additional creative and summative projects.

FHGE: Humanities

Transferable: CSU/UC

MUS 2C

GREAT COMPOSERS & 5 Units MUSIC MASTERPIECES OF WESTERN CIVILIZATION

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 2CH. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.) Introduction to the great composers and music masterpieces of Western culture. Includes composer biographies with emphasis on how composers synthesize or transform the aesthetic ideals of their time. Examines how their music reflects their own lives as well as mirrors contemporary social, political, and religious events. Historical periods are mid-19th century Romanticism through the present. Composers include Schumann, Chopin, Mendelssohn, Brahms, Berlioz, Liszt, Tchaikovsky, Mussorgsky, Strauss, Verdi, Wagner, Bizet, Debussy, Ravel, Ives, Cowell, Bartok, Berg, Webern, Stravinsky, Copland, Varese, Babbitt, Cage, Crumb, Ligeti, Penderecki, Reich, Glass and Adams.

FHGE: Humanities

Transferable: CSU/UC

MUS 2CH HONORS GREAT COMPOSERS & MUSIC MASTERPIECES **OF WESTERN CIVILIZATION**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant.

Advisory: Not open to students with credit in MUS 2C. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per guarter.) Introduction to the great composers and music masterpieces of Western culture. Includes composer biographies with emphasis on how composers synthesize or transform the aesthetic ideals of their time. Examines how their music reflects their own lives as well as mirrors contemporary social, political, and religious events. Historical periods are mid-19th century Romanticism through the present. Composers include Schumann, Chopin, Mendelssohn, Brahms, Berlioz, Liszt, Tchaikovsky, Mussorgsky, Strauss, Verdi, Wagner, Bizet, Debussy, Ravel, Ives, Cowell, Bartok, Berg, Webern, Stravinsky, Copland, Varese, Babbitt, Cage, Crumb, Ligeti, Penderecki, Reich, Glass and Adams. The honors section offers deeper theoretical content, assignments that require more sophisticated cognition/critical thinking, more rigorous assessment, and additional creative and summative projects. **FHGE: Humanities** Transferable: CSU/UC

WORLD MUSIC: ROOTS TO **CONTEMPORARY GLOBAL FUSION**

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.)

A survey of world music styles from their roots in the ethnic traditions of a specific culture through their evolution into new forms that retain vitality and relevance in contemporary society. Traces the elements that make each style distinctive from a purely musical perspective, as well as the social, historical, and cultural context that shaped each style's development. Styles include salsa, reggae, Rai, Celtic, fado, flamenco, South African township, Bollywood filmi, and more.

FHGE: Humanities Transferable: CSU/UC

MUS 2F **HISTORY OF AMERICAN** 4 Units **MUSICAL THEATRE**

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in THTR 2F. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

An introductory survey of the history of the American musical theatre genre. Includes roots in British music halls, Viennese operetta and African American jazz through the golden age of the musical and up to the contemporary Broadway stage. Emphasis will be placed on genres and styles, as well as the key composers, lyricists, librettists, directors, producers, designers, choreographers and performers. Examines how the musical mirrors contemporary social and political events.

Transferable: CSU/UC **FHGE: Humanities**

MUS 3A **THEORY & MUSICIANSHIP I** Degree & Credit Status: Degree-applicable credit course

Advisory: MUS 12A strongly recommended. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.)

Introduction to the fundamentals of music and their application to composition and music literature. Notation, scales, intervals, triads, essential cadential formulas and phrase structure and their use in basic composition. Musicianship skills to include melodic dictation with leaps within the triad, rhythmic dictation in different meters, ear recognition of intervals, triad qualities including inversions, and dominant seventh chords, sight-singing simple step-wise melodies. FHGE: Non-GE Applicable

Transferable: CSU/UC

5 Units

5 Units

MUS 3B

283

5 Units

THEORY & MUSICIANSHIP II Degree & Credit Status: Degree-applicable credit course Advisory: MUS 3A proficiency or equivalent.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.)

Continuation of common practice procedures in music and their application to composition and music literature. Seventh chords, an introduction to two-part counterpoint, secondary dominants and leading tone chords, modulation, and voice-leading techniques in four-part chorale writing. Musicianship skills to include melodic dictation with leaps from the I, IV, and V7 chords, rhythmic dictation in both simple and compound meters, harmonic dictation of typical chord progressions including notation of outer voices and Roman numerals, and sight-singing melodies with leaps from the I, IV, and V7 chords.

FHGE: Non-GE Applicable

Transferable: CSU/UC

MUS 3C **THEORY & MUSICIANSHIP III**

Degree & Credit Status: Degree-applicable credit course Advisory: MUS 3B proficiency or equivalent. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per guarter.)

Continuation of concepts from MUS 3B, including guided analysis and composition using beginning chromatic harmony, secondary dominants and leading tone chords, modulation, borrowed chords, the Neapolitan sixth chord, and all forms of the augmented sixth chord. Musicianship skills to include melodic dictation in major and minor keys with triplets, syncopation, and pivot chord modulations, rhythmic dictation in simple and compound meters with syncopation and triplets, aural identification of four part harmonic progressions that use secondary dominants and pivot chord modulation, sight-singing melodies that modulate. FHGE: Non-GE Applicable Transferable: CSU/UC

MUS 3D **THEORY & MUSICIANSHIP IV** Degree & Credit Status: Degree-applicable credit course Advisory: MUS 3C proficiency or equivalent. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.) Continuation of concepts from MUS 3C, including late 19th century chromatic harmony. Through guided analysis and composition, course includes: application of augmented 6th chords, borrowed chords, medieval modes, 9th, 11th, and 13th chords, altered dominants, chromatic mediants, and Impressionism. Analysis and writing on atonality, 12-tone method, pandiatonicism, set theory, and polytonality. Musicianship skills to include sight-singing modes, melodic dictation with modes and chromatic melodies, rhythmic dictation of irregular or asymmetrical meters, aural identification of harmonic progressions using chromatic chords and modulations to non-closely related keys.

CONTEMPORARY MUSICAL

FHGE: Non-GE Applicable

MUS 7

Transferable: CSU/UC

4 Units

284

5 Units

5 Units

MUS 7D

STYLES: ROCK, POP & JAZZ Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

Contemporary Musical Styles is a research and listening based survey course that begins with the roots in blues and continues with jazz, popular songs, and rock music of today. It is a social history of rock and roll that examines music before and after World War II, from the migration of the blues in the United States, to the social changes of the civil rights era of the 60s, to current times. The course will compare the historical and cultural context of popular lyrics in reference to contemporary, traditional, and folk styles by studying prominent musicians, genres, and songs associated with current musical idioms and social media.

FHGE: Humanities

Transferable: CSU/UC

CONTEMPORARY MUSICAL STYLES: THE BEATLES IN THE CULTURE OF POPULAR MUSIC

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

Continuation of jazz, popular, and rock music with a focus on the Beatles. Includes prominent albums and songs associated with the band's evolution and stature, and their synthesis of a wide variety of popular and non popular musical styles. Identifies the significant effects that Hindu religious beliefs, social and cultural diversity, and the language arts had on their music. Analyzes the sociological impact the Beatles' statements had on non-musical matters, such as politics, drugs, religion, etc. Examines the influences of pop music on the Beatles' early style as well as the group's own influence on music and pop culture in general. A variety of media consisting of videos, recordings, lecture, and live performance will be used. **FHGE: Humanities** Transferable: CSU/UC

MUS 7F **MUSIC IN FILM** Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per guarter.)

A cross cultural study of how music propels the story line in motion pictures from symphonic scores to pop soundtracks comparing imagery, emotions, characterizations, rhythm, intervals, melody, and chords. A "music-in-film" history course that blends the study of film music composers with an analysis of musical techniques from the earliest examples of film sound to film noir, westerns to James Bond, Hitchcock to musicals, and the Golden Era of Hollywood to Star Wars. Students will differentiate between parallel, contrapuntal, and associative types of music in film. The goal of the class is to identify how music and culture function in film to highlight dialogue, reflect thoughts, create tension, and establish a sense of time and place. Previous musical knowledge is helpful, but not necessary. **FHGE: Humanities** Transferable: CSU/UC

MUSIC OF AMERICAN MUS 8

5 Units

4 Units

CULTURES Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 8H. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.) A comparative and integrative study of American music, this course explores the music traditions and styles of Native Americans, European Americans, African Americans, Chicano/Latino Americans, and Asian Americans, from their historical roots to the present. It includes a wide variety of genres, such as folk, spirituals, gospel, soul, blues, jazz, Cajun, zydeco, salsa, Tejano, hip-hop and rap. Students will look at these musical traditions from a technical and a cultural perspective as they develop listening and descriptive skills.

FHGE: American Cultures & Communities, Humanities Transferable: CSU/UC

HONORS MUSIC OF AMERICAN 5 Units CULTURES

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant. Advisory: Not open to students with credit in MUS 8. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.)

A comparative and integrative study of American music, this course explores the music traditions and styles of Native Americans, European Americans, African Americans, Chicano/Latino Americans, and Asian Americans, from their historical roots to the present. It includes a wide variety of genres, such as folk, spirituals, gospel, soul, blues, jazz, Cajun, zydeco, salsa, Tejano, hip-hop and rap. Students will look at these musical traditions from a technical and a cultural perspective as they develop listening and descriptive skills. The honors course offers an enriched and challenging experience for the more talented student, including deeper content, more rigorous grading, and more demanding and creative assignments requiring application of higher-level thinking, writing, and communication skills. FHGE: American Cultures & Communities, Humanities Transferable: CSU/UC

MUS 9A

MUSIC & MEDIA: EDISON 4 Units TO HENDRIX

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 85 or 85A. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.) Introductory study of the history and development of popular music from the inception of recording through the first televised performances of the Beatles in the U.S. Development of media delivery, including recording, radio, television, and how those delivery systems changed both the content of music and its use by the public. The influence of media on the development of styles such as jazz, swing, country, rockabilly and rock and roll, including societal changes brought about by media delivery of music and how it became associated with graphic imagery such as television and cinema. Transferable: CSU/UC FHGE: Non-GE Applicable

MUS 9B **MUSIC & MEDIA: HENDRIX TO HIP-HOP**

4 Units

4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 85B. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.) Introductory study of the history and development of popular music from 1964 through the present in the U.S. The class will examine the development of media delivery systems after The Beatles' first appearances on television through the growth of rock and alternative styles. Styles to be studied include punk, ska, the rebirth of country music and the rise of hip-hop culture, examining artists such as Jimi Hendrix, Pink Floyd, David Bowie, Frank Zappa, Prince, The Police, Chuck D. and others. The class will study the development and growth of music videos as an art form and the delivery/promotional systems developed for them, such as MTV. FHGE: Non-GE Applicable Transferable: CSU/UC

MUS 10

MUSIC FUNDAMENTALS

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.) Beginning theory course where the basic elements of musicianship and harmony are explored through lecture, listening, and written assignments. Rudiments of music like pitch, rhythm, harmony, style, and form will be examined as rock and roll is analyzed through classical music theory. Transferable: CSU/UC FHGE: Non-GE Applicable

MUS 11A JAZZ & SWING

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 64A. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

History and analysis of jazz styles and trends from the development of Ragtime to 1969. An introduction to the instruments, performers, composers, compositions and recordings that defined jazz before the introduction of rock as the primary commercial music style in the US. Presentation of jazz and swing recordings, videos and print resources. Major artists include Louis Armstrong, Duke Ellington, Benny Goodman, Glenn Miller, Lionel Hampton, Count Basie, Charlie Parker, Dizzy Gillespie, Miles Davis, Sonny Rollins, Charles Mingus and John Coltrane. Style periods include Early ("Dixieland"), Big Band, Jump, Swing, Bebop, Hard Bop, Cool, Modal, and Avant-Garde Jazz.

FHGE: Non-GE Applicable

Transferable: CSU/UC

4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 64B. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

MUS 11B

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.) History and analysis of funk, fusion and hip-hop styles from 1969 to the present. An introduction to the instruments, performers, composers, compositions and recordings that defined/define funk, fusion and hip-hop. Presentation of recordings, videos and print resources. Major artists include Miles Davis, Herbie Hancock, James Brown, Sly Stone, Weather Report,

FUNK, FUSION & HIP-HOP

Wayne Shorter, George Clinton and P-Funk, Jaco Pastorius, Pat Metheny, Grandmaster Flash, Africa Bambaataa, Chuck D. and Dr. Dre. Style periods include early jazz fusion, early funk, East Bay funk, groove and smooth jazz, modern fusion, early hip-hop and commercial rap. FHGE: Non-GE Applicable

Transferable: CSU/UC

MUS 11D

HISTORY OF ELECTRONIC MUSIC: ORIGINS-1970

4 Units

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

The impact of electronic musical instruments and electronic musical technology on the creation of music. Origins in the late 19th and early 20th century and the subsequent development of the first electronic instruments. Emergence of new musical styles including electroacoustic music, music concrete, and elektronische musik. The first use of computers in music. Performance with live electronics. The introduction of the synthesizer and the rise of mainstream electronic music. In addition, students will analyze historically significant works from the experimental art music of the mid-20th century through the popular forms of the 1960s. FHGE: Humanities Transferable: CSU/UC

MUS 11E

HISTORY OF ELECTRONIC MUSIC: 1970-PRESENT

4 Units

4 Units

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

The impact of emerging electronic music styles on instrument development, recording technology and popular culture in the late 20th and early 21st centuries. Incorporation of electronic music and instruments in new music, television & film soundtracks and live performance, creating a market for the development and sales of portable music synthesizers. Analysis of the impact of emerging musical styles including ambient, techno and trance on the composition of contemporary music and youth culture. Comparison of analog and digital music synthesis techniques in the recording and performance of electronic music. Advances in computer technology in relation to the compositional needs of the emerging electronic musical styles. Students will analyze historically significant electronic works from experimental academic compositions to popular music from the era. FHGE: Humanities Transferable: CSU/UC

MUS 11F

VIDEO GAMES & POPULAR CULTURE

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MDIA 13. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

The impact of game design and game technology on popular culture. Topics will include early history including the early hardware and software designers that emerged after World War II, the rise of the video game entrepreneurs and the resulting multi-billion dollar arcade industry, eight generations of home video game console inventors from the Magnavox Odyssey through the present day, the impact of the home computer on video games, the evolution of the handheld game console from early LCD games through the smart phone, online gaming from the first text-based games built by hobbyists through the current massively multi-player online role-playing games, and the validation of video games as an art form as evidenced by their addition to the collections of prominent institutions such as the Smithsonian and MoMA. For each historical era, the influence of video games on popular culture will be demonstrated through film, television, print, and music.

FHGE: Humanities Transferable: CSU/UC

MUS 12A BEGINNING CLASS PIANO

Degree & Credit Status: Degree-applicable credit course Advisory: Concurrent enrollment in MUS 10; this course is included in the Piano Class Applied Performance family of activity courses. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture, 1 hour laboratory. (36 hours total per quarter.) Group instruction in piano for those with no previous training. Emphasis is on finger technique, note reading, and performance of simple piano literature. For music majors as well as the general student.

FHGE: Non-GE Applicable Transferable: CSU/UC

MUS 12B

INTERMEDIATE CLASS PIANO

2 Units

2 Units

Degree & Credit Status: Degree-applicable credit course Advisory: MUS 12A or equivalent skills; this course is included in the Piano Class Applied Performance family of activity courses. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2 hours lecture, 1 hour laboratory. (36 hours total per quarter.) Continuation of MUS 12A with increased emphasis on independence of hands, proper hand position, building repertoire in different genres, variety in rhythmic figurations and articulation.

FHGE: Non-GE Applicable

Transferable: CSU/UC

MUS 12C ADVANCED CLASS PIANO

Degree & Credit Status: Degree-applicable credit course Advisory: MUS 12B or equivalent skills; this course is included in the Piano Class Applied Performance family of activity courses. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2 hours lecture, 1 hour laboratory. (36 hours total per quarter.) Continuation of MUS 12B with greater emphasis on building a repertoire, varied styles of performance, and ensemble playing. FHGE: Non-GE Applicable Transferable: CSU/UC

MUS 13A CLASS VOICE I 2 Units

2 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Concurrent enrollment in MUS 12A; this course is included in the Voice Class Applied Performance family of activity courses. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2 hours lecture, 1 hour laboratory. (36 hours total per quarter.)

An introduction to the fundamental techniques of vocal production and performance. Group vocal instruction with the potential to sing in a variety of musical styles. Emphasis on understanding the basic foundation of a healthy vocal technique and integrating that technique into songs. Topics include warm-up techniques, breath support, tone production, musical phrasing, diction and text communication, as well as an introduction to standard vocal repertoire and associated performance practices. FHGE: Non-GE Applicable Transferable: CSU/UC

MUS 13B CLASS VOICE II

2 Units

Degree & Credit Status: Degree-applicable credit course Advisory: MUS 13A or equivalent skills; concurrent enrollment in MUS 12A or equivalent skills; this course is included in the Voice Class Applied Performance family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture, 1 hour laboratory. (36 hours total per quarter.)

A continuation of MUS 13A at the intermediate level, with increased emphasis on tone production and support, expansion of vocal range, differentiate between the various styles of singing studied: classical, legitimate, mix and belt, develop more complex repertoire in a variety of languages, attention to communication of text, simple duet harmonies, and rehearsal practices with an accompanist. Transferable: CSU/UC

FHGE: Non-GE Applicable

MUS 13C CLASS VOICE III

2 Units

Degree & Credit Status: Degree-applicable credit course Advisory: MUS 13B or equivalent skills; concurrent enrollment in MUS 12A or equivalent skills; this course is included in the Voice Class Applied Performance family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture, 1 hour laboratory. (36 hours total per quarter.)

A continuation of MUS 13B, with emphasis on more refinement of vocal production. Emphasis on understanding and managing vocal passaggios, expansion of vocal styles to include classical and/or musical theatre repertoire. Small ensembles of duets with independent vocal lines. Leaning to create and communicate character will be introduced. Emphasis on ensemble building and collaboration with accompanist.

FHGE: Non-GE Applicable Transferable: CSU/UC

FOOTHILL COLLEGE

MUS 14A BEGINNING CLASSICAL GUITAR

Degree & Credit Status: Degree-applicable credit course

Advisory: This course is included in the Guitar Class Applied Performance family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture, 1 hour laboratory. (36 hours total per quarter.)

A guitar fundamentals course that places emphasis on reading standard notation in the first position. Techniques such as rest stroke, free stroke, and correct left hand position are covered. Fundamental exercises and pieces will be played by the student in class as the instructor provides accompaniment. Includes an overview of the literature and the major performers of the classical guitar. No public performances are required.

FHGE: Non-GE Applicable Transferable: CSU/UC

MUS 14B INTERMEDIATE CLASSICAL 2 Units GUITAR

Degree & Credit Status: Degree-applicable credit course

Advisory: MUS 14A; this course is included in the Guitar Class Applied Performance family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture, 1 hour laboratory. (36 hours total per quarter.)

Continuation of MUS 14A. Covers more advanced techniques for the right and left hands. Includes reading standard notation up to the 5th position. Increased emphasis is placed on solo guitar literature in addition to ensemble literature. No public performances are required.

FHGE: Non-GE Applicable Transferable: CSU/UC

MUS 14C ADVANCED CLASSICAL GUITAR 2 Units

Degree & Credit Status: Degree-applicable credit course Advisory: MUS 14B; this course is included in the Guitar Class Applied Performance family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture, 1 hour laboratory. (36 hours total per quarter.)

Continuation of MUS 14B. Covers more advanced techniques for the right and left hands. Includes reading standard notation up to the 9th position. Includes more complex solo ensemble literature. Additional class time is spent with lectures, demonstrations and performances. No public performances are required.

FHGE: Non-GE Applicable

BEGINNING ACOUSTIC GUITAR

Transferable: CSU/UC

2 Units

TECHNIQUES Degree & Credit Status: Degree-applicable credit course

Advisory: This course is included in the Guitar Class Applied Performance family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

MUS 15A

2 hours lecture, 1 hour laboratory. (36 hours total per quarter.)

A performance based course in beginning guitar (nylon, steel, or electric guitar) with a concentration on folk music. Traditional and popular songs will be used to demonstrate the development of right and left hand techniques. Standard music notation, tablature, and chord symbols will be presented and students can choose instrumental or popular vocal selections to play. FHGE: Non-GE Applicable Transferable: CSU/UC

MUS 15B

2 Units

INTERMEDIATE ACOUSTIC **GUITAR TECHNIQUES**

2 Units

Degree & Credit Status: Degree-applicable credit course Advisory: MUS 15A or equivalent; this course is included in the Guitar Class Applied Performance family of activity courses. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2 hours lecture, 1 hour laboratory. (36 hours total per quarter.)

Development of traditional finger-picking style playing and picking techniques. Solo and ensemble performance on an intermediate level. Emphasis on reading traditional notation, chord symbols and tablature. This course is a continuation of the study of the guitar in the popular and folk idiom. Through analysis, singing, performing and listening, various songs and styles will be studied. This is a performance based course with the broad range of folk music as its subject matter.

FHGE: Non-GE Applicable Transferable: CSU/UC

MUS 15C ADVANCED ACOUSTIC GUITAR 2 Units **TECHNIQUES**

Degree & Credit Status: Degree-applicable credit course

Advisory: MUS 15B or equivalent; this course is included in the Guitar Class Applied Performance family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture, 1 hour laboratory. (36 hours total per guarter.)

Instruction in the playing of popular and folk guitar with an emphasis on finger-picking, barre chords, and altered tunings. Sight reading in tablature, chord symbols, and standard notation. Instrumental Blues and blues scales will be covered.

FHGE: Non-GE Applicable Transferable: CSU/UC

MUS 38A

GUITAR ENSEMBLE I

Degree & Credit Status: Degree-applicable credit course Advisory: MUS 14C or ability to read notation.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture, 1 hour laboratory. (36 hours total per quarter.)

The study, rehearsal, and public performance of guitar repertoire (both guitar-only ensembles and guitars with other instruments), with emphasis on the development of the skills needed to perform within an ensemble. Students will learn to perform musically, rhythmically and with accurate intonation. Repertoire is contingent upon instrument availability and will include simple duets, trios, quartets from the Renaissance through Contemporary. Students must know how to read notation and possess a basic mastery of the instrument. Students learn to critique both their own and others' performances. Instructor will coach throughout. FHGE: Non-GE Applicable

Transferable: CSU/UC

MUS 38B GUITAR ENSEMBLE II

2 Units Degree & Credit Status: Degree-applicable credit course Advisory: Enrollment subject to audition and instructor assignment. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture, 1 hour laboratory. (36 hours total per quarter.)

Continuation of MUS 38A, focusing on the study, rehearsal, and public performance of guitar repertoire (both guitar-only ensembles and guitars with other instruments), with emphasis on the development of the skills needed to perform within an ensemble. Students concentrate on their musical skill through collaboration and will learn to perform musically, rhythmically and with accurate intonation at a second guarter level. Greater emphasis is placed on unity of attack, timbre, and communication. Students are expected to know how to read notation, possess an intermediate grasp of technique and have ensemble experience. Repertoire from the Renaissance through Contemporary, including Bach, Biberian, Handel, de Visee, Diabelli (contingent upon instrument availability). Students learn to critique both their own and others' performances. Instructor will coach throughout. FHGE: Non-GE Applicable Transferable: CSU/UC

MUS 38C **GUITAR ENSEMBLE III**

Degree & Credit Status: Degree-applicable credit course

Advisory: Enrollment subject to audition and instructor assignment. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2 hours lecture, 1 hour laboratory. (36 hours total per quarter.)

Continuation of MUS 38B, focusing on the study, rehearsal, and public performance of guitar repertoire (both guitar-only ensembles and guitars with other instruments), with emphasis on the development of the skills needed to perform within an ensemble. Students continue to develop ensemble abilities and will learn to perform musically, rhythmically and with accurate intonation with greater emphasis on dynamics, facility, and performance. Students learn to switch between melodic and accompaniment parts quickly and appropriately. Repertoire includes more intricate pieces by Bach, Pachelbel, Villa-Lobos, and Paganini (based upon instrument availability). Students learn to critique both their own and others' performances. Instructor will coach throughout. FHGE: Non-GE Applicable Transferable: CSU/UC

MUS 47A INTRODUCTION TO MUSICAL 6 Units THEATRE PRODUCTION

Degree & Credit Status: Degree-applicable credit course Advisory: Enrollment subject to audition and instructor assignment; this course is included in the Theatre Voice family of activity courses; not open to students with credit in THTR 47 or 47A. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

18 hours laboratory. (216 hours total per quarter.)

This course will introduce the fundamentals of musical theatre performance through the rehearsal and performance of a fully staged musical theatre production. Students are required to attend rehearsals and performances. FHGE: Non-GE Applicable Transferable: CSU/UC

MUS 47B

THEATRE PRODUCTION WORKSHOP

6 Units

6 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Enrollment subject to audition and instructor assignment; this course is included in the Theatre Voice family of activity courses; not open to students with credit in THTR 47B or 47X. Grade Type: Letter Grade or Pass/No Pass

INTERMEDIATE MUSIC

Not Repeatable.

18 hours laboratory. (216 hours total per quarter.)

This course will develop technical skills required at the intermediate level of musical theatre performance through the rehearsal and performance of a fully staged musical theatre production. Students are required to attend rehearsals and performances.

FHGE: Non-GE Applicable

Transferable: CSU/UC

MUS 47C

ADVANCED MUSIC THEATRE

PRODUCTION WORKSHOP

Degree & Credit Status: Degree-applicable credit course

Prerequisite: MUS 47B or THTR 47B.

Advisory: Enrollment subject to audition and instructor assignment; this course is included in the Theatre Voice family of activity courses; not open to students with credit in THTR 47C.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

18 hours laboratory. (216 hours total per quarter.)

Assists the student to develop technical skills required at the advanced level of musical theatre performance through the rehearsal and performance of a fully staged musical theatre production.

FHGE: Non-GE Applicable Transferable: CSU/UC 2 Units

ADVANCED MUSIC THEATRE **PRODUCTION WORKSHOP II** Degree & Credit Status: Degree-applicable credit course

Prerequisite: MUS 47C or THTR 47C.

Advisory: Enrollment subject to audition and instructor assignment; this course is included in the Theatre Voice family of activity courses; not open to students with credit in THTR 47D.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

18 hours laboratory. (216 hours total per guarter.)

This course will assist the student to develop technical skills required at the advanced level of musical theatre in the areas of stage direction or choreography through the rehearsal and performance of a fully staged musical theatre production.

FHGE: Non-GE Applicable Transferable: CSU/UC

SINGING TECHNIQUE FOR **MUS 48B** 4 Units MUSICAL THEATRE

Degree & Credit Status: Degree-applicable credit course Advisory: MUS 13A, 13B and 13C; this course is included in the Theatre Voice family of activity courses; not open to students with credit in THTR 48B.

Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Practical introduction to the fundamentals of singing for musical theatre repertoire. Students will explore the principals of healthy vocal production in solo and/or ensemble singing to develop the singing voice through exercises and repertoire from the Standard American Musical Theatre. Songs will be developed with strong emphasis on character development and communication.

FHGE: Non-GE Applicable Transferable: CSU/UC

MUS 48C MUSICAL THEATRE REPERTOIRE FOR SINGERS Degree & Credit Status: Degree-applicable credit course

Prerequisite: MUS 48B or THTR 48B.

Advisory: MUS 13C; this course is included in the Theatre Voice family of activity courses; not open to students with credit in THTR 48C. Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Vocal techniques and styles as utilized in musical theater. Instruction includes development of singing skills, basic body movement, acting technique, interpretation of Broadway song literature in a staged performance. Students are required to prepare a final project excerpted from a standard works. Attendance at all scheduled performances is required. Transferable: CSU/UC FHGE: Non-GE Applicable

MUS 70R	INDEPENDENT STUDY IN	1 Unit
	MUSIC/MUSIC TECHNOLOGY	
MUS 71R		2 Units
MUS 72R		3 Units
MUS 73R		4 Units
Degree & Credit	Status: Degree-applicable credit course	

ee & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3-12 hours laboratory per week. (36-144 hours total per quarter.)

Provides an opportunity for the student to expand their studies in Music or Music Technology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

FHGE: Non-GE Applicable

Transferable: CSU

MUS 83A MUSIC & MEDICINE

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MTEC 84A. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

Introduction to the field of music therapy and the creative powers of sound. Survey the history of the American Music Therapy Association as applied by practicing music therapists. Study diverse styles of music, including classical, jazz, blues, pop, hip-hop, new age and world music used as a transformative force to enhance social, emotional, educational, behavioral development and pain management. Apply music therapy concepts to compose and produce original music. Develop music making skills with drumming, group songwriting, lyric analysis, guided relaxation, movement, improvisation and original compositions integrated with the latest music software technologies, including Pro Tools and Virtual Instruments. Study prevention of injury and maintenance of health for musicians and performing artists. Survey careers in the music therapy industry, including degrees, certifications and multi-media production applications.

FHGE: Non-GE Applicable

Transferable: CSU

MUSIC TECHNOLOGY

Fine Arts and Communication

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MTEC 49

HISTORY OF MUSIC TECHNOLOGY

4 Units

4 Units

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

The history of music technology and sound recording from the earliest analog devices to current digital streaming services. How technological change is inseparable from economic, cultural and political change. Ways that music producers responded to different access of technologies shaped by geographical and economic factors. Historical, cultural and theoretical understanding of recorded sound, media, and digital distribution. How the digital era, laptop computers and mobile phones made home studios the dominant location for commercial record production. Hands-on experience with a variety of analog and digital audiovisual technologies. Identify hallmark sounds from commercially released recordings by historically significant audio engineers, music producers and artists. Transferable: CSU/UC

FHGE: Non-GE Applicable

MTEC 50A INTRODUCTION TO MUSIC 4 Units TECHNOLOGY

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 66A. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Introduction to creating music with computers, keyboards, audio samples and beats using Pro Tools and other digital audio workstations. Basic principles and use of MIDI sequencing/audio software. Songwriting, musical composition, mixing, mastering and the basic elements of music (pitch, rhythm, harmony, style and form) as they relate to contemporary music. Basic music production using Pro Tools. General computer literacy and media management. All styles are included, and prior musical training is not required. FHGE: Non-GE Applicable **Transferable: CSU**

MTEC 51A **STUDIO RECORDING I**

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 80A. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per guarter.)

Introduction to fundamental concepts and techniques of mixing boards, amplifiers, microphones, signal processors and their application to both live and studio sound reinforcement. Basic introduction to computer based recording with Avid Pro Tools HD systems. Microphone placement, physics of sound as it relates to recording, sound reinforcement and studio setup techniques.

FHGE: Non-GE Applicable

Transferable: CSU

STUDIO RECORDING II MTEC 51B

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 81 or 81A. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per guarter.)

Introduction to multitrack recording and production using AVID Pro Tools HD systems. Contemporary recording studio production techniques including microphone selection, placement, analog and digital signal paths, speaker monitors and studio acoustics. Techniques for recording drums, bass, piano, guitar, woodwinds, strings and vocals. Practical hands-on experience with professional recording artists and student collaborations. FHGE: Non-GE Applicable **Transferable: CSU**

MTEC 51C **STUDIO RECORDING III** 4 Units Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Advanced recording studio techniques, concepts and creative elements of professional music production. Advanced microphone techniques and acoustics. Planning and pre-production, studio team work, collaborating with musicians in the role of producer/engineer. Mixing, mastering, post production used in professional digital media content creation workflows. Utilizing analog and digital audio equipment in complex hybrid configurations. Successful completion of this class will prepare students for internship or entry level employment position in a recording studio, audio for post facility or mastering facility.

FHGE: Non-GE Applicable

Transferable: CSU

MTEC 52A **MIXING & MASTERING I** Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 81C. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Mixing and mastering multitrack recordings using Pro Tools. EQ, compression, reverb, delays, tempo maps, harmonic distortion, multi-band compression. Comparison and contrast of various styles of mixing including jazz, classical, country, rock, hip hop and electronica etc. Example exercises featuring professional recordings and mixes. Understanding and applying mixing concepts such as balance, dimension, and monitoring. Deliver final mixes that translate accurately to various speaker systems and listening environments.

FHGE: Non-GE Applicable

Transferable: CSU

4 Units

MTEC 52B MIXING & MASTERING II

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 81G. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Advanced mixing and mastering techniques with Pro Tools. EQ, compression, reverb, delays and tempo maps as applied to all styles of music including jazz, pop, rock, hip-hop, orchestral and electronica. Apply critical listening to mixes and enhance mixes with automation, audio plug-ins and external hardware equipment. Use multi-band compression and advancing audio processing in mastering. Study mixes of professional audio engineers and recording artists. Prepare to work in commercial production facilities and apply these techniques in a home studio. Learn professional collaboration workflows, file management and delivery to a wide range of formats including CD, DVD, MP3 and Internet Streaming. Although this course uses Pro Tools, the concepts and techniques can be applied to any digital audio workstation (Logic, Cubase etc.) or any traditional analog mixing console. **FHGE: Non-GE Applicable** Transferable: CSU

MTEC 53A AUDIO PLUG-INS & SIGNAL PROCESSING

4 Units

4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 81D. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Creative applications of software plugins and outboard hardware used in contemporary music production and sound design. Signal processing, equalization, compression, Beat Detective, distortion, reverb, delay, pitch correction, modulation, advanced plugin automation techniques. Compare plugins and processors from different companies, including Sonnox, McDSP, Massey, Avid, Antares and Waves. Waves Certification Program textbook provides high-quality, standardized means of mastering audio plugins. Practice with a wide range of material and genres, including rock, pop, hip hop, jazz, acoustic, orchestral, electronic and spoken word. Apply techniques to any digital audio workstation, including Pro Tools, Logic, Ableton Live and Studio One, and traditional analog mixing consoles.

FHGE: Non-GE Applicable

Transferable: CSU

MTEC 53B AUDIO PLUG-INS & 4 Units VIRTUAL INSTRUMENTS

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 81E. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Audio processing, mixing techniques and sound design using software plugins and hardware equipment. Study and compare plugins from different manufacturers. Drum and percussion libraries, sample triggering and audio quantizing techniques. Apply Melodyne and Auto-Tune pitch correction, EQ and compression, Elastic Audio editing. Create sounds with synthesizers, samplers, drum machines and virtual instruments. Apply traditional synthesis techniques, including filters and oscillators with audio plugins, hardware synthesizers and software emulations of acoustic instruments. Sound restoration plugins, forensic audio enhancement, convolution reverbs, advanced plugin automation and signal processing techniques. Exercises include sound design plugins for music, film, and video games.

FHGE: Non-GE Applicable

Transferable: CSU

MUSIC THEORY FOR AUDIO PRODUCERS

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Introductory course in music theory as applied to audio production, music technology and songwriting. Study elements of music, including melody, rhythm, chords and musical forms. Understand traditional music notation as applied to MIDI sequencers, Pro Tools and other Digital Audio Workstations (DAWS). Edit drum and percussion notation to program beats, MIDI sequencer Event Lists, and digital sample libraries. Ear training exercises for audio engineers to make equalization and production decisions based on harmonic overtones, key signatures and chord progressions. Selected listening and analysis of famous composers and award-winning producers in a wide variety of styles. Study the Nashville number music notation shorthand system. Develop ability to quickly and effectively recognize chord changes and transpose to any key. Learn to read, write and conduct orchestral scores used in commercial recording studios. Apply traditional music theory concepts to modern digital audio editing software, such as Melodyne, Autotune, Elastic Audio, and computer virtual instrument orchestration. FHGE: Non-GE Applicable **Transferable: CSU**

MTEC 55A INTRODUCTION TO GAME AUDIO Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 82F or 84A. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Recording, editing and mastering sound for games and interactive multimedia. Working with dialog, scripts, sound effects, foley, ambient backgrounds, loops, elastic audio, tempo matching, digital processing and plug-ins. Producing game music, layering, splicing, mixing cinematic audio. Deliver game audio formats to commercial players and end users. Hands-on experience with professional examples of game audio production soundtracks and workflows including Sony Computer Entertainment and Microsoft Game Studios. Part of Avid Pro Tools Certification training program. FHGE: Non-GE Applicable Transferable: CSU

MTEC 55B ADVANCED SOUND DESIGN FOR 4 Units GAMES

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 84B. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Designing and implementing sound effects for games and interactive media. Recording custom sound effects and working with commercial sound effects libraries. Advanced techniques for designing hard effects, foley sounds, and ambient backgrounds. Industry-standard workflows for sound effects implementation with audio middleware solutions. Hands-on experience with professional examples of game audio sound design on desktop, console, and mobile platforms.

FHGE: Non-GE Applicable

Transferable: CSU

MTEC 55C MUSIC COMPOSITION FOR GAMES 4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 84C. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per guarter.)

Composing, orchestrating, and implementing music for games and interactive multimedia. Fundamental composition and orchestration techniques for strings, brass, woodwinds, and percussion. Mixing and mastering finished compositions for optimal interactivity. Industry-standard workflows for interactive music implementation with sophisticated audio middleware solutions. Hands-on experience with professional examples of game music on desktop, console, and mobile platforms. FHGE: Non-GE Applicable **Transferable: CSU**

SOUND DESIGN FOR FILM MTEC 57A 4 Units & VIDEO

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MDIA 81B, MUS 81B or VART 81B.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Creating, editing, and mixing audio for film and video. Understanding aesthetic qualities of sound effects and music as they relate to story. Recording original sound elements and using commercial sound libraries. Editing, layering, and processing sound elements to create complex sound effects. Synchronizing audio to video using a digital audio workstation. Basics of mixing and mastering finished soundtracks for digital distribution. FHGE: Non-GE Applicable **Transferable: CSU**

MTEC 57B SURROUND SOUND PRODUCTION 4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 81J.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.) Record, mix, and produce surround music with digital audio workstations. Calibrating surround speaker systems, recording surround music in the studio and concert hall, multichannel mixing for music and post, processing source sound elements using surround reverbs and delays, mastering music and post sessions to industry specifications, and encoding mixes into popular surround formats. Analysis of historically significant surround sound music recordings and film soundtracks.

FHGE: Non-GE Applicable

Transferable: CSU

MTEC 60A **PRODUCING IN THE HOME** STUDIO I

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 60A. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

Design, set up and operation of an audio/video recording studio in a small environment. Space considerations, electrical requirements and acoustic treatment options. Computer requirements including processor speed, memory requirements, data storage devices and monitor selection/placement. MIDI keyboard types and compatibility, mixer selection and setup, cable selection and care, microphone design, and USB/firewire interface options. Software programs and compatibility issues. How to produce recordings from start to finish in a home studio.

FHGE: Non-GE Applicable

Transferable: CSU

MTEC 60B

PRODUCING IN THE HOME STUDIO II

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 60B. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

In-depth operation of an audio/video recording studio in a small environment. Microphone selection and placement, creative sound treatments in non-traditional environments, and application of plug-in effects. Use of auxiliary tracks and busses. Mixing and mastering in various digital formats. FHGE: Non-GE Applicable Transferable: CSU

MTEC 62A

COMPOSING & PRODUCING ELECTRONIC MUSIC I

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 6 or 67. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per guarter.)

Introduction to the tools and techniques used to create and perform electronic music in a variety of styles. Programming of virtual analog and digital synthesizers, developing techniques for recording unique instruments and sounds, creating custom single and multi-sample patches using software samplers, using algorithmic composition tools and techniques, building interactive performance systems using object-oriented programming environments, and adapting hardware and software for live performance. FHGE: Non-GE Applicable Transferable: CSU

MTEC 62B **COMPOSING & PRODUCING** 4 Units **ELECTRONIC MUSIC II**

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 66C. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Creating and editing sounds with synthesizers, samplers, drum machines and virtual instruments. Compose and produce music in a variety of styles, including commercial and experimental. Utilize MIDI and virtual instruments for songwriting, arranging and orchestration. Program analog synthesizer modules, including oscillators, filters, ADSR envelope generators and LFOs. Overview of third party virtual instruments and plugins. History of sampling and loop based compositional techniques. Create, edit, and arrange drum beats. Emulate acoustic instruments, violin sections, brass, woodwinds and choir. Organize sound libraries and virtual instrument templates for music production, TV, film, websites and video games. Work can be done in any major DAW that supports AU, AAX, or VST instruments, including Pro Tools, Logic, Cubase, Live, etc.

FHGE: Non-GE Applicable Transferable: CSU

COMPOSING & PRODUCING

MTEC 62C

4 Units

4 Units

ELECTRONIC MUSIC III Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Advanced techniques for electronic music production in a variety of genres. Recording and processing vocals. Advanced analog and digital synthesis and sound design techniques. Field recording of original samples for use in producing drum beats and textures. Mixing and mastering finished compositions for commercial distribution. Remixing existing songs from both stereo mixes and multi-channel stems. Creating dynamic, real-time live performances using a variety of hardware controllers.

FHGE: Non-GE Applicable

Transferable: CSU

MTEC 66A MUSIC VIDEO PRODUCTION

Degree & Credit Status: Degree-applicable credit course Advisory: MDIA 20; MTEC 57A; not open to students with credit in MUS 81F.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Beginning digital video production course. Learning the basics of digital video production by shooting a music video. Music videos provide a unique opportunity to look at the moving image from the perspective of a recorded piece of music. Ideal platform for developing essential technical skills while learning the importance of aesthetic choices in the video production process. Emphasis on the aesthetics and technical aspects of video camera operation; pre-production planning, including collaboration, visualization, and storyboarding; production techniques and concepts such as mise-enscene, set design, and lighting. Emphasis on visual story telling and creative problem solving.

FHGE: Non-GE Applicable

Transferable: CSU

MTEC 70A

PRO TOOLS 101-AVID CERTIFICATION

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 82A. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Introduction to Pro Tools with Avid Certification training material. Basic audio editing tools and techniques, plug-ins and mixing in the Pro Tools environment. Build sessions that include multitrack recordings of live instruments, MIDI sequences, virtual instruments, audio loops and beats. Practical experience with examples from major label recording artists and feature films. Understanding menus, windows, preferences and system configurations for Pro Tools in home studios and professional facilities. Intro to automation, dialog editing and audio post production for film and video. Required for Avid Pro Tools Certification.

FHGE: Non-GE Applicable

Transferable: CSU

MTEC 70B PRO TOOLS 110-AVID 4 Units CERTIFICATION

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 82B. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Pro Tools production concepts and techniques with Avid Certification training material. Recording, editing, routing audio and MIDI data. Managing Pro Tools sessions, using virtual instruments, plug-ins, loop recording, Elastic Audio, Beat Detective and music notation. Conform loops and beats to any tempo. Introduction to control surfaces, automation modes and signal path workflows. Practical applications with examples from professional recording artists including pop, rock, jazz and hip hop. Create tempo maps, meter changes and transpose key signatures. Required for Avid Pro Tools Operator Level Certification.

FHGE: Non-GE Applicable

Transferable: CSU

4 Units

4 Units

PRO TOOLS 201-AVID CERTIFICATION

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 82C. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Avid Pro Tools Certified training material covers concepts and skills needed to operate Pro Tools in a professional recording studio environment. Introduction to Pro Tools HD system configurations. Pro Tools HD features, including control surfaces, automation, advanced editing, mixing, hardware setup and session management. Practical examples and experience with exercise files from professional music, film and TV productions. Required class for Avid Pro Tools Operator Level Certification. Prepares for enrollment in Pro Tools 300 Expert Level Certification Courses.

FHGE: Non-GE Applicable Transferable: CSU

MTEC 70D PRO TOOLS 210M-AVID 4 Units CERTIFICATION

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 82D. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Avid Pro Tools Certified course completes skills needed to operate sophisticated Pro Tools systems in professional music production environments. Music production techniques, composing with MIDI, loop editing, sampling in Pro Tools, Beat Detective, drum replacement and augmentation, final mixing and mastering. Collaborate workflows between home studios and commercial recording facilities. Pro Tools keyboard shortcuts for increased efficiency. Practical examples and experience with exercise files from professional recording artists. Successful completion achieves Avid Pro Tools Operator Music Certification.

FHGE: Non-GE Applicable

Transferable: CSU

MTEC 70E

PRO TOOLS 210P-AVID CERTIFICATION 4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 82E. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.) Synchronizing Pro Tools for audio post production with film, video and multimedia. Recording and editing ADR (automated dialog replacement), music, sound effects and multichannel audio. Mixing stereo and surround sound formats synchronized to digital picture. Layback and export options for final delivery to broadcast industry formats including Quicktime and Avid media. Practical experience with examples from feature films, documentaries and TV commercials. Successful completion achieves Avid Pro Tools Operator Post Certification.

FHGE: Non-GE Applicable

Transferable: CSU

MTEC 70F

PRO TOOLS 310M-AVID

4 Units

CERTIFICATION Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 82G. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Advanced operation of Pro Tools in a professional music production environment. Audio recording, editing, MIDI, virtual instruments, final mix down, automation and mastering techniques. Integration of Pro Tools shortcuts and equipment configurations for increased efficiency in recording studio facility workflows. Hands-on experience with examples from major label recording artists, producers and mix engineers. Successful completion achieves Avid Pro Tools Expert Level Music Certification. FHGE: Non-GE Applicable Transferable: CSU

FOOTHILL COLLEGE

MTEC 70G

PRO TOOLS 310P-AVID CERTIFICATION

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per guarter.)

Advanced operation of Pro Tools in a professional post-production environment. Hardware configuration and troubleshooting for synchronization to linear and non-linear video. Foley recording techniques using the Avid PRE. Post-production sound design workflows utilizing plug-in processing and Elastic Audio. Mixing and automation concepts exploring the Pro Tools HD Mix Engine. Synchronizing multiple Pro Tools systems using Satellite Link. Advanced layback concepts for outputting linear and non-linear printmasters. Hands-on experience with examples from film and television. Successful completion prepares students for Avid Pro Tools Expert Level Post Certification.

FHGE: Non-GE Applicable

Transferable: CSU

PRODUCING MUSIC WITH REASON MTEC 72A 4 Units

Degree & Credit Status: Degree-applicable credit course

Advisory: Not open to students with credit in MUS 66B. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Creating and editing digital audio with Pro Tools and Reason. Introduction to Reason's virtual instruments including Dr. Rex, Subtractor, Malstrom, Thor, Redrum and NN-XT. Songwriting, musical composition, and the basic elements of music (pitch, rhythm, harmony, style and form) as they relate to contemporary music. Introduction to synthesis and digital sampling techniques. Integrate Reason and Pro Tools using ReWire, Pro Tools MIDI Editor and the Pro Tools Mixer.

FHGE: Non-GE Applicable

Transferable: CSU

MTEC 72B PRODUCING MUSIC WITH ABLETON LIVE

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 66E. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per guarter.)

Producing music with Ableton Live software. Compose, record, remix, improvise, produce and edit music. Study Ableton Live interface, edit audio, use plug-ins, MIDI sequencing and realtime mixing techniques. Compile live sets from audio clips, loops, samples in realtime and create songs in a variety of styles including R&B, Hiphop, Trance, Drum and Bass, and House Music. Integrate Ableton Live with Pro Tools for final mixing and delivery to dance clubs, radio stations and iTunes.

FHGE: Non-GE Applicable

Transferable: CSU

MTEC 72C

PRODUCING MUSIC WITH

LOGIC PRO X Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 66F. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Producing music with Apple Logic Pro software. Understanding the Logic Pro interface, windows and editors, navigation, key commands and screensets. MIDI editing, MIDI real-time control, audio recording and editing, and working with QuickTime video. Explore Logic Pro software instruments, including the ES2, EXS-24, Sculpture, UltraBeat, subtractive synthesizers and vintage instruments. Study critical listening examples with interactive demos and tutorials. Elements of production design, music composition and song form, arrangement tools and mixing techniques.

FHGE: Non-GE Applicable **Transferable: CSU**

MTEC 80A **MUSIC BUSINESS**

4 Units

4 Units

4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 50A. Grade Type: Letter Grade Only Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

Study of legal and business aspects of the music industry. Emphasis on publishing, licensing, and promotion. Copyright law, interaction between songwriters and music publishers, record companies, distributors and the rules that govern them. How music is licensed, service marks, trademarks and patents. The role of lawyers, agents, personal managers, producers and promoters. Licensing and copyright of intellectual properties in the growing multimedia industry and the internet. Synchronization of music in film, video and television. Career development and how major/independent labels market and distribute media. **Transferable: CSU**

FHGE: Non-GE Applicable

MTEC 80B **ENTERTAINMENT LAW &** 4 Units NEW MEDIA

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 50B. Grade Type: Letter Grade Only

Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

In-depth study and discussion of entertainment law as it applies to the emerging new media market and the music industry. Internet sales and distribution for new media, file sharing, licensing for the web, and digital copyright considerations. Promotional packages, web site development, delivery systems, career promotion strategies, contracts and touring. In-depth analysis of contracts and regulations/potential of starting an independent media production company, record label, or online retail site. Sampling licenses/international copyright law and publishing.

FHGE: Non-GE Applicable **Transferable: CSU**

MTEC 80C BASICS OF MUSIC PUBLISHING

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 18, 51, or 59. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Prepares the student to navigate the music publishing business by eliminating the legalese and explaining the business in everyday language. Class includes writing original songs for review. Active listening and constructive critiquing of original student compositions. FHGE: Non-GE Applicable **Transferable: CSU**

MTEC 82A

TECHNOLOGY

4 Units

4 Units

CAREERS IN MUSIC

Degree & Credit Status: Degree-applicable credit course

Advisory: Not open to students with credit in MUS 50C or 65. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

An overview of the music technology industry and career opportunities. Study degree and certification programs that lead to job positions in the content creation industry. Develop advertising and social media marketing skills to promote and brand artists and producers. Learn entrepreneurial strategies to advance student's career and collaborate with professionals. Apply music technology concepts to a wide variety of fields, including software development, sound design, video production, game audio, the record industry, manufacturing and live performance. Explore internship positions. Develop portfolios of content designed to enter the workforce or transfer to additional degree programs. Guest lectures from local industry professionals; field trips to studios, production facilities and high tech companies. FHGE: Non-GE Applicable **Transferable: CSU**

MTEC 82B MARKETING YOUR MUSIC

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 60C. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per guarter.)

Post Production, manufacturing, graphic design, marketing and managing all the aspects of a CD release from the mastering of an audio recording to sales and promotions of the final product. Creating a business, a publishing company, obtain copyrights for sampled audio or works of other artists, protect and promote original music. Create an image, photography and press kits for promotional campaigns, marketing, merchandise and sales. Making artistic and business decisions, working with manufacturing companies and graphic artists to create the final product for sale. FHGE: Non-GE Applicable Transferable: CSU

MTEC 82C INTRODUCTION TO THE VIDEO 3.5 Units GAME BUSINESS

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 50D. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2.5 hours lecture, 3 hours laboratory. (66 hours total per quarter.) Introduction to the video game business including how games are designed, manufactured, marketed and distributed. Examines the differences between game publishers and game developers. Breaks down different career paths in the industry and how their roles are integrated such as producers, artists, programmers, marketers, testers, etc. Covers the various market places for games and how they differ.

FHGE: Non-GE Applicable

Transferable: CSU

4 Units

4 Units

MTEC 84A **MUSIC & MEDICINE**

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 83A. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.) Introduction to the field of music therapy and the creative powers of sound. Survey the history of the American Music Therapy Association as applied by practicing music therapists. Study diverse styles of music, including classical, jazz, blues, pop, hip-hop, new age and world music used as a transformative force to enhance social, emotional, educational, behavioral development and pain management. Apply music therapy concepts to compose and produce original music. Develop music making skills with drumming, group songwriting, lyric analysis, guided relaxation, movement, improvisation and original compositions integrated with the latest music software technologies, including Pro Tools and Virtual Instruments. Study prevention of injury and maintenance of health for musicians and performing artists. Survey careers in the music therapy industry, including degrees, certifications and multi-media production applications.

FHGE: Non-GE Applicable

MTEC 88A

Transferable: CSU

WORKSHOP Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 58A.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

SONGWRITER'S

Workshop course for beginning songwriters that focuses on basic songwriting styles and techniques. Different songwriting basic methods are presented. Students are assigned weekly songwriting projects. Class is appropriate for basic levels of songwriting competency.

FHGE: Non-GE Applicable

Transferable: CSU

MTEC 88B MODERN SONG COMPOSITION

4 Units

4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 58B. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per guarter.)

Workshop course for intermediate songwriters that focuses on contemporary and songwriting methodology. Different songwriting components and structures are presented. Students are assigned weekly songwriting projects and are expected to submit finished songs with all the necessary components. Course includes analytical listening and discussion of various songwriting styles. Class is appropriate for medium levels of songwriting competency.

FHGE: Non-GE Applicable

Transferable: CSU

ADVANCED SONG STRUCTURE 4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 58C. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Workshop course for advanced songwriters that focuses on higher-level topics such as Self Criticism, Rewriting and Co-Writing. Demonstrations of the practical use of technique and an understanding of the works of the most accomplished professional songwriters. Class is appropriate for advanced levels of songwriting competency.

FHGE: Non-GE Applicable Transferable: CSU

NON-CREDIT: BASIC SKILLS

Non-Credit

MTEC 88C

650.949.6950 foothill.edu/psme/

NCBS 403A	BRIDGE TO COLLEGE LEVEL	0 Units
	MATHEMATICS I	

Degree & Credit Status: Non-degree-applicable basic skills-3 course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

25 hours total.

Part one of a bridge to college level mathematics program for students who seek to refresh mathematical reasoning, computational skills, and test-taking strategies. Topics include mathematical skills from arithmetic and pre-algebra.

FHGE: Non-GE Applicable

Transferable: None

0 Units

NCBS 403B

BRIDGE TO COLLEGE LEVEL MATHEMATICS II Degree & Credit Status: Non-degree-applicable basic skills-2 course

Advisory: Completion of NCBS 403A.

Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

25 hours total.

Part two of a bridge to college level mathematics program for students who seek to refresh mathematical reasoning, computational skills, and test-taking strategies. Topics include mathematical skills from beginning algebra and intermediate algebra.

FHGE: Non-GE Applicable

Transferable: None

NCBS 405

SUPPLEMENTAL INSTRUCTION: 0 Units PHYSICAL SCIENCE, MATH & ENGINEERING

Degree & Credit Status: Non-degree-applicable non-credit course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

60-360 hours total.

An open-entry, open-exit course for students who seek academic support, through supplemental instructions and use of computers, to fill in missing prerequisite knowledge and strengthen skills developed in a referring course or courses as follows: ACTG 1A-C, 1BH-CH, 51A-C, 52, 53, 58, 59, 60, 64A-B, 65, 66, 67, 68A-C, 75, 76; ANTH 1; ASTR 10A-B, 10BH, 10L, 54H; BIOL 1A-D, 8, 9, 10, 12, 13, 14, 15, 40A-C, 41, 45; CHEM 1A-C, 1AH-BH, 12A-C, 12AL-CL, 13AH-CH, 25, 30A-B; C S 1A-C, 1AH, 1M, 2A-C, 2M, 3A-C, 3M, 10, 18, 20A, 21A-B, 22A, 26A, 30A-E, 31A, 40A, 49, 50A-E, 52A-C, 53A-D, 54B, 54D, 56B, 60C, 63A, 64A, 71A, 80A, 81A, 82A, 84A-B; ECON 1A-B, 9, 9H, 25, 54H; ENGR 6, 10, 11, 35, 37, 37L, 40, 45, 47, 49, 70R; GEOG 1; MATH 1A-D, 1AH-BH, 1AHP-BHP, 2A-B, 10, 12, 17, 22, 42, 44, 48A-C, 70R, 105, 180, 217, 248A; NCBS 403A-B; PHYS 2A-C, 2AM-CM, 4A-D, 6, 12, 70R.

FHGE: Non-GE Applicable

Transferable: None

NON-CREDIT: BIOLOGICAL & HEALTH SCIENCES

Biological and Health Sciences 650.949.7249 foothill.edu/bhs/

NCBH 400	SUPPLEMENTAL INSTRUCTION:	0 Units
	BIOLOGICAL & HEALTH	
	SCIENCES	

Degree & Credit Status: Non-degree-applicable non-credit course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

36-360 hours total.

An open-entry, open-exit course for students who seek academic support through supplemental instruction and use of computers, to fill in missing prerequisite knowledge and strengthen skills developed in a referring course or courses as follows: AHS 52, 60A, 60D-F; D A 50, 51A-C, 53A-C, 56, 57, 58, 60A-B, 62A-C, 63, 71, 73, 74, 85, 88; D H 300A-B, 302, 304, 305A-D, 308, 316A-B, 318, 320A-D, 322, 326A-C; DMS 50A-B, 51A, 52A-C, 53A-C, 54A-B, 55A-B, 56A-B, 60A-F, 70A-E, 72A, 80A; EMS 50, 52, 53, 60A-B, 61A-B, 62A-B, 63A-B, 64A-B, 120; HLTH 20, 21, 22, 23; HORT 10, 15, 21, 22, 23, 24, 25, 26, 30, 31, 40, 45, 52C, 52E, 52G-H, 52M, 54A-D, 54J-L, 55A, 60B-D, 60F-G, 60J, 60L, 80A-G, 80I-K, 400A-C; PHT 50, 51, 52A-B, 53, 54A-B, 55A-C, 56A-B, 60, 61, 62; RSPT 50A-C, 51A-C, 52, 53A-B, 54, 55A-G, 56, 57, 60C, 61A-D, 62, 63A, 65, 70A-D, 82, 83, 84, 85, 86, 87A-B, 88; R T 51A-C, 52D, 53, 53A-D, 53AL-CL, 54A-C, 55A-C, 61B, 62A-C, 63, 63A-C, 64, 65, 71, 72, 75; V T 51, 51A-F, 52A-B, 53A-C, 54A-B, 55, 56, 57L, 58L, 60, 61, 66, 70, 72, 75A-C, 81, 83, 84, 84L, 85, 86, 88A, 89, 91, 92, 93, 95.

FHGE: Non-GE Applicable

Transferable: None

NON-CREDIT: COLLEGE SKILLS

Language Arts

650.949.7250 foothill.edu/la/

NCCS 405 COMMUNICATION & 0 Units CULTURE

Degree & Credit Status: Non-degree-applicable basic skills course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

60-360 hours total.

An open-entry, open-exit course for students who seek academic support in conversational English and discussing cultural topics. Instruction and/ or review of skills, such as pronunciation, self-repair, practicing small talk, and discussing issues of cultural interest, through supplemental instruction developed in a referring course or courses as follows: ENGL 1A, 1B, 1C, 1S & 1T, 110, 209, 242A, 242B, 246A; ESLL 125, 235, 236, 237. FHGE: Non-GE Applicable Transferable: None

NCCS 406 SUPERVISED TUTORING 0 Units

Degree & Credit Status: Non-degree-applicable non-credit course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

60 to 360 hours total.

This class provides instructional oversight and supervision of tutoring in various academic subjects through a designated learning center to augment classroom instruction. The course requires a referral from a subject-area instructor, counselor or supplemental instructor.

FHGE: Non-GE Applicable Transferable: None

NON-CREDIT: ENGLISH

Language Arts

650.949.7250 foothill.edu/english/

NCEN 400 ENGLISH BRIDGE

Degree & Credit Status: Non-degree-applicable basic skills-3 course Advisory: Not recommended for students in the ESLL pathway, or those who have already taken ENGL 1A or higher.

0 Units

Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

5 hours lecture. (60 hours total per quarter.)

Introduction to college-level English coursework, providing awareness of and access to college resources and pathways, and instruction in and review of reading comprehension, writing, test-taking and study strategies. Students develop techniques for understanding, discussing and writing about college-level texts; practice sentence-combining, grammar, and mechanics; reflect on their own reading and writing process; evaluate and create strategic approaches for college-level assignments; and learn tactics for improved test-taking. Emphasis is placed on developing positive attitudes and methods when tackling challenging texts and high-stakes writing assignments, such as timed in-class exams or the English placement test. Focus on collaboration with instructors, counselors, embedded tutors, and fellow students, to build confidence and gain the tools to succeed in college. **FHGE: Non-GE Applicable** Transferable: None

NCEN 401A BRIDGE TO TRANSFER ENGLISH

0 Units

Degree & Credit Status: Non-degree-applicable non-credit course Advisory: When enrolled in ENGL 1A, concurrent enrollment in NCEN 401A is required for students who do not meet the prerequisite requirement for ENGL 1A.

Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

2 hours lecture. (24 hours total per quarter.)

This course incorporates and contextualizes basic skills reading and writing strategies aligned with transfer level coursework. When taken as a corequisite to ENGL 1A, students receive additional basic skills support for success in ENGL 1A by practicing and reinforcing critical reading, thinking, and writing skills to engage further in the processes of expository and argumentative writing.

FHGE: Non-GE Applicable Transferable: None

NCEN 442A CRITICAL THINKING: 0 Units STUDENT-MANAGED PORTFOLIO DEVELOPMENT 0

Degree & Credit Status: Non-degree-applicable non-credit course Advisory: When enrolled in ENGL 1S, concurrent enrollment in NCEN 442A is required; otherwise, no corequisite is required. Grade Type: Pass/No Pass Only

Unlimited Repeatability.

2 hours lecture. (24 hours total per quarter.)

A survey of basic theory, design, and implementation strategies for the student-managed formative portfolio. Students write at least 750 words, with emphasis on the reflective and evaluative processes necessary for portfolio development. Practice in managing and maintaining the information and artifacts of a portfolio as a comprehensive analysis of the student learning experience. Use of portfolio development to increase meta-cognitive awareness of the integration between reading and writing processes; the student's location within discourse communities, including the campus community; and the behaviors necessary for college success across disciplines. FHGE: Non-GE Applicable Transferable: None

NCEN 442B CRI

CRITICAL THINKING: 0 Units PORTFOLIO MANAGEMENT & PUBLICATION

Degree & Credit Status: Non-degree-applicable non-credit course Advisory: When enrolled in ENGL 1T, concurrent enrollment in NCEN 442B is required; otherwise, no corequisite is required. Grade Type: Pass/No Pass Only

Unlimited Repeatability.

2 hours lecture. (24 hours total per quarter.)

Application of basic theory, design, and implementation strategies for the student-managed summative portfolio. Students write a total of at least 750 words, with emphasis on the reflective and evaluative processes necessary to enable them to meet the objectives of transfer level courses. Management and publication of the artifacts of a summative portfolio as a comprehensive demonstration of the student learning experience across the curriculum. Use of portfolio publication to demonstrate meta-cognitive awareness of the integration between reading and writing processes; of the student's location within discourse communities, including the campus community; and of the behaviors necessary for college success. Students will demonstrate ability to transfer knowledge and learning across disciplines. FHGE: Non-GE Applicable Transferable: None

NON-CREDIT: ENGLISH AS A SECOND LANGUAGE

Language Arts 408.745.8000 foothill.edu/esl/

NCEL 400 BRIDGE TO COLLEGE 0 Units

Degree & Credit Status: Non-degree-applicable non-credit course Advisory: Completion of the adult education course sequence or test score above 247 on the CASAS Level C Reading test.

Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

5 hours lecture. (60 hours total per quarter.)

A bridge to college course for non-native speakers of English that focuses on the development of English language skills within the context of the culture of the college classroom: selecting and registering for classes, reading and understanding the syllabus, completing assignments and meeting deadlines, taking quizzes and test, and classroom communication skills; the assessment of skills, exploration of life paths and the resources offered by the community college; the development of basic digital literacy skills to access information on the internet.

FHGE: Non-GE Applicable

Transferable: None

NCEL 401 ESL FOR CHILD CARE 0 Units PROVIDERS

Degree & Credit Status: Non-degree-applicable basic skills-3 course Advisory: Concurrent enrollment in a Child Development course. Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

2 hours lecture. (24 hours total per quarter.)

Develops basic written and oral communications skills needed for success in credit Child Development courses. Emphasis on practice of listening, speaking, reading and writing skills necessary in a typical credit-level child development course. Skills will be taught within the context of common child development topics such as age-appropriate development and behavioral issues. Intended for students in the child development program who need assistance gaining college level skills.

FHGE: Non-GE Applicable Transferable: None

NCEL 403A TRANSITIONING TO COLLEGE 0 Units ESL PART I

Degree & Credit Status: Non-degree-applicable basic skills-4 course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

36 hours total.

Introduction for the adult English-learner to the community college campus and requirements for successful studies, and to prepare ESL students for successful transition to credit college-level coursework. Primary focus will be on listening and speaking activities in the classroom, including note taking and class participation.

FHGE: Non-GE Applicable

Transferable: None

NCEL 403B TRANSITIONING TO COLLEGE 0 Units ESL PART II

Degree & Credit Status: Non-degree-applicable basic skills-4 course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

3 hours lecture. (36 hours total per quarter.)

Assists the adult English-learner to navigate the community college campus and requirements for successful studies, and prepares ESL students for successful transition to credit college-level coursework. Primary focus will be on reading and writing skills needed in and outside the classroom for academic success.

FHGE: Non-GE Applicable

Transferable: None

NCEL 405 INTRODUCTION TO COMPUTER 0 Units & INTERNET LANGUAGE FOR ESL

Degree & Credit Status: Non-degree-applicable non-credit course Advisory: One of the following NCEL level 1 courses is recommended: NCEL 411, 412 or 413.

Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

48 hours lecture total.

An introductory course for the adult English-learner to the computer and internet language needed to be successful on the community college campus and in college-level coursework. Primary focus is on developing language to communicate basic computer problems and directions for basic computer tasks, through listening, speaking, reading and writing activities in the classroom.

FHGE: Non-GE Applicable **Transferable: None**

NCFI 411 ADVANCED-BEGINNING 0 Units **ENGLISH AS A SECOND** LANGUAGE I

Degree & Credit Status: Non-degree-applicable basic skills-6 course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

10 hours lecture. (120 hours total per quarter.)

Introductory advanced-beginning level integrated skills course for learners of English as an additional language. Focus is on developing a basic level of grammar and vocabulary through listening, speaking, reading and writing so that learners can communicate with other English speakers in and outside of the classroom.

FHGE: Non-GE Applicable **Transferable: None**

NCEL 412

ADVANCED-BEGINNING ENGLISH AS A SECOND LANGUAGE II

Degree & Credit Status: Non-degree-applicable basic skills-6 course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

10 hours lecture. (120 hours total per quarter.)

Continuation of the advanced-beginning level integrated skills course for learners of English as an additional language. Focus on developing a basic level of grammar and vocabulary through listening, speaking, reading and writing so that learners can communicate with other English speakers in and outside of the classroom.

FHGE: Non-GE Applicable

Transferable: None

0 Units

0 Units

NCEL 413 ADVANCED-BEGINNING **ENGLISH AS A SECOND** LANGUAGE III

Degree & Credit Status: Non-degree-applicable basic skills-6 course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

10 hours lecture. (120 hours total per quarter.)

Final advanced-beginning level integrated skills course for learners of English as an additional language. Focus on developing a basic level of grammar and vocabulary through listening, speaking, reading and writing so that learners can communicate with other English speakers in and outside of the classroom.

FHGE: Non-GE Applicable

Transferable: None

NCEL 421

INTERMEDIATE ENGLISH AS A SECOND LANGUAGE I

Degree & Credit Status: Non-degree-applicable basic skills-5 course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

10 hours lecture. (120 hours total per guarter.)

Introductory intermediate level integrated skills course for learners of English as an additional language who already have a basic level of speaking, listening, reading and writing. Focus assists learners to advance in their development of grammar and vocabulary through listening, speaking, reading and writing.

FHGE: Non-GE Applicable

Transferable: None

NCEL 422	INTERMEDIATE ENGLISH AS A	0 Units
	SECOND LANGUAGE II	

Degree & Credit Status: Non-degree-applicable basic skills-5 course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

10 hours lecture. (120 hours total per quarter.)

This is a continuation of the intermediate level integrated skills course for learners of English as an additional language who already have a basic level of speaking, listening, reading and writing. The focus of this course is to help learners advance in their development of grammar and vocabulary through listening, speaking, reading and writing. Transferable: None

FHGE: Non-GE Applicable

NCEL 423 INTERMEDIATE ENGLISH AS A 0 Units SECOND LANGUAGE III

Degree & Credit Status: Non-degree-applicable basic skills-5 course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

10 hours lecture. (120 hours total per quarter.)

This is the final intermediate level integrated skills course for learners of English as an additional language who already have a basic level of speaking, listening, reading and writing. The focus of this course is to help learners advance in their development of grammar and vocabulary through listening, speaking, reading and writing.

FHGE: Non-GE Applicable **Transferable: None**

NCEL 425 DEVELOPING LISTENING 0 Units **& SPEAKING SKILLS**

Degree & Credit Status: Non-degree-applicable basic skills-4 course Advisory: NCEL 413 or higher.

Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

10 hours lecture. (120 hours total per guarter.)

Development of ability to listen to everyday English and to participate in everyday conversations. Introduction to academic listening and classroom interactional skills, discussion skills and the language of group work dynamics. Pronunciation work to develop clear speech and comprehension of naturally spoken American English. Transferable: None

FHGE: Non-GE Applicable

NCEL 426 HIGH-INTERMEDIATE GRAMMAR 0 Units

Degree & Credit Status: Non-degree-applicable non-credit course Advisory: Designed for students whose native language is not English; concurrent enrollment in ESLL 227 or NCEL 427 recommended; completion of noncredit ESL sequence or previous ESL coursework at Adult School is recommended.

Grade Type: Pass/No Pass Only

Unlimited Repeatability.

5 hours lecture. (60 hours total per quarter.)

A noncredit high-intermediate English course focusing on verb tenses, gerunds, infinitives, modal verbs in present, past, real present and future conditionals.

FHGE: Non-GE Applicable

297

Transferable: None

NCEL 427 HIGH-INTERMEDIATE READING 0 Units SKILLS

Degree & Credit Status: Non-degree-applicable non-credit course Advisory: Designed for students whose native language is not English; concurrent enrollment in ESLL 226 or NCEL 426 recommended; completion of noncredit ESL sequence or previous ESL coursework at Adult School is recommended.

Grade Type: Pass/No Pass Only

Unlimited Repeatability.

5 hours lecture. (60 hours total per quarter.)

An upper intermediate-level noncredit reading course focusing on developing comprehension skills and strategies for processing pre-college-level readings. In addition to developing vocabulary, students will demonstrate understanding of main ideas of texts by composing single- and multi-sentence writings in response to questions about the given texts. FHGE: Non-GE Applicable Transferable: None

NCEL 435 LISTENING/SPEAKING FOR 0 Units ACADEMIC PURPOSES

Degree & Credit Status: Non-degree-applicable non-credit course Advisory: Successful completion of ESLL 226 and 227, or NCEL 426 and 427 strongly recommended; placement test is suggested; intended for students whose native language is not English. Grade Type: Pass/No Pass Only

Unlimited Repeatability.

5 hours lecture. (60 hours total per quarter.)

A noncredit listening/speaking course focusing on preparing students for listening to authentic lectures and participating in classroom discussions and presentations.

FHGE: Non-GE Applicable

NCEL 436 ADVANCED GRAMMAR

0 Units

0 Units

Transferable: None

Degree & Credit Status: Non-degree-applicable non-credit course Advisory: Designed for students whose native language is not English; concurrent enrollment in ESLL 237 or NCEL 437 recommended; completion of noncredit ESL sequence or previous ESL coursework at Adult School is recommended; placement test is suggested.

Grade Type: Pass/No Pass Only

Unlimited Repeatability.

5 hours lecture. (60 hours total per quarter.)

Continuation of NCEL 426. An advanced noncredit English grammar course focusing on clause and phrase structures.

FHGE: Non-GE Applicable Transferable: None

NCEL 437 BASIC COMPOSITION SKILLS

Degree & Credit Status: Non-degree-applicable non-credit course Advisory: Designed for students whose native language is not English; concurrent enrollment in ESLL 236 or NCEL 436 recommended; completion of noncredit ESL sequence or previous ESL coursework at Adult School is recommended; placement test is suggested.

Grade Type: Pass/No Pass Only

Unlimited Repeatability.

5 hours lecture. (60 hours total per quarter.)

A basic noncredit course for non-native speakers focusing on college-level reading and writing skills. Development of readings skills through analysis of assigned readings. Production of short multi-paragraph compositions that develop focused main ideas using a variety of standard English sentences. Lecture, discussion, and individualized instruction. Does not meet the graduation requirement in composition.

FHGE: Non-GE Applicable

Transferable: None

NCEL 447

ADVANCED VOCABULARY DEVELOPMENT FOR READING & WRITING

Degree & Credit Status: Non-degree-applicable basic skills-2 course Advisory: Intended for students whose native language is not English. Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

3 hours lecture. (36 hours total per quarter.)

Expansion of academic vocabulary to meet the specific vocabulary needs for students in an academic setting. Multiple exposures to target words in meaningful contexts and rich information about each word. FHGE: Non-GE Applicable Transferable: None

NCEL 470	LOW TO INTERMEDIATE	0 Units
	VOCATIONAL ESL FOR FOOD	
	WORKERS	

Degree & Credit Status: Non-degree-applicable basic skills-4 course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

4 hours lecture. (48 hours total per quarter.)

Introductory low-to-intermediate level vocational English course for non-native speakers in the food service industry. Focus on improving comprehension and communication in a food service workplace. FHGE: Non-GE Applicable Transferable: None

NCEL 471 INTERMEDIATE TO ADVANCED 0 Units ESL FOR FOOD WORKERS

Degree & Credit Status: Non-degree-applicable basic skills-4 course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

4 hours lecture. (48 hours total per quarter.)

Intermediate-to-advanced level vocational English course for non-native speakers in the food service industry. Focus on improving comprehension and communication in a food service workplace.

FHGE: Non-GE Applicable Transferable: None

NCEL 480 ESL FOR JOB SEARCHING 0 Units

Degree & Credit Status: Non-degree-applicable basic skills-4 course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

4 hours lecture. (48 hours total per quarter.)

Designed to teach English for job searching to non-native speakers. Focus on developing reading/writing/speaking/listening skills needed for job searching and interviewing as well as improved understanding of American work culture.

FHGE: Non-GE Applicable

Transferable: None

NON-CREDIT: LANGUAGE ARTS

Language Arts 650.949.7250 foothill.edu/la/

NCLA 406A

SUPPLEMENTAL INSTRUCTION ENGLISH: ESSAY- &

PARAGRAPH-LEVEL REVISION

Degree & Credit Status: Non-degree-applicable basic skills course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

60 to 360 hours total.

An open-entry, open-exit course for students who seek academic support in English. Instruction and/or review of writing skills such as paragraphing, topic sentence, thesis, development, essay organization, sentence structure, basic sentence patterns, style, sentence mechanics, through supplemental instruction developed in a referring course or courses as follows: ENGL 1A, 1B, 1C, 1S & 1T, 110, 209, 242A, 242B, 246A.

FHGE: Non-GE Applicable

Transferable: None

COURSE CATALOG 2020-2021

SUPPLEMENTAL INSTRUCTION **ENGLISH: SENTENCE-LEVEL EDITING & PROOFREADING IN CONTEXT**

Degree & Credit Status: Non-degree-applicable basic skills course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

60 to 360 hours total.

An open-entry, open-exit course for students who seek academic support in English. Through individualized instruction, including one-on-one tutorials by an English department instructor, an instructional aide, and trained peer tutors as available, students receive help on sentence level (writing) and vocabulary development (reading). Course provides instruction and/or review of sentence level reading/writing skills such as basic sentence patterns, style and flow, sentence mechanics, proofreading, spelling and vocabulary development through supplemental instruction developed in a referring course or courses as follows: ENGL 1A, 1B, 1C, 1S & 1T, 110, 209, 242A, 242B, 246A.

FHGE: Non-GE Applicable

Transferable: None

NCLA 407A

RHETORIC OF APPLICATION WRITING

0 Units

Degree & Credit Status: Non-degree-applicable basic skills course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

THE GRAMMAR &

60-360 hours total.

This course provides students support and practice in editing and revising the grammar and rhetoric of personal statements for college and scholarship applications. Students will focus on using clear, relevant vocabulary; writing concisely and with correct sentence structure; maintaining appropriate tone; ordering information for impact; and expressing details pertinent to the audience. Students will have the opportunity to improve their critical reading, vocabulary, grammar and writing skills to craft essays typically required in applications to colleges and universities in the U.S. FHGE: Non-GE Applicable **Transferable: None**

NCLA 407B WRITING RESUMES & 0 Units **COVER LETTERS**

Degree & Credit Status: Non-degree-applicable basic skills course Advisory: CRLP 7, 73 and 74.

Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

60-360 hours total.

This course provides students support and practice in drafting resumes and cover letters. Students will focus on how to choose grammatically correct language that concisely describes work experience in a resume; to use structure that is parallel; and to implement appropriate tone in cover letters or letters of interest for potential jobs.

FHGE: Non-GE Applicable

Transferable: None

NCLA 407C **CONSTRAINTS** Degree & Credit Status: Non-degree-applicable basic skills course Grade Type: Non-credit course that receives no grade

WRITING UNDER TIME

Unlimited Repeatability.

60-360 hours total.

Offers students strategies, support, and practice in improving their writing skills under pressure (examples include SAT, GRE, TOEFL, and in-class writing assessments). Students will practice how to identify addressing the prompt, brainstorming, organizing their ideas, and writing them clearly and quickly.

FHGE: Non-GE Applicable

Transferable: None

NCLA 408

0 Units

VOCABULARY ACROSS THE DISCIPLINES

Degree & Credit Status: Non-degree-applicable basic skills course Grade Type: Non-credit course that receives no grade Unlimited Repeatability. 60-360 hours total.

Offers students strategies for sorting, categorizing, memorizing and applying terminology needed to succeed in a discipline course. Students will employ the use of matrices, charts, flashcards, etc. to effectively use new vocabulary required for an academic course.

FHGE: Non-GE Applicable Transferable: None

NON-CREDIT: PARENTING EDUCATION

Student Resource and Support Programs 650.949.6950 foothill.edu/childdevelopment/

NCP 400A STRONG START FOR CHILDREN 0 Units I: BIRTH-8 YEARS

Degree & Credit Status: Non-degree-applicable non-credit course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

8 hours total.

Introduces families and caregivers to stages of child development and best practices in parenting, and links students to resources focused on Early Years Development, birth through 8 years old. Emphasis placed on child development, effective communication and discipline, and school and college readiness focused on young children (birth through 8 years). Helps prepare students for credit classes in Child Development. May be offered bilingually. FHGE: Non-GE Applicable **Transferable: None**

NCP 400B STRONG START FOR CHILDREN 0 Units **II: NAVIGATING MIDDLE** SCHOOL

Degree & Credit Status: Non-degree-applicable non-credit course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

8 hours total.

Introduces families and caregivers to stages of child and adolescent development and best practices in parenting, and links students to resources focused on Middle School Age Development (children ages 10-14 years). Emphasis placed on child development, effective communication and discipline, and school and college readiness focused on Middle School aged children (10-14 years). Helps prepare students for credit classes in Child Development. May be offered bilingually. FHGE: Non-GE Applicable Transferable: None

NCP 400C

STRONG START FOR CHILDREN **III: PATHWAYS TO COLLEGE**

Degree & Credit Status: Non-degree-applicable non-credit course Grade Type: Non-credit course that receives no grade

Unlimited Repeatability. 8 hours total.

Introduces families and caregivers to stages of youth and adolescent development and best practices in parenting, and links students to resources focused on High School Age Development (children ages 15-18+ years). Emphasis placed on child development, effective communication and discipline, and school and college readiness focused on High School aged youth (15-18+ years). Helps prepare students for credit classes in Child Development. May be offered bilingually.

FHGE: Non-GE Applicable

Transferable: None

0 Units

NCP 401A NURTURING HEALTHY CHOICES 0 Units I: EARLY YEARS

Degree & Credit Status: Non-degree-applicable non-credit course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

8 hours total.

Introduces families and caregivers to healthy feeding and eating practices and best practices in parenting, and links students to resources focused on the Early Years (birth through 8 years). Emphasis placed on family wellness, nutrition and healthy feeding dynamics as related to the child's developmental stages. This course helps prepare students for credit classes in Child Development. May be offered bilingually. Transferable: None

FHGE: Non-GE Applicable

NURTURING HEALTHY CHOICES **NCP 401B** 0 Units **II: ADOLESCENT YEARS**

Degree & Credit Status: Non-degree-applicable non-credit course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

8 hours total.

Introduces families and caregivers to healthy feeding and eating practices and best practices in parenting, and links students to resources. Emphasis placed on family wellness, nutrition and healthy feeding dynamics as related to the child and youth developmental stages. This course helps prepare students for credit classes in Child Development. May be offered bilingually. FHGE: Non-GE Applicable **Transferable: None**

0 Units THE IMPORTANCE OF FAMILY **NCP 402A** IN THE LIVES OF CHILDREN I: EARLY YEARS

Degree & Credit Status: Non-degree-applicable non-credit course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

8 hours total.

Introduces families and caregivers to the importance of family in the lives of children and best practices in parenting, and links students to resources. Emphasis placed on family engagement linked to learning and student success; leadership; accessing resources; and navigating systems in multicultural communities. This course helps prepare students for credit classes in Child Development. May be offered bilingually.

FHGE: Non-GE Applicable

Transferable: None

NCP 402B

0 Units THE IMPORTANCE OF FAMILY IN THE LIVES OF CHILDREN **II: ADOLESCENT YEARS**

Degree & Credit Status: Non-degree-applicable non-credit course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

8 hours total.

Introduces families and caregivers to the importance of family in the lives of adolescents and best practices in parenting, and links students to resources. Emphasis placed on family engagement linked to learning and student success; leadership; accessing resources; and navigating systems in multicultural communities. This course helps prepare students for credit classes in Child Development. May be offered bilingually.

FHGE: Non-GE Applicable

Transferable: None

NCP 403

BUILDING BRIDGES, OPENING DOORS, RAISING **EMOTIONALLY HEALTHY** CHILDREN

Degree & Credit Status: Non-degree-applicable non-credit course Grade Type: Non-credit course that receives no grade Unlimited Repeatability. 24 hours total.

A Parents as Partners Series targeted to families and their caregivers, providers and educators serving these families. Provides an understanding of the importance of meeting emotional needs in raising healthy, school-college ready children through parenting and child development, prenatal through adolescence. Completion of this class helps prepare students for credit classes in Child Development. May be offered bilingually. FHGE: Non-GE Applicable **Transferable:** None

NON-CREDIT: SHORT-TERM VOCATIONAL

Biological and Health Sciences 408.745.8022 foothill.edu/bhs/

NCSV 400 GERIATRIC HOME AIDE 0 Units BASICS

Degree & Credit Status: Non-degree-applicable non-credit course Grade Type: Non-credit course that receives no grade Unlimited Repeatability. 60 hours total.

Prepares students to care for ambulatory elderly clients in their own homes with focus on basic clientele needs and skills required to meet those needs. Intended for students pursuing a career as a geriatric home aide. Completion of both NCSV 400 and 401 leads to a noncredit certificate in Geriatric Home Aide.

FHGE: Non-GE Applicable

Transferable: None

NCSV 401 **GERIATRIC HOME** 0 Units AIDE-NUTRITION Degree & Credit Status: Non-degree-applicable non-credit course

Grade Type: Non-credit course that receives no grade Unlimited Repeatability. 44 hours total.

Prepares students to care for ambulatory elderly clients in their own homes. Focus on nutrition, including dietary needs of geriatric and AIDS patients, cultural foods, cooking, and kitchen sanitation. Intended for students pursuing a career as a geriatric home aide. Completion of both NCSV 400 and 401 leads to a noncredit certificate in Geriatric Home Aide.

FHGE: Non-GE Applicable

Transferable: None

PHARMACY TECHNOLOGY

Biological and Health Sciences 650.949.7538 foothill.edu/pharmtech/

PHT 50 ORIENTATION TO PHARMACY TECHNOLOGY Degree & Credit Status: Degree-applicable credit course

Prerequisite: PHT 200L.

Grade Type: Letter Grade Only Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Orientation to the role and working environment of the pharmacy technician, in both inpatient and outpatient settings. An introduction to the legal responsibilities and technical activities of the pharmacy technician. Intended for students in the Pharmacy Technician Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

PHT 51 BASIC PHARMACEUTICS Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

This course will introduce students to the general concepts of law, legal liability, ethics, honesty and integrity as they relate to performing the responsibilities of a pharmacy technician in accordance with the profession's code of ethics. In addition, the course covers key laws and regulations governing the practice of pharmacy and also terminology relevant to the profession. Intended for students in the Pharmacy Technician Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

PHT 52A

INPATIENT DISPENSING

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture, 3 hours laboratory. (60 hours total per guarter.)

A general study of the usual technician functions associated with an institutional drug distribution system. Practical experience in the manipulative and record-keeping functions of extemporaneous preparations in an inpatient pharmacy. Intended for students in the Pharmacy Technician Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

PHT 52B

ASEPTIC TECHNIQUE & IV PREPARATION

Degree & Credit Status: Degree-applicable credit course Prerequisite: PHT 52A.

Grade Type: Letter Grade Only Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Compounding of sterile products according to the appropriate technique. An introduction to the concepts of sterility and incompatibility. The use of applicable quality assurance processes and performance of work in accordance with the laws, regulations, and standards which govern the preparation of sterile products, with special emphasis on the preparation of parenteral chemotherapy with strict adherence to all precautionary standards. Intended for students in the Pharmacy Technician Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

PHT 53 AMBULATORY PHARMACY PRACTICE

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

Not Repeatable.

3 Units

3 Units

3 Units

4 Units

3 hours lecture, 3 hours laboratory. (72 hours total per guarter.)

A review of the skills needed to operate effectively in an ambulatory setting, with emphasis on receiving and controlling inventory, processing prescriptions using computerized prescription processing, and medical insurance billing. Customer relations. Intended for students in the Pharmacy Technician Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

PHT 54A DOSAGE CALCULATIONS A 3 Units Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

Transferable: CSU

Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

An introduction to the use of pharmaceutical measuring systems, with emphasis on the metric system and intersystem conversions. Intended for students in the Pharmacy Technician Program; enrollment is limited to students accepted in the program. **Transferable: CSU**

FHGE: Non-GE Applicable

PHT 54B DOSAGE CALCULATIONS B Degree & Credit Status: Degree-applicable credit course 3 Units

3 Units

3 Units

Prerequisite: PHT 54A. Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Calculation of the correct oral and parenteral dosages of drugs using information from prescriptions or medications orders. Accurate determination of the correct amount of ingredients for the compounding of pharmaceutical products from a prescription or medications order. Intended for students in the Pharmacy Technician Program; enrollment is limited to students accepted in the program. **Transferable: CSU**

FHGE: Non-GE Applicable

PHARMACOLOGY A **PHT 55A**

Degree & Credit Status: Degree-applicable credit course Prerequisite: BIOL 14 or equivalent.

Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Introduction to the general principals of pharmacology and pharmacokinetics, with a focus on the anatomy, physiology and application of pharmacological principles pertaining to the peripheral and central nervous system. Drugs are discussed related to their mechanism of action, indications, adverse effects, contraindications, precautions and drug interactions. Intended for students in the Pharmacy Technician Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable Transferable: CSU

PHT 55B

Prerequisite: PHT 55A.

PHARMACOLOGY B

Degree & Credit Status: Degree-applicable credit course

Grade Type: Letter Grade Only Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

A study of the fundamentals of pharmacology with a focus on the anatomy, physiology and application of pharmacological principles related to various body systems and disorders; the cardiovascular system, respiratory system and gastrointestinal system. Drugs are discussed in relation to their mechanism of action, indications, adverse effects, contraindications, precautions and drug interactions. Intended for students in the Pharmacy Technician Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable Transferable: CSU

COURSE CATALOG 2020-2021

PHT 55C PHARMACOLOGY C

3 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: PHT 55B. Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

A study of the fundamentals of pharmacology with a focus on the anatomy, physiology and application of pharmacological principles related to various body systems and disorders; the endocrine system, infectious diseases, cancer, the immune system and nutrition. Drugs are discussed in relation to their mechanism of action, indications, adverse effects, contraindications, precautions and drug interactions. Intended for students in the Pharmacy Technician Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable	Transferable: CSU	

PHT 56A **DISPENSING & COMPOUNDING A** 3 Units Degree & Credit Status: Degree-applicable credit course

Prerequisite: PHT 50.

Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture, 3 hours laboratory. (60 hours total per quarter.)

General preparation of non-sterile solid and liquid pharmaceutical dosage forms for oral and topical use. Practical experience in the manipulative and record keeping functions associated with the compounding and dispensing of prescriptions for ambulatory patients. Study of dosage forms, advantages and disadvantages, uses, storage and packaging of pharmaceutical products. Intended for students in the Pharmacy Technician Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable **Transferable: CSU**

PHT 56B DISPENSING & COMPOUNDING B 3 Units Degree & Credit Status: Degree-applicable credit course

Prerequisite: PHT 56A.

Grade Type: Letter Grade Only

Not Repeatable.

2 hours lecture, 3 hours laboratory. (60 hours total per quarter.)

General preparation of topical, transdermal, rectal, ophthalmic, and otic pharmaceutical dosage forms. Practical experience in the manipulative and record keeping functions associated with the compounding and dispensing of prescriptions. Study of dosage forms, advantages and disadvantages, uses, storage and packaging of pharmaceutical products. Intended for students in the Pharmacy Technician Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

PHT 58

FUNDAMENTALS OF PHARMACOLOGY

4 Units

Degree & Credit Status: Degree-applicable credit course Prerequisites: BIOL 40A, 40B and 40C or equivalent. Advisory: One of the following: ENGL 1A, 1AH, or 1S & 1T; not open to students with credit in BIOL 46 or 58. Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 4 hours lecture. (48 hours total per quarter.)

General principles of pharmacology. Emphasis on drug-receptor interactions, second messenger systems, determinants of drug response, pharmacokinetics, bio transformation and excretion, pharmacogenetics, drug development and legal aspects of drug distribution. Application of pharmacological principles and concepts with emphasis on the various pharmacological classes of drugs in diverse patient populations. FHGE: Non-GE Applicable **Transferable: CSU**

PHT 60 RETAIL CLINICAL

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

12 hours clinical experience. (144 hours total per quarter.)

The practice of pharmacy technology skills in a retail environment developed in didactic and laboratory training. Activities will be evaluated by a preceptor at the site. Intended for students in the Pharmacy Technician Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

PHT 61	HOME HEALTH CARE SUPPLIES	3 Units
Degree & Cred	it Status: Degree-applicable credit course	
Prerequisite: Pl	HT 50.	

Grade Type: Letter Grade Only

Not Repeatable. 3 hours lecture. (36 hours total per quarter.)

A study of diseases and conditions which require continual health maintenance by the patient with tests and devices used to identify, monitor and control them. It also includes an evaluation of alternative forms of health care and a study of the vitamins and minerals commonly used in pharmaceutical preparations. Students will interpret various test equipment results and have a working knowledge of OTC and prescribed single/multiple use test kits and equipment. Intended for students in the Pharmacy Technician Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

HOSPITAL CLINICAL **PHT 62**

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

12 hours clinical experience. (144 hours total per quarter.)

The practice of pharmacy technology skills in either inpatient or outpatient hospital environments developed in didactic and laboratory training. Activities will be evaluated by a preceptor. Intended for students in the Pharmacy Technician Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

PHT 63 PHARMACY TECHNICIAN **CERTIFICATION EXAM (PTCE)** REVIEW

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

1 hour lecture, 1 hour laboratory. (24 hours total per guarter.)

Intended for students in the Pharmacy Technician Program or for students who have completed an ASHP accredited Pharmacy Technician Program. Course provides application requirements for the Pharmacy Technician Certification Exam (PTCE) and Pharmacy Technician license in the State of California. Comprehensive review of pharmacy technician technical and didactic competencies to prepare students for the Pharmacy Technician Certification Exam (PTCE). Also includes several mock practice Pharmacy Technician Certification Exams. Enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

4 Units

1 Unit

PHT 101

PHARMACY CAREERS A

4 Units

4 Units

4 Units

1 Unit

Degree & Credit Status: Degree-applicable credit course Advisory: Passing grade in high school algebra 1, biology, chemistry and two years of English.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

The first of three courses to be taken in series; intended for students enrolled in the CTE Pharmacy Careers Pathway Program. This course provides students with foundational knowledge crucial for success to pursue further education in pharmacy technology or other various allied health professions. Topics of instruction include basic anatomy and physiology, medical terminology and pharmaceutical abbreviations, dosage calculations, pharmaceutical preparations and medications, pharmacy practice, inter-professional education within the health care system--cultivating collaborative practice for providing patient-centered care (effective communication, teamwork, professionalism, etc.), learning strategies, effective study and life management skills all necessary for success in an allied health profession. FHGE: Non-GE Applicable **Transferable:** None

PHT 102

PHARMACY CAREERS B

Degree & Credit Status: Degree-applicable credit course Prerequisite: PHT 101.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

The second of three courses to be taken in series; intended for students enrolled in the CTE Pharmacy Careers Pathway Program. Topics of instruction build on content in the following areas; pharmacy law, dosage forms and calculations, pharmaceutical abbreviations, basic anatomy, physiology and medical terminology pertaining to the gastrointestinal, endocrine and reproductive systems, including diseases and medications used to treat conditions that affect these systems. Topics on inter-professional skills required to work effectively in a health care team.

FHGE: Non-GE Applicable

Transferable: None

PHARMACY CAREERS C **PHT 103** Degree & Credit Status: Degree-applicable credit course Prerequisite: PHT 102. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

The final course in a series of three; intended for students enrolled in the CTE Pharmacy Careers Pathway Program. This course continues to build on topics pertaining to the following areas: pharmaceutical compounding, various dosage formulations, complementary and alternative medicine, pharmaceutical calculations used in community and institutional practice, basic anatomy, physiology, and medical terminology pertaining to the renal/ urological and musculoskeletal systems, including diseases and medications used to treat conditions affecting these systems. It also covers California Board of Pharmacy requirements for technicians and provides an overview of the Foothill College Pharmacy Technician Program. Transferable: None

FHGE: Non-GE Applicable

PHT 200L PHARMACY TECHNICIAN AS A CAREER

Degree & Credit Status: Non-degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Introduction to the pharmaceutical sciences and the functions of a pharmacy technician in health care. Role of the pharmacy technician, areas of specialization in the field, technical standards, state registration requirements and employment opportunities.

FHGE: Non-GE Applicable

Transferable: None

PHILOSOPHY

Business and Social Sciences

650.949.7322 foothill.edu/philosophy/

PHIL 1 **CRITICAL THINKING &** 5 Units WRITING

Degree & Credit Status: Degree-applicable credit course Prerequisite: One of the following: ENGL 1A, 1AH, or 1S & 1T. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Develops understanding of informal logic and practical reasoning skills necessary for academic success, including tools needed to analyze information from a variety of sources such as academic essays, philosophic literature, news media and advertising. Focus on skills of argumentation including, but not limited to, elements of an argument, deductive and inductive forms of argumentation, the evaluation of arguments and the recognition of a variety of fallacies. Skills developed through a series of written assignments of increasing scope and difficulty culminating in a sophisticated argumentative essay.

FHGE: Communication & Analytical Thinking Transferable: CSU/UC

PHIL 2 INTRODUCTION TO SOCIAL 4 Units & POLITICAL PHILOSOPHY Degree & Credit Status: Degree-applicable credit course

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Social and political philosophies of classical, modern and contemporary thinkers. Issues of concern to include the justification and structure of the political state, constitution of government, individual rights and distribution of wealth.

FHGE: Humanities Transferable: CSU/UC

PHIL 4 INTRODUCTION TO

PHILOSOPHY

4 Units

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per guarter.)

Introductory survey of writings, principles and concerns of philosophy. Primarily examines major topics in the study of metaphysics and epistemology through reading and critical examination of the writings of major figures in the history of philosophy. Related topics of concern to include ethics, theology and political philosophy. Transferable: CSU/UC **FHGE: Humanities**

PHIL 7 INTRODUCTION TO SYMBOLIC 5 Units LOGIC

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

The use of logic as a tool for constructing, analyzing and evaluating arguments. Topics to be covered will be the basic construction of premises and conclusion to form arguments, common formal and informal fallacies, categorical propositions and syllogisms, propositional logic, natural deduction and predicate logic.

FHGE: Communication & Analytical Thinking Transferable: CSU/UC

PHIL 8 ETHICS

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 5 hours lecture. (60 hours total per quarter.)

Analysis and application of competing conceptions of the good. Course focuses on ethical theory (utilitarianism, duty-oriented ethics, virtue ethics, egoism, relativism, etc.) and various topics in applied ethics.

FHGE: Non-GE Applicable Transferable: CSU/UC

PHIL 11 INTRODUCTION TO THE 4 Units PHILOSOPHY OF ART & AESTHETICS

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Analysis of the nature of art and aesthetics as an aspect of philosophic discourse. Engagement with historical and contemporary philosophic literature regarding central topics of aesthetic concern. Topics include the possibility of defining and delineating art from other related fields of endeavor (craft, mass entertainment, video games, etc.); examination of the reasons and qualities that make some sensory experiences specifically artistic; the possibility, or otherwise, for defining objective standards of beauty and taste; the potential for deriving meaning, value and knowledge regarding the human condition from artistic endeavor. Topics illustrated through examples from classical through contemporary visual art, architecture, music, and film.

FHGE: Humanities Transferable: CSU/UC

PHIL 12 PHILOSOPHY OF SCIENCE Degree & Credit Status: Degree-applicable credit course

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

An investigation of major philosophical issues and problems regarding the nature of science, its importance and its implications for human understanding. In particular, the course will investigate the how scientific knowledge is constructed and how that knowledge influences our contemporary view of reality. Major issues in the course will include how science can be defined and demarcated from pseudoscience (astrology, creationism, new age spiritualism etc.), the concept of paradigms and paradigm shifts in the history of science, the role of inductive reasoning in science and its potential problems, and the importance of falsificationism in the development of scientific theory.

FHGE: Humanities

Transferable: CSU/UC

PHIL 20A

HISTORY OF WESTERN 4 Units PHILOSOPHY FROM SOCRATES THROUGH ST. THOMAS

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Examination of Western philosophy with an emphasis on Greek philosophy from Thales through Aristotle and selected medieval philosophers from Augustine to St. Thomas Aguinas.

FHGE: Humanities Transferable: CSU/UC 5 Units PHIL 20B

HISTORY OF WESTERN PHILOSOPHY FROM THE **RENAISSANCE THROUGH KANT**

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Examination of the major European philosophers and philosophic movements of the 17th and 18th centuries. Particular attention to paid to the transition out of the Medieval period into the Age of Enlightenment. FHGE: Humanities Transferable: CSU/UC

PHIL 24	СОМРА	RATIVE WOR	2LD	4 Units
	RELIGIC	NS: EAST		
-				

Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 Units

304

4 hours lecture. (48 hours total per quarter.)

Origin, history and significant ideas of the world's major Eastern religions. Particular focus on practice and concepts in Hinduism, Buddhism, Confucianism, Taoism, and Zen. **FHGE: Humanities**

Transferable: CSU/UC

PHIL 25 **COMPARATIVE WORLD** 4 Units **RELIGIONS: WEST** Degree & Credit Status: Degree-applicable credit course

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Explores the origin, history and significant ideas of the world's Western religions. Compares the fundamental insights, ideals and contributions toward the human moral heritage and wisdom of the Early Religions, Judaism, Zoroastrianism, Christianity, and Islam.

Transferable: CSU/UC **FHGE: Humanities**

PHIL 70R	INDEPENDENT STUDY IN PHILOSOPHY	1 Unit
PHIL 71R		2 Units
PHIL 72R		3 Units
PHIL 73R		4 Units
Degree & Credit St	atus: Degree-applicable credit course	

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3-12 hours laboratory per week. (36-144 hours total per quarter.)

Provides an opportunity for the student to expand their studies in Philosophy beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department. FHGE: Non-GE Applicable **Transferable: CSU**

PHOTOGRAPHY

Fine Arts and Communication 650.949.7082 foothill.edu/photo/

Foothill offers photography activity courses in two different family categories. No single course may be repeated. Enrollment is limited to six courses per family within the Foothill-De Anza Community College District. Please refer to the De Anza College Catalog for the corresponding families and courses.

Digital Photography Family: PHOT 4A, 4B, 4C & 72

Photography-Professional Practices Family: PHOT 22, 68C, 68E, 71, 74A, 74B, 74C & 78D

PHOT 4A PHOTOSHOP FOR 4 Units PHOTOGRAPHERS I

Degree & Credit Status: Degree-applicable credit course Advisory: PHOT 5 or equivalent; this course is included in the Digital Photography family of activity courses; not open to students with credit in PHOT 65A.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Introduction to the tools for expressive communication in digital photography using Adobe Photoshop and Adobe Photoshop Lightroom. Development of skills in image capture, enhancement, printing, and web publishing, for both fine art and commercial applications.

FHGE: Non-GE Applicable Transferable: CSU/UC

PHOT 4B

PHOTOSHOP FOR 4 Units PHOTOGRAPHERS II

Degree & Credit Status: Degree-applicable credit course

Advisory: PHOT 4A or equivalent experience; this course is included in the Digital Photography family of activity courses; not open to students with credit in PHOT 65B.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Intermediate-level exploration with the tools for expressive communication in digital photography using Adobe Photoshop and Adobe Photoshop Lightroom. Development of skills in image capture, enhancement, printing, and web publishing, for both fine art and commercial applications. FHGE: Non-GE Applicable Transferable: CSU/UC

PHOT 4C

PHOTOSHOP FOR PHOTOGRAPHERS III

Degree & Credit Status: Degree-applicable credit course Advisory: PHOT 4B or equivalent; this course is included in the Digital Photography family of activity courses; not open to students with credit in

PHOT 65C. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.) Advanced-level exploration with the tools for expressive communication in

digital photography using Adobe Photoshop and Adobe Photoshop Lightroom. Development of skills in image capture, enhancement, printing, and web publishing, for both fine art and commercial applications. FHGE: Non-GE Applicable Transferable: CSU/UC

PHOT 5 INTR

INTRODUCTION TO PHOTOGRAPHY

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

A survey of the historical and practical aspects of photography as an art form and social document. Students will be introduced to the use of light, composition and communication through images. Significant photographers from a diversity of backgrounds will inspire students in the practice of photography and developing an understanding of the varied uses of the photographic image in our culture, including advertising, journalism, social concern, fine art, and scientific applications. FHGE: Humanities Transferable: CSU/UC

MULTICULTURAL AMERICA

PHOT 8 PHOTOGRAPHY OF

4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in PHOT 8H. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Examination of photography's role in shaping ideas about race, class, gender, sexuality and national identity in America. Critical analysis of images from a wide range of genres, including commercial photography, portraiture, social documentary, photojournalism, ethnographic and scientific photography, erotica, and fine-art photography, discussed within their historical and social context.

FHGE: American Cultures & Communities, Humanities Transferable: CSU/UC

PHOT 8H HONORS PHOTOGRAPHY OF 4 Units MULTICULTURAL AMERICA

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant.

Advisory: Not open to students with credit in PHOT 8.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Examination of photography's role in shaping ideas about race, class, gender, sexuality and national identity in America. Critical analysis of images from a wide range of genres, including commercial photography, portraiture, social documentary, photojournalism, ethnographic and scientific photography, erotica, and fine-art photography, discussed within their historical and social context. The honors course offers an enriched and challenging experience for the more talented student, including deeper content, more rigorous grading, and more demanding and creative assignments requiring application of higher-level thinking, writing, and communication skills. **FHGE: American Cultures & Communities, Humanities Transferable: CSU/UC**

PHOT 10

4 Units

HISTORY OF PHOTOGRAPHY 4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: One of the following: ENGL 1A, 1AH, or 1S & 1T or equivalent; not open to students with credit in PHOT 10H.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

The history of still photography from the earliest investigations of the camera obscura to late 20th century electronic imaging. Emphasis on the role of photographs as a social and cultural force and on our artistic heritage of camera work.

FHGE: Humanities

305

Transferable: CSU/UC

PHOT 10H HONORS HISTORY OF PHOTOGRAPHY

4 Units

4 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant. Advisory: Not open to students with credit in PHOT 10. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

The history of still photography from the earliest investigations of the camera obscura to late 20th century electronic imaging. Emphasis on the role of photographs as a social and cultural force and on our artistic heritage of camera work. The honors course offers an enriched and challenging experience for the more talented student, including deeper content, more rigorous grading, and more demanding and creative assignments requiring application of higher-level thinking, writing, and communication skills. FHGE: Humanities Transferable: CSU/UC

PHOT 11 CONTEMPORARY ISSUES IN 4 Units PHOTOGRAPHY

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in PHOT 11H or 59. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.) Survey of contemporary issues in photography. Critical theory and other issues surrounding contemporary photographic practices are explored through the style and content of work by selected contemporary photographers. Censorship, copyright, appropriation, and other current issues affecting the contemporary photographer are discussed. The interplay of traditional and digital photography and how it affects our concepts of truth, reality, society, and culture.

FHGE: Humanities Transferable: CSU/UC

PHOT 11H

HONORS CONTEMPORARY ISSUES IN PHOTOGRAPHY

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant.

Advisory: Not open to students with credit in PHOT 11 or 59. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Survey of contemporary issues in photography. Critical theory and other issues surrounding contemporary photographic practices are explored through the style and content of work by selected contemporary photographers. Censorship, copyright, appropriation, and other current issues affecting the contemporary photographer are discussed. The interplay of traditional and digital photography and how it affects our concepts of truth, reality, society, and culture. The honors course offers an enriched and challenging experience for the more talented student, including deeper content, more rigorous grading, and more demanding and creative assignments requiring application of higher-level thinking, writing, and communication skills.

FHGE: Humanities

Transferable: CSU/UC

PHOT 22 PHOTOJOURNALISM

Degree & Credit Status: Degree-applicable credit course

Advisory: PHOT 72 or equivalent; this course is included in the Photography-Professional Practices family of activity courses; not open to students with credit in PHOT 63.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Instruction in basic skills needed for effective online and print photography for use in newspapers, magazines, web journals and blogs, with emphasis on developing appropriate behavior and craft needed in meeting deadlines for photojournal publication. Assignments include news photographs, human interest and feature pictures, and the picture story. Special emphasis on print quality, picture editing, layout design, image content and captioning. Introduction to digital capture, preparation of files and transmittal of photographs, and video and sound recording techniques. FHGE: Non-GE Applicable Transferable: CSU/UC

PHOT 57A PHOTOGRAPHIC PORTFOLIO 4 Units DEVELOPMENT

Degree & Credit Status: Degree-applicable credit course Advisory: PHOT 4B or instructor's permission.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Professional practices course for the organization and assembly of a photographic portfolio from concept to final presentation. This intensive advanced class requires building of a group of photographic works that function both individually and as a group. Goal setting for the vocational and transfer students and packaging work for school, job and exhibition applications will be a priority. Concerns will include how to build a portfolio and organize images that communicate clearly, how to utilize technical execution for effective communication and techniques for giving and receiving feedback to further photographic projects.

FHGE: Non-GE Applicable

Transferable: CSU

PHOT 57B PROFESSIONAL PRACTICES IN PHOTOGRAPHY

Degree & Credit Status: Degree-applicable credit course Advisory: PHOT 57A or instructor's permission. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Organization of photographic work from prior classes and projects to meet individual goals, including transfer, exhibition and employment. Development of professional materials, such as resume, website and business cards, as well as finalization of a photographic portfolio. Develop support materials for applications and exhibitions. Share work with photography community through exhibition or other methods of display. FHGE: Non-GE Applicable Transferable: CSU

PHOT 68C STUDIO LIGHTING TOPICS IN 1 PHOTOGRAPHY

1 Unit

4 Units

Degree & Credit Status: Degree-applicable credit course

Advisory: PHOT 5; this course is included in the Photography-Professional Practices family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Investigation of a specific aspect or topic of photography through discussion and demonstration by the instructor(s).

FHGE: Non-GE Applicable

Transferable: CSU

PHOT 68E LECTURE TOPICS IN PHOTOGRAPHY

Practices family of activity courses.

Not Repeatable.

PHOT 73R

Grade Type: Letter Grade or Pass/No Pass

1 hour lecture. (12 hours total per quarter.)

Degree & Credit Status: Degree-applicable credit course

4 Unit

STUDIO PHOTOGRAPHY TECHNIQUES I

4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: PHOT 5; this course is included in the Photography-Professional Practices family of activity courses; not open to students with credit in PHOT 74.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Introduction and overview to studio lighting, digital medium format cameras, exploration of photographic practices in a studio environment; emphasis on developing effective skills and techniques necessary to begin a career in studio photography. FHGE: Non-GE Applicable Transferable: CSU

PHOT 74B	STUDIO PHOTOGRAPHY	4 Units
	TECHNIQUES II	

Degree & Credit Status: Degree-applicable credit course

Advisory: Completion of one or more of the following courses: PHOT 4A, 5, 72, 74A; this course is included in the Photography-Professional Practices family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

This course follows PHOT 74A and is intended to teach intermediate level skills in studio photography. Proper and creative use of digital small and medium format cameras, and lighting in a studio environment. Emphasis on developing the specific photographic skills, techniques and business practices necessary for success in a photography career path that is chosen by the student in consultation with the instructor, e.g., wedding, product, portrait, editorial, still-life or illustration, etc.

FHGE: Non-GE Applicable Transferable: CSU

PHOT 74C	STUDIO PHOTOGRAPHY	4 Units
	TECHNIQUES III	
Degree & Credit	Status: Degree-applicable credit course	

Advisory: Completion of one or more of the following courses: PHOT 72, 74A, 74B; this course is included in the Photography-Professional Practices family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

This course follows PHOT 74A and 74B. Emphasis is on acquiring advanced skills and techniques in studio lighting and studio operations. Students work towards the creation of a focused portfolio suitable for employment as a photography assistant, the creation of a small business/sole proprietorship in wedding, portraiture, editorial, advertising, and/or fine art studio photography.

FHGE: Non-GE Applicable Transferable: CSU

PHOT 78A	LANDSCAPE FIELD STUDY IN	1 Unit
	PHOTOGRAPHY	
	CLI D. P. LL PL	

Degree & Credit Status: Degree-applicable credit course Advisory: PHOT 5; not open to students with credit in PHOT 78. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Investigates historical and contemporary approaches to photographing landscape. Through field trips, lecture and demonstrations, students will learn about ways that other photographers have interpreted the landscape. Photographic techniques will enable students to develop a personal approach to photographing the landscape.

FHGE: Non-GE Applicable Transferable: CSU

sion and demonst	ration by the inst	ructor(s).	
FHGE: Non-GE A	pplicable	Transferable: CSU	
PHOT 70R	INDEPEND	ENT STUDY IN	1 Unit
	PHOTOGR	APHY	
PHOT 71R			2 Unit
PHOT 72R			3 Unit

Investigation of a specific aspect or topic of photography through discus-

Advisory: PHOT 5; this course is included in the Photography-Professional

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3-12 hours laboratory per week. (36-144 hours total per quarter.)

Provides an opportunity for the student to expand their studies in photography beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department. FHGE: Non-GE Applicable Transferable: CSU

PHOT 71 THE PHOTOGRAPHIC BOOK 4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: PHOT 4A, 5, or equivalent experience; this course is included in the Photography-Professional Practices family of activity courses. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.) Exploration of the book for the display and sharing of photographic imagery, including the history of the photographic book and its uses in fine art, commercial and documentary photography. Use of appropriate technology for creation of photographic books, including digital image editing, color correction, graphic design and typography. Investigation of sequencing and presentation of photographs in book format for communication. FHGE: Non-GE Applicable Transferable: CSU

PHOT 72

LIGHTROOM & PHOTOGRAPHIC DESIGN

Degree & Credit Status: Degree-applicable credit course Advisory: PHOT 5 or equivalent experience; this course is included in the Digital Photography family of activity courses. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Develop intermediate photographic skills with the use of Adobe Photoshop Lightroom and photographic design techniques. Evaluate and utilize current methods of workflow, including archiving, file management, development, image publishing, beginning color management and printing. Build skills in composition, design, project editing and visual communication. Utilize design principles to create images that communicate effectively. FHGE: Non-GE Applicable Transferable: CSU FIGE: NON-GE

PHOT 78B SOCIAL CONCERNS FIELD STUDY IN PHOTOGRAPHY

Degree & Credit Status: Degree-applicable credit course Advisory: PHOT 5. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Investigation of a specific aspect or topic of photography through discussion and demonstration by the instructor(s) in the field. FHGE: Non-GE Applicable **Transferable: CSU**

PHOT 78C DOCUMENTARY FIELD STUDY 1 Unit IN PHOTOGRAPHY

Degree & Credit Status: Degree-applicable credit course Advisory: PHOT 5. Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 1 hour lecture. (12 hours total per quarter.) Investigation of a specific aspect or topic of photography through discussion and demonstration by the instructor(s) in the field.

FHGE: Non-GE Applicable Transferable: CSU

MUSEUM/GALLERY FIELD PHOT 78D 1 Unit **STUDY IN PHOTOGRAPHY**

Degree & Credit Status: Degree-applicable credit course Advisory: PHOT 5; this course is included in the Photography-Professional Practices family of activity courses. Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 1 hour lecture. (12 hours total per quarter.) Investigation of a specific aspect or topic of photography through discussion and demonstration by the instructor(s) in the field.

Transferable: CSU

FHGE: Non-GE Applicable

PHYSICAL EDUCATION

Kinesiology and Athletics 650.949.7742 foothill.edu/kinesiology/

Foothill offers physical education activity courses in eight different family categories. No single course may be repeated. Enrollment is limited to six courses per family within the Foothill-De Anza Community College District. Please refer to the De Anza College Catalog for the corresponding families and courses.

Aquatic Family: PHED 10A, 10B, 10C, 11A, 11B & 11C

Cardio Fitness Family: PHED 22E, 23A, 23B, 27, 27A, 27B, 27C, 41, 41A & 41B

Combatives Family: PHED 17A, 17B, 18, 18B, 18C, 19B, 19C & 19D

Cross Training Family: PHED 47B, 47C, 49A & 49B

Flexibility & Stability Family: PHED 20A, 20B, 21, 21A, 21B, 21C, 21D, 21E, 22, 22A, 22B & 22C

Individual Sports Family: PHED 15A, 15B, 15C, 24, 24A, 24C, 24D, 25A, 25B, 26, 26A, 26C, 33, 33A, 33B, 36A, 36B, 36C, 37, 37A, 37B & 42

Strength Development Family: PHED 14, 45, 45A, 45C, 46, 46A & 46B

Team Sports Family: PHED 13, 13A, 13C, 31A, 31B, 31C, 38A, 38B, 38C, 40, 40A, 40C & 43A

PHED 10A

1 Unit

AQUATICS: LEVEL I, **BEGINNING SWIMMING**

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Aquatic family of activity courses. Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 3 hours laboratory. (36 hours total per quarter.)

Introduction to swimming and safety skills. Includes physical and mental adjustment to water, buoyancy and body position, survival skills, and basic swim strokes. Transferable: CSU/UC

FHGE: Lifelong Understanding

1 Unit **AQUATICS: LEVEL II,** INTERMEDIATE SWIMMING

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Aquatic family of activity courses. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

PHED 10B

3 hours laboratory. (36 hours total per quarter.)

A continuation of development of swim and safety skills beyond the beginning phase. Includes physical and mental adjustment to water, buoyancy and body position, survival skills, and the basic competitive swim strokes. Includes intermediate water safety skills and knowledge leading to safe practices while in, on or about the water. FHGE: Lifelong Understanding Transferable: CSU/UC

PHED 10C AQUATICS LEVEL III, 1 Unit MASTERS SWIMMING/ADVANCED **SWIM TRAINING**

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Aquatic family of activity courses. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Advanced programs and concepts of swim strokes, competitive flip turns, and endurance training for competition. FHGE: Lifelong Understanding Transferable: CSU/UC

PHED 11A WATER EXERCISE

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Aquatic family of activity courses. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

A unique non-impact form of aquatic exercise to improve cardiovascular endurance, muscular strength, endurance, and flexibility while wearing a flotation belt to maintain an upright position in deep water. FHGE: Lifelong Understanding Transferable: CSU/UC

PHED 11B **AQUATIC FITNESS**

1 Unit

1 Unit

1 Unit

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Aquatic family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

An aerobic water fitness program applying the basic principles of exercise and dynamics of water movement.

FHGE: Lifelong Understanding Transferable: CSU/UC

PHED 11C WATER AWARENESS Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Aquatic family of activity courses.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Water awareness for non-swimmers, including basic water safety information as well as elementary swim techniques. FHGE: Lifelong Understanding Transferable: CSU/UC

BEGINNING WATER POLO Degree & Credit Status: Degree-applicable credit course

Advisory: This course is included in the Team Sports family of activity courses.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Basic water polo skills and techniques, including ball handling, dribbling, passing, shooting and blocking. Includes an introduction to the rules of the game as well as basic tactical strategies for offense and defense. FHGE: Lifelong Understanding Transferable: CSU/UC

INTERMEDIATE WATER POLO PHED 13A

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Team Sports family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Intermediate water polo skills and techniques, including ball handling, dribbling, passing, shooting, and blocking. Includes a review of the rules of the game, team offense, team defense, developing players at specific positions and an introduction to specific team plays and strategies.

FHGE: Lifelong Understanding Transferable: CSU/UC

PHED 13C WATER POLO: GAME SKILLS

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Team Sports family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Practice and preparation for competitive water polo, emphasizing water polo skills, fundamentals and strategies of the game, position specific training and full body preparation.

FHGE: Lifelong Understanding

Transferable: CSU/UC

PHED 14 NUTRITIONAL ASSESSMENT 1 Unit & FITNESS

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Strength Development family of activity courses; not open to students with credit in PHED 50C. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

A study of nutritional concepts, body fat assessment and work-out programs for lifetime fitness. Transferable: CSU/UC

FHGE: Lifelong Understanding

1 Unit

PHED 15A **BEGINNING PICKLEBALL**

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Individual Sports family of activity courses. Grade Type: Letter Grade Only

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Strategy and competition for both singles and doubles pickleball play. FHGE: Lifelong Understanding Transferable: CSU/UC

PHED 15B INTERMEDIATE PICKLEBALL

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Individual Sports family of activity

courses. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Focus on the strategies of singles and doubles play. Includes introduction to serving long and short, forehands smashes, drop shots, angle play, and doubles formations. Transferable: CSU/UC

FHGE: Lifelong Understanding

ADVANCED PICKLEBALL PHED 15C

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Individual Sports family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Focus on the strategies of singles and double play, including serving with a variety of spins, forehand and backhand smashes, drop shots, angle play and doubles formations. Strong emphasis on fitness, flexibility and nutrition. How to design a point, set and match will also be a main focus. FHGE: Lifelong Understanding Transferable: CSU/UC

BEGINNING KARATE

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Combatives family of activity courses; not open to students with credit in H P 84X.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Introduction to beginning skills and techniques of karate. Includes punching, blocking, striking and kicking techniques.

FHGE: Lifelong Understanding Transferable: CSU/UC

PHED 17B INTERMEDIATE KARATE

1 Unit

1 Unit

1 Unit

1 Unit

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Combatives family of activity courses; not open to students with credit in H P 84A. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Intermediate karate skills and techniques. Analysis and application of biomechanics, individual and group interaction, and uses of karate. FHGE: Lifelong Understanding Transferable: CSU/UC

PHED 18 BEGINNING TAI CHI (TAIJI)

1 Unit

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Combatives family of activity courses; not open to students with credit in PHED 19A. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Introduces the fundamentals and principles of Taijiquan. Emphasizes body alignment in stillness with natural breathing and its relationship to mindbody awareness. Traditional Chen-style Taijiquan Lao Jia (Old Frame) first routine and the standing posture with breathing exercises (Wuji Qigong) will be practiced to facilitate the development of basic body strength and mind-body coordination.

FHGE: Lifelong Understanding

Transferable: CSU/UC

1 Unit

1 Unit

1 Unit

PHED 17A

PHED 18B **INTERMEDIATE TAI CHI (TAIJI)**

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Combatives family of activity courses.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Focuses on the understanding and transition of body alignment in stillness to dynamic alignment during the Taijiquan form practice. Emphasizes maintaining the body alignment during movements and through motion with natural breathing. External movements guiding the internal energy flow exercises (Hun Yuan Qigong) and a series of connected spiral movements (Silk Reeling Exercises) will be taught in this class as well as to mind body awareness. Practice of second section of Chen-style Taijiquan Lao Jia (Old Frame) first routine to facilitate the development of the body-ground connection.

FHGE: Lifelong Understanding

PHED 18C ADVANCED TAI CHI (TAIJI)

1 Unit

Transferable: CSU/UC

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Combatives family of activity

courses.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours laboratory. (36 hours total per guarter.)

Focuses on the applications and dynamic alignment during the Taijiquan form practice. Emphasizes total integration of mind and body movements through Taijiquan push-hand exercises and the development of ting jin (listening energy). Emphasis on the sensitivity and awareness of surroundings to achieve a focused center in order to neutralize and redirect incoming forces.

FHGE: Lifelong Understanding Transferable: CSU/UC

PHED 19B **KICKBOXING FOR FITNESS**

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Combatives family of activity courses.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Introduction to the basic skills and mechanics of kickboxing for fitness. Total cardiovascular workout emphasizing basic footwork, body mechanics, punching and kicking combinations and basic offensive and defensive techniques.

FHGE: Lifelong Understanding

Transferable: CSU/UC

PHED 19C INTERMEDIATE KICKBOXING 1 Unit FOR FITNESS

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Combatives family of activity courses.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Focuses on punching and kicking combination drills, with fewer breaks or interruptions, and with an increase in intensity, impact and duration. An emphasis is placed on intermediate level footwork and body mechanics to improve coordination, reaction time and balance. Transferable: CSU/UC

FHGE: Lifelong Understanding

PHED 19D

1 Unit

1 Unit

ADVANCED KICKBOXING FOR FITNESS

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Combatives family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Emphasizes high-intensity and moderate- to high-impact advanced level kickboxing sequences using complex and choreographed movements. FHGE: Lifelong Understanding Transferable: CSU/UC

BEGINNING MAT PILATES 1 Unit PHED 20A

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Flexibility & Stability family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Beginning Pilates stresses the fundamentals and principles of the Pilates method. Traditional mat Pilates exercises and principles are combined to achieve body control, core strength and joint mobility. FHGE: Lifelong Understanding Transferable: CSU/UC

PHED 20B INTERMEDIATE MAT PILATES

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Flexibility & Stability family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Intermediate level mat Pilates, focusing on fluid transitions between stretching and strengthening intermediate exercises to improve coordination, endurance, posture, flexibility and balance for a more streamlined shape. Focuses on neutral pelvic placement and increasingly challenging series of exercises considered intermediate.

FHGE: Lifelong Understanding Transferable: CSU/UC

FOUNDATIONS OF YOGA PHED 21

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Flexibility & Stability family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Introduction to the fundamentals of yoga, including foundation principles and practices. Emphasis on the demonstration and practice of correct alignment, balance and connection for yoga poses (asanas), yogic locks, and pranayama (breathing techniques) for overall fitness and stress management. FHGE: Lifelong Understanding Transferable: CSU/UC

PHED 21A **BEGINNING HATHA YOGA** 1 Unit

1 Unit

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Flexibility & Stability family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Principles and methods of practice in the discipline of beginning hatha yoga. Emphasis on the practice and demonstration of the beginning postures and the usage of hatha yoga for increased focus and concentration, integration of personal values and actions, and integration of mind, body and spirit.

FHGE: Lifelong Understanding

Transferable: CSU/UC

1 Unit

1 Unit

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PHED 21B INTERMEDIATE HATHA YOGA

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Flexibility & Stability family of activity courses.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Intermediate training in yoga, skills and techniques with independent, group, and personalized training. Emphasis is on practice of intermediate asanas (poses) and pranayama (breathing techniques) with the introduction of ujavi breath. Transferable: CSU/UC

FHGE: Lifelong Understanding

ADVANCED HATHA YOGA PHED 21C

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Flexibility & Stability family of activity courses. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

A combination of the traditional forms of yoga woven into one powerful all-inclusive practice. Postures are combined into a vigorous, flowing series, linking one movement to the next, building strength, flexibility, and endurance

FHGE: Lifelong Understanding Transferable: CSU/UC

VINYASA FLOW YOGA PHED 21D

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Flexibility & Stability family of activity courses.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

A form of traditional hatha yoga that focuses on integrating breath and movement, awareness and alignment, strength, and flexibility. Uses series of sequences of advancing difficulty with repeated closing sections between each sequence. Each variation is linked to the next one by a succession of specific transitional movements. Likened to a dynamic dance, postures or asanas are connected through the breath for a transformative and balancing effect. Practice ranges from slow flowing to fast aerobic, developing strength and endurance.

FHGE: Lifelong Understanding Transferable: CSU/UC

PHED 21E

RESTORATIVE YOGA

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Flexibility & Stability family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

A relatively modern form of yoga that focuses on opening the connective tissue and fascia of the body in order to create balance, connection, alignment, strength and flexibility. Poses are held for extended periods of time with additional support and emphasis on allowing the body to release without force.

FHGE: Lifelong Understanding

Transferable: CSU/UC

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Flexibility & Stability family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 Unit

1 Unit

1 Unit

3 hours laboratory. (36 hours total per quarter.)

Increased flexibility enhances physical performance, helps maintain muscle fitness and assists in injury rehabilitation. Intended for individuals with a variety of fitness experience levels. Students must provide their own fitness mat. FHGE: Lifelong Understanding Transferable: CSU/UC

PHED 22A INTERMEDIATE FLEXIBILITY 1 Unit

& MOBILITY Degree & Credit Status: Degree-applicable credit course

Advisory: This course is included in the Flexibility & Stability family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

An intermediate level stretching program emphasizing seated and standing flexibility exercises for the hips, hamstrings, quadriceps, wrists, ankles, shoulders, obligues, and lumbar, thoracic and cervical spine. Complimentary abdominal exercises and standing postures will be introduced to develop balance, tone and endurance.

FHGE: Lifelong Understanding Transferable: CSU/UC

PHED 22B **PILATES & YOGA**

Degree & Credit Status: Degree-applicable credit course

Advisory: This course is included in the Flexibility & Stability family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Combines basic Pilates mat exercises to strengthen abdominals with full body yoga based stretches for development of improved posture, flexibility, and relaxation. Students must provide their own fitness mat. FHGE: Lifelong Understanding Transferable: CSU/UC

PHED 22C CORE CONDITIONING 1 Unit

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Flexibility & Stability family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

A combination pilates and yoga class designed to improve strength, body control, and coordination. Resistance and stability equipment will be incorporated with abdominal, low back, and full body exercises. Students must provide their own fitness mat.

Transferable: CSU/UC FHGE: Lifelong Understanding

PHED 22E

CROSS TRAINING FOR ENDURANCE

1 Unit

1 Unit

Degree & Credit Status: Degree-applicable credit course

Advisory: This course is included in the Cardio Fitness family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Explores the concept of functional training as it applies to the endurance athlete. Students will learn, utilize and understand effective training strategies to promote their own improved performance. Emphasis placed on the application of skills and improved fitness. The importance of proper nutrition to improve performance will also be included.

FHGE: Lifelong Understanding Transferable: CSU/UC

1 Unit

-	TRAIL HIKING Status: Degree-applicable credit course urse is included in the Cardio Fitness family o	1 Unit of activity	-	Status: Degree-applica	LF COURSE PLAY able credit course Individual Sports family	2 Units of activity
	er Grade or Pass/No Pass			er Grade or Pass/No Pa	ass	
3 hours laborator The opportunity		gh hiking at a	6 hours laborator Students will play play, developmen	nt of advanced skills an strategies for lowering	quarter.) with focus on increasing d execution of the golf s a score and establishing Transferable: CSU/UC	wing, prop- a handicap.
PHED 23B	DAY HIKING	1 Unit	PHED 25A	SWING ANALYS	IS	1 Unit
	Status: Degree-applicable credit course urse is included in the Cardio Fitness family o	of activity		Status: Degree-applica urse is included in the	able credit course Individual Sports family	ofactivity
Grade Type: Lette Not Repeatable.	er Grade or Pass/No Pass		Grade Type: Lette Not Repeatable.	er Grade or Pass/No Pa	355	
3 hours laborator	ry. (36 hours total per quarter.)		3 hours laborator	ry. (36 hours total per	quarter.)	
	t prepares healthy, fit individuals for a final 8- ails over moderate to steep terrain.	12 mile hike	5 5		r, the student will identify gn drills to develop skills	
FHGE: Lifelong U	•	IC	golf strokes.			•
			FHGE: Lifelong U	Inderstanding	Transferable: CSU/UC	•
PHED 24 Degree & Credit	INTRODUCTION TO GOLF Status: Degree-applicable credit course	1 Unit	PHED 25B	BEGINNING GC	LF COURSE	2 Units
Advisory: This co	urse is included in the Individual Sports famil	y of activity		PLAY		
courses.				Status: Degree-applic		
	er Grade or Pass/No Pass		•	•	e previously gained an u	
Not Repeatable.	n. (26 haura tatal nar avartar)				vings for a variety of clu	••
	r y. (36 hours total per quarter.) Indamentals of the golf swing, knowledge of e	quinment		family of activity cour	ssary; this course is inclu	ided in the
	course etiquette.	quipment,	Grade Type: Lette	• •	563.	
FHGE: Lifelong L	•	IC	Not Repeatable.			
-	-		6 hours laborator	ry. (72 hours total per o	quarter.)	
PHED 24A	SWING DEVELOPMENT FOR THE EXPERIENCED GOLFER	1 Unit			olf utilizing a variety of sv er). Both long and short o	
Degree & Credit	Status: Degree-applicable credit course				ne course. Students will a	apply rules
Advisory: This co courses.	urse is included in the Individual Sports famil	y of activity	of golf and cours FHGE: Lifelong U	e etiquette during play Jnderstanding	Transferable: CSU/UC	:
Grade Type: Lette	er Grade or Pass/No Pass					
Not Repeatable.			PHED 26	BEGINNING TEI		1 Unit
	r y. (36 hours total per quarter.) golf skills for the intermediate/advanced playe	ar including	-	Status: Degree-applic	able credit course Individual Sports family	of a stivity
	inment and swing fundamentals, selection of e		courses.	urse is included in the		of activity
	es, etiquette and course management.	equipment,		er Grade or Pass/No Pa	ass	
FHGE: Lifelong L		IC	Not Repeatable.			
			3 hours laborator	ry. (36 hours total per	quarter.)	
PHED 24C	INTERMEDIATE GOLF COURSE PLAY	2 Units	Introduction to b and etiquette.	eginning tennis play, in	cluding basic strokes, dr	ills, rules
-	Status: Degree-applicable credit course urse is included in the Individual Sports famil	v of activity	FHGE: Lifelong U	Inderstanding	Transferable: CSU/UC	:
	n to students with credit in H P 25DX.	,	PHED 26A	INTERMEDIATE	TENNIS	1 Unit
	er Grade or Pass/No Pass		-	Status: Degree-applica urse is included in the	able credit course Individual Sports family	of activity
•	ry. (72 hours total per quarter.)		courses.			
Students will play	an 18 hole golf course, including multiple gar un and bestball), practice with club selection a			er Grade or Pass/No Pa	ass	
the ball.	an and bestbuily, procede with club selection a	ind redding	•	ry. (36 hours total per	guarter.)	
FHGE: Lifelong U	Inderstanding Transferable: CSU/U	IC	Intermediate/adv	•	etitive play, including co	vering drills,

advanced strategies, techniques and rules.

FHGE: Lifelong Understanding

Transferable: CSU/UC

PHED 26C Degree & Credit	BEGINNING DOUBLES TENNIS Status: Degree-applicable credit course	1 Unit	PHED 31A	FUTSAL: INDO BEGINNING	OR SOCCER	1 Unit
-	purse is included in the Individual Sports family of	activity	-	Status: Degree-applic urse is included in the	cable credit course e Team Sports family of	activity
	ter Grade or Pass/No Pass			n to students with cre		
Not Repeatable.			Grade Type: Lett	er Grade or Pass/No F	Pass	
	ry. (36 hours total per quarter.)		Not Repeatable.			
	doubles tennis play. Includes basic court position, s	kill drills,		ry. (36 hours total per		
	d defensive strategies.				kills, including passing, sl	
FHGE: Lifelong	Understanding Transferable: CSU/UC		FHGE: Lifelong U		egy, tactics, and laws of Transferable: CSU/U	-
PHED 27	WALK FOR HEALTH	1 Unit				
Advisory: This co	Status: Degree-applicable credit course ourse is included in the Cardio Fitness family of ac	tivity	PHED 31B	FUTSAL: INDO	E	1 Unit
	n to students with credit in H P 16.		-	Status: Degree-applie		
	ter Grade or Pass/No Pass		•	urse is included in the	e Team Sports family of	activity
Not Repeatable.	ry. (36 hours total per quarter.)		courses.	er Grade or Pass/No F)	
	fitness walking. Includes basic principles of exercise	e and	Not Repeatable.		- 355	
	to fitness walking.			ry. (36 hours total per	quarter.)	
FHGE: Lifelong	Understanding Transferable: CSU/UC				ediate skills, including cu ncludes intermediate ga	
PHED 27A	RUN FOR FITNESS	1 Unit	tactics, and laws	of the game.		
Degree & Credit	Status: Degree-applicable credit course		FHGE: Lifelong l	Jnderstanding	Transferable: CSU/U	JC
-	ourse is included in the Cardio Fitness family of ac	tivity				
	n to students with credit in H P 61.		PHED 31C	FUTSAL: INDO	OR SOCCER	1 Unit
	ter Grade or Pass/No Pass			ADVANCED		
Not Repeatable.			-	Status: Degree-applie		
	ry. (36 hours total per quarter.)		•	urse is included in the	e Team Sports family of	activity
	II phases of running; improve cardiovascular fitness ty, develop endurance; introduction to the physiol		courses. Grade Type: Lett	er Grade or Pass/No F	Dace	
	body to running.	ogic	Not Repeatable.		033	
FHGE: Lifelong	, .		•	ry. (36 hours total per	quarter.)	
j	, , , , , , , , , , , , , , , , , , ,				ed skills, including powe	er passing,
PHED 27B	INTERMEDIATE RUN FOR	1 Unit	power shooting,	speed dribbling and of	ffensive heading. Include	es advanced
	FITNESS		game strategy, ta	actics, and laws of the	game.	
Degree & Credit	Status: Degree-applicable credit course		FHGE: Lifelong l	Jnderstanding	Transferable: CSU/U	JC
	ourse is included in the Cardio Fitness family of ac	tivity				
courses.			PHED 33	BEGINNING TA		1 Unit
	ter Grade or Pass/No Pass			Status: Degree-applie		
Not Repeatable.			•	urse is included in the	e Individual Sports fami	ly of activity
	ry. (36 hours total per quarter.)		courses.			
	training and running technique, race management and treatments of common running injuries. Inten		Not Repeatable.	er Grade or Pass/No F	-855	
	ing to improve fitness and running skills.	ueu ioi	•	ry. (36 hours total per	quarter.)	
FHGE: Lifelong	• •			• •	gles and doubles table te	ennis plav.
j	, , , , , , , , , , , , , , , , , , ,		FHGE: Lifelong l		Transferable: CSU/U	
PHED 27C	INTERMEDIATE WALK FOR HEALTH	1 Unit	PHED 33A		E TABLE TENNIS	1 Unit
Degree & Credit	Status: Degree-applicable credit course			Status: Degree-appli		10111
	ourse is included in the Cardio Fitness family of ac	tivity	-		e Individual Sports fami	ly of activity
	ter Grade or Pass/No Pass			er Grade or Pass/No F	Pass	
Not Repeatable.			Not Repeatable.			
-	ry. (36 hours total per quarter.)		•	ry. (36 hours total per	quarter.)	
Development of	advanced walking skills for fitness and athletic wal				doubles play. Includes in	troduction
	customization and how walking fits into a healthy	lifestyle.			nashes, drop shots, angl	e play, and
FHGE: Lifelong	Understanding Transferable: CSU/UC		doubles formatio			
			FHGE: Lifelong l	Jnderstanding	Transferable: CSU/U	JC

1 Unit

1 Unit

1 Unit

1 Unit

1 Unit

PHED 33B ADVANCED TABLE TENNIS Degree & Credit Status: Degree-applicable credit course

Advisory: This course is included in the Individual Sports family of activity courses.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Focus on the strategies of singles and double play, including serving with a variety of spins, forehand and backhand smashes, drop shots, angle play and doubles formations. Strong emphasis on fitness, flexibility and nutrition. How to design a point, set and match will also be a main focus of this course.

FHGE: Lifelong Understanding Transferable: CSU/UC

PHED 36A BEGINNING ARCHERY Degree & Credit Status: Degree-applicable credit course

rse

1 Unit

1 Unit

1 Unit

1 Unit

1 Unit

Advisory: This course is included in the Individual Sports family of activity courses; not open to students with credit in PHED 36. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)Introduction to Olympic archery using the recurve bow. Includes building
a good basic foundation for shooting using the recurve bow through the
utilization and practice of various skill development techniques.FHGE: Lifelong UnderstandingTransferable: CSU/UC

PHED 36B INTERMEDIATE ARCHERY

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Individual Sports family of activity courses.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Intermediate skills will be developed through the in depth observation and understanding of the elements that produce consistency and competency in using the recurve bow. Basic maintenance of equipment will be covered. FHGE: Lifelong Understanding Transferable: CSU/UC

PHED 36C ADVANCED ARCHERY

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Individual Sports family of activity courses.

Grade Type: Letter Grade Only

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Advanced archery concepts in shot foundation development. Scapulae positioning, breathing, imagery, focusing, relaxation and various physical training methodologies are presented. Aligning and tuning methods will be presented.

FHGE: Lifelong Understanding

Transferable: CSU/UC

SINGLES & DOUBLES Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Individual Sports family of activity courses.

BEGINNING BADMINTON:

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

PHED 37

3 hours laboratory. (36 hours total per quarter.)

Strategy and competition for both singles and doubles in badminton play.FHGE: Lifelong UnderstandingTransferable: CSU/UC

PHED 37A INTERMEDIA

INTERMEDIATE BADMINTON: SINGLES & DOUBLES

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Individual Sports family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Focus on the strategies of singles and doubles play. Includes serving long and short, forehand smashes, drop shots, angle play and doubles formations. FHGE: Lifelong Understanding Transferable: CSU/UC

PHED 37B ADVANCED BADMINTON: 1 Unit SINGLES & DOUBLES 1

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Individual Sports family of activity

courses.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Focus on the strategies of singles and doubles play. Introduction to serving long and short, forehand smashes, drop shots, angle play, and doubles formations. Emphasis on fitness, flexibility, and nutrition. How to design a point, set and match will be a main focus. FHGE: Lifelong Understanding Transferable: CSU/UC

PHED 38A BASKETBALL FUNDAMENTALS

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Team Sports family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

An introduction to the fundamental skills and techniques of the sport of basketball through skill work and drills. Includes sprint drills, ball passing, plyometric and stretching exercises.

FHGE: Lifelong Understanding Transferable: CSU/UC

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PHED 38B BASKETBALL GAME SKILLS
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Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Team Sports family of activity

courses. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Intermediate skills and techniques of the sport of basketball. Includes offensive and defensive foundations, unique situations in game play, personal strategies and core concepts for winning in basketball game play. FHGE: Lifelong Understanding Transferable: CSU/UC

PHED 38C BEGINNING BASKETBALL

1 Unit

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Team Sports family of activity courses; students with disabilities that significantly limit mobility or sensory perception may have difficulty participating and/or put themselves at risk of injury due to the physical demands of the course.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Introduction to the basic rules and strategies of the game of basketball. This will be accomplished through demonstration and practice of skills as well as competition.

FHGE: Lifelong Understanding Transferable: CSU/UC

1 Unit

1 Unit

PHED 40		VOLLEYBALL	1 Unit	PHED 41B		1 Unit
		olicable credit course the Team Sports family of a	ctivity	Degree & Credit	CYCLING Status: Degree-applicable credit course	
courses. Grade Type: Lett	er Grade or Pass/No	o Pass		Advisory: This co courses.	ourse is included in the Cardio Fitness fam	ily of activity
Not Repeatable.					er Grade or Pass/No Pass	
•	ry. (36 hours total p	per quarter.)		Not Repeatable.		
	, ,	all. Includes basic skills, strat	teav and		ry. (36 hours total per quarter.)	
team play.	ne guine of volicybe		iegy, and		al fitness using an indoor stationary bike. T	his intermediate
FHGE: Lifelong l	Jnderstanding	Transferable: CSU/U	с	indoor cycling co	ourse focuses on pedaling techniques, safe	ty procedures,
					exercises necessary for intermediate-leve	el cycling.
PHED 40A		TE VOLLEYBALL	1 Unit	FHGE: Lifelong	Jnderstanding Transferable: CS	U/UC
-		the Team Sports family of a	ctivity	PHED 42	BOWLING FOR FITNESS	1 Unit
•		the real sports railing of a	clivity		Status: Degree-applicable credit course	
courses.	an Crada an Dasa/N	- Daar		-	• • • • • • • • • • • • • • • • • • • •	and the of a stilling
Not Repeatable.	er Grade or Pass/No	o Pass		courses.	urse is included in the Individual Sports f	amily of activity
	ry. (36 hours total p uilds upon prior kno	per quarter.) pwledge of the intermediate	e game of	Grade Type: Lett Not Repeatable.	er Grade or Pass/No Pass	
		intermediate level will be p	-	3 hours laborato	ry. (36 hours total per quarter.)	
and will promote	appreciation of this	s lifetime activity.		A comprehensive	e study of the physical skills and practice f	or lifetime enjoy-
FHGE: Lifelong l	Jnderstanding	Transferable: CSU/U		ment of bowling. FHGE: Lifelong		U/UC
PHED 40C	VOLLEYBALL	.: GAME SKILLS	1 Unit			
Degree & Credit		plicable credit course		PHED 43A	ULTIMATE I	1 Unit
-		the Team Sports family of a	ctivity		Status: Degree-applicable credit course	
courses.			currey	-	ourse is included in the Team Sports family	ofactivity
	er Grade or Pass/N	o Pass		courses.	arse is included in the real sports family	oractivity
Not Repeatable.		01 033			er Grade or Pass/No Pass	
•	m. (26 hauna tatal m					
	ry. (36 hours total p			Not Repeatable.		
• •	, .	ations. Includes rotations ar	nd offensive		ry. (36 hours total per quarter.)	
and defensive str	0	Transformhian CS11/11/	^	-	ance the student's skills and abilities in Ult	
FHGE: Lifelong l	Jnderstanding	Transferable: CSU/U			placed on cardiovascular and muscular fitr	
					e intensity increases as the individual impr	
PHED 41	INDOOR CYC		1 Unit	FHGE: Lifelong	Jnderstanding Transferable: CS	0/00
Degree & Credit	Status: Degree-app	olicable credit course				
Advisory: This co	ourse is included in t	the Cardio Fitness family of	factivity	PHED 45	FITNESS FOR LIFE	1 Unit
courses.				Degree & Credit	Status: Degree-applicable credit course	
Grade Type: Lett	er Grade or Pass/N	o Pass		Advisory: This co	ourse is included in the Strength Developr	nent family of
Not Repeatable.				activity courses.		
3 hours laborato	ry. (36 hours total p	per quarter.)		Grade Type: Pass	/No Pass Only	
		ce cardiovascular fitness an	id improve	Not Repeatable.		
, ,		on improving endurance th		•	ry. (36 hours total per quarter.)	
non-impact activ		1 3 3	5		strength, endurance and cardiovascular fit	ness through self
FHGE: Lifelong l		Transferable: CSU/U	c		of use on cardio, strength and fitness mach	-
	lineerstanding		•	FHGE: Lifelong		
PHED 41A	INDOOR CY	CLING: HILLS	1 Unit			
	& SPRINTS			PHED 45A	FOUNDATIONS OF STRENGTH	1 Unit
Degree & Credit	Status: Degree-app	olicable credit course			& CONDITIONING	
Advisory: This co courses.	ourse is included in t	the Cardio Fitness family of	factivity	-	Status: Degree-applicable credit course ourse is included in the Strength Developr	nent family of
	er Grade or Pass/N	o Pass		activity courses.		
Not Repeatable.				•	er Grade or Pass/No Pass	
•	ry. (36 hours total p	per quarter.)		Not Repeatable.		
		priate cadence music on an	indoor	-	ry. (36 hours total per quarter.)	
		•			ry. (30 hours total per quarter.) cise program to develop the key compone	nts of boalth
		anaerobic work, mixed with	appi opriate			
recovery periods		Transfer-List COLUM	c		itness: cardiovascular/respiratory condition	
FHGE: Lifelong l	Sinderstanding	Transferable: CSU/U		Strength, muscul	ar endurance, flexibility and body compos	

FHGE: Lifelong Understanding Transferable: CSU/UC

•	• • • •	licable credit course	1 Unit	PHED 47C	HIGH-INTENSITY INTERVAL TRAINING (HIIT)	1 Unit
activity courses.	urse is included in t r Grade or Pass/No	he Strength Developme Pass	ent family of	-	Status: Degree-applicable credit course urse is included in the Cross Training famil	ly of activity
Not Repeatable.		1 455			er Grade or Pass/No Pass	
•	y. (36 hours total p	er quarter.)		Not Repeatable.		
Increase strength application of circ		iovascular endurance th	rough the	3 hours laborator	r y. (36 hours total per quarter.) body workout to improve endurance and st	trengthen and
FHGE: Lifelong U	-	Transferable: CSU	/UC	define every mus effective way to t	cle using high intensity intervals. This type rain taking fitness to the next level. Studer	of training is an
PHED 46	WEIGHT LIFT	ING FOR HEALTH	1 Unit	their own fitness FHGE: Lifelong U		J/UC
-	• • •	licable credit course				
•	urse is included in t	he Strength Developme	ent family of	PHED 49A	SURVIVOR TRAINING	1 Unit
activity courses.		_		-	Status: Degree-applicable credit course	
	er Grade or Pass/No	Pass		•	urse is included in the Cross Training fami	ly of activity
Not Repeatable.				courses.		
Provides training	y. (36 hours total p and instruction on t	er quarter.) he use of weights for lif:	etime fitness	Not Repeatable.	er Grade or Pass/No Pass	
and health.					y. (36 hours total per quarter.)	_
FHGE: Lifelong U	nderstanding	Transferable: CSU	/UC	drills and function	average group exercise participant, using s nal training to develop footwork, anaerobic	
PHED 46A	INTERMEDIA TRAINING FC FITNESS		1 Unit	conditioning, mus FHGE: Lifelong U	scular strength and power. Jnderstanding Transferable: CSU	J/UC
Degree & Credit		licable credit course		PHED 49B	BOOT CAMP TRAINING	1 Unit
		he Strength Developme	ent family of	Degree & Credit	Status: Degree-applicable credit course	
activity courses.			•		urse is included in the Cross Training famil	ly of activity
Grade Type: Lette	r Grade or Pass/No	Pass		courses.	-	
Not Repeatable.				Grade Type: Lette	er Grade or Pass/No Pass	
3 hours laborator	y. (36 hours total p	er quarter.)		Not Repeatable.		
A total body cond	litioning class that e	emphasizes intense free	weight exer-	3 hours laborator	ry. (36 hours total per quarter.)	
cises set to music	and incorporates c	ore conditioning. Featu	red equipment	Group training us	ing functional fitness activities to develop	core strength,
		nce bands, body weight	and balls.		nditioning and muscle strength and power	
•	ovide their own fitn			FHGE: Lifelong U	Inderstanding Transferable: CSU	J/UC
FHGE: Lifelong U	nderstanding	Transferable: CSU	/UC			
				PHED 70R	INDEPENDENT STUDY IN	1 Unit
PHED 46B		VEIGHT LIFTING	1 Unit		PHYSICAL EDUCATION	
	FOR HEALTH			PHED 71R		2 Units
		licable credit course		PHED 72R		3 Units
-	irse is included in t	he Strength Developme	ent family of	PHED 73R		4 Units
activity courses.		D			Status: Degree-applicable credit course	
	er Grade or Pass/No	Pass			er Grade or Pass/No Pass	
Not Repeatable.	y. (36 hours total p	or quarter)		Not Repeatable.	tory per week. (36-144 hours total per qu	artor)
		the use of weights for li	fetime health	Provides an oppo	rtunity for the student to expand their stu- d the classroom by completing a project of	dies in Physical
FHGE: Lifelong U	nderstanding	Transferable: CSU	/UC	arranged by agree	ement between the student and instructor act with the instructor to determine the so	r. The student is
PHED 47B	THIGHS, ABS (TAG)	& GLUTEUS	1 Unit	ment and the uni	t value assigned for successful completion. of 6 units of Independent Study per depart	. Students may
Advisory: This cou	Status: Degree-app	licable credit course he Cross Training family	of activity	FHGE: Non-GE A	Applicable Transferable: CSU	J
courses. Grade Type: Lette	er Grade or Pass/No	Pass				
Not Repeatable. 3 hours laborator	v. (36 hours total n	er quarter.)				
3 hours laborator Strengthen thigh,		er quarter.) teus muscles in an inten	sive, fun and			
3 hours laborator	abdominal and glut vorkout.	•				

PHYSICAL EDUCATION - ADAPTIVE PE

Student Resource and Support Programs 650.949.7742 foothill.edu/kinesiology/

PHDA 15A MODIFIED TOTAL FITNESS

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Designed to provide the student the opportunity to engage in an appropriate and safe total body workout. Exercise programs will be developed with consideration given to each student's individual needs and abilities. Students will learn the components of physical fitness and how they apply to specific exercises.

FHGE: Lifelong Understanding

Transferable: CSU/UC

PHDA 15B INTERMEDIATE MODIFIED 1 Unit **TOTAL FITNESS**

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Designed to provide the student the opportunity to engage in an appropriate and safe total body workout. Exercise programs will be developed with consideration given to each student's individual needs and abilities. Students will progress in their level of exercise, incorporating balance and coordination activities.

PROGRESSIVE MODIFIED

FHGE: Lifelong Understanding

Transferable: CSU/UC

TOTAL FITNESS Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

PHDA 15C

3 hours laboratory. (36 hours total per quarter.)

Designed to provide the student the opportunity to engage in an appropriate and safe total body workout. Exercise programs will be developed with consideration given to each student's individual needs and abilities. Students will progress to a higher level of exercise, adding functional fitness activities incorporating all components of fitness, including balance and coordination skills.

FHGE: Lifelong Understanding

Transferable: CSU/UC

Transferable: CSU/UC

CONDITIONING Degree & Credit Status: Degree-applicable credit course

Advisory: UC will limit transfer credit for any/all Physical Education activity courses to a maximum of 6 quarter units; not open to students with credit in ALAP 60X.

MODIFIED GENERAL

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

PHDA 16

3 hours laboratory. (36 hours total per quarter.)

Personal instruction in exercise programs to develop a comprehensive exercise program based on physical abilities and individual goals. Cardiovascular endurance, flexibility, muscular strength and endurance, balance and/ or motor skills, as appropriate.

FHGE: Lifelong Understanding

PHDA 17 MODIFIED RESISTIVE EXERCISE Degree & Credit Status: Degree-applicable credit course

1 Unit

Advisory: UC will limit transfer credit for any/all Physical Education activity courses to a maximum of 6 quarter units; not open to students with

credit in ALAP 61X. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 Unit

3 hours laboratory. (36 hours total per quarter.)

Instructs students in methodologies for increasing muscular strength and endurance. Uses free weights, pin set weight machines, medicine balls, resistance bands, etc., as appropriate. Transferable: CSU/UC

FHGE: Lifelong Understanding

PHDA 18 INDIVIDUALIZED EXERCISE 1 Unit FOR SPECIAL POPULATIONS Degree & Credit Status: Degree-applicable credit course

Advisory: UC will limit transfer credit for any/all Physical Education activity courses to a maximum of 6 quarter units; not open to students with credit in ALAP 62X.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Cardiovascular endurance, muscular endurance and strength, flexibility, balance and coordination activities, motor skills, as appropriate. Emphasis on adapting and developing an exercise program to meet individual needs and goals.

FHGE: Lifelong Understanding Transferable: CSU/UC

1 Unit PHDA 20 MODIFIED FUNCTIONAL **FITNESS**

Degree & Credit Status: Degree-applicable credit course

Advisory: UC will limit transfer credit for any/all Physical Education activity courses to a maximum of 6 quarter units; not open to students with credit in ALAP 66X.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Exercises for improving activities of daily living. Emphasis on proper body mechanics, postures and movement patterns. Development of joint mobility, muscular strength, muscular endurance, balance, coordination and locomotion as it relates to daily activities. Transferable: CSU/UC FHGE: Lifelong Understanding

PHDA 21A MODIFIED AQUATICS

1 Unit

1 Unit

Degree & Credit Status: Degree-applicable credit course Advisory: UC will limit transfer credit for any/all Physical Education activity courses to a maximum of 6 quarter units; not open to students with credit in ALAP 70X.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Group or individualized instruction in proper swimming and water exercise techniques.

FHGE: Lifelong Understanding Transferable: CSU/UC

MODIFIED WATER EXERCISE PHDA 21B

Degree & Credit Status: Degree-applicable credit course

Advisory: UC will limit transfer credit for any/all Physical Education activity courses to a maximum of 6 quarter units; not open to students with credit in ALAP 71X.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Group and/or individual water exercise program to increase muscular strength and endurance, flexibility, cardiovascular endurance, balance and coordination, relaxation, as appropriate.

FHGE: Lifelong Understanding Transferable: CSU/UC

1 Unit



1 Unit

PHDA 23 MODIFIED AEROBIC EXERCISE 1 Unit

Degree & Credit Status: Degree-applicable credit course

Advisory: UC will limit transfer credit for any/all Physical Education activity courses to a maximum of 6 quarter units; not open to students with credit in ALAP 64 or PHDA 64.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Aerobic exercise, individually modified, to increase cardiovascular and muscular endurance. Combination of aerobic exercise through the use of various cardiovascular machines or use of the track.

Transferable: CSU/UC FHGE: Lifelong Understanding

PHDA 24 **MODIFIED STRETCHING &** 1 Unit FLEXIBILITY

Degree & Credit Status: Degree-applicable credit course

Advisory: UC will limit transfer credit for any/all Physical Education activity courses to a maximum of 6 quarter units; not open to students with credit in ALAP 65 or PHDA 65.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Individualized and/or group instruction on the proper forms of stretching exercises for students. Emphasis on increased range of motion and flexibility.

FHGE: Lifelong Understanding Transferable: CSU/UC

BALANCE & FUNCTIONAL PHDA 25 1 Unit MOVEMENT

Degree & Credit Status: Degree-applicable credit course Advisory: UC will limit transfer credit for any/all Physical Education activity courses to a maximum of 6 quarter units; not open to students with credit in ALAP 67 or PHDA 67.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Balance and functional exercise training to enhance mobility and neuromuscular function. Emphasis on enhancing functional movement, movement efficiency, muscular strength, muscular endurance and flexibility. FHGE: Lifelong Understanding Transferable: CSU/UC

PHDA 401 ADAPTED MOVEMENT

Degree & Credit Status: Non-degree-applicable non-credit course Grade Type: Non-credit course that receives no grade Unlimited Repeatability.

3 hours laboratory per week. (36 hours total per quarter.)

This course is designed for students with disabilities. Provides personal instruction, addressing the individual needs of each student. Will focus on improving muscular strength and endurance, cardiovascular endurance, flexibility, balance and coordination. Will also promote the awareness and application of personal wellness through physical activity. FHGE: Non-GE Applicable **Transferable: None**

PHYSICAL SCIENCES & ENGINEERING

Physical Sciences, Mathematics & Engineering 650.949.7259 foothill.edu/psme/

PSE 20	INTRODUCTION TO PHYSICAL SCIENCE	5 Units
Degree & Credit St	atus: Degree-applicable credit course	

Dec Advisory: MATH 105 or equivalent.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.)

This activity-based course provides an introduction to the basic concepts of physical science with emphasis on their practical importance and application in the real world. This course is intended for students who want to become primary school teachers. FHGE: Natural Sciences Transferable: CSU/UC

PSE 56	SEMINAR IN TEACHING	1 Unit
	PRE-COLLEGIATE	
	MATHEMATICS	
Degree & Cr	edit Status: Degree-applicable credit course	
Advisory: MA	ATH 105 or equivalent; basic competency in usi	ng computers

and online software.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable. 1 hour lecture. (12 hours total per quarter.)

Strategies to successfully teach topics in pre-collegiate mathematics. Topics include number theory, fraction operations, proportional reasoning, statistics, linear relationships and problem solving. Intended as professional development for middle and high school mathematics teachers. FHGE: Non-GE Applicable **Transferable: CSU**

PSE 61A **TUTOR TRAINING I**

1 Unit

Degree & Credit Status: Degree-applicable credit course Advisory: An earned A or B+ grade with instructor recommendation in one of the following: MATH 1A, 1AH, 1B, 1BH, 1C, 1D, 2A, 2B, 10, 48A, 48B, 48C, 105; not open to students with credit in PSE 111A.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Training in team leading skills necessary for tutoring, including study skills, college policies, professionalism, ethics and role modeling of successful student behavior. Techniques of subject specific tutoring skills. Practice of these skills through sample student work and instructor assignments and, when applicable, content-specific suggestions from the tutee's instructor. Ideal for students intending to tutor math for the first time.

FHGE: Non-GE Applicable Transferable: CSU

PSE 61B

0 Units

TUTOR TRAINING II

1 Unit

Degree & Credit Status: Degree-applicable credit course Prerequisite: PSE 61A.

Advisory: An earned A or B+ grade with instructor recommendation in one of the following: MATH 1A, 1AH, 1B, 1BH, 1C, 1D, 2A, 2B, 10, 48A, 48B, 48C, 105; not open to students with credit in PSE 111B.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Advanced training in team leading skills necessary for tutoring. Students will be asked to engage in advanced reflections on tutoring and advanced level critique of one's own and other tutoring processes. Techniques of subject specific tutoring skills with attention given to diverse learning styles. Practice of these skills through sample student work and instructor assignments and, when applicable, content-specific suggestions from the tutee's instructor. Ideal for students intending to tutor math for the second time. FHGE: Non-GE Applicable Transferable: CSU

🛑 FOOTHILL COLLEGE

PHYSICS

Physical Sciences, Mathematics & Engineering 650.949.7259 foothill.edu/physics/

PHYS 2A GENERAL PHYSICS 5 Unit Degree & Credit Status: Degree-applicable credit course Prerequisite: MATH 48C or equivalent.					
Grade Type: Letter O Not Repeatable.	Grade or Pass/No Pas	55			
4 hours lecture, 3 ho	ours laboratory. (84	hours total per quarter.)			
Lectures, demonstra FHGE: Natural Scien		in mechanics; properties o Transferable: CSU/UC	f matter.		
PHYS 2AM	GENERAL PHYSI SUPPLEMENT		1 Unit		
Degree & Credit Sta Prerequisite: MATH	e 11	ble credit course			
Corequisite: Comple and PHYS 2A.	tion of or concurrer	nt enrollment in MATH 1B o	or 1BH,		
Grade Type: Letter O Not Repeatable.	Grade Only				
1 hour lecture. (12 ho	ours total per quarte	r.)			
	us to physics topics	and problems in mechanics Transferable: CSU/UC	5.		
PHYS 2B	GENERAL PHYSI		5 Units		
Degree & Credit Sta		ble credit course			
Prerequisite: PHYS					
Grade Type: Letter C Not Repeatable.					
	•	hours total per quarter.)			
		in thermal physics; electric	city and		
magnetism and fluid					
FHGE: Non-GE App	licable	Transferable: CSU/UC			
PHYS 2BM	GENERAL PHYSI SUPPLEMENT	CS: CALCULUS	1 Unit		
Degree & Credit Sta	tus: Degree-applical	ble credit course			
Prerequisite: MATH	1B or 1BH.				
Corequisite: Comple Grade Type: Letter C		nt enrollment in PHYS 2B.			
Not Repeatable.					
1 hour lecture. (12 ho					
	us to physics topics a	and problems in electricity	and		
magnetism.					
FHGE: Non-GE App	licable	Transferable: CSU/UC			
PHYS 2C	GENERAL PHYSI	cs	5 Units		
Degree & Credit Sta					
Prerequisite: PHYS					
Grade Type: Letter C	Grade or Pass/No Pas	S			
Not Repeatable.					
Lectures, demonstra	tions, and problems	hours total per quarter.) in waves; optics; introduct	ory		
quantum mechanics					
FHGE: Non-GE App	licable	Transferable: CSU/UC			

Degree & Credit Status: Degree-applicable credit course Prerequisite: MATH 1B or 1BH. Corequisite: Completion of or concurrent enrollment in PHYS 2C. Grade Type: Letter Grade Only Not Repeatable. 1 hour lecture. (12 hours total per quarter.) Application of calculus to physics topics and problems in thermodynamics, waves, optics and modern physics. FHGE: Non-GE Applicable Transferable: CSU/UC 6 Units PHYS 4A **GENERAL PHYSICS** (CALCULUS) Degree & Credit Status: Degree-applicable credit course Corequisite: Completion of or concurrent enrollment in MATH 1B or 1BH. Advisory: Students who have not taken physics in high school are strongly encouraged to take either PHYS 2A or 6 prior. Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 5 hours lecture, 3 hours laboratory. (96 hours total per quarter.) Mathematics-physics interrelationships, classical Newtonian mechanics. Transferable: CSU/UC FHGE: Natural Sciences PHYS 4B **GENERAL PHYSICS** 6 Units (CALCULUS) Degree & Credit Status: Degree-applicable credit course Prerequisite: PHYS 4A. Corequisite: Completion of or concurrent enrollment in MATH 1C. Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 5 hours lecture, 3 hours laboratory. (96 hours total per quarter.) Classical electricity and magnetism. Transferable: CSU/UC FHGE: Non-GE Applicable PHYS 4C **GENERAL PHYSICS** 6 Units (CALCULUS) Degree & Credit Status: Degree-applicable credit course Prerequisites: MATH 1C and PHYS 4B. Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 5 hours lecture, 3 hours laboratory. (96 hours total per quarter.) Thermodynamics; mechanical, acoustical, and electromagnetic waves; optics. Transferable: CSU/UC FHGE: Non-GE Applicable PHYS 4D **GENERAL PHYSICS** 6 Units (CALCULUS) Degree & Credit Status: Degree-applicable credit course Prerequisite: PHYS 4C. Corequisite: Completion of or concurrent enrollment in MATH 2A. Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 5 hours lecture, 3 hours laboratory. (96 hours total per quarter.) Special relativity, statistical mechanics, quantum mechanics, atomic physics, nuclear physics, particle physics. FHGE: Non-GE Applicable Transferable: CSU/UC INTRODUCTORY PHYSICS PHYS 6 5 Units Degree & Credit Status: Degree-applicable credit course Prerequisite: MATH 48C or equivalent.

GENERAL PHYSICS: CALCULUS

SUPPLEMENT

1 Unit

PHYS 2CM

Grade Type: Letter Grade or Pass/No Pass Not Repeatable. 5 hours lecture. (60 hours total per quarter.) Lectures, demonstrations, and problems in mechanics, electricity and magnetism. FHGE: Non-GE Applicable

Transferable: CSU/UC

PHYS 12 INTRODUCTION TO MODERN PHYSICS

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in PHYS 12H. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Non-mathematical introduction to the ideas of modern physics intended for majors in the physical sciences. Introduction to the history and ideas of physics focus on three areas of modern physics, thermodynamics and the concept of entropy, Einstein's special and general theories of relativity, and quantum mechanics. The key ideas in these areas are explained using demonstrations, analogies, and examples drawn, whenever possible, from the student's own experience. Examine the impact these physics ideas have had on other fields, such as poetry, literature and music. No background in science or math is assumed.

FHGE: Non-GE Applicable

Transferable: CSU/UC

5 Units

5 Units

HONORS INTRODUCTION TO PHYS 12H **MODERN PHYSICS**

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant. Advisory: Not open to students with credit in PHYS 12. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Non-mathematical introduction to the ideas of modern physics intended for majors in the physical sciences. Introduction to the history and ideas of physics focus on three areas of modern physics, thermodynamics and the concept of entropy, Einstein's special and general theories of relativity, and quantum mechanics. The key ideas in these areas are explained using demonstrations, analogies, and examples drawn, whenever possible, from the student's own experience. Examine the impact these physics ideas have had on other fields, such as poetry, literature and music. No background in science or math is assumed. Honors students will engage in additional readings and discussions.

FHGE: Non-GE Applicable	Transferable: CSU/UC	
PHYS 70R INDEPENDENT ST PHYSICS	IUDY IN	1 Unit
PHYS 71R		2 Units
PHYS 72R		3 Units
PHYS 73R		4 Units
Degree & Credit Status: Degree-applicab	le credit course	

Grade Type: Letter Grade or Pass/No Pass

3-12 hours laboratory per week. (36-144 hours total per quarter.)

Provides an opportunity for the student to expand their studies in Physics beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department. FHGE: Non-GE Applicable **Transferable: CSU**

POLITICAL SCIENCE

Business and Social Sciences

650.949.7322 foothill.edu/politicalscience/

POLI 1 **POLITICAL SCIENCE:** 5 Units INTRODUCTION TO AMERICAN **GOVERNMENT & POLITICS**

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Contemporary analysis of the structure and function of American government and California state government, both their constitutional and political systems at the federal, state and local levels. Focus on the following topics: paradigms in the social sciences, models of justice and models of democracy, evolution of American elites and American constitutionalism, role of media in American political culture, political parties and political socialization, concept of the separation of powers: legislative, executive and judiciary branches, protest and protest movements, Civil Rights Acts of 1964 and 1991.

FHGE: Social & Behavioral Sciences Transferable: CSU/UC

POLI 2 **COMPARATIVE GOVERNMENT** 4 Units & POLITICS

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in POLI 2H. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Introductory analysis of comparative governmental systems and politics emphasizing a variety of political forms, theory of political differentiation and development, and patterns, processes and regularities among political systems in developing and developed world.

FHGE: Non-GE Applicable Transferable: CSU/UC

POLI 2H

HONORS COMPARATIVE **GOVERNMENT & POLITICS** Degree & Credit Status: Degree-applicable credit course

Prerequisite: Honors Institute participant.

Advisory: Not open to students with credit in POLI 2.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per guarter.)

Introductory analysis of comparative governmental systems and politics emphasizing a variety of political forms, theory of political differentiation and development, and patterns, processes and regularities among political systems in developing and developed world. As an honors course, it is a full seminar with advanced teaching methods focusing on major writing, reading, and research assignments, student class presentations, group discussions and interactions.

FHGE: Non-GE Applicable

Transferable: CSU/UC

Not Repeatable.

INTRODUCTION TO POLITICAL PHILOSOPHY/POLITICAL THEORY

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in POLI 3H. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per guarter.)

Analysis of the history of political thought, the development of forms of political ideologies and their manifestation in forms of the state. Philosophical formulations of concepts of state of nature, natural law, natural rights, civil and political society explored as integral parts of philosophies of: Plato and Aristotle, Augustine and Aguinas, Machiavelli and Hobbes, Locke and Rousseau, Bentham and Mill, Hegel, Marx, and Antonio Gramsci. Transferable: CSU/UC **FHGE: Social & Behavioral Sciences**

POLI 3H

HONORS INTRODUCTION TO POLITICAL PHILOSOPHY/POLITICAL THEORY

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant. Advisory: Not open to students with credit in POLI 3. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Analysis of the history of political thought, the development of various forms of political ideologies and their manifestation in forms of the state. Philosophical formulations of concepts of state of nature, natural law, natural rights, civil and political society explored as integral parts of political philosophies of: Plato and Aristotle, Augustine and Aquinas, Machiavelli and Hobbes, Locke and Rousseau, Bentham and Mill, Hegel, Marx and Gramsci. The honors course is a full seminar with advanced teaching methods focusing on major writing, reading, and research assignments, student oral class presentations, group discussions and interactions.

CALIFORNIA POLITICS &

FHGE: Social & Behavioral Sciences

POLI 4

Transferable: CSU/UC

5 Units

4 Units

GOVERNMENT Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Provides students with the opportunity to develop and formulate their own perspectives on California politics. The course will explore policymaking and the exercise of power within the federal framework, including but not limited to state and local issues and institutions. The course will begin by studying the basic constitutional framework of the state government, compare and examine the state's relationship with the federal government, and then focus on political issues that California is currently facing. Transferable: CSU/UC FHGE: Non-GE Applicable

POLI 9 POLITICAL ECONOMY

Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in ECON 9, ECON 9H or POLI 9H.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Analysis of the contending theoretical formulations of International Political Economy (IPE), emphasizing the interconnection between economics and politics in the broad context of a global economy and the formulation of national public policy. Economic and political policy issues of current national and international significance are emphasized.

FHGE: Social & Behavioral Sciences

POLI 9H HONORS POLITICAL ECONOMY

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant.

Advisory: Not open to students with credit in ECON 9, ECON 9H or POLI 9.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 Units

5 Units

4 hours lecture. (48 hours total per quarter.)

Analysis of the contending theoretical formulations of International Political Economy (IPE), emphasizing the interconnection between economics and politics in the broad context of a global economy and the formulation of national public policy. Economic and political policy issues of current national and international significance are emphasized. The honors course is a full thematic seminar with advanced teaching methods, focusing on extensive writing, reading, research assignments, student-led seminar discussions, group discussions, oral presentations and interactions. Distinguishing features include: heightened focus on and evaluation of global objectives and components of developed and developing nations, increased depth of analysis and breadth of examination, higher level of student critical thinking. Expanded learning outcomes and fuller description of these focused elements.

FHGE: Social & Behavioral Sciences

Transferable: CSU/UC

4 Units

POLI 15 INTERNATIONAL 4 Units **RELATIONS/WORLD POLITICS**

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in POLI 15H. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Analysis of the central elements of international relations, including: contending theoretical formulations of international relations, factors of sovereignty, nationalism, relations between the core, semi-periphery and peripheral countries, the role of the World Trade Organization in international trade relations, international terrorism and global warming. The international struggle for global hegemony and the impact of terrorism on world politics are systematically analyzed in the context of an increasingly unipolar world.

FHGE: Social & Behavioral Sciences

Transferable: CSU/UC

4 Units

POLI 15H

HONORS INTERNATIONAL **RELATIONS/WORLD POLITICS**

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Honors Institute participant.

Advisory: Not open to students with credit in POLI 15.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per guarter.)

Analysis of the contending theoretical formulations of international relations, the international political economy, factors of sovereignty, nationalism, relations between the core, semi-periphery and peripheral countries, the role of the World Trade Organization in international trade relations, international terrorism and global warming. The impact of international terrorism and international security on world politics are systematically analyzed in the context of an increasingly unipolar world as the struggle for hegemony ensues. The honors course is a full seminar with advanced teaching methods, focusing on major writing, reading, and research assignments, student class presentations, group discussions and interactions. Transferable: CSU/UC

FHGE: Social & Behavioral Sciences

FOOTHILL COLLEGE

Transferable: CSU/UC

PSYCHOLOGY

Business and Social Sciences 650.949.7322 foothill.edu/psychology/

PSYC 1 **GENERAL PSYCHOLOGY** 5 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in PSYC 1H. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

An exploration of the major perspectives, concepts, and theories in psychology and the factors that influence human behavior. Topics include: research methodology, biological psychology, perception, sleep and dreaming, learning, cognitive processes, developmental psychology, motivation and emotion, sexuality and gender, stress and health, social psychology, theories of personality, psychological disorders and psychological therapies. FHGE: Social & Behavioral Sciences Transferable: CSU/UC

PSYC 1H HONORS GENERAL PSYCHOLOGY 5 Units Degree & Credit Status: Degree-applicable credit course

Prerequisite: Honors Institute participant.

Advisory: Not open to students with credit in PSYC 1. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

An exploration of the major perspectives, concepts, and theories in psychology and the factors that influence human behavior. Topics include: research methodology, biological psychology, perception, sleep and dreaming, learning, cognitive processes, developmental psychology, motivation and emotion, sexuality and gender, stress and health, social psychology, theories of personality, psychological disorders and psychological therapies. As an honors course, there will be a focus on analytical writing and exploring the field through reading primary source research.

FHGE: Social & Behavioral Sciences

PSYC 4 INTRODUCTION TO BIOPSYCHOLOGY

5 Units

Transferable: CSU/UC

Degree & Credit Status: Degree-applicable credit course Prerequisite: PSYC 1 or 1H. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

This course examines the brain-behavior connection and the biological aspects of behavior and consciousness. Topics covered within the course include behavioral genetics, evolutionary psychology, neuroanatomy, physiological perspectives of sensory perception, learning and memory, sleep and dreaming, drug addiction, emotion, human sexuality, and biological bases of psychiatric disorders.

FHGE: Social & Behavioral Sciences

Transferable: CSU/UC

PSYC 7 STATISTICS FOR THE

BEHAVIORAL SCIENCES

Degree & Credit Status: Degree-applicable credit course Prerequisites: One of the following: PSYC 1, 1H, SOC 1, 1H; MATH 105 or equivalent.

Advisory: UC will grant transfer credit for a maximum of one course from the following: PSYC 7, SOC 7, MATH 10 or 17--students are strongly encouraged to meet with a counselor for appropriate course selection; not open to students with credit in SOC 7.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

For students majoring in psychology, sociology, and other behavioral sciences. Introduction to the basic statistical techniques and design methodologies used in behavioral sciences. Topics include descriptive statistics; probability and sampling distributions; statistical inference and power; linear correlation and regression; chi-square; t-tests, and ANOVA. Computations will be completed by hand and with the use of statistical software. Emphasis on the interpretation and relevance of statistical findings and the application of statistical concepts to real-world problems in the behavioral and social sciences.

FHGE: Communication & Analytical Thinking Transferable: CSU/UC

PSYC 9 POSITIVE PSYCHOLOGY

4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: PSYC 1 or 1H, and one of the following: ENGL 1A, 1AH, or 1S & 1T. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Focuses on the empirical investigations of human potential and the development of strengths. Topics include but are not limited to wisdom, emotional intelligence, mindfulness, happiness and well-being, empathy, compassion, gratitude, forgiveness, courage, and resilience. Emphasis on analyzing theories, research methods, and empirical evidence regarding their relationships to each other and applications to everyday life, such as finding meaning in life and career, work productivity, and positive relationships. Includes application component where students will assess their strengths in these areas, learn to develop them, and practice applying them to their own lives.

FHGE: Social & Behavioral Sciences Transferable: CSU/UC

PSYC 10 **RESEARCH METHODS &** 5 Units DESIGNS

Degree & Credit Status: Degree-applicable credit course Prerequisites: PSYC 1 or 1H; and PSYC 7, SOC 7, MATH 10, or MATH 17. Advisory: One of the following: ENGL 1A, 1AH, or 1S & 1T; not open to students with credit in SOC 10.

Grade Type: Letter Grade Only

Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.)

Survey of the various quantitative and qualitative research methods. Emphasis on the research design, planning, experimental procedures, and the collection, analysis, interpretation, and reporting of data. Laboratory emphasis on group work, data entry and analysis of data with statistical software.

FHGE: Social & Behavioral Sciences

Transferable: CSU/UC

PSYC 14

CHILD & ADOLESCENT DEVELOPMENT

4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: College-level reading and writing ability. Grade Type: Letter Grade Only

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Survey of human development from conception through adolescence. Emphasis on the biological, cognitive, social, and emotional changes during development. Discussion of historical and contemporary research, and theoretical perspectives pertaining to children and adolescents.

FHGE: Social & Behavioral Sciences Transferable: CSU/UC

PSYC 21 **PSYCHOLOGY OF WOMEN: SEX** & GENDER DIFFERENCES

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in SOC 21 or WMN 21.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per guarter.)

Survey of gender issues based upon psychological and sociological theories and research. Examination of sex differences and sex role stereotyping in a global, multi-cultural approach. Appraisal of effects of biology, culture, and society in creating sex and gender differences. Consideration of major theories of gender development. Focus on biology, socialization, mass media, communication, personality, abilities, work, family, sex and violence. Transferable: CSU/UC **FHGE: Social & Behavioral Sciences**

PSYCHOLOGY OF PREJUDICE 4 Units PSYC 22 & DISCRIMINATION

Degree & Credit Status: Degree-applicable credit course Advisory: PSYC 1.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per guarter.)

Exploration of the psychological underpinnings of prejudice and discrimination. Investigates fundamental aspects of the mind and society that can lead to prejudice, conditions that can trigger discrimination, and complex psychological patterns that develop among different majority and non-majority groups. Explores ethnic, racial, gender, and sexual prejudice and solutions for how to reduce prejudice among these groups and others.

FHGE: American Cultures & Communities, Social & Behavioral Sciences Transferable: CSU/UC

PSYC 25 INTRODUCTION TO ABNORMAL 4 Units PSYCHOLOGY

Degree & Credit Status: Degree-applicable credit course Advisory: One of the following: ENGL 1A, 1AH, or 1S & 1T. Grade Type: Letter Grade Only Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Introduction to the scientific study of psychopathology. Investigation of psychological disorders from various theoretical perspectives such as biological, psychodynamic, behavioral, sociocultural, cognitive, and humanistic approaches. Survey of psychological disorders and their major causes and treatments. Transferable: CSU/UC

FHGE: Social & Behavioral Sciences

4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: College-level reading and writing ability; not open to students with credit in SOC 30. Grade Type: Letter Grade Only

SOCIAL PSYCHOLOGY

Not Repeatable.

PSYC 30

4 hours lecture. (48 hours total per quarter.)

Survey of human behavior in relation to the social environment. Focus on human interaction and the shaping of diverse and commonly-shared attitudes, beliefs and worldviews by society, culture and social groups. Emphasis on how individuals are influenced behaviorally, emotionally, and cognitively. Topics include but not limited to the self, social cognition, aggression, interpersonal attraction, attitudes, social influence, prejudice and discrimination, gender, person perception, cultural norms, and conflict and peace-making.

FHGE: Social & Behavioral Sciences

Transferable: CSU/UC

323

PSYC 33

4 Units

INTRODUCTION TO PERSONALITY PSYCHOLOGY

Degree & Credit Status: Degree-applicable credit course Advisory: College-level reading and writing ability. Grade Type: Letter Grade Only

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

This course is an introduction to the study of personality. The course examines theoretical explanations for understanding personality development and explores each theory. The course also investigates current research on individual differences and personality development, including work in genetics, evolutionary psychology, emotions, traits, motivation, and attachment theory.

FHGE: Social & Behavioral Sciences

Transferable: CSU/UC

4 Units

PSYC 39 PSYCHOLOGY OF SPORTS Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in PSYC 55. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Current theoretical perspectives in sports psychology, applications of theories and techniques of optimal performance, and experiential exercises related to psychological factors that affect performance in sports, and in life. Topics include: Goal setting, motivation, neuropsychology, physiology, stress vs. relaxation (arousal regulation), commitment, peak potential, focus/concentration, confidence, visualization, and hypnosis. Transferable: CSU/UC FHGE: Non-GE Applicable

HUMAN DEVELOPMENT 5 Units PSYC 40

Degree & Credit Status: Degree-applicable credit course Advisory: One of the following: ENGL 1A, 1AH, or 1S & 1T or equivalent; PSYC 1 or 1H or introductory psychology course.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

The psychology of human development includes cognitive, physical, social, and emotional development throughout the lifespan. Comprehensive presentation of the issues, forces, and outcomes that make us who we are. Topics in childhood and adolescence, emphasize child development including all stages from conception, through childhood, adolescence, adult issues, later life and gerontology, cover all life-span stages and important topics. Development is presented in a chronological and sequential order from conception through death, while also presenting important themes and theories essential to this field of psychology. Provides an extensive amount of information on developmental stages covering theoretical and empirical foundations that enable students to become educated, critical interpreters of developmental information. A blend of basic and applied research, as well as coverage of controversial topics and emergent trends, demonstrating connections between the laboratory and life is presented. Transferable: CSU/UC **FHGE: Social & Behavioral Sciences**

PSYC 49

HUMAN SEXUALITY

4 Units

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass

Not Repeatable. 4 hours lecture. (48 hours total per quarter.)

Current scientific analysis of and information on sexual functioning and sexuality. Basic questions regarding sexual behavior, sexual roles, anatomy and physiology of sexual response, social patterns of sexual behavior, sexual adjustment and maladjustment. Includes treatment of sexual dysfunction, sex variance, the reproductive span of contraception-pregnancy-birth, sexual disease. Legal, political and cultural aspects of sexual behavior. FHGE: Lifelong Understanding, Social & Behavioral Sciences Transferable: CSU/UC



PSYC 51 APPLIED RESEARCH **EXPERIENCE**

Degree & Credit Status: Degree-applicable credit course

Advisory: Students must meet with the instructor during the first week of the quarter to schedule hours and responsibilities. Grade Type: Letter Grade Only

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Provides an opportunity for students to gain advanced reflection from research skills gained through their volunteer research assistant activities in other academic settings. Trainings will be provided in conducting research with human participants and safety procedures. Additional requirements include participation in online and/or in-person workshop trainings on developing research skills, submission of a writing assignment on an assigned reading, and completion of an exit survey regarding their experience as a research assistant.

FHGE: Non-GE Applicable

Transferable: CSU

PSYC 54H HONORS INSTITUTE SEMINAR 1 Unit IN PSYCHOLOGY

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant.

Advisory: ENGL 1A or 1AH; not open to students with credit in PSYC 34 or 34H.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

A seminar in directed readings, discussions and projects in psychology. Specific topics to be determined by the instructor.

FHGE: Non-GE Applicable **Transferable: CSU**

PSYC 70R	INDEPENDENT STUDY IN PSYCHOLOGY	1 Unit
PSYC 71R		2 Units
PSYC 72R		3 Units
PSYC 73R		4 Units
Degree & Credit	Status: Degree-applicable credit course	
Grade Type: Lette	er Grade or Pass/No Pass	

Not Repeatable.

3-12 hours laboratory per week. (36-144 hours total per guarter.)

Provides an opportunity for the student to expand their studies in Psychology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department. FHGE: Non-GE Applicable **Transferable: CSU**

RADIOLOGIC TECHNOLOGY

Biological and Health Sciences 650.949.7538 foothill.edu/radtech/

R T 50	ORIENTATION TO RADIATION	2 Units
	SCIENCE TECHNOLOGIES	

Degree & Credit Status: Degree-applicable credit course

Prerequisites: AHS 52; BIOL 40A, 40B and 40C or equivalent; R T 200L. Corequisite: R T 53.

Grade Type: Letter Grade Only

Not Repeatable.

1 Unit

2 hours lecture. (24 hours total per quarter.)

Overview of Radiologic Technology as a career. Radiographic terminology, positioning for abdomen, vital sign assessment, introduction to x-ray protection and production, radiographic image formation, patient care, basic computer operation and Internet application. Overview of program structure and student services. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

RT51A FUNDAMENTALS OF 4 Units **RADIOLOGIC TECHNOLOGY I** Degree & Credit Status: Degree-applicable credit course

Prerequisite: R T 50.

Grade Type: Letter Grade Only

Not Repeatable.

4 hours lecture. (48 hours total per guarter.)

Medical and radiographic terms. Basic positioning and anatomy, related to chest, abdomen, upper and lower extremities. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

4 Units

R T 51B

FUNDAMENTALS OF **RADIOLOGIC TECHNOLOGY II**

Degree & Credit Status: Degree-applicable credit course

Prerequisite: R T 51A.

Grade Type: Letter Grade Only

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Continuation of R T 51A; radiographic anatomy, positioning and procedures, related to shoulder girdle, hip/pelvis, gastrointestinal tract, genitourinary system, and biliary system. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable Transferable: CSU

R T 51C FUNDAMENTALS OF

4 Units

RADIOLOGIC TECHNOLOGY III

Degree & Credit Status: Degree-applicable credit course

Prerequisite: R T 51B. Grade Type: Letter Grade Only

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Continuation of R T 51B; radiographic anatomy, positioning and terminology, related to the skull, vertebral column, bony thorax, surgical, pediatric and trauma radiology. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

RT52D

DIGITAL IMAGE ACQUISITION & DISPLAY

Degree & Credit Status: Degree-applicable credit course Prerequisite: R T 55B. Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Imparts an understanding of components, principles and operation of digital imaging systems found in diagnostic radiology. Factors that impact image acquisition, display, archiving and retrieval are discussed. Compare/contrast different types of digital systems. Principles of digital system quality assurance and maintenance. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

R T 53 **ORIENTATION TO RADIOLOGIC** 4 Units TECHNOLOGY

Degree & Credit Status: Degree-applicable credit course Corequisite: R T 50.

Grade Type: Letter Grade Only

Not Repeatable.

150 hours clinical laboratory total per quarter. This is a 7 week course.

Orientation to radiation sciences, with emphasis on clinical participation. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable **Transferable: CSU**

4.5 Units APPLIED RADIOGRAPHIC **RT53A TECHNOLOGY I**

Degree & Credit Status: Degree-applicable credit course Prerequisites: COMM 2 and R T 53. Grade Type: Letter Grade Only

Not Repeatable.

16 hours clinical laboratory. This is an 11 week course. (176 hours total per quarter)

First of four courses that includes clinical participation and application of basic positioning, patient care, equipment manipulation, radiation protection and image analysis. Emphasis is placed on chest, abdomen, and upper and lower extremity radiography. A clinical presentation is also required with the same emphasis. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable Transferable: CSU

APPLIED RADIOGRAPHIC **R T 53AL TECHNOLOGY LABORATORY I**

Degree & Credit Status: Degree-applicable credit course Prerequisite: R T 50.

Grade Type: Letter Grade Only Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

First of three courses that include laboratory participation and application of basic positioning, patient care, equipment manipulation, radiation protection, image analysis and technical radiographic experiments. Emphasis on abdomen, chest, upper and lower extremities, as learned in the companion lecture course, R T 51A. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

R T 53B

APPLIED RADIOGRAPHIC **TECHNOLOGY II**

Degree & Credit Status: Degree-applicable credit course

Prerequisite: R T 53A. Grade Type: Letter Grade Only

Not Repeatable.

3 Units

16 hours clinical laboratory. This is an 11 week course. (176 hours total per quarter)

Second of four courses that includes clinical participation and application of basic positioning, patient care, equipment manipulation, radiation protection and image analysis. Emphasis is placed on the biliary tract, upper and lower gastrointestinal system and the urinary system. A clinical presentation is also required with the same emphasis. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable **Transferable: CSU**

R T 53BL APPLIED RADIOGRAPHIC **TECHNOLOGY LABORATORY II**

Degree & Credit Status: Degree-applicable credit course

Prerequisite: R T 53AL.

Grade Type: Letter Grade Only

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Second of three courses that include laboratory participation and application of basic positioning, patient care, equipment manipulation, radiation protection, image analysis and technical radiographic experiments. Emphasis on shoulder girdle, hip/pelvis, esophagus, stomach, colon and urinary system, as learned in the companion lecture course, R T 51B. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable

Transferable: CSU

APPLIED RADIOGRAPHIC 4.5 Units **RT53C TECHNOLOGY III** Degree & Credit Status: Degree-applicable credit course

Prerequisite: R T 53B.

Grade Type: Letter Grade Only

Not Repeatable.

16 hours clinical laboratory. This is an 11 week course. (176 hours total per quarter)

Third of four courses that includes clinical participation and application of basic positioning, patient care, equipment manipulation, radiation protection and image analysis. Emphasis is placed on the cervical, thoracic and lumbar spines, sacrum and coccyx, and skull. A clinical presentation is also required with the same emphasis. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

APPLIED RADIOGRAPHIC

FHGE: Non-GE Applicable

Transferable: CSU

R T 53CL

TECHNOLOGY LABORATORY III Degree & Credit Status: Degree-applicable credit course

Prerequisite: R T 53BL.

Grade Type: Letter Grade Only Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Third of three courses that include laboratory participation and application of basic positioning, patient care, equipment manipulation, radiation protection, image analysis and technical radiographic experiments. Emphasis on vertebral column, sacrum and coccyx, ribs, skull, trauma, surgical and pediatric, as learned in the companion lecture course, R T 51C. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

1 Unit

4.5 Units

1 Unit

1 Unit

RT53D

APPLIED RADIOLOGIC **TECHNOLOGY IV**

Degree & Credit Status: Degree-applicable credit course Prerequisite: R T 53C. Grade Type: Letter Grade Only Not Repeatable.

27 hours clinical laboratory. (324 hours total per quarter.)

Fourth of four courses that includes clinical participation and application of basic positioning, patient care, equipment manipulation, radiation protection and image analysis. Emphasis is placed on pediatric radiography, venipuncture and fluoroscopy. A clinical presentation is also required with the emphasis on pathology. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

RT54A BASIC PATIENT CARE FOR 2 Units IMAGING TECHNOLOGY

Degree & Credit Status: Degree-applicable credit course Prerequisite: R T 50.

Advisory: Not open to students with credit in R T 50B. Grade Type: Letter Grade Only

Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Basic concepts of patient care, including consideration for the physical and psychological needs of the patient and family. Routine and emergency patient care procedures and techniques as well as infection control protocols. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program. **Transferable: CSU**

FHGE: Non-GE Applicable

RT54B LAW & ETHICS IN 2 Units MEDICAL IMAGING

Degree & Credit Status: Degree-applicable credit course Prerequisites: R T 54A; one of the following: ENGL 1A, 1AH, or 1S & 1T. Advisory: Not open to students with credit in R T 50A. Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

A fundamental background in ethics, historical and philosophical basis of ethics, as well as elements of ethical behavior, in regard to clinical practice. Misconduct, malpractice, legal and professional standards and the ASRT scope of practice. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

RT54C

RADIOGRAPHIC PATHOLOGY Degree & Credit Status: Degree-applicable credit course

Prerequisite: R T 54B. Advisory: Not open to students with credit in R T 51D.

Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Radiographic Pathology of the respiratory, osseous, fractures, urinary, gastrointestinal, hepatobiliary, central nervous, hemopoietic and endocrine systems, HSG's and associated pathologies. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

9 Units

PRINCIPLES OF RADIOLOGIC **TECHNOLOGY I**

Degree & Credit Status: Degree-applicable credit course Prerequisites: R T 50; CHEM 25 or 30A.

Advisory: Not open to students with credit in R T 52A.

Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Introduction to elementary principles of x-ray physics, technique, radiation protection and digital radiography. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

PRINCIPLES OF RADIOLOGIC **R T 55B** 3 Units **TECHNOLOGY II**

Degree & Credit Status: Degree-applicable credit course Prerequisite: R T 55A. Advisory: Not open to students with credit in R T 52C.

Grade Type: Letter Grade Only

Not Repeatable. 3 hours lecture. (36 hours total per quarter.)

Continuation of RT 55A. Expansion of the principles of x-ray physics, technique and radiation protection. This course emphasizes the circuitry of the x-ray machine, automatic exposure control devices, guality management, radiographic quality and the resulting effect on radiation protection. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable Transferable: CSU

RT55C PRINCIPLES OF RADIOLOGIC 3 Units **TECHNOLOGY III**

Degree & Credit Status: Degree-applicable credit course Prerequisite: R T 55B.

Advisory: Not open to students with credit in R T 52B. Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Continuation of R T 55B, including physics and technique with the main focus on radiation protection of the patient and the occupational worker. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable Transferable: CSU

R T 61A	RADIOLOGY RESEARCH	1 Unit
	PROJECT I	
D 0.0	P. C	

Degree & Credit Status: Degree-applicable credit course Prerequisite: R T 53D. Grade Type: Letter Grade Only

Not Repeatable.

3 Units

326

1 hour lecture. (12 hours total per guarter.)

Collaborative research project on a highly specialized area of radiography or other imaging modality. Submission of scientific poster display board at ACERT conference is required. Selected research topics to be approved by the instructor. This course is part 1 of 2 of the research project for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

R T 61B

RADIOLOGY RESEARCH **PROJECT II** Degree & Credit Status: Degree-applicable credit course

Prerequisite: R T 61A. Grade Type: Letter Grade Only Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

The second course in the R T 61 series will focus on expanding the depth and breadth of learning through the creation of a professional level oral presentation. Utilizing presentation software and other visual aids, groups will collaboratively display their mastery and understanding of the specialized imaging topic selected in R T 61A. This course also places emphasis on group collaboration and critical reflection of individual and group contributions to the project as a whole. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

RT62A ADVANCED MODALITIES IN 3 Units IMAGING

Degree & Credit Status: Degree-applicable credit course

Prerequisite: R T 55B.

Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Specialized radiographic procedures related to magnetic resonance imaging and computerized tomography. Computer applications related to image capture, display, storage, and distribution. Sectional anatomy of the head, neck, thorax, abdomen, pelvis, vertebral column, and extremities. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

SPECIAL PROCEDURES &

FHGE: Non-GE Applicable

Transferable: CSU

EQUIPMENT Degree & Credit Status: Degree-applicable credit course Prerequisite: R T 62A.

Grade Type: Letter Grade Only

Not Repeatable.

RT62B

3 hours lecture. (36 hours total per quarter.)

Continuation of RT 62A with emphasis on radiography of the skull, facial bones, mandible, and sinuses. Advanced radiographic procedures with emphasis on angiographic, cerebral, heart and interventional procedures, angiographic equipment, radiographic anatomy and pathology. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

RT62C PROFESSIONAL DEVELOPMENT IN RADIOLOGY Degree & Credit Status: Degree-applicable credit course

Prerequisite: R T 62B. Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Professional development in radiography, continuing education, and advanced modality opportunities. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

ADVANCED RADIOGRAPHIC PRINCIPLES

Degree & Credit Status: Degree-applicable credit course

Prerequisite: R T 62B. Grade Type: Letter Grade Only

Not Repeatable.

1 Unit

3 Units

3 Units

327

3 hours lecture. (36 hours total per quarter.)

Special emphasis on reviewing the Content Specifications for the ARRT Examination in Radiography; radiation protection, equipment operation and guality control, image acquisition and evaluation, imaging procedures, patient care and education. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

R T 63A	RADIOGRAPHIC CLINICAL	10.5 Units
	PRACTICUM I	

Degree & Credit Status: Degree-applicable credit course Prerequisite: R T 53D.

Grade Type: Letter Grade Only

Not Repeatable.

32 hours clinical laboratory. (384 hours total per quarter.)

First of three courses that includes clinical participation and application of basic positioning, patient care, equipment manipulation, radiation protection and image analysis. Emphasis on utilizing advanced modalities, including MRI/CT. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

R T 63B RADIOGRAPHIC CLINICAL 10.5 Units **PRACTICUM II**

Degree & Credit Status: Degree-applicable credit course

Prerequisite: R T 63A. Grade Type: Letter Grade Only

Not Repeatable.

32 hours clinical laboratory. (384 hours total per quarter.)

Second of three courses that includes clinical participation and application of basic positioning, patient care, equipment manipulation, radiation protection and image analysis. Emphasis on advanced radiographic examinations of the skull, mandible, orbits, nasal bones, facial bones, para-nasal sinuses, mastoids and on special procedures. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable Transferable: CSU

RADIOGRAPHIC CLINICAL 10.5 Units **RT63C** PRACTICUM III

Degree & Credit Status: Degree-applicable credit course

Prerequisite: R T 63B.

Grade Type: Letter Grade Only

Not Repeatable.

32 hours clinical laboratory. (384 hours total per guarter.)

Third of three courses that includes clinical participation and application of basic positioning, patient care, equipment manipulation, radiation protection and image analysis. Emphasis on radiographic techniques and positioning in trauma radiology. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

R T 64	FLUOROSC		4 Units	R T 72	VENIPUNCI		1.5 Units
Degree & Credit Status: Degree-applicable credit course					plicable credit course		
•		ertification in Radiologic Tec	hnology or			ertification in Radiologic 1	fechnology;
	py Technology.				Care Provider CPR	card.	
	ter Grade Only			Grade Type: Let	•		
Not Repeatable				Not Repeatable			
•	•	rs lecture, 15 hours laborato	ory. This		•	. (30 hours total per quart	
	t meet a full 12 wee					ous injection. Includes the	
		nd fluoroscopic equipment,			•	cture equipment and solut	
		and photometry, anatomy an				t-puncture care. Meets sta	
		nal organs. Intended for stud				cation in venipuncture for	
		nrollment is limited to studer	nts accepted	•		s in the Radiologic Techno	•, •
in the program.					-	c Technologists; enrollme	nt is limited to
FHGE: Non-GE	Applicable	Transferable: CSU			ed in the program.		
				FHGE: Non-GE	Applicable	Transferable: CSU	
R T 65	MAMMOGF	RAPHY	3 Units				
Degree & Cred	it Status: Degree-a	oplicable credit course		R T 74	ADVANCED	CLINICAL	13 Units
Prerequisite: R	T 62A or current ce	ertification in Radiologic Tec	hnology.		EXPERIENC	E: COMPUTED	
Grade Type: Let	ter Grade Only				TOMOGRAF	PHY	
Not Repeatable				Degree & Credit	t Status: Degree-ap	plicable credit course	
2.5 hours lectu	re, 1.5 hours laborat	tory. (48 hours total per qua	rter.)	Prerequisites: C	urrent ARRT and C	RT certification as a Radio	ologic Technol-
Technical and p	rocedural aspects o	f mammography including b	reast anat-	ogist; R T 62A a	nd 62C.		-
omy, physiology	, positioning, comp	pression, quality assurance te	chniques,	Grade Type: Let	ter Grade Only		
implant imaging	and mass localizati	ion. Successful completion o	f this course	Not Repeatable	•		
entitles the stu	dent to a Certificate	e of Completion of a 40 hou	r course in	40 hours clinica	I laboratory. (480	nours total per quarter.)	
mammography	education. Intende	d for students in the Radiolo	gic Technol-	A practicum in a	computed tomogr	aphy department. Practica	al experience
ogy Program; e	nrollment is limited	to students accepted in the	program.	is implemented	to expose the post-	graduate radiologic techn	ology student
FHGE: Non-GE	Applicable	Transferable: CSU		to the principles	of CT with empha	is on mastery of the know	ledge, insight
				and skills require	ed to perform CT p	rocedures.	
R T 70A	ADVANCED		13 Units	FHGE: Non-GE	Applicable	Transferable: CSU	
	EXPERIENC						
	INTERVENT			R T 75	SECTIONAL	ANATOMY	3 Units
	RADIOGRA			Degree & Credit		plicable credit course	
Degree & Cred	it Status: Degree-a	oplicable credit course				40C or equivalent.	
		RT certification as a Radiolo	ogic Technol-	Advisory: Not o	pen to students wit	h credit in DMS 51A.	
ogist; R T 62B a	and 62C.		-	Grade Type: Let	ter Grade Only		
Grade Type: Let	ter Grade or Pass/I	No Pass		Not Repeatable	•		
Not Repeatable				3 hours lecture.	(36 hours total per	quarter.)	
40 hours clinic	al laboratory. (480	hours total per quarter.)		Human anatomy	of the head and bo	ody cavities is presented fo	or the health
Designed as a p	racticum in a specia	al procedures department. P	ractical	care professiona	l in transverse, sag	ttal and coronal imaging p	lanes, with
experience is in	plemented to expo	ose the student to the princip	oles of	specific correlat	ion to sonographic	computed tomographic a	nd magnetic
angiography wi	th emphasis on mas	tery of the knowledge, insig	ht, and skills	resonance imagi	ng modalities. Ana	comic reference points, int	ersecting
required to per	form angiographic i	procedures.		planes and medi	cal terminology are	used to identify relations	nips of organs
FHGE: Non-GE	Applicable	Transferable: CSU		as well as pathol	ogic alterations. Int	ended for students in the	Radiologic
				Technology Prog	gram; enrollment is	limited to students accept	ted in the
R T 71	ADVANCED		13 Units	program.			
		E: MAGNETIC		FHGE: Non-GE	Applicable	Transferable: CSU	
		EIMAGING					
Degree & Cred		oplicable credit course		R T 200L	RADIOLOG	C TECHNOLOGY AS	1.5 Units
		RT Certification as a Radiol	oaic Tech-		A CAREER		
nologist; R T 62			5	Dearee & Credit	t Status: Non-degro	ee-applicable credit cours	e
	ter Grade Only			Grade Type: Let			
Not Repeatable				Not Repeatable	•		
•		hours total per quarter.)		•	total per quarter.		
A practicum in	a magnetic resonan	ce department. Practical exp	perience is			ences and its role in health	care. Focus
	-	raduate radiologic technolog			-	ne diagnosis and treatment	
•		is on mastery of the knowled			•	oonsible for providing this	
	ed to perform MRI		J., J.,			or the Radiologic Technolo	•
FHGE: Non-GE		Transferable: CSU			pital observation in		5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5
	CT			FHGE: Non-GE	•	Transferable: None	

.5 Units **RSPT 50B**

INTRODUCTION TO PATIENT **CARE PROCEDURES**

Degree & Credit Status: Degree-applicable credit course

Prerequisite: RSPT 50A. Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture, 6 hours laboratory. (108 hours total per quarter.)

Introduction to patient care procedures, suctioning, artificial airways, tracheostomy, bronchoscopy, administration of hyperinflation therapy, airway pharmacology, bronchial hygiene therapy, aerosol drug therapy, introduction to non-invasive ventilation, basic and advanced airway care, and nutrition assessment. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

RSPT 50C	THERAPEUTICS &	4 Units
	INTRODUCTION TO	
	MECHANICAL VENTILATION	
	Chatter Damas and Backla and Statement	

Degree & Credit Status: Degree-applicable credit course

Prerequisite: RSPT 50B. Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Topics to be covered include respiratory failure, introduction to invasive and non-invasive mechanical ventilation. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable Transferable: CSU

INTRODUCTION TO 2 Units **RSPT 51A RESPIRATORY ANATOMY &** PHYSIOLOGY

Degree & Credit Status: Degree-applicable credit course

Prerequisites: BIOL 40A, 40B and 40C; medical terminology course of 2 semester units or greater.

Grade Type: Letter Grade Only

Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Anatomy of the respiratory system, ventilation, diffusion of pulmonary gases, circulatory system, and oxygen transport. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable Transferable: CSU

RSPT 51B **RESPIRATORY PHYSIOLOGY** 3 Units Degree & Credit Status: Degree-applicable credit course Prerequisite: RSPT 51A or equivalent.

Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Respiratory physiology, including normal and altered lung physiology. Ventilation-perfusion relationships. Control of ventilation, renal, aging, exercise, altitude, and high pressure effects on physiology. Arterial blood gas interpretation and acid-base physiology. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

329

Transferable: CSU



.5 Units

4.5 Units

Transferable: None

Transferable: CSU

Transferable: None

Grade Type: Letter Grade or Pass/No Pass

R T 202

FHGE: Non-GE Applicable

Unlimited Repeatability.

6 hours lecture total per quarter.

R T 201

RADIATION SAFETY IN FLUOROSCOPY FOR **RADIOLOGIC TECHNOLOGISTS**

DIGITAL RADIOGRAPHY FOR

Exploration of how digital radiography allows for the reduction of patient

reviewed to align technical factor manipulation focusing on dose reduction,

dose. Various manufacturers' equipment and exposure indicators will be

image quality factors and patient safety. Restricted to licensed California

Radiologic Technologists to meet continuing education requirements set

forth by the Department of Public Health's Radiologic Health Branch.

Degree & Credit Status: Non-degree-applicable credit course

Prerequisite: Current certification in Radiologic Technology.

RADIOLOGIC TECHNOLOGISTS

Degree & Credit Status: Non-degree-applicable credit course Prerequisite: Current certification in Radiologic Technology. Grade Type: Letter Grade or Pass/No Pass Unlimited Repeatability.

6 hours lecture total per quarter.

Exploration of radiation safety measures in the field of fluoroscopy for both fixed and mobile units. Emphasis will be placed on time, distance, shielding, radiobiology, isometric curves, inverse square law, as well as reduction of radiation exposure to both patients and personnel. Restricted to licensed California Radiologic Technologists to meet continuing education requirements set forth by the Department of Public Health's Radiologic Health Branch.

RESPIRATORY THERAPY

Advisory: Demonstrated proficiency in English by placement via multiple

measures OR through an equivalent placement process OR completion of

Basic hospital and respiratory therapy procedures. Vital signs, compressed

function testing, disaster and emergency procedures, back safety. Intended

for students in the Respiratory Therapy program; enrollment is limited to

PROCEDURES

3 hours lecture, 5 hours laboratory. (96 hours total per quarter.)

gas equipment, oxygen therapy, medical asepsis, bedside pulmonary

Degree & Credit Status: Degree-applicable credit course

FHGE: Non-GE Applicable

RSPT 50A

ESLL 125 & ESLL 249.

Not Repeatable.

Grade Type: Letter Grade Only

students accepted in the program.

FHGE: Non-GE Applicable

RESPIRATORY THERAPY

650.949.7538 foothill.edu/resptherapy/

Biological and Health Sciences



RSPT 51C	PATIENT AS PULMONAR	SESSMENT & RY DISEASE	4 Units	RSPT 55A	MEDIATED STUDIES IN RESPIRATORY THERAPY
Degree & Credi	t Status: Degree-ap	oplicable credit course		Degree & Credi	it Status: Degree-applicable credit
Prerequisite: Bl	OL 41.			Corequisite: RS	SPT 50A.
Grade Type: Let	ter Grade Only			Grade Type: Let	tter Grade Only
Not Repeatable				Not Repeatable	2.
•		(laboratory meets 5 time	es per quarter).	•	ory. (24 hours total per quarter.)
(63 hours total	per quarter.)	•	• •		ourses paralleling content taught in
Physiological ap	proach to the etiol	ogy, management, and pr	ognosis of the		py Program. Focus on oxygen equip
		tion of physical examinati		physiology, vita	I assessments and decision making.
and basic clinica	al laboratory tests in	n the diagnosis and treatm	nent of pulmo-	concepts taugh	t in the concurrent lecture and lab
nary disease. Int	tended for students	in the Respiratory Therap	py Program.	program. Intend	ded for students in the Respiratory
FHGE: Non-GE	Applicable	Transferable: CSU	1	ment is limited	to students accepted in the progra
				FHGE: Non-GE	Applicable Transfer
RSPT 52	APPLIED SC	IENCE FOR	3 Units		
	RESPIRATO	RY THERAPY		RSPT 55B	MEDIATED STUDIES IN
Degree & Credi	t Status: Degree-ap	oplicable credit course			RESPIRATORY THERAPY
	HEM 25, 30A or eq			Degree & Credi	it Status: Degree-applicable credit
Grade Type: Let	ter Grade Only			Prerequisite: R	SPT 55A.
Not Repeatable				Grade Type: Let	tter Grade Only
3 hours lecture.	. (36 hours total per	r quarter.)		Not Repeatable	2.
Basic mathemat	tics and science prir	nciples applicable to Resp	iratory Therapy.	2 hours laborat	ory. (24 hours total per quarter.)
		tem, behavior of matter, f			n courses paralleling content taugh
acids and bases.	. Intended for stude	ents in the Respiratory The	erapy Program;		Program. Develop and strengthen
enrollment is lir	nited to students ac	ccepted in the program.		concurrent lect	cure and laboratory sessions of the
FHGE: Non-GE		Transferable: CSU	ł		alternative learning resource for no
					udents in the Respiratory Therapy F
RSPT 53A	INTRODUCT		2 Units	limited to stude	ents accepted in the program.
		RYTHERAPY	2 onits	FHGE: Non-GE	Applicable Transfer
	PHARMACC				
Degree & Credi	t Status: Degree-ar	oplicable credit course		RSPT 55C	MEDIATED STUDIES IN
Prerequisite: R		•			RESPIRATORY THERAPY
Grade Type: Let	ter Grade Only			Degree & Credi	it Status: Degree-applicable credit
Not Repeatable				Prerequisite: R	SPT 55B.
2 hours lecture.	. (24 hours total per	r quarter.)		Grade Type: Let	tter Grade Only
An in-depth stu	dy of drug groups c	commonly used in the trea	atment of respi-	Not Repeatable	2.
ratory diseases.	Intended for studer	nts in the Respiratory The	erapy Program;	2 hours laborat	ory. (24 hours total per quarter.)
enrollment is lir	nited to students ac	ccepted in the program.		Third of seven o	courses paralleling content taught i
FHGE: Non-GE	Applicable	Transferable: CSU	ł	tory Therapy Pr	ogram. Focus on assessments and
				and strengthen	concepts taught in the concurrent
RSPT 53B	ADVANCED	RESPIRATORY	2 Units	sessions of the	program. Intended for students in t
		HARMACOLOGY		Program; enroll	Iment is limited to students accept
Degree & Credi	t Status: Degree-ap	oplicable credit course		FHGE: Non-GE	Applicable Transfer
Prerequisite: R	SPT 53A.	•			
Grade Type: Let	ter Grade Only			RSPT 55D	MEDIATED STUDIES IN
Not Repeatable	•				RESPIRATORY THERAPY
2 hours lecture.	. (24 hours total per	r quarter.)		Degree & Credi	it Status: Degree-applicable credit
An in-depth stu	dy of drug groups c	commonly encountered in	intensive	Prerequisite: R	SPT 55C.
respiratory care	 Intended for stude 	ents in the Respiratory Th	erapy Program;	Grade Type: Let	tter Grade Only
enrollment is lir	nited to students ac	ccepted in the program.		Not Repeatable	2.
FHGE: Non-GE	Applicable	Transferable: CSU	ļ	2 hours laborat	ory. (24 hours total per quarter.)
				Fourth of sever	n courses paralleling content taught
RSPT 54	ORIENTATIO	ON TO	2 Units	spiratory Thera	py Program. Content to include inv
	RESPIRATO			ventilation strat	tegies and management, arterial blo
Degree & Credi	t Status: Degree-ar	oplicable credit course		tive approaches	s to the management of ARDS. Dev
Corequisite: RS		•			t in the concurrent lecture and lab
•	ter Grade Only			program. Intend	ded for students in the Respiratory
Not Repeatable	-				to students accepted in the progra
	. (24 hours total per	r quarter.)		FHGE: Non-GE	Applicable Transfer
2 hours lecture.	•	rapy Program and health	care. Current		
		ofessionalism, death, dyir			
Orientation to t	an medical care, pr	, , , , ,	•		
Orientation to t issues in Americ		sity, HIPAA, ethics, legal	issues, and		
Orientation to t issues in Americ communication	skills, cultural diver	rsity, HIPAA, ethics, legal nts in the Respiratory The			
Orientation to t issues in Americ communication patient's rights.	skills, cultural diver Intended for studer				
Orientation to t issues in Americ communication patient's rights.	skills, cultural diver Intended for studer nited to students ac	nts in the Respiratory The	erapy Program;		

HERAPY I ble credit course

quarter.)

It taught in courses in the Reygen equipment, anatomy and on making. Develop and strengthen re and laboratory sessions of the espiratory Therapy Program; enrollhe program. **Transferable: CSU**

DIES IN .5 Units HERAPY II

ble credit course

tent taught in courses in the Respirengthen concepts taught in the ons of the program. Media materials rce for non-traditional students. Therapy Program; enrollment is ram.

Transferable: CSU

DIES IN .5 Units HERAPY III

ble credit course

nt taught in courses in the Respiranents and data evaluation. Develop oncurrent lecture and laboratory udents in the Respiratory Therapy nts accepted in the program. Transferable: CSU

DIES IN .5 Units HERAPY IV

ble credit course

ent taught in courses in the Renclude invasive and non-invasive arterial blood gases, and innova-ARDS. Develop and strengthen re and laboratory sessions of the espiratory Therapy Program; enrollhe program. **Transferable: CSU**

RSPT 55E

MEDIATED STUDIES IN **RESPIRATORY THERAPY V**

Degree & Credit Status: Degree-applicable credit course Prerequisite: RSPT 55D. Grade Type: Letter Grade Only

Not Repeatable.

2 hours laboratory. (24 hours total per quarter.)

Fifth of seven courses paralleling content taught in courses in the Respiratory Therapy Program. Topics include neonatal and pediatric diseases, ECG and hemodynamic monitoring. Develop and strengthen concepts taught in the concurrent lecture and laboratory sessions of the program. Media materials will provide an alternative learning resource for non-traditional students. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program. Transferable: CSU

FHGE: Non-GE Applicable

RSPT 55F **MEDIATED STUDIES IN RESPIRATORY THERAPY VI**

.5 Units

.5 Units

.5 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: RSPT 55E.

Grade Type: Letter Grade Only Not Repeatable.

2 hours laboratory. (24 hours total per quarter.)

Sixth of seven courses paralleling content taught in courses in the Respiratory Therapy Program. Topics covered include: COPD/mechanical ventilation, head injury, acute congestive heart failure, near drowning, neonatal respiratory distress syndrome, hypothermia with cardiac arrest, COPD/ home care and pulmonary rehabilitation. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

MEDIATED STUDIES IN

FHGE: Non-GE Applicable

Transferable: CSU

RESPIRATORY THERAPY VII Degree & Credit Status: Degree-applicable credit course Prerequisite: RSPT 55F.

Grade Type: Letter Grade Only

Not Repeatable.

RSPT 55G

2 hours laboratory. (24 hours total per quarter.)

Seventh of seven courses paralleling content taught in courses in the Respiratory Therapy Program. Students will take practice exams of the national entry level and registry examinations. Content will also include advanced PFT and basic spirometry. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program. **Transferable: CSU** FHGE: Non-GE Applicable

RSPT 56 **ORIENTATION TO HOSPITAL** 1 Unit & PATIENT CARE I

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

Not Repeatable.

3 hours clinical laboratory. (36 hours total per quarter.)

Introduction to the hospital setting and patient care. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

RSPT 57 **ORIENTATION TO HOSPITAL & PATIENT CARE II**

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

6 hours clinical laboratory. (72 hours total per quarter.)

Application and practice of respiratory therapy skills in the clinical setting, including, but not limited to: floor care modalities, patient assessments, and non-invasive ventilation. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

RSPT 60C PULMONARY DIAGNOSTICS

Degree & Credit Status: Degree-applicable credit course Prerequisite: RSPT 51C. Grade Type: Letter Grade Only

Not Repeatable.

2.5 hours lecture, 2 hours laboratory. (54 hours total per quarter.)

Selection, performance, and interpretation of tests used to diagnose cardiopulmonary abnormalities. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted into the program. FHGE: Non-GE Applicable **Transferable: CSU**

RSPT 61A ADULT MECHANICAL 4 Units VENTILATION

Degree & Credit Status: Degree-applicable credit course Prerequisites: RSPT 50C and 51C. Grade Type: Letter Grade Only Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Develops and enhances the concepts and skills essential to meet the needs of patients placed on invasive and non-invasive ventilation. Overview of modes of ventilation, humidification and medication delivery. Includes laboratory exercises of commonly used ventilators and patient-ventilator simulations. For continuing education purposes, new ventilators and stateof-the-art theories on ventilation will be presented based upon current research. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable Transferable: CSU

RSPT 61B NEONATAL RESPIRATORY CARE 3 Units Degree & Credit Status: Degree-applicable credit course Prerequisite: RSPT 61A. Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture, 3 hours laboratory. (60 hours total per quarter.)

In depth look at Neonatal Respiratory Care. Examination and assessment of the neonate. Neonatal Respiratory diseases and disorders including treatment and management. Preparation for the Neonatal Resuscitation Program certification. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

RSPT 61C HOME & REHABILITATIVE 2 Units **RESPIRATORY CARE**

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Introduction to rehabilitative respiratory care. Discussion of respiratory therapy procedures and equipment used in the treatment of home care patients. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

RSPT 61D PEDIATRIC RESPIRATORY CARE 2 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: RSPT 61B.

Grade Type: Letter Grade Only

Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

In depth look at Pediatric respiratory care. Examination and assessment of the pediatric patient. Pediatric Respiratory diseases and disorders including treatment and management. Preparation for the pediatric advanced life support certification. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program. Transferable: CSU FHGE: Non-GE Applicable

MANAGEMENT, RESUME & NATIONAL BOARD **EXAMINATION**

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Management and leadership styles. Review of effective communication skills. Current health care economics, job outlook and interviewing skills. Resume, cover letter and thank you letter preparation. Students will be introduced to the NBRC Board exam detailed content outlines. Licensure and exam applications and procedure for applying. Students will need to complete a self evaluation paper that lists areas they need to focus on. Students take the National Board for Respiratory Care mock examination. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable **Transferable: CSU**

ADVANCED PATHOPHYSIOLOGY RSPT 63A 3 Units & PATIENT MANAGEMENT

Degree & Credit Status: Degree-applicable credit course Prerequisite: RSPT 51C.

Grade Type: Letter Grade Only Not Repeatable.

3 hours lecture. (36 hours total per guarter.)

The assessment and treatment of patients with Cardiopulmonary Disease. Structured to help build higher order critical thinking and problem solving skills. Through the use of case studies and clinical simulations students will place emphasis on information gathering and decision making for respiratory care patients. Helpful for NBRC Clinical Simulation Examination preparation. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable Transferable: CSU

RSPT 65

COMPUTER PATIENT SIMULATIONS

.5 Units

2 Units

1 Unit

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

2 hours laboratory. (24 hours total per quarter.)

Information gathering and decision making in the management of patients with acute and chronic respiratory conditions. Intended for students in the Respiratory Therapy program; enrollment is limited to students accepted in the program.

Transferable: CSU

FHGE: Non-GE Applicable

RSPT 70A **CLINICAL ROTATION I**

Degree & Credit Status: Degree-applicable credit course Prerequisite: RSPT 50C. Grade Type: Letter Grade Only

Not Repeatable.

6 hours clinical laboratory. (72 hours total per quarter.)

Exposure to hospital departments. Clinical application of respiratory therapy procedures. Interpretation of basic diagnostic data and correlation to applied therapies. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program. **Transferable: CSU**

FHGE: Non-GE Applicable

RSPT 70B CLINICAL ROTATION II

Degree & Credit Status: Degree-applicable credit course Prerequisites: RSPT 61A and 70A. Grade Type: Letter Grade Only Not Repeatable.

24 hours clinical laboratory. (288 hours total per guarter.)

Continuation of RSPT 70A with performance of more advanced respiratory therapy techniques. Interpretation of increasing amounts of clinical data and a correlation to applied therapies. Participation in cardiopulmonary resuscitations. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program. **Transferable: CSU** FHGE: Non-GE Applicable

RSPT 70C **CLINICAL ROTATION III**

8 Units

Degree & Credit Status: Degree-applicable credit course

Prerequisite: RSPT 70B. Grade Type: Letter Grade Only

Not Repeatable.

24 hours clinical laboratory. (288 hours total per quarter.)

Continuation of RSPT 70B. Clinical application of theory relating to monitoring and management of neonate, pediatric, and adult intensive care unit patient. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

RSPT 70D **CLINICAL ROTATION IV**

8 Units

2 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: RSPT 70C. Grade Type: Letter Grade Only

Not Repeatable.

24 hours clinical laboratory. (288 hours total per quarter.)

Continuation of RSPT 70C. Further clinical experience with ventilation and special procedures of surgical, medical, neonatal, and pediatric intensive care, offered as options for remediation. Assignment dependent on demonstrated student needs. Mini-rotations offered to qualified students, depending on interest. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program. Transferable: CSU

FHGE: Non-GE Applicable

RSPT 82 ORIENTATION TO 2 Units INTERVENTIONAL PULMONOLOGY

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Orientation and overview of interventional pulmonology as a respiratory care specialty. Transferable: CSU

FHGE: Non-GE Applicable

CASE-BASED ANALYSIS & CRITICAL THINKING IN DIAGNOSTIC INTERVENTIONAL PULMONOLOGY

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

Not Repeatable.

RSPT 83

2 hours lecture. (24 hours total per quarter.)

Case-based reasoning and critical thinking in the field of interventional pulmonology. Content will include critical diagnostic thinking, evidence-based medicine and quantitative studies in respiratory care. Transferable: CSU

FHGE: Non-GE Applicable

	FUNDAMENT/ DISEASE	ALS OF PULMONARY	3 Units	RSPT 200L	INTRODUCTION TO RESPIRATORY THERAPY	1 Unit
Degree & Credit St	atus: Degree-appl	licable credit course		Degree & Credit	Status: Non-degree-applicable credit course	
Grade Type: Letter	Grade Only			Advisory: Studen	ts are not required to have been admitted to	the Respira-
Not Repeatable.	•			tory Therapy Prog		
3 hours lecture. (3	б hours total per g [,]	uarter.)		Grade Type: Lette		
		nysiology. Fundamentals of p	oulmonary	Not Repeatable.		
diseases and patho			Jannenary	•	our laboratory. (24 hours total per quarter.)	
FHGE: Non-GE Ap		Transferable: CSU			he career of respiratory therapy. Role of the	
PHOE: NON-GE AP	plicable	Italisterable: CSO				
					f specialization in the field, educational requi	rements and
RSPT 85	INTERVENTIO PULMONOLO APPLICATION	GY THEORY &	3 Units	FHGE: Non-GE A	linical tasks and skills will also be introduced. pplicable Transferable: None	
Degree & Credit St		icable credit course				
Grade Type: Letter						
Not Repeatable.	Grade Only					
•	6 h			SOCIAL S	CIENCE	
3 hours lecture. (3						
		erventional pulmonology. D		Business and Sc	ocial Sciences	
		and therapeutic interventio	ns, tech-		oothill.edu/globalstudies/	
niques and procedu		Jced.			, other and growing that is a	
FHGE: Non-GE Ap	plicable	Transferable: CSU				
				SOSC 20	CROSS-CULTURAL	4 Units
RSPT 86	INTERVENTIO	ΝΔΙ	3 Units	2000 20	PERSPECTIVES FOR A	- 51113
NJF I 00		IGY PROCEDURES	5 Units		MULTICULTURAL SOCIETY	
-						
-		licable credit course		•	Status: Degree-applicable credit course	
Grade Type: Letter	Grade Only			••	er Grade or Pass/No Pass	
Not Repeatable.				Not Repeatable.		
3 hours lecture. (3	5 hours total per q	uarter.)		4 hours lecture. (48 hours total per quarter.)	
Basic and advanced	l interventional pul	Imonology procedures. Proc	cedures	Analysis of the m	ulti-ethnic forms of cultural domination and i	ts diverse
to be covered will i	nclude bronchosco	opy, thoracoscopy, endosco	py, airway	manifestation in s	ociety, emphasizing European and Third Wor	ld cultures.
access procedures					e values and practices of democratic particip	
FHGE: Non-GE Ap		Transferable: CSU			in those cultures. Review theories, concepts	
					prity-minority issues.	
DCDT 074				FHGE: Non-GE A		IC
RSPT 87A	INTERVENTIO		1 Unit			
	PULMONOLO					
	INTERNSHIP I			SOSC 70R	INDEPENDENT STUDY IN	1 Unit
		licable credit course			SOCIAL SCIENCE	
Grade Type: Letter	Grade Only			SOSC 71R		2 Units
Not Repeatable.				SOSC 72R		3 Units
3 hours clinical lab	oratory. (36 hours	total per quarter.)		SOSC 73R		4 Units
		ional pulmonology procedur	res.	Dearee & Credit	Status: Degree-applicable credit course	
		a and correlation to applied		-	er Grade or Pass/No Pass	
		/ for diagnostic and therape		Not Repeatable.		
ventions, such as al				•	atory per week. (36-144 hours total per quar	ter)
FHGE: Non-GE Ap	-	Transferable: CSU			rtunity for the student to expand their studie	
FIGE: Non-GE Ap	plicable	Italisterable: CSO				
					he classroom by completing a project or an a	-
RSPT 87B	INTERVENTIO	NAL	1 Unit		ement between the student and instructor. T	
	PULMONOLO	GY CLINICAL			act with the instructor to determine the scor	
	INTERNSHIP I	1			value assigned for successful completion. St	
		icable credit course		take a maximum o	of 6 units of Independent Study per departm	ent.
Degree & Credit St	atus: Degree-appl			FHGE: Non-GE A	pplicable Transferable: CSU	
Grade Type: Letter						
Grade Type: Letter Not Repeatable.	Grade Only	total nor quarter)		SOSC 79		1 Unit
Degree & Credit St Grade Type: Letter Not Repeatable. 3 hours clinical lab	Grade Only oratory. (36 hours	· ·	ning In ad	SOSC 79		1 Unit
Grade Type: Letter Not Repeatable. 3 hours clinical lab Interpretation of d	Grade Only oratory. (36 hours iagnostic data and	correlation to applied thera		SOSC 79	COMMUNITY/CIVIC	1 Unit
Grade Type: Letter Not Repeatable. 3 hours clinical lab Interpretation of d dition to clinical ap	Grade Only oratory. (36 hours iagnostic data and plication of proced	correlation to applied thera dures covered in RSPT 87A,	advanced		COMMUNITY/CIVIC ENGAGEMENT	1 Unit
Grade Type: Letter Not Repeatable. 3 hours clinical lab Interpretation of d dition to clinical ap procedures may inc	Grade Only oratory. (36 hours iagnostic data and plication of proced clude (a) balloon dil	correlation to applied thera dures covered in RSPT 87A, lation, (b) stent placement,	advanced	Degree & Credit	COMMUNITY/CIVIC ENGAGEMENT Status: Degree-applicable credit course	1 Unit
Grade Type: Letter Not Repeatable. 3 hours clinical lab Interpretation of d dition to clinical ap procedures may into volume reduction a	Grade Only oratory. (36 hours iagnostic data and plication of proced clude (a) balloon dil and (d) foreign bod	correlation to applied thera dures covered in RSPT 87A, lation, (b) stent placement, y removal.	advanced	Degree & Credit S Grade Type: Lette	COMMUNITY/CIVIC ENGAGEMENT	1 Unit
Grade Type: Letter Not Repeatable. 3 hours clinical lab Interpretation of d dition to clinical ap procedures may ind volume reduction a	Grade Only oratory. (36 hours iagnostic data and plication of proced clude (a) balloon dil and (d) foreign bod	correlation to applied thera dures covered in RSPT 87A, lation, (b) stent placement,	advanced	Degree & Credit : Grade Type: Lette Not Repeatable.	COMMUNITY/CIVIC ENGAGEMENT Status: Degree-applicable credit course er Grade or Pass/No Pass	1 Unit
Grade Type: Letter Not Repeatable. 3 hours clinical lab Interpretation of d dition to clinical ap procedures may ind volume reduction a	Grade Only oratory. (36 hours iagnostic data and plication of proced clude (a) balloon dil and (d) foreign bod	correlation to applied thera dures covered in RSPT 87A, lation, (b) stent placement, y removal.	advanced	Degree & Credit : Grade Type: Lette Not Repeatable.	COMMUNITY/CIVIC ENGAGEMENT Status: Degree-applicable credit course	1 Unit
Grade Type: Letter Not Repeatable. 3 hours clinical lab Interpretation of d dition to clinical ap procedures may ind volume reduction a FHGE: Non-GE Ap	Grade Only oratory. (36 hours iagnostic data and plication of proced clude (a) balloon dil and (d) foreign bod plicable	correlation to applied thera dures covered in RSPT 87A, lation, (b) stent placement, ly removal. Transferable: CSU	advanced (c) lung	Degree & Credit : Grade Type: Lette Not Repeatable. 1 hour lecture. (12	COMMUNITY/CIVIC ENGAGEMENT Status: Degree-applicable credit course er Grade or Pass/No Pass	
Grade Type: Letter Not Repeatable. 3 hours clinical lab Interpretation of d dition to clinical ap procedures may ind volume reduction a FHGE: Non-GE Ap	Grade Only oratory. (36 hours iagnostic data and plication of proced clude (a) balloon dil and (d) foreign bod plicable INTERVENTIO	correlation to applied thera dures covered in RSPT 87A, lation, (b) stent placement, ly removal. Transferable: CSU	advanced	Degree & Credit : Grade Type: Lette Not Repeatable. 1 hour lecture. (12 Introduction to co	COMMUNITY/CIVIC ENGAGEMENT Status: Degree-applicable credit course er Grade or Pass/No Pass ? hours total per quarter.)	organizations,
Grade Type: Letter Not Repeatable. 3 hours clinical lab Interpretation of d dition to clinical ap procedures may ind volume reduction a FHGE: Non-GE Ap	Grade Only oratory. (36 hours iagnostic data and plication of proced clude (a) balloon dil and (d) foreign bod plicable INTERVENTIO PULMONOLO	correlation to applied thera dures covered in RSPT 87A, lation, (b) stent placement, ly removal. Transferable: CSU	advanced (c) lung	Degree & Credit 1 Grade Type: Lette Not Repeatable. 1 hour lecture. (12 Introduction to co businesses or civic	COMMUNITY/CIVIC ENGAGEMENT Status: Degree-applicable credit course er Grade or Pass/No Pass 2 hours total per quarter.) community service as it relates to community	organizations, n advocacy
Grade Type: Letter Not Repeatable. 3 hours clinical lab Interpretation of d dition to clinical ap procedures may ind volume reduction a FHGE: Non-GE Ap RSPT 88	Grade Only oratory. (36 hours iagnostic data and plication of proced clude (a) balloon dil and (d) foreign bod plicable INTERVENTIO PULMONOLO PROJECT	correlation to applied thera dures covered in RSPT 87A, lation, (b) stent placement, ly removal. Transferable: CSU DNAL DGY RESEARCH	advanced (c) lung	Degree & Credit 1 Grade Type: Lette Not Repeatable. 1 hour lecture. (12 Introduction to co businesses or civic and civic engager	COMMUNITY/CIVIC ENGAGEMENT Status: Degree-applicable credit course er Grade or Pass/No Pass 2 hours total per quarter.) community service as it relates to community c institutions allowing students to gain skills i nent through community service experience	organizations, n advocacy s, research
Grade Type: Letter Not Repeatable. 3 hours clinical lab Interpretation of d dition to clinical ap procedures may ind volume reduction a FHGE: Non-GE Ap RSPT 88 Degree & Credit St	Grade Only oratory. (36 hours iagnostic data and plication of proced clude (a) balloon dil and (d) foreign bod plicable INTERVENTIO PULMONOLO PROJECT tatus: Degree-appl	correlation to applied thera dures covered in RSPT 87A, lation, (b) stent placement, ly removal. Transferable: CSU	advanced (c) lung	Degree & Credit S Grade Type: Lette Not Repeatable. 1 hour lecture. (12 Introduction to co businesses or civic and civic engager and reflection. St	COMMUNITY/CIVIC ENGAGEMENT Status: Degree-applicable credit course er Grade or Pass/No Pass Phours total per quarter.) community service as it relates to community c institutions allowing students to gain skills in nent through community service experience udents explore experiential education, theor	organizations, n advocacy s, research ies of service
Grade Type: Letter Not Repeatable. 3 hours clinical lab Interpretation of d dition to clinical ap procedures may ind volume reduction a FHGE: Non-GE Ap RSPT 88 Degree & Credit St Grade Type: Letter	Grade Only oratory. (36 hours iagnostic data and plication of proced clude (a) balloon dil and (d) foreign bod plicable INTERVENTIO PULMONOLO PROJECT tatus: Degree-appl	correlation to applied thera dures covered in RSPT 87A, lation, (b) stent placement, ly removal. Transferable: CSU DNAL DGY RESEARCH	advanced (c) lung	Degree & Credit S Grade Type: Lette Not Repeatable. 1 hour lecture. (12 Introduction to co businesses or civic and civic engager and reflection. St and service learni	COMMUNITY/CIVIC ENGAGEMENT Status: Degree-applicable credit course er Grade or Pass/No Pass 2 hours total per quarter.) community service as it relates to community c institutions allowing students to gain skills i nent through community service experience udents explore experiential education, theor ng, strategies for facilitation and effective pr	organizations, n advocacy s, research ies of service actice. The
Grade Type: Letter Not Repeatable. 3 hours clinical lab Interpretation of d dition to clinical ap procedures may ind volume reduction a FHGE: Non-GE Ap RSPT 88 Degree & Credit St Grade Type: Letter Not Repeatable.	Grade Only oratory. (36 hours iagnostic data and plication of proced clude (a) balloon dil and (d) foreign bod plicable INTERVENTIO PULMONOLO PROJECT tatus: Degree-appl Grade Only	correlation to applied thera dures covered in RSPT 87A, lation, (b) stent placement, ly removal. Transferable: CSU ONAL OGY RESEARCH	advanced (c) lung	Degree & Credit S Grade Type: Lette Not Repeatable. 1 hour lecture. (12 Introduction to co businesses or civic and civic engager and reflection. St and service learni course integrates	COMMUNITY/CIVIC ENGAGEMENT Status: Degree-applicable credit course er Grade or Pass/No Pass 2 hours total per quarter.) community service as it relates to community c institutions allowing students to gain skills i nent through community service experience udents explore experiential education, theor ng, strategies for facilitation and effective pr a practical experience in leading service lead	organizations, n advocacy s, research ies of service actice. The ning projects.
Grade Type: Letter Not Repeatable. 3 hours clinical lab Interpretation of d dition to clinical ap procedures may ind volume reduction a FHGE: Non-GE Ap RSPT 88 Degree & Credit St Grade Type: Letter Not Repeatable. 1 hour lecture. (12 l	Grade Only oratory. (36 hours iagnostic data and plication of proced clude (a) balloon dil and (d) foreign bod plicable INTERVENTIO PULMONOLO PROJECT tatus: Degree-appl Grade Only hours total per qua	correlation to applied thera dures covered in RSPT 87A, lation, (b) stent placement, ly removal. Transferable: CSU ONAL OGY RESEARCH licable credit course	advanced (c) lung 1 Unit	Degree & Credit S Grade Type: Lette Not Repeatable. 1 hour lecture. (12 Introduction to co businesses or civic and civic engager and reflection. St and service learni course integrates The course allows	COMMUNITY/CIVIC ENGAGEMENT Status: Degree-applicable credit course er Grade or Pass/No Pass Phours total per quarter.) community service as it relates to community c institutions allowing students to gain skills i nent through community service experience udents explore experiential education, theor ng, strategies for facilitation and effective pr a practical experience in leading service lead students to balance action with critical reflection	organizations, n advocacy s, research ies of service actice. The ning projects.
Grade Type: Letter Not Repeatable. 3 hours clinical lab Interpretation of d dition to clinical ap procedures may ind volume reduction a FHGE: Non-GE Ap RSPT 88 Degree & Credit St Grade Type: Letter Not Repeatable. 1 hour lecture. (12 I Research project o	Grade Only oratory. (36 hours iagnostic data and plication of proced clude (a) balloon dil and (d) foreign bod plicable INTERVENTIO PULMONOLO PROJECT tatus: Degree-appl Grade Only hours total per qua	correlation to applied thera dures covered in RSPT 87A, lation, (b) stent placement, ly removal. Transferable: CSU ONAL OGY RESEARCH licable credit course	advanced (c) lung 1 Unit	Degree & Credit S Grade Type: Lette Not Repeatable. 1 hour lecture. (12 Introduction to co businesses or civic and civic engager and reflection. St and service learni course integrates The course allows service learning p	COMMUNITY/CIVIC ENGAGEMENT Status: Degree-applicable credit course er Grade or Pass/No Pass Phours total per quarter.) community service as it relates to community c institutions allowing students to gain skills i nent through community service experience udents explore experiential education, theor ng, strategies for facilitation and effective pr a practical experience in leading service lead students to balance action with critical refle- ractice.	organizations, n advocacy s, research ies of service actice. The ning projects.
Grade Type: Letter Not Repeatable. 3 hours clinical lab Interpretation of d dition to clinical ap procedures may ind volume reduction a FHGE: Non-GE Ap RSPT 88 Degree & Credit St Grade Type: Letter Not Repeatable. 1 hour lecture. (12 l	Grade Only oratory. (36 hours iagnostic data and plication of proced clude (a) balloon dil and (d) foreign bod plicable INTERVENTIO PULMONOLO PROJECT tatus: Degree-appl Grade Only hours total per qua	correlation to applied thera dures covered in RSPT 87A, lation, (b) stent placement, ly removal. Transferable: CSU ONAL OGY RESEARCH licable credit course	advanced (c) lung 1 Unit	Degree & Credit S Grade Type: Lette Not Repeatable. 1 hour lecture. (12 Introduction to co businesses or civic and civic engager and reflection. St and service learni course integrates The course allows	COMMUNITY/CIVIC ENGAGEMENT Status: Degree-applicable credit course er Grade or Pass/No Pass Phours total per quarter.) community service as it relates to community c institutions allowing students to gain skills i nent through community service experience udents explore experiential education, theor ng, strategies for facilitation and effective pr a practical experience in leading service lead students to balance action with critical refle- ractice.	organizations, n advocacy s, research ies of service actice. The ning projects.

Transferable: CSU



COURSE CATALOG 2020-2021

SOCIOLOGY

Business and Social Sciences 650.949.7322 foothill.edu/sociology/

SOC 1 INTRODUCTION TO SOCIOLOGY

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in SOC 1H.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Introduction to the field of sociology; the scientific study of human society and the contemporary world, and the interaction of individuals and groups in society. Analysis of major theories, concepts, methods, social institutions, and social processes. Development of a sociological imagination and social context analysis. Society in its social class, racial and gendered dynamics. Transferable: CSU/UC FHGE: Social & Behavioral Sciences

HONORS INTRODUCTION TO SOC 1H 5 Units SOCIOLOGY

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant. Advisory: Not open to students with credit in SOC 1. Grade Type: Letter Grade Only

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Introduction to the field of sociology; the scientific study of human society and the contemporary world, and the interaction of individuals and groups in society. Analysis of major theories, concepts, methods, social institutions, and social processes. Development of a sociological imagination and social context analysis. Society in its social class, racial and gendered dynamics. As an honors course, it is focused on reading and critically analyzing sociological literature and researching specific sociological topics.

FHGE: Social & Behavioral Sciences

Transferable: CSU/UC

5 Units

5 Units

SOC 7

STATISTICS FOR THE **BEHAVIORAL SCIENCES**

Degree & Credit Status: Degree-applicable credit course

Prerequisites: One of the following: PSYC 1, 1H, SOC 1, 1H; MATH 105 or equivalent.

Advisory: UC will grant transfer credit for a maximum of one course from the following: PSYC 7, SOC 7, MATH 10 or 17--students are strongly encouraged to meet with a counselor for appropriate course selection; not open to students with credit in PSYC 7.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

For students majoring in psychology, sociology, and other behavioral sciences. Introduction to the basic statistical techniques and design methodologies used in behavioral sciences. Topics include descriptive statistics; probability and sampling distributions; statistical inference and power; linear correlation and regression; chi-square; t-tests, and ANOVA. Computations will be completed by hand and with the use of statistical software. Emphasis on the interpretation and relevance of statistical findings and the application of statistical concepts to real-world problems in the behavioral and social sciences.

FHGE: Communication & Analytical Thinking Transferable: CSU/UC

SOC 8 POPULAR CULTURE

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per guarter.)

Theoretical and methodological overview of American popular culture. A critical examination of the socio-historical development and contemporary forms of popular culture in America. The relationship of popular culture to individual, group and mass identity formation. Analysis of popular culture and its racial and class dimensions.

FHGE: American Cultures & Communities Transferable: CSU/UC

SOC 10	RESEARCH METHODS &	5 Units
	DESIGNS	

Degree & Credit Status: Degree-applicable credit course Prerequisites: PSYC 1 or 1H; and PSYC 7, SOC 7, MATH 10, or MATH 17. Advisory: One of the following: ENGL 1A, 1AH or 1S & 1T; not open to students with credit in PSYC 10.

Grade Type: Letter Grade Only

Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.)

Survey of the various quantitative and qualitative research methods. Emphasis on the research design, planning, experimental procedures, and the collection, analysis, interpretation, and reporting of data. Laboratory emphasis on group work, data entry, and analysis of data with statistical software.

FHGE: Social & Behavioral Sciences

Transferable: CSU/UC

5 Units

4 Units

4 Units

SOC 11 INTRODUCTION TO SOCIAL WELFARE

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass

Not Repeatable. 5 hours lecture. (60 hours total per quarter.)

Sociological perspective of social welfare and the social services system as a field of study and profession. Historical overview of social problems and development of the professional fields. Focus on range of sociological theory to explain development of social services systems, their core concepts, value systems and methods.

FHGE: Social & Behavioral Sciences

Transferable: CSU/UC

SOC 14

SOCIOLOGY OF CRIME Degree & Credit Status: Degree-applicable credit course

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Examines the social context of crime and deviance. Topics may include theories of crime and deviance; the criminal justice system; white collar, organized, and street crime; social class, race, ethnicity, sex, gender, and crime; and legal implications of crime and deviance. Socioeconomic and multicultural issues emphasized throughout the course. Sociological concepts of deviance and social control. Theories of structural conditions contributing to conformity and non-conformity will be explored.

Transferable: CSU/UC FHGE: Non-GE Applicable

LAW & SOCIETY

SOC 15

Degree & Credit Status: Degree-applicable credit course

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Introduction to the relationship of law, society and the individual. Institutional analysis of factors underlying the creation, maintenance, and change of legal systems. Theories of jurisprudence and practical problems of law enforcement and the administration of justice.

FHGE: Social & Behavioral Sciences

Transferable: CSU/UC

SOC 19

ALCOHOL & DRUG ABUSE

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per guarter.)

Introduction to problems of substance abuse. History and classification of alcohol and drug abuse. Equips human service workers and general public with knowledge about issues involved in alcohol and drug abuse. Intervention and rehabilitation programs as well as public policy paradigms are examined.

FHGE: Lifelong Understanding, Social & Behavioral Sciences Transferable: CSU/UC

SOC 20

MAJOR SOCIAL PROBLEMS

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

An identification and analysis of contemporary social problems including (1) the role of power and ideology in the definition of social problems, (2) their causes and consequences, (3) evaluations of proposed solutions, and (4) methods of intervention. Topics will vary. FHGE: Social & Behavioral Sciences Transferable: CSU/UC

RACE & ETHNIC RELATIONS SOC 23

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Focus on the meaning of race and ethnicity as it relates to intergroup relations in the U.S.A. Inclusive analysis of concepts, theories, socio-legal effects of the Civil Rights Movement, public policy and its impact on diverse racial and ethnic populations in the U.S.A. Historical and sociological assessment of majority-minority relations with emphasis on the perspectives of African-Americans, Hispanic/Latino-Americans, Asian-Americans and the indigenous Native American tribes. Demographic implications of race and ethnic relations on U.S.A.'s economic, political and educational institutions. Relationship among race, ethnicity and poverty.

FHGE: American Cultures & Communities, Social & Behavioral Sciences Transferable: CSU/UC

SOC 28 SOCIOLOGY OF GENDER

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Application of sociological theories, concepts and perspectives to an understanding of gender. Focuses on how individuals think and act as gendered beings and how gender becomes an organizing principle in social life. Topics include the social construction of gender, theories of gender socialization, femininities and masculinities, gendered interactions and doing gender, how race, class, nation and sexuality shapes gender, and gender inequality within social institutions, including politics, the economy, family, religion, education and health care.

FHGE: Social & Behavioral Sciences

Transferable: CSU/UC

SOC 30 SOCIAL PSYCHOLOGY

Degree & Credit Status: Degree-applicable credit course Advisory: College-level reading and writing ability; not open to students

with credit in PSYC 30. Grade Type: Letter Grade Only

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Survey of human behavior in relation to the social environment. Focus on human interaction and the shaping of diverse and commonly-shared attitudes, beliefs and worldviews by society, culture and social groups. Emphasis on how individuals are influenced behaviorally, emotionally, and cognitively. Topics include but not limited to the self, social cognition, aggression, interpersonal attraction, attitudes, social influence, prejudice and discrimination, gender, person perception, cultural norms, and conflict and peace-making.

FHGE: Social & Behavioral Sciences

Transferable: CSU/UC

SOC 40 ASPECTS OF MARRIAGE & 4 Units FAMILY

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Survey of empirical studies conducted by family sociologists from varied theoretical orientations. Focus on social influences affecting the American expressions of intimate life styles related to relationships, marriage and family systems. Exposure to the methods of social research. FHGE: Lifelong Understanding, Social & Behavioral Sciences Transferable: CSU/UC

SOC 45 SOCIOLOGY OF SEXUALITY 4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

This course provides an introduction to human sexuality through the lens of the sociological imagination, a core concept in sociology. Using key theoretical concepts from the discipline, the course traces the following: the social construction of sexuality; the socio-historical transformation of ideas about sex and sexuality as they relate to gender, race, disability, sexual practice, and sexual representation; social movements and activism in opposition to sexual inequalities; contemporary debates about social issues, such as reproductive justice and the commercialization of sex; and sexuality as mediated through major social institutions, such as the legal system, the economy, politics, the family, and religion. Students will critically analyze their own and others' attitudes toward sexuality with particular attention to the formation of sexual identities and ideologies within a societal and cross-cultural context.

Transferable: CSU/UC **FHGE: Social & Behavioral Sciences**

SOC 54H HONORS INSTITUTE SEMINAR 1 Unit IN SOCIOLOGY

Degree & Credit Status: Degree-applicable credit course Prerequisite: Honors Institute participant.

Advisory: Not open to students with credit in SOC 34 or 34H. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

FHGE: Non-GE Applicable

1 hour lecture. (12 hours total per quarter.)

A seminar in directed readings, discussions and projects in Sociology. Specific topics to be determined by the instructor.

Transferable: CSU

4 Units

4 Units

4 Units

SOC 70R	INDEPENDENT STUDY IN SOCIOLOGY	1 Unit
SOC 71R		2 Units
SOC 72R		3 Units
SOC 73R		4 Units
Degree & Credit	Status: Degree-applicable credit course	
Grade Type: Lett	er Grade or Pass/No Pass	

Not Repeatable.

3-12 hours laboratory per week. (36-144 hours total per quarter.)

Provides an opportunity for the student to expand their studies in Sociology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department. FHGE: Non-GE Applicable **Transferable: CSU**

SPANISH

Language Arts 650.949.7131 foothill.edu/spanish/

For information on clearing a foreign language prerequisite, please contact the Student & Faculty Support center at FHGetHelp@ fhda.edu.

SPAN 1 **ELEMENTARY SPANISH I** Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Development and practice of elementary speaking, listening, reading and writing skills in everyday language functions, with Spanish as the primary language of instruction. Language laboratory practice to reinforce pronunciation, grammar and syntax. Study of basic geographical, historical and cultural aspects of Spanish-speaking world areas. Transferable: CSU/UC

FHGE: Non-GE Applicable

SPAN 2 **ELEMENTARY SPANISH II**

Degree & Credit Status: Degree-applicable credit course Prerequisite: SPAN 1 or equivalent.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Further development and practice of elementary speaking, listening, reading and writing skills in everyday language function, with Spanish as the primary language of instruction. Language laboratory practice to reinforce pronunciation, grammar and syntax. Study of basic geographical, historical and cultural aspects of Spanish-speaking world areas.

FHGE: Non-GE Applicable Transferable: CSU/UC

ELEMENTARY SPANISH III SPAN 3

Degree & Credit Status: Degree-applicable credit course Prerequisite: SPAN 2 or equivalent. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Further development and practice of elementary speaking, listening, reading and writing skills in everyday language functions, with focus on greater structural accuracy and communicative competence, and with Spanish as the language of instruction. Language laboratory practice to reinforce pronunciation, grammar and syntax. Study of basic geographical, historical and cultural aspects of Spanish-speaking world areas.

FHGE: Non-GE Applicable Transferable: CSU/UC

SPAN 4 **INTERMEDIATE SPANISH I**

Degree & Credit Status: Degree-applicable credit course Prerequisite: SPAN 3 or equivalent. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Introduction to the reading and discussion of texts dealing with the literature, arts, geography, history and culture of the Spanish-speaking world. Review and further development of the grammatical structures of first-year Spanish with emphasis on building communicative competence and expanding vocabulary about familiar topics and idiomatic usage. Emphasis on present indicative and subjunctive. Writing and reading assignments based upon topics discussed in class.

FHGE: Humanities Transferable: CSU/UC

SPAN 5 INTERMEDIATE SPANISH II

Degree & Credit Status: Degree-applicable credit course

Prerequisite: SPAN 4 or equivalent. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Further expansion of the reading and discussion of texts dealing with the literature, arts, geography, history and culture of the Spanish-speaking world. Review and further development of the grammatical structures of first-year Spanish with emphasis on building communicative competence and expanding concrete vocabulary about new topics, and idiomatic usage. Emphasis on past tenses and past subjunctive. Writing and reading assignments based upon topics discussed in class.

FHGE: Humanities Transferable: CSU/UC

SPAN 6 INTERMEDIATE SPANISH III 5 Units

Degree & Credit Status: Degree-applicable credit course

Prerequisite: SPAN 5. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

5 Units

5 Units

5 Units

5 hours lecture. (60 hours total per quarter.)

Extensive reading and discussion of texts dealing with the literature, arts, geography, history and culture of the Spanish-speaking world, with emphasis on literature and art. Practice of advanced grammatical structures, and expansion of abstract vocabulary, and idiomatic usage. Writing and reading assignments based upon topics discussed in class. Transferable: CSU/UC FHGE: Humanities

INTERMEDIATE CONVERSATION I 4 Units SPAN 13A

Degree & Credit Status: Degree-applicable credit course Prerequisite: SPAN 3.

Advisory: May be taken concurrently with SPAN 4.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Review and development of oral and listening communication skills in the targeted functions studied in first-year Spanish with attention to fluency, vocabulary, idiom, and pronunciation. Emphasis on the difference between spoken and literary Spanish as well as the variation in language depending upon the topic, the setting, and the country. Discussion and analysis of cultural and historical issues based on authentic texts, current news broadcasts, and/or films.

FHGE: Humanities

Transferable: CSU/UC

SPAN 13B INTERMEDIATE CONVERSATION II 4 Units

Degree & Credit Status: Degree-applicable credit course

Prerequisite: SPAN 13A. Advisory: May be taken concurrently with SPAN 5. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Continuation of SPAN 13A. Review and development of oral and listening communication skills in the targeted functions studied in first-year Spanish with attention to fluency, vocabulary, idiom, and pronunciation. Emphasis on the difference between spoken and literary Spanish as well as the variation in language depending upon the topic, the setting, and the country. Discussion and analysis of cultural historical and political issues based on authentic texts, current news broadcasts, and/or films. Develop critical thinking skills by comparing different viewpoints and different values of diverse cultures.

FHGE: Humanities

Transferable: CSU/UC

ADVANCED CONVERSATION I SPAN 14A

Degree & Credit Status: Degree-applicable credit course Prerequisite: SPAN 13B.

Advisory: May be taken concurrently with SPAN 5. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per guarter.)

Continuation of SPAN 13B. Gives students practice in oral/aural communication skills in an environment of increasingly challenging language situations. Practice on idioms and vocabulary as different from the usage of formal, written and literary language. Work on differentiating and choosing the culturally appropriate register for a given situation. Discussion of the cultural manifestations and history of the Spanish-speaking world, including that of the Latino population of the U.S.

FHGE: Humanities Transferable: CSU/UC

SPAN 14B **ADVANCED CONVERSATION II** Degree & Credit Status: Degree-applicable credit course

Prerequisite: SPAN 14A. Advisory: May be taken concurrently with SPAN 6. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Continuation of SPAN 14A. Gives students practice in aural/oral communication skills in an environment of increasingly challenging language situations. Evaluation and response to real, current material: politics, literature, art, music, film. Critical analysis of the cultural manifestations and history of the Spanish-speaking world, including the Latino population of the U.S. Evaluation of the cultural values inherent in conversation. Integration of cultural competency into conversation skills: what's appropriate in a given culture (in terms of register, vocabulary and values) and in a given setting within that culture.

FHGE: Humanities

Transferable: CSU/UC

SPAN 25A

ADVANCED COMPOSITION

& READING I Degree & Credit Status: Degree-applicable credit course Prerequisite: SPAN 6.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Extensive reading and analysis of original Spanish literary and non-literary sources from Spanish speaking countries and the Hispanic communities in the United States such as newspapers, reports, films and music. Intensive discussion and writing based on these readings to promote a critical appreciation of Hispanic culture, society and history. Understanding of the use of advanced grammar in writing communication. Instruction in Spanish. FHGE: Non-GE Applicable Transferable: CSU/UC

SPAN 25B

4 Units

4 Units

4 Units

ADVANCED COMPOSITION & READING II

Degree & Credit Status: Degree-applicable credit course

Prerequisite: SPAN 25A. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Continuation of SPAN 25A. Extensive reading and analysis of texts with emphasis on literary works such as short stories, essays and poems. Critical analysis of the major political, historical and social issues exposed in these texts. Writing of extended term papers and compositions using advanced grammar. Understanding and appreciating the ambiguities, vagaries and value inherent in the target language. Instruction in Spanish. FHGE: Non-GE Applicable Transferable: CSU/UC

SPAN 51	SPANISH FOR HEALTH CARE	3 Units
	WORKERS	

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

An introduction to basic medical terminology in Spanish, including parts of the body, common ailments, taking a patient's medical history and understanding cultural differences related to health. Students gain basic conversational skills useful in a medical setting.

FHGE: Non-GE Applicable **Transferable: CSU**

SPAN 110 ELEMENTARY SPANISH 3 Units **CONVERSATION I** Degree & Credit Status: Degree-applicable credit course

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

Practice of spoken Spanish with an emphasis on developing oral and listening communication skills. Attention will be given to pronunciation, vocabulary and accurate use of basic grammar. FHGE: Non-GE Applicable **Transferable: None**

SPAN 111 ELEMENTARY SPANISH CONVERSATION II

Degree & Credit Status: Degree-applicable credit course

Prerequisite: SPAN 110. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture. (36 hours total per quarter.)

This is the second of a two-part course sequence. Continued practice of spoken Spanish with an emphasis on developing oral and listening communication skills. Attention will be given to pronunciation, vocabulary and accurate use of basic grammar.

FHGE: Non-GE Applicable Transferable: None

SPAN 192 TRAINING FOR SPANISH 1 Unit TUTORS Degree & Credit Status: Degree-applicable credit course

Prerequisite: SPAN 3 or equivalent. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Course for students who are being trained to offer Spanish language tutorial services.

FHGE: Non-GE Applicable

Transferable: None



Business and Social Sciences 650.949.7322 foothill.edu/bss/

SPED 1 INTRODUCTION TO DISABILITIES

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; when offered as an online course, the student should

be proficient with the use of a computer, Internet and email; not open to students with credit in SPED 61. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Overview of all major categories and characteristics of disabilities. Physical, sensory, developmental and learning disabilities discussed. Cultural/experiential aspects of disabilities from the perspectives of disabled individuals explored through readings and guest speakers. Contrasts disabled with non-disabled culture including cross-cultural perspectives of the disabled experience. Emphasis placed on recognition of strengths and abilities to provide strategies for instruction and accommodations.

FHGE: American Cultures & Communities, Lifelong Understanding Transferable: CSU/UC

SPED 2 PSYCHOLOGICAL ASPECTS OF 4 Units DISABILITY

Degree & Credit Status: Degree-applicable credit course

Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; familiarity with the internet & word processing; not open to students with credit in SPED 62.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Psychological aspects of disability, including psychosocial, cultural, and physical considerations of disability and illness. Examines the effects of illness and disability on the individual, family, and society as a whole. Focuses on the historical and current perspectives on illness and disability, the interventions and resources available, and future trends in the field. Discussions include a wide range of disabilities.

FHGE: Social & Behavioral Sciences Transferable: CSU/UC

SPED 8 INTRODUCTION TO COLLEGE 1 Unit & ACCOMMODATIONS

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in CNSL 5 or SPED 80. Grade Type: Pass/No Pass Only

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Orientation to college for the first time college student. Includes Foothill College academic policies, resources, campus, programs and services; transition concerns from high school to post-secondary for students requiring special classroom accommodations related to disabilities; California system of higher education; educational goals and program planning. This course satisfies the college orientation requirement for new students. FHGE: Non-GE Applicable Transferable: CSU/UC

THEATRE ARTS

4 Units

Fine Arts and Communication 650.949.7510 foothill.edu/theatre/

Foothill offers theatre arts activity courses in four different family categories. No single course may be repeated. Enrollment is limited to six courses per family within the Foothill-De Anza Community College District. Please refer to the De Anza College Catalog for the corresponding families and courses.

Acting Family: THTR 20A, 20B, 20C, 43C, 43E & 63A

Production-Performance Family: THTR 46A, 46B, 49A, 49B, 49C & 49D

Production-Technical Family: THTR 45A, 45B, 45C, 45D, 45E & 45F

Theatre Voice Family: MUS 47A or THTR 47A, MUS 47B or THTR 47B, MUS 47C or THTR 47C, MUS 47D or THTR 47D, THTR 48A, MUS 48B or THTR 48B & MUS 48C or THTR 48C

4 Units

THTR 1 INTRODUCTION TO THEATRE

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in DRAM 1. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Live performance in an electronic age - an overview of the status of live theatre, including its historical, cultural and spiritual roots. Focuses on the relationship of theatre to various cultures throughout history and on the contributions of significant individual artists. Introduces the elements of the production process, including play writing, acting, directing, design, and criticism. A survey of different periods, styles and genres of theatre through play reading, discussion, films and critiquing live theatre. Required attendance at live theatre performances.

FHGE: Humanities Transferable: CSU/UC

THTR 2A	HISTORY OF DRAMATIC	4 Units
	LITERATURE: CLASSICAL TO	
	MOLIERE	

Degree & Credit Status: Degree-applicable credit course

Prerequisite: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Advisory: Not open to students with credit in DRAM 2A or ENGL 42A. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

The study of the history of theatre from its origins in the East and West through the 17th century. The history and development of theatre and drama are studied through reading and analyzing representative masterpieces of dramatic literature from Aeschylus to Moliere in relationship to cultural, political and social conditions of the time.

FHGE: Humanities Transferable: CSU/UC

HISTORY OF DRAMATIC LITERATURE: MOLIERE TO MODERN

Degree & Credit Status: Degree-applicable credit course Prerequisite: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Advisory: Not open to students with credit in DRAM 2B or ENGL 42B. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

The study of the history of theatre from the Restoration through current trends. The history and development of theatre and drama are studied through reading and analyzing representative masterpieces of dramatic literature from the 17th Century to the present day in relationship to the cultural, political and social conditions of the time. Transferable: CSU/UC FHGE: Humanities

THTR 2F

HISTORY OF AMERICAN **MUSICAL THEATRE**

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in MUS 2F. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per guarter.)

An introductory survey of the history of the American musical theatre genre. Includes roots in British music halls, Viennese operetta and African American jazz through the golden age of the musical and up to the contemporary Broadway stage. Emphasis will be placed on genres and styles, as well as the key composers, lyricists, librettists, directors, producers, designers, choreographers and performers. Examines how the musical mirrors contemporary social and political events.

FHGE: Humanities

Transferable: CSU/UC

THTR 7

INTRODUCTION TO DIRECTING Degree & Credit Status: Degree-applicable credit course

Advisory: THTR 20A or equivalent beginning-level acting course; not open to students with credit in DRAM 7 or 52. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

The qualifications of the director; the choice of plays for production; auditions and methods of casting; preparation of the play script; building the rehearsal schedule; fundamentals of composition, movement, stage business and characterization, as applied to the directing of plays. FHGE: Non-GE Applicable Transferable: CSU/UC

THTR 8

MULTICULTURAL THEATRE **ARTS IN MODERN AMERICA**

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in DRAM 8. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

A comparative study of the important post-modern American theatre movements from the 1950s to the present day examining the specific cultural traditions of these performances. Focus will be on the performance artists and major influences of African Americans, Asian Americans, Native Americans, European Americans, and Chicano/Latino Americans and the cultural movements that inspired these performances.

FHGE: American Cultures & Communities, Humanities Transferable: CSU/UC

THTR 12A **STAGE & SCREEN**

4 Units

4 Units

4 Units

4 Units

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

An analysis of narrative and plot dissemination through an overview comparison between the popular media of live performance and film or video. Ranging from ancient civilizations to the contemporary, source material will be drawn from a broad perspective of culturally diverse works with a specific eye towards comparing the personal and audience impact, the advantages and disadvantages, inherent between the two media by analyzing the values and properties of both through shared works of origin. FHGE: Humanities Transferable: CSU/UC

THTR 20A **ACTING I**

4 Units

4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Acting family of activity courses; not open to students with credit in DRAM 20A. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

Introduction to the craft of acting, including theory and technique emphasizing body movement, voice production, articulation, characterization principles of motivation, scene analysis, cultural empathy through standard theatre games, exercises, monologues, scenes and the background research thereof.

FHGE: Non-GE Applicable Transferable: CSU/UC

ACTING II THTR 20B

Degree & Credit Status: Degree-applicable credit course

Prerequisite: THTR 20A.

Advisory: This course is included in the Acting family of activity courses; not open to students with credit in DRAM 20B.

Grade Type: Letter Grade Only

Not Repeatable.

4 hours lecture, 1 hour laboratory. (60 hours total per quarter.)

Further development of concepts introduced in THTR 20A, with emphasis to expanding the students' performance potential through probing greater depths of character analysis and text interpretation. Transferable: CSU/UC

FHGE: Non-GE Applicable

ACTING III 4 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: THTR 20A.

Advisory: THTR 20B or equivalent highly recommended; this course is included in the Acting family of activity courses; not open to students with credit in DRAM 20C.

Grade Type: Letter Grade Only

Not Repeatable.

THTR 20C

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Further development of concepts introduced in THTR 20A and 20B with focus on the performance of selected scenes from works of specific periods to acquaint students with the breadth of theatre performance genres. FHGE: Non-GE Applicable Transferable: CSU/UC

THTR 21A

SCENERY & PROPERTY CONSTRUCTION

4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in DRAM 21A. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

2 hours lecture, 6 hours laboratory. (96 hours total per quarter.) The theory and practice of creating and using scenery and properties for

dramatic presentations. Students will learn basic vocabulary, processes, tools and materials used in the production of scenery and properties for the stage. Practical application and safe use of basic woodworking tools used for creating scenery and properties for Theatre Arts productions. FHGE: Non-GE Applicable Transferable: CSU/UC

COURSE CATALOG 2020-2021

INTERMEDIATE SCENERY & PROPERTY CONSTRUCTION

Degree & Credit Status: Degree-applicable credit course Prerequisite: THTR 21A.

Advisory: Not open to students with credit in DRAM 21B. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

THTR 21C

THTR 21B

2 hours lecture, 6 hours laboratory. (96 hours total per quarter.)

Continuation of THTR 21A. The theory and practice of creating and using scenery and properties for dramatic presentations. Students will learn vocabulary, processes, tools and materials specific to areas of the production of scenery and properties for the stage. Practical application and safe use of advanced woodworking tools used for creating scenery and properties for Theatre Arts productions. Introduction of designing and working safely with alternative materials, basic electrical and lighting functions and sound reinforcement.

ADVANCED SCENERY &

FHGE: Non-GE Applicable

Transferable: CSU/UC

PROPERTIES CONSTRUCTION Degree & Credit Status: Degree-applicable credit course

Prerequisite: THTR 21B. Advisory: Not open to students with credit in DRAM 21C. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2 hours lecture, 6 hours laboratory. (96 hours total per quarter.)

Continuation of THTR 21B. Theory of and practice creating and using scenery and properties for department dramatic presentations. Safe use of tools, materials, and construction techniques used in the construction of scenery and properties for the stage. Introduction to the use of metal in the production of scenery and properties for the stage. Safe rigging concepts, tools and practices for the stage. Leadership experience in a collaborative theatre environment.

FHGE: Non-GE Applicable

Transferable: CSU/UC

THTR 25

THTR 25B

INTRODUCTION TO FASHION & COSTUME CONSTRUCTION

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in THTR 75. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.) An introduction to sewing techniques, pattern cutting, costume room equipment and the design and fabrication of clothing and costumes for the theatre and stage.

FHGE: Non-GE Applicable

FASHION & COSTUME

Transferable: CSU/UC

CONSTRUCTION II Degree & Credit Status: Degree-applicable credit course

Prerequisite: THTR 25. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable. 3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Continuation of THTR 25 with an exploration into more complex sewing techniques and machinery use. Further practice in the fabrication of clothing and costumes for the theatre, including pattern adjustment and measuring, basic pattern making, sewing knits, advanced fitting and alteration techniques and specialty machine usage.

FHGE: Non-GE Applicable

Transferable: CSU/UC

4 Units THTR 25C

FASHION & COSTUME CONSTRUCTION III

Degree & Credit Status: Degree-applicable credit course

Prerequisite: THTR 25B. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Continuation of THTR 25B with a practical focus on creating costumes from designs for a theatrical production. Further use and practice with complex sewing projects and patterning skills to include drafting and fitting a body block, then creating a pattern from it, basic draping techniques and advanced materials usage with specialty materials for complex theatrical headgear, wigs, and costumes. FHGE: Non-GE Applicable Transferable: CSU/UC

INTRODUCTION TO FASHION **THTR 26** 4 Units **HISTORY & COSTUME** DESIGN

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in DRAM 76 or THTR 76. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

A survey of western historic fashion and costume for women and men from ancient times to the present, including the cultural and political events that shaped each era and its clothing. An introduction to the design elements: color, line, form texture and silhouette and a brief introduction to the use of graphic techniques in the presentation of fashion and costume designs. Analysis of the artistic styles of each era as they relate to understanding costume detail and stylization.

Transferable: CSU/UC **FHGE: Humanities**

THTR 27

LIGHTING DESIGN & TECHNOLOGY

4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in THTR 77. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

A survey of lighting design for the theatre, film and television. An introduction to the basic elements of electrical wiring, lighting instruments, lighting control devices, and lighting special effects. Basic lighting design principles of color, intensity, direction and movement. Use of computer to design simple stage lighting plans.

FHGE: Non-GE Applicable

Transferable: CSU/UC

THTR 31 MANAGEMENT FOR THE 4 Units **THEATRE & STAGE** Degree & Credit Status: Degree-applicable credit course

Advisory: Not open to students with credit in DRAM 71, THTR 71 or 71X. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

An introduction to the process and techniques of theatre management. Presentations and models of the business and management side of a theatre production focusing specifically on the roles of the general manager, production manager, and stage manager.

FHGE: Non-GE Applicable

Transferable: CSU/UC



4 Units

4 Units

THTR 38D	STAGE CO	MBAT	2 Units
		-applicable credit course	2 01113
Advisory: Cours	e includes rigoro RAM 58 or THTF ter Grade Only	ous physical activity; not open	to students
1.5 hours lectur Introduction to and small weapo emphasis on saf	e, 1.5 hours labor the concepts and ons combat for st fety concepts and	ratory. (36 hours total per qua d practice of choreographed h age and camera using technic d universal industry maneuver	and-to-hand Jues with
FHGE: Non-GE	stage combat cire	cumstances. Transferable: CSU/U	IC
THGE. Non-GE			
THTR 40A		EATRICAL MAKEUP	4 Units
•	•	-applicable credit course with credit in DRAM 40A.	
•	ter Grade or Pas		
Not Repeatable			
		ory. (72 hours total per quarte	
	oduction to the te	echniques of applying theatric	al makeup for
the stage. FHGE: Non-GE	Applicable	Transferable: CSU/U	JC
THTR 40B		CAL MAKEUP FOR TION	4 Units
Degree & Credi Prerequisite: TH	•	-applicable credit course	
•	ter Grade or Pas	with credit in DRAM 40B. s/No Pass	
•		ory. (72 hours total per quarte	r.)
		0A with emphasis in more adv experience for the stage.	anced tech-
FHGE: Non-GE		Transferable: CSU/U	JC
THTR 42	INTRODU DESIGN	ICTION TO THEATRE	4 Units
Degree & Credi	t Status: Degree	-applicable credit course	
,	4A, THTR 21A or 42C or THTR 42	equivalent; not open to stude 2A.	nts with
Grade Type: Let Not Repeatable	ter Grade or Pas	s/No Pass	
2 harris la st	•	(72)	

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

A survey of the theory and practice of theatrical design using traditional and digital tools. Introduces basic concepts applicable to scenery, lighting, sound, costumes, makeup and properties. Coursework includes research and analysis, sketching and drafting, rendering and model making and the use of computer graphics software and equipment to create three-dimensional designs for the performing arts, film, and television. Introduction of equipment and construction techniques through demonstration and laboratory experience.

FHGE: Non-GE Applicable	Transferable: CSU/UC
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THTR 43A SCRIPT ANALYSIS

Degree & Credit Status: Degree-applicable credit course Advisory: THTR 20A. Grade Type: Letter Grade Only Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Presentation of the fundamental building blocks of understanding play scripts through an in-depth methodology of reading and analysis. Exploration of the foundational elements of Modern Realistic theatrical texts from study to analysis of text as intended for production. Groundwork provides the basis by which subsequent exploration of production possibilities, challenges and genres can be developed.

FHGE: Non-GE Applicable

Transferable: CSU/UC

ITR 43C

FOUNDATIONS IN CLASSICAL ACTING

gree & Credit Status: Degree-applicable credit course ereauisite: THTR 20A.

lvisory: This course is included in the Acting family of activity courses. ade Type: Letter Grade Only

ot Repeatable.

nours lecture, 3 hours laboratory. (72 hours total per quarter.)

roduction to the specific acting challenges presented by performing assical scripts, pre-18th century. Incorporate skills of language analysis, rbal acumen and physical interpretation, including exploration of body areness into performance preparation and execution as they specifically ate to performing classical texts.

IGE: Non-GE Applicable Transferable: CSU/UC

ITR 43E IMPROVISATION

4 Units

gree & Credit Status: Degree-applicable credit course lvisory: THTR 20A; this course is included in the Acting family of activity urses.

ade Type: Letter Grade Only

ot Repeatable.

nours lecture, 3 hours laboratory. (72 hours total per quarter.)

esentation of the fundamentals and graduating skills of organic perrmance without script or text. Practical application of the theories of provisational basic skills, universally translated to virtually all forms of provisation, towards performance. IGE: Non-GE Applicable Transferable: CSU/UC

ITR 45A **TECHNICAL THEATRE IN** 4 Units **PRODUCTION I**

gree & Credit Status: Degree-applicable credit course lvisory: Completion of or concurrent enrollment in THTR 21A; students ust meet with the instructor during the first week of the quarter to hedule hours and responsibilities; this course is included in the Producn-Technical family of activity courses; not open to students with credit THTR 99A.

ade Type: Letter Grade or Pass/No Pass ot Repeatable.

THTR 45B

our lecture, 9 hours laboratory. (120 hours total per quarter.) udents will gain practical experience in the application of production sponsibilities in any of the following: stage management, house manement, construction, scenery, properties, costume, lighting, sound, and running crews.

TECHNICAL THEATRE IN

FHGE: Non-GE Applicable

Transferable: CSU/UC

4 Units

PRODUCTION II Degree & Credit Status: Degree-applicable credit course Prerequisite: THTR 45A.

Advisory: Students must meet with the instructor during the first week of the guarter to arrange hours and assignments; this course is included in the Production-Technical family of activity courses; not open to students with credit in THTR 99B.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture, 9 hours laboratory. (120 hours total per quarter.)

Students will gain a practical experience in the application of production responsibilities in any of the following theatre technical areas: construction, scenery, properties, costume, lighting, sound, special effects and running crews, based on the students' level of experience and the demands of the current department productions. Students will assume greater responsibility for the planning and scheduling of work in their assigned area. FHGE: Non-GE Applicable Transferable: CSU/UC

THTR 45C TECHNICAL THEATRE IN PRODUCTION III

Degree & Credit Status: Degree-applicable credit course Prerequisite: THTR 45B.

Advisory: Students must meet with the instructor during the first week of the quarter to arrange hours and assignments; this course is included in the Production-Technical family of activity courses; not open to students with credit in THTR 99C.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture, 9 hours laboratory. (120 hours total per quarter.)

Continuation of THTR 45B. Students will gain additional practical experience in the application of production responsibilities in any of the following: construction, scenery, properties, costume, lighting, sound, and running crews. Students will assume greater responsibility for the design and implementation of technical elements for a theatrical production as department heads or group leaders.

FHGE: Non-GE Applicable Transferable: CSU/UC

THTR 45D TECHNICAL THEATRE IN 2 Units PRODUCTION IV

Degree & Credit Status: Degree-applicable credit course

Advisory: Completion of or concurrent enrollment in THTR 21A; students must meet with the instructor during the first week of the quarter to arrange hours and assignments; hours are typically during evenings and on weekends during the 6th-10th weeks of the quarter; this course is included in the Production-Technical family of activity courses; not open to students with credit in THTR 99D.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

6 hours laboratory. (72 hours total per quarter.)

Students will gain practical experience backstage functions of theatre crews. Students will work backstage during the final rehearsals and performances for the department production.

FHGE: Non-GE Applicable

Transferable: CSU/UC

6 Units

THTR 45E

TECHNICAL THEATRE MANAGEMENT IN PRODUCTION

Degree & Credit Status: Degree-applicable credit course

Advisory: Completion of or concurrent enrollment in THTR 21A and 45A; lab hours will occur on specific evenings and weekends during the quarter; required meeting with instructor during first week of quarter to assign responsibilities and hours per production schedule; this course is included in the Production-Technical family of activity courses; not open to students with credit in THTR 99E.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2 hours lecture, 12 hours laboratory. (168 hours total per quarter.)

Students will gain practical experience in the application of production management responsibilities in any of the following: stage management, house management, production management, or technical department management.

FHGE: Non-GE Applicable

Transferable: CSU/UC

4 Units

TECHNICAL THEATRE MANAGEMENT IN PRODUCTION II

Degree & Credit Status: Degree-applicable credit course Prerequisite: THTR 45E.

Advisory: This course is included in the Production-Technical family of activity courses; not open to students with credit in THTR 99F. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

2 hours lecture, 12 hours laboratory. (168 hours total per quarter.)

Students will gain practical experience in the application of theatre management responsibilities in any of the following: stage management, house management, production management, or technical department management. Students will be expected to assume responsibility for assembling and organizing the work of several groups or departments in the successful creation of a large theatrical production.

FHGE: Non-GE Applicable Transferable: CSU/UC

THTR 46A THEATRE DEVELOPMENT 2 Units WORKSHOP I

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Production-Performance family of activity courses; not open to students with credit in THTR 50. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture, 3 hours laboratory. (48 hours total per quarter.)

This course teaches the full development of an organic, original production from inception to performance. Under the guidance and supervision of the instructor who initiates the process, students will all contribute to produce a full-length production consisting of several student-generated short plays. Beginning students will focus as actors and production support as needed. The quarter culminates with several public performances. FHGE: Non-GE Applicable Transferable: CSU/UC

THTR 46B	THEATRE DEVELOPMENT	2 Units
	WORKSHOP II	
Dearee & Credit	Status: Degree-applicable credit course	

Advisory: This course is included in the Production-Performance family of activity courses; not open to students with credit in THTR 50B. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture, 3 hours laboratory. (48 hours total per quarter.)

Delves into the full development of an organic, original production from inception to performance. Students will produce a full-length production consisting of several student-generated short plays. Focus on writing skills and creative contributions to the shows content. Student responsibilities may extend to additional areas of acting and production support. The quarter culminates with several public performances.

FHGE: Non-GE Applicable Transferable: CSU/UC

THTR 46C THEATRE DEVELOPMENT 2 Units WORKSHOP III Degree & Credit Status: Degree-applicable credit course

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture, 3 hours laboratory. (48 hours total per quarter.)

Delves into the full development of an organic, original production from inception to performance. Students will produce a full-length production consisting of several student-generated short plays. Focus on design, directing and production coordination of all artistic elements of the show. Student responsibilities may extend to additional areas of acting and other production support. The quarter culminates with several public performances.

FHGE: Non-GE Applicable

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Transferable: CSU/UC

THTR 46D

THEATRE DEVELOPMENT WORKSHOP IV

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

1 hour lecture, 3 hours laboratory. (48 hours total per guarter.)

Presentation of the necessary leadership and organizational skills for the full development of an organic, original production from inception to performance. Advanced students will be charged to produce a full-length production consisting of several student-generated short plays. Student responsibilities will extend to the areas of group coordination and organization in writing, acting, directing, lighting design, costume design, scenery and properties design, sound design, stage management and technical responsibilities, make-up design and publicity. The quarter culminates with several public performances.

FHGE: Non-GE Applicable

Transferable: CSU/UC

INTRODUCTION TO MUSICAL 6 Units THTR 47A THEATRE PRODUCTION

Degree & Credit Status: Degree-applicable credit course Advisory: Enrollment subject to audition and instructor assignment; this course is included in the Theatre Voice family of activity courses; not open to students with credit in MUS 47A or THTR 47. Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

18 hours laboratory. (216 hours total per quarter.)

This course will introduce the fundamentals of musical theatre performance through the rehearsal and performance of a fully staged musical theatre production. Students are required to attend rehearsals and performances. FHGE: Non-GE Applicable Transferable: CSU/UC

THTR 47B

INTERMEDIATE MUSIC 6 Units THEATRE PRODUCTION WORKSHOP

Degree & Credit Status: Degree-applicable credit course Advisory: Enrollment subject to audition and instructor assignment; this course is included in the Theatre Voice family of activity courses; not open to students with credit in MUS 47B or THTR 47X. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

18 hours laboratory. (216 hours total per quarter.)

This course will develop technical skills required at the intermediate level of musical theatre performance through the rehearsal and performance of a fully staged musical theatre production. Students are required to attend rehearsals and performances.

FHGE: Non-GE Applicable

Transferable: CSU/UC

THTR 47C

ADVANCED MUSIC THEATRE **PRODUCTION WORKSHOP**

Degree & Credit Status: Degree-applicable credit course Prerequisite: MUS 47B or THTR 47B.

Advisory: Enrollment subject to audition and instructor assignment; this course is included in the Theatre Voice family of activity courses; not open to students with credit in MUS 47C.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

18 hours laboratory. (216 hours total per quarter.)

Assists the student to develop technical skills required at the advanced level of musical theatre performance through the rehearsal and performance of a fully staged musical theatre production. Transferable: CSU/UC

FHGE: Non-GE Applicable

THTR 47D

2 Units

ADVANCED MUSIC THEATRE **PRODUCTION WORKSHOP II** Degree & Credit Status: Degree-applicable credit course

Prerequisite: MUS 47C or THTR 47C.

Advisory: Enrollment subject to audition and instructor assignment; this course is included in the Theatre Voice family of activity courses; not open to students with credit in MUS 47D.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

18 hours laboratory. (216 hours total per guarter.)

This course will assist the student to develop technical skills required at the advanced level of musical theatre in the areas of stage direction or choreography through the rehearsal and performance of a fully staged musical theatre production.

FHGE: Non-GE Applicable

Transferable: CSU/UC

VOCAL PRODUCTION & SPEECH 4 Units **THTR 48A**

Degree & Credit Status: Degree-applicable credit course Advisory: This course is included in the Theatre Voice family of activity courses.

Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

An introduction to the fundamentals of vocal production and the application of those principles to speech for performance intent. Topics will include the basics of physiology of sound production, breath support, use of natural resonators, warm-up techniques, diction and text communication, dialect recognitions and employment. These fundamental techniques will be applied to a broad cultural landscape of dramatic literature at basic levels. FHGE: Non-GE Applicable Transferable: CSU/UC

THTR 48B	SINGING TECHN MUSICAL THEAT	4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: MUS 13A, 13B and 13C; this course is included in the Theatre Voice family of activity courses; not open to students with credit in MUS 48B.

Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Practical introduction to the fundamentals of singing for musical theatre repertoire. Students will explore the principals of healthy vocal production in solo and/or ensemble singing to develop the singing voice through exercises and repertoire from the Standard American Musical Theatre. Songs will be developed with strong emphasis on character development and communication.

FHGE: Non-GE Applicable

Transferable: CSU/UC

THTR 48C

6 Units

MUSICAL THEATRE **REPERTOIRE FOR SINGERS**

4 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: MUS 48B or THTR 48B.

Advisory: MUS 13C; this course is included in the Theatre Voice family of activity courses; not open to students with credit in MUS 48C. Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Vocal techniques and styles as utilized in musical theater. Instruction includes development of singing skills, basic body movement, acting technique, interpretation of Broadway song literature in a staged performance. Students are required to prepare a final project excerpted from a standard works. Attendance at all scheduled performances is required. FHGE: Non-GE Applicable Transferable: CSU/UC

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THTR 48G

INTRODUCTION TO **VOICE-OVER ACTING**

4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: THTR 20A.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Introduction to voice-over acting, providing an overview of required skills, general industry knowledge, and career opportunities. Instruction and practice in techniques of the various genres and performance styles, including character (animation, video games, toys), commercial (radio, TV, online), and narration (audio books, documentaries, corporate training videos, e-learning, websites). Fundamental components also include microphone technique, home studio setup, auditioning and marketing. FHGE: Non-GE Applicable Transferable: CSU/UC

THTR 49A PERFORMANCE PRODUCTION I 6 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Enrollment subject to audition and instructor assignment; this course is included in the Production-Performance family of activity courses; not open to students with credit in THTR 49.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture, 15 hours laboratory. (192 hours total per quarter.)

Supervised participation as a performer in scheduled non-musical productions of the Theatre Arts Department with a designated emphasis towards confidence in performing, as well as integrative familiarity in the full process of mounting a production for public performance. Culminates in a fully staged theatrical production.

FHGE: Non-GE Applicable

Transferable: CSU/UC

THTR 49B PERFORMANCE PRODUCTION II 6 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Enrollment subject to audition and instructor assignment; this

course is included in the Production-Performance family of activity courses; not open to students with credit in THTR 49X. Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture, 15 hours laboratory. (192 hours total per quarter.)

Supervised performance participation in scheduled productions of the Theatre Arts Department with a specific target towards text interpretation and commitment to characterization through live public performance. Culminates in a fully staged theatrical production.

FHGE: Non-GE Applicable Transferable: CSU/UC

PERFORMANCE PRODUCTION III THTR 49C 6 Units

Degree & Credit Status: Degree-applicable credit course

Advisory: Enrollment subject to audition and instructor assignment; this course is included in the Production-Performance family of activity courses; not open to students with credit in THTR 49Y.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture, 15 hours laboratory. (192 hours total per quarter.)

Supervised participation as a performer in scheduled non-musical productions of the Theatre Arts Department with a designated emphasis towards advanced vocal acumen and heightened physical embodiment through live public performance. Culminates in a fully staged theatrical production. FHGE: Non-GE Applicable Transferable: CSU/UC

THTR 49D PERFORMANCE PRODUCTION IV 6 Units

Degree & Credit Status: Degree-applicable credit course Advisory: Enrollment subject to audition and instructor assignment; this course is included in the Production-Performance family of activity courses.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

1 hour lecture, 15 hours laboratory. (192 hours total per quarter.)

Supervised performance participation in scheduled productions of the Theatre Arts Department with specific inclusion through a rehearsal into live public performance context of augmented, nuanced acting skill premises and enhanced script interpretation of cultural and socio-economic circumstances. Culminates in a fully staged theatrical production. FHGE: Non-GE Applicable Transferable: CSU/UC

THTR 57 ACTOR MARKETING STRATEGIES 4 Units

Degree & Credit Status: Degree-applicable credit course Advisory: THTR 20A; not open to students with credit in THTR 43G. Grade Type: Letter Grade Only

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Developing effective marketing strategies for a career in theatre. The actor's process in preparation for theatrical auditions, selection of appropriate audition performance pieces for the presentation of self in various audition settings, and the development of industry standard self-promotion materials.

FHGE: Non-GE Applicable Transferable: CSU

THTR 63A **FILM & TELEVISION** 4 Units **ACTING WORKSHOP**

Degree & Credit Status: Degree-applicable credit course

Advisory: THTR 20A; this course is included in the Acting family of activity courses.

Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Application of concepts developed in the stage acting classes with the necessary adaptations required for film and television auditioning and performance. Work with the variety of styles currently used in film and television, including commercial, dramatic, documentary and industrial. Class time will be divided between lecture, workshops and on-camera performance time to learn and experiment with the subject matter.

FHGE: Non-GE Applicable Transferable: CSU

THTR 70R	INDEPENDENT STUDY IN THEATRE ARTS	1 Unit
THTR 71R		2 Units
THTR 72R		3 Units
THTR 73R		4 Units
Degree & Credit St	atus: Degree-applicable credit course	
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Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

3-12 hours laboratory per week. (36-144 hours total per quarter.)

Provides an opportunity for the student to expand their studies in Theatre Arts beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department. FHGE: Non-GE Applicable **Transferable: CSU**

VETERINARY TECHNOLOGY

Biological and Health Sciences 650.949.7538 foothill.edu/vettech/

INTRODUCTION TO V T 51 VETERINARY TECHNOLOGY

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in APAV 51. Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Introduction to the profession of veterinary technology. Orientation to the program requirements and curriculum. Overview of program structure and student services. Review and practice of library skills. Prerequisite course for several courses in veterinary technology program. Survey of the role of the veterinary assistant and registered veterinary technician in the workplace. Survey of employment opportunities and areas of specialization. Ethics and professionalism. Laws and regulations governing veterinary technicians. Introduction to basic animal care skills and clinical procedures. FHGE: Non-GE Applicable **Transferable: CSU**

V T 51A

FRESHMAN SEMINAR

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Provides enrichment of the core curriculum of the Veterinary Technology Program. Students will develop or improve study skills, time management, professionalism, communication, and conflict resolution. Lectures, discussion, and workshop format. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

V T 51B

CURRENT TOPICS IN

1 Unit

1 Unit

2 Units

VETERINARY TECHNOLOGY II Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in V T 50B. Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture. This is a 6 week course. (12 hours total per quarter.) Provides enrichment of the core curriculum of the Veterinary Technology Program. Presenters will include veterinarians, veterinary specialists, veterinary technicians, animal care management professionals, and educators. Lectures, lecture-demonstrations, multimedia presentations, and live demonstrations, by professionals in veterinary medicine. Content consists of relevant topics related to concurrent coursework. Presenters or topics are in a specialty that will help to introduce or develop interest in that specialty. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

V T 51C

SERVICE LEARNING & 1 Unit LEADERSHIP FOR VETERINARY

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

NURSES

Not Repeatable.

1 hour lecture. (12 hours total per quarter.)

Provides enrichment of the core curriculum of the Veterinary Technology Program. Students will participate in a service learning activity of their choosing within the veterinary field. Students will have lectures on service learning activities and opportunities. Students will explore different ways of being leaders, in preparation for success in a professional environment. Students will reflect over their school year and create summer study guides to increase student success. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

V T 51D SENIOR SEMINAR

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

1 hour lecture. (12 hours total per guarter.)

Provides enrichment of the core curriculum of the Veterinary Technology Program. Students will focus on senior year time management. They will reflect on the summer study guides and continue to identify best practices for studying. They will participate in weekly instructor guided study sessions covering their core curriculum courses this guarter. They will also develop study techniques that will assist them in being successful in future quarters. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable **Transferable: CSU**

1 Unit

1 Unit

5 Units

CURRENT TOPICS IN VETERINARY TECHNOLOGY V Degree & Credit Status: Degree-applicable credit course

Advisory: Not open to students with credit in V T 50E. Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture. This is a 6 week course. (12 hours total per quarter.)

Provides enrichment of the core curriculum of the Veterinary Technology Program. Presenters will include veterinarians, veterinary specialists, veterinary technicians, animal care management professionals, and educators. Lectures, lecture-demonstrations, multimedia presentations, and live demonstrations, by professionals in veterinary medicine. Content consists of relevant topics related to concurrent coursework. Presenters or topics are in a specialty that will help to introduce or develop interest in that specialty. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program. **Transferable: CSU** FHGE: Non-GE Applicable

V T 51F CAREER EXPLORATION FOR VETERINARY NURSES

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

Not Repeatable.

V T 51E

1 hour lecture. (12 hours total per quarter.)

Provides enrichment of the core curriculum of the Veterinary Technology Program. Content consists of relevant topics related to concurrent coursework. Lectures, lecture-demonstrations, multimedia presentations, live demonstrations, or hands-on workshops presented on a weekly basis. Students will identify the path that their career will take them and will research what avenues they should take to get there. Students will also work in group settings to further strengthen their interpersonal communication skills. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable **Transferable: CSU**

VETERINARY ASSISTING I V T 52A Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only

Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

First in a two-course series in the theory and practice of veterinary assisting focusing on the knowledge, skills, and attitudes required for competent support to the veterinarian (DVM) and to the registered veterinary technician (RVT). Emphasis is on the practical aspects of front office management, working as part of the veterinary health care team. Entirely online and may be taken as a stand-alone class or may be combined with V T 52B and VT 88A to earn the Certificate of Achievement in Veterinary Assisting. FHGE: Non-GE Applicable Transferable: CSU

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V T 52B

VETERINARY ASSISTING II

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

5 hours lecture. (60 hours total per quarter.)

Second in a two-course series in the theory and practice of veterinary assisting focusing on the knowledge, skills, and attitudes required for competent paraprofessional support to the veterinarian (DVM) and to the registered veterinary technician (RVT). Prepare for an exciting career as a veterinary assistant by learning the essential knowledge and hands-on skills. Emphasis is on the practical aspects of front office management, working as part of the veterinary health care team, basic animal care, and fundamentals of patient management under direct supervision. Entirely online and may be taken as a stand-alone class or combined with V T 52A and V T 88A to earn the Certificate of Achievement in Veterinary Assisting. FHGE: Non-GE Applicable **Transferable: CSU**

V T 53A VETERINARY MEDICAL 2 Units TERMINOLOGY

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in APAV 53A. Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

A guided self-study of veterinary medical terminology as a fundamental communication skill. Basic word parts and rules of word construction. A review of common medical terms pertaining to the different body systems, with emphasis on those terms relevant for veterinary medicine. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

MEDICAL CALCULATIONS FOR 2 Units V T 53B **VETERINARY NURSES**

Degree & Credit Status: Degree-applicable credit course Advisory: Not open to students with credit in APAV 53B. Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Applied mathematics as a fundamental communication and technical skill. Review of calculations involving fractions, decimals, ratios and proportions, unit conversions, and algebraic equations. Clinical medical calculations utilized in preparation and administration of drugs, dosage determinations, intravenous fluid infusion, and prescription dispensing. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

V T 53C INTRODUCTION TO LARGE 2 Units ANIMAL NURSING Degree & Credit Status: Degree-applicable credit course Prerequisite: V T 54A.

Grade Type: Letter Grade Only

Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Introduction to principles of husbandry and veterinary nursing care of common domestic large animal species. The economics of production medicine will be stressed. Breed identification. Common diseases as relate to husbandry. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program. **Transferable: CSU**

FHGE: Non-GE Applicable

COMPARATIVE VETERINARY ANATOMY & PHYSIOLOGY FOR THE VETERINARY **TECHNICIAN**

Degree & Credit Status: Degree-applicable credit course Prerequisite: CHEM 30A or equivalent. Advisory: Not open to students with credit in APAV 54A.

Grade Type: Letter Grade Only Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.) Comparative veterinary anatomy and physiology for veterinary technicians. Clinically relevant veterinary anatomy and physiology, including a discussion of the similarities and differences among the major domestic species. Emphasis is placed on the normal structure and function of the major organ systems as the foundation for understanding pathology and the pathophysiology of disease. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

V T 54B **COMPARATIVE VETERINARY** 5 Units ANATOMY & PHYSIOLOGY FOR THE VETERINARY **TECHNICIAN**

Degree & Credit Status: Degree-applicable credit course Prerequisite: V T 54A. Advisory: Not open to students with credit in APAV 54B.

Grade Type: Letter Grade Only Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per quarter.)

Comparative anatomy and physiology for veterinary technicians. Clinically relevant anatomy and physiology of the major domestic animals and birds, and includes a discussion of the similarities and differences among the species. Emphasis is placed on the normal structure and function of the major organ systems as the foundation for understanding pathology and pathophysiology of disease. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable Transferable: CSU

V T 55 SMALL ANIMAL NURSING I 4 Units

Degree & Credit Status: Degree-applicable credit course Prerequisite: BIOL 41.

Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Intended for the pre-clinical training of veterinary technology students. The following topics are covered: occupational health and safety, animal handling and restraint, administration of medication, venipuncture and physical exams. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

SMALL ANIMAL NURSING II

4 Units

V T 56 Degree & Credit Status: Degree-applicable credit course

Prerequisite: V T 55. Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Pre-clinical training of veterinary technology students in diagnostic and nursing skills. Nursing skills will include wound care and bandaging, fluid therapy principles and practice, aseptic technique. Diagnostic skills will include those common in small animal practice: blood pressure and cardiac monitoring, ophthalmic and dermatologic assessments. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

V T 57L

ADVANCED SMALL ANIMAL NURSING

Degree & Credit Status: Degree-applicable credit course Prerequisite: V T 56. Grade Type: Letter Grade Only Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Practical application of animal care skills and principles of animal care and management, integrating advanced techniques and knowledge gained through classroom instruction. Opportunity to participate in the health care team in a supervisory role with increased organizational responsibility. Emphasis on nursing care and diagnostic nursing for acute and chronic conditions. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

V T 58L SURGICAL ASSISTING FOR THE VETERINARY NURSE

Degree & Credit Status: Degree-applicable credit course Prerequisite: V T 57L. Grade Type: Letter Grade Only

Not Repeatable.

3 hours laboratory. (36 hours total per quarter.)

Practical application of animal care skills and principles of animal care and management. Opportunity to participate in the health care team involved in the care, management and husbandry of program livestock, companion animals and laboratory animals. Students will also be given an introduction to anesthetic equipment, principles of aseptic technique, sanitation, disinfection and sterilization, introduction to principles of surgical nursing, basic operating room skills and instrumentation. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

V T 60

Transferable: CSU

PRACTICE Degree & Credit Status: Degree-applicable credit course Prerequisite: V T 53A.

VETERINARY OFFICE

Advisory: Not open to students with credit in APAV 60. Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Principles and practice of veterinary office management for veterinary technology students. Client relations, receptionist skills, telephone techniques, interpersonal skills, and personnel management. Generation and maintenance of correspondence, medical records, legal forms, and hospital logs. Basic bookkeeping, accounting, and financial management principles. Marketing and public relations. Professional ethics and professionalism. Use of computers for data entry, patient record management and inventory control. Use of practice management software. State and federal laws as they apply to the veterinary practice. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

V T 61 ANIMAL DISEASES

Degree & Credit Status: Degree-applicable credit course Prerequisite: BIOL 41. Grade Type: Letter Grade Only

Not Repeatable.

6 hours lecture. (72 hours total per quarter.)

Advanced study of the common diseases of domestic animals with emphasis on the dog and cat. Practical medical microbiology, clinical immunology, and mechanisms of disease; the host-parasite relationship and adaptive and maladaptive responses of the host. Etiology, pathogenesis, clinical signs and clinical nursing management of selected immunological, viral, bacterial, fungal, and parasitic diseases. Etiology, pathogenesis, clinical signs and clinical management of selected developmental, degenerative, nutritional, metabolic, endocrine, immune-mediated, and neoplastic diseases. Principles of vaccination, disease prevention, public health, client education, and zoonosis. Diagnostic techniques, including gross and microscopic identification of common veterinary pathogens. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

2 Units

EXOTIC ANIMAL CARE Degree & Credit Status: Degree-applicable credit course Prerequisite: V T 54B.

Advisory: One of the following: ENGL 1A, 1AH, or 1S & 1T or equivalent. Grade Type: Letter Grade Only

Not Repeatable.

V T 66

V T 70

2 hours lecture. (24 hours total per quarter.)

Basic understanding of the care, husbandry, clinical procedures, and medical concerns of rabbits, ferrets, guinea pigs, chinchillas, small rodents, birds, snakes, lizards, turtles. Emphasis on clinically relevant materials and activities. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

FUNDAMENTALS OF

VETERINARY DIAGNOSTIC IMAGING

4 Units

Degree & Credit Status: Degree-applicable credit course

Prerequisite: V T 54B.

Grade Type: Letter Grade Only

Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.)

Introduction to the principles of veterinary radiography and ultrasonography for veterinary technician students, including radiographic and ultrasonographic terminology. Physics of X-ray and ultrasound production and interaction with matter. Explanation of MRI, CT, and nuclear medicine appropriate to the veterinary technician. Occupational safety and radiation protection. Proper use and maintenance of standard and digital x-ray equipment. Radiographic exposure factors, technique chart development and usage, and patient positioning required for production of diagnostic radiographs. Processing of radiographic film. Discussion of equipment, materials and special radiographic studies common in veterinary practice. Radiographic exposure troubleshooting and common artifacts. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

1 Unit

2 Units

1 Unit

V T 70R	INDEPENDENT STUDY IN VETERINARY TECHNOLOGY	1 Unit
V T 71R		2 Units
V T 72R		3 Units
V T 73R		4 Units

Degree & Credit Status: Degree-applicable credit course

Advisory: Student should have completed at least one quarter of the Veterinary Technology program, or V T 52A and 52B online, and have the permission of the faculty instructor.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

3-12 hours laboratory per week. (36-144 hours total per quarter.)

Provides an opportunity for the student to expand their studies in Veterinary Assisting or Veterinary Technology beyond the classroom by working in a clinical setting to achieve specific goals agreed upon by the student, Foothill faculty, and internship supervisor. The student is required to contract with the Foothill faculty to determine the scope of assignment. This course offers the student credit for 3 hours of work in a veterinary practice setting, under supervision of a veterinarian or RVT. Students may take a maximum of 6 units of Independent Study per department. **Transferable: CSU**

FHGE: Non-GE Applicable

V T 72 PRINCIPLES OF VETERINARY 2.5 Units DENTISTRY

Degree & Credit Status: Degree-applicable credit course

Prerequisite: V T 70.

Grade Type: Letter Grade Only

Not Repeatable.

2 hours lecture, 2 hours laboratory. (48 hours total per quarter.)

Basic principles of veterinary dentistry for the veterinary technology student. Includes dental anatomy, physiology, pathophysiology, charting and instrumentation. Techniques of routine dental prophylaxis and aspects of anesthesia specific to dental patients. Discussion of periodontal disease, modes of therapy, client education and preventive care. Introduction to common dental disorders, simple extractions, and dental radiography. Course includes hands-on laboratory sessions using veterinary dental equipment, models, and live animal patients. Care and use of common instruments and equipment. Comparative dentistry: dental formulas and clinical applications of dental disease in a variety of domestic and wild animals. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

V T 75A

ANIMAL CARE SKILLS I Degree & Credit Status: Degree-applicable credit course

Prerequisite: V T 51.

Advisory: Not open to students with credit in APAV 75A. Grade Type: Letter Grade Only

Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Practical application of animal care skills and principles of animal care and management. Opportunity to participate in the health care team involved in the care, management and husbandry of program animals. Emphasis will be on the basic principles and application of clinical facility management, care of resident teaching animals, and routine maintenance duties. Topics critical to success will be discussed in lecture: dog and cat behavior, low stress handling, medical records and professionalism. Discussion of euthanasia. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

V T 75B ANIMAL CARE SKILLS II

Degree & Credit Status: Degree-applicable credit course Prerequisite: V T 75A.

Advisory: Not open to students with credit in APAV 75B (completed prior to the 2020-21 catalog year).

Grade Type: Letter Grade Only

Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Second in a series of animal care skills topics. Practical application of animal care skills and principles of animal care and management using techniques and knowledge learned in the veterinary technology courses. Students apply knowledge of medical terminology, anatomy and physiology to animal care duties. Students will create nutrition and preventive health care plans for program animals and learn how to assess pain in domestic animals. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable

Transferable: CSU

V T 75C	LARGE ANIMAL SKILLS	1 Unit
	LABORATORY	

Degree & Credit Status: Degree-applicable credit course

Prerequisite: V T 75B.

Grade Type: Letter Grade Only

Not Repeatable. 3 hours laboratory. (36 hours total per guarter.)

Third in a series of courses on animal care and handling. Focus on large animal species evaluation and nursing care. Physical examination, common procedures, and specialized equipment. Restraint, behavior, and handling of large domestic animals. Opportunity to perform skills on live animals during field trips and on campus. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable Transferable: CSU

V T 81 CLINICAL PATHOLOGY 5 Units METHODS Degree & Credit Status: Degree-applicable credit course

Prerequisite: BIOL 41. Grade Type: Letter Grade Only

Not Repeatable.

4 hours lecture, 3 hours laboratory. (84 hours total per guarter.)

Fundamental studies of laboratory techniques and procedures involved in evaluating veterinary clinical samples. Areas of study include hematology, urinalysis, coagulation assessment, blood biochemistry and immunological testing, serology, clinical parasitology, and cytology. The veterinary technician's role in sample collection, sample storage and handling, and performance of analytic procedures will be emphasized. Skills are developed in the use of laboratory equipment, laboratory safety and management, and quality control and quality assurance. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

4 Units

V T 83

PHARMACOLOGY FOR **VETERINARY NURSES**

Degree & Credit Status: Degree-applicable credit course

Prerequisite: V T 54B.

Grade Type: Letter Grade Only Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Introduction to the basic principles of veterinary pharmacology. Preparation and dispensing of medications. Overview of the actions and interactions of the major classes of drugs, with emphasis on common veterinary uses of specific drugs. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

V T 84

TECHNICIANS Degree & Credit Status: Degree-applicable credit course

Prerequisite: V T 83; students may also satisfy the prerequisite with at least three years of experience in a veterinary clinic or laboratory animal setting, and/or a RVT or LAT or higher.

ANESTHESIOLOGY FOR

Grade Type: Letter Grade Only Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Principles and practice of veterinary anesthesia for the veterinary technician. Anatomy and physiology of the respiratory, cardiovascular, and nervous systems relevant to anesthesia. Pharmacology, indications, contraindications and adverse effects of common pre-anesthetic and anesthetic agents. The veterinary technician's role in patient assessment, preparation, induction, monitoring, maintenance, and recovery of anesthesia. Sedation, analgesia, general anesthesia, and local anesthesia techniques will be discussed. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program, or by special permission of the instructor.

FHGE: Non-GE Applicable

Transferable: CSU

VETERINARY ANESTHESIA V T 84L LABORATORY

Degree & Credit Status: Degree-applicable credit course Prerequisites: V T 58L; discussion and demonstration of ability to set up an

anesthesia machine. Corequisite: Completion of or concurrent enrollment in VT 84. Grade Type: Letter Grade Only

Not Repeatable.

6 hours laboratory. (72 hours total per quarter.)

The veterinary technician's role in patient assessment, preparation, induction, monitoring, maintenance, and recovery of anesthesia. Sedation, analgesia, general anesthesia, and local anesthesia techniques will be practiced and/or demonstrated. Practical applications of pharmacology, including indications, contraindications and effects of common pre-anesthetic and anesthetic agents. Skills pertaining to anesthesia will be practiced. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

V T 85 **VETERINARY EMERGENCY** 4 Units & CRITICAL CARE

Degree & Credit Status: Degree-applicable credit course Prerequisite: V T 83.

Grade Type: Letter Grade Only Not Repeatable.

3 hours lecture, 3 hours laboratory. (72 hours total per quarter.) Theoretical and practical aspects of assisting the veterinarian in the management of medical and traumatic emergencies. Recognition and assessment of cardiovascular shock, respiratory crisis, gastrointestinal emergency, and musculoskeletal trauma. Principles and techniques of fluid therapy and administration of emergency drugs. Application of treatment protocols for shock, cardiopulmonary arrest, gastrointestinal crisis, wounds and fractures, toxicoses, and dystocia. Nutrition of critical care patients. Maintenance of emergency medical equipment and supplies. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

V T 86

LABORATORY ANIMAL NURSING

Degree & Credit Status: Degree-applicable credit course Prerequisite: V T 55.

Grade Type: Letter Grade Only

Not Repeatable.

4 Units

2 Units

4 hours lecture. (48 hours total per quarter.)

Study of the husbandry, management, and nursing care of rabbits and rodents kept as both research and companion animals. Orientation to the humane and ethical use of animals in research. Discussion of the veterinary technician as an animal advocate and nurse in a biomedical research animal facility. Regulations affecting the use of animals in research are discussed. Proper methods of restraint and handling; husbandry and housing; feeding and nutrition; medical and surgical nursing techniques for the common species of laboratory animals. Introduction to diagnostic and therapeutic techniques and common diseases of laboratory animals. Appropriate anesthesia, analgesia and euthanasia methods will be discussed. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable

Transferable: CSU

CLINICAL PRECEPTORSHIP I **VT88A** Degree & Credit Status: Degree-applicable credit course Prerequisites: V T 52A and 52B. Grade Type: Letter Grade Only Not Repeatable.

7.5 hours clinic. (90 hours total per quarter.)

Formal, structured off-campus clinical experience in licensed veterinary facilities, which serve as a means of instructing the student in practical, hands-on, clinical skills in all aspects of veterinary assisting as specified by the Association of Veterinary Technician Educators. The student is under the direct supervision of one or more licensed veterinarians and/or credentialed veterinary technicians. The site of the preceptorship is approved by the Veterinary Technology Program, in consultation with the student and the veterinary professionals. Opportunity for learning and practical application of the knowledge, skills and attitudes required of a veterinary assistant. Exposure to varied methodologies and practice philosophies in a variety of clinical settings. Emphasis is on the role of the veterinary assistant in the veterinary health care team.

FHGE: Non-GE Applicable

Transferable: CSU

V T 89 **CLINICAL INTERNSHIP I**

Degree & Credit Status: Degree-applicable credit course

Prerequisites: V T 55 and 56.

Grade Type: Letter Grade Only Not Repeatable.

10 hours clinic. (120 hours total per quarter.)

Off-campus practical clinical work experience in veterinary facilities supervised by licensed veterinarians and registered veterinary technicians. Integration into a veterinary health care team and exposure to varied methodologies and practice philosophies in a variety of clinical settings. Practical application of knowledge, skills, and attitudes acquired in the first year program course work: clinical application of anatomy and physiology; medical terminology and medical math; chemistry and microbiology; interpersonal skills and office practices. Supervised hands-on training in basic medical and surgical nursing. Opportunity to practice and attain entry-level competency in essential clinical skills. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

2.5 Units

🛑 FOOTHILL COLLEGE

V T 91

CLINICAL INTERNSHIP II

Degree & Credit Status: Degree-applicable credit course Prerequisite: V T 89. Grade Type: Letter Grade Only

Not Repeatable.

10 hours clinic. (120 hours total per quarter.)

Off-campus practical clinical work experience in veterinary facilities supervised by licensed veterinarians and veterinary technicians. Students begin to follow directions from doctors and staff with increasing independence and exhibit good judgment and critical thinking skills. Second guarter interns are typically enrolled in pharmacology, animal diseases and diagnostic imaging. The student must start to integrate and apply the knowledge and skills from these areas of learning into their practice at the internship site. This course documents the 115 hours of practical work experience in a veterinary medical clinical setting required for the students. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

FHGE: Non-GE Applicable

Transferable: CSU

VT 92

CLINICAL INTERNSHIP III

Degree & Credit Status: Degree-applicable credit course Prerequisite: V T 91. Grade Type: Letter Grade Only Not Repeatable.

10 hours clinic. (120 hours total per guarter.)

Off-campus practical clinical work experience in veterinary facilities supervised by licensed veterinarians and registered veterinary technicians. Students must assume more responsibility, act independently with more confidence and proficiency, apply principles of critical thinking to clinical practice and troubleshoot with confidence and good judgment. Practical application of knowledge, skills, and attitudes acquired in the concurrent second year program course work. The student assumes more responsibility for radiology and clinical pathology, medical nursing and common clinical procedures. Emphasis on developing competencies around dentistry, emergency medicine, and nursing assessments. This course meets the 115 hours of practical work experience in a veterinary medical clinical setting required for the students. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

V T 93 **CLINICAL INTERNSHIP IV**

Degree & Credit Status: Degree-applicable credit course

Prerequisite: V T 92. Grade Type: Letter Grade Only Not Repeatable.

10 hours clinic. (120 hours total per quarter.)

Off-campus practical clinical work experience in veterinary facilities supervised by licensed veterinarians and registered veterinary technicians. High-level practical application of knowledge, skills, and abilities acquired in the concurrent second year program course work. In addition to competently performing all essential clinical skills and duties delegated to the veterinary technician, the student will begin to take responsibility for client education, development of patient care plans, providing nursing care to critical care and emergency patients, performing advanced sampling techniques, conducting special diagnostic studies and performing more complex therapeutics. This course meets the 115 hours of practical work experience in a veterinary medical clinical setting required for the students. Intended for students in the last quarter of the Veterinary Technology Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

V T 95

3 Units

3 Units

VETERINARY TECHNICIAN PROFICIENCY

Degree & Credit Status: Degree-applicable credit course Grade Type: Letter Grade Only Not Repeatable.

2 hours lecture. (24 hours total per quarter.)

Review of AVMA domains in preparation for the Veterinary Technician National Examination. Guided review and discussion of exam application process. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program. FHGE: Non-GE Applicable **Transferable: CSU**

WOMEN'S STUDIES

Business and Social Sciences 650.949.7322 foothill.edu/womenstudies/

WMN 5 INTRODUCTION TO 4 Units WOMEN'S STUDIES

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Examination and development of the goals, major documents, history, achievements, and evolution of the current women's movement in light of the impact and contributions of women, in comparison to those of men, of various cultural and ethnic heritage. Includes appraisal of the effects of multiculturalism and the women's movement on politics, jobs, education, science, family structure, and the arts.

FHGE: American Cultures & Communities, Social & Behavioral Sciences Transferable: CSU/UC

WMN 11 WOMEN IN GLOBAL 4 Units PERSPECTIVE

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Grade Type: Letter Grade or Pass/No Pass

Examination and analysis of the historical roles of women globally and the impact and influence of these historical developments on modern society internationally and domestically.

FHGE: Non-GE Applicable

Transferable: CSU/UC

350

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

WMN 21 PSYCHOLOGY OF WOMEN: SEX 4 Units & GENDER DIFFERENCES

Degree & Credit Status: Degree-applicable credit course Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in PSYC 21 or SOC 21.

Grade Type: Letter Grade or Pass/No Pass

Not Repeatable.

4 hours lecture. (48 hours total per quarter.)

Survey of gender issues based upon psychological and sociological theories and research. Examination of sex differences and sex role stereotyping in a global, multi-cultural approach. Appraisal of effects of biology, culture, and society in creating sex and gender differences. Consideration of major theories of gender development. Focus on biology, socialization, mass media, communication, personality, abilities, work, family, sex, and violence. FHGE: Social & Behavioral Sciences Transferable: CSU/UC

WMN 70R	INDEPENDENT STUDY IN WOMEN'S STUDIES	1 Unit
WMN 71R		2 Units
WMN 72R		3 Units
WMN 73R		4 Units
Degree & Credit	Status: Degree-applicable credit course	
Grade Type: Lett	er Grade or Pass/No Pass	

Not Repeatable.

3-12 hours laboratory per week. (36-144 hours total per quarter.)

Provides an opportunity for the student to expand their studies in the Women's Studies discipline beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

FHGE: Non-GE Applicable

Transferable: CSU