College Curriculum Committee Meeting Agenda
Tuesday, April 25, 2023
2:00 p.m. – 3:30 p.m.
Administrative Conference Room 1901; virtual option via Zoom
Masks required for all in-person attendees

Item	Time*	Action	Attachment(s)	Presenter(s)
1. Minutes: March 21, 2023	2:00	Action	#4/25/23-1	Kuehnl
2. Report Out from Division Reps	2:02	Discussion		All
3. Public Comment on Items Not on Agenda (CCC cannot discuss or take action)	2:12	Information		
4. Announcements a. New Course Proposals b. CORs for Update 2024-25 (Title 5 list) c. Foothill GE List for 2023-24 d. COR Language Adjustments in CourseLeaf	2:17	Information	#4/25/23-2-6 #4/25/23-7 #4/25/23-8-9 #4/25/23-10	CCC Team
5. New Certificate Application: Commercial Photography	2:22	1st Read	#4/25/23-11 & 16	Kuehnl
6. New Certificate Application: Digital Photography Techniques		1st Read	#4/25/23-12 & 16	Kuehnl
7. New Certificate Application: Photography Criticism		1st Read	#4/25/23-13	Kuehnl
8. New Certificate Application: Commercial Photography (noncredit)		1st Read	#4/25/23-14 & 16	Kuehnl
9. New Certificate Application: Photography (noncredit)		1st Read	#4/25/23-15 & 16	Kuehnl
10. New Certificate Application: Educational Immersive Media	2:32	1st Read	#4/25/23-17	Kuehnl
11. Program Discontinuance Process	2:37	Discussion		Kuehnl
12. Process for Implementing Equity Updates to CORs	2:57	Discussion		Kuehnl
13. Good of the Order	3:27			Kuehnl
14. Adjournment	3:30			Kuehnl

Times listed are approximate

Attachments:

#4/25/23-1   Draft Minutes: March 21, 2023
#4/25/23-2-6   New Course Proposals: APPT 134C; ENGR 41A, 61A, 101A; SPAN 51B
#4/25/23-7   COR Required Updates for 2024-25
#4/25/23-8   Foothill General Education 2023-24
#4/25/23-9   Foothill GE Changes for 2023-24
#4/25/23-10   CourseLeaf COR Language Adjustments
#4/25/23-11   New Certificate Application: Commercial Photography
#4/25/23-12   New Certificate Application: Digital Photography Techniques
#4/25/23-13   New Certificate Application: Photography Criticism
#4/25/23-14   New Certificate Application: Commercial Photography (noncredit)
#4/25/23-15   New Certificate Application: Photography (noncredit)

#4/25/23-16   LMI for Photography Certificates
#4/25/23-17   New Certificate Application: Educational Immersive Media

2022-2023 Curriculum Committee Meetings:

Fall 2022 Quarter	Winter 2023 Quarter	Spring 2023 Quarter
~~10/4/22~~	~~1/24/23~~	4/25/23
~~10/18/22~~	~~2/7/23~~	5/9/23
~~11/1/22~~	~~2/21/23~~	5/23/23
~~11/15/22~~	~~3/7/23~~	6/6/23
~~11/29/22~~	~~3/21/23~~	6/20/23

Standing reminder: Items for inclusion on the CCC agenda are due no later than one week before the meeting.

2022-2023 Curriculum Deadlines:

~~*12/1/22*~~	Deadline to submit courses to CSU for CSU GE approval (Articulation Office).
~~*12/1/22*~~	Deadline to submit courses to UC/CSU for IGETC approval (Articulation Office).
~~*4/21/23*~~	Deadline to submit curriculum sheet updates for 2023-24 catalog (Faculty/Divisions).
6/1/23	Deadline to submit new/revised courses to UCOP for UC transferability (Articulation Office).
6/23/23	Deadline to submit course updates and local GE applications for 2024-25 catalog (Faculty/Divisions).
Ongoing	Submission of courses for C-ID approval and course-to-course articulation with individual colleges and universities (Articulation Office).

Distribution:
Micaela Agyare (LRC), Chris Allen (Dean, APPR), Jeff Bissell (KA), Rachelle Campbell (HSH), Anthony Cervantes (Dean, Enrollment Services), Kelly Edwards (KA), Valerie Fong (Dean, LA), Evan Gilstrap (Articulation Officer), Tom Gough (FA), Allison Herman (LA), Kurt Hueg (Interim VP Instruction), Julie Jenkins (BSS), Ben Kaupp (SRC), Eric Kuehnl (Faculty Co-Chair), Andy Lee (CNSL), Ana Maravilla (CNSL), Tiffany Mitchener (HSH), Patrick Morriss (STEM), Brian Murphy (APPR), Tim Myres (APPR), Teresa Ong (AVP Workforce), Ron Painter (STEM), Sarah Parikh (STEM), Chrissy Penate (LRC), Amy Sarver (LA), JP Schumacher (Dean, SRC), Shaelyn St. Onge-Cole (HSH), Ram Subramaniam (Administrator Co-Chair), Kella Svetich (LA), Mary Vanatta (Curriculum Coordinator), Voltaire Villanueva (AS President)

CC: Interpreters

COLLEGE CURRICULUM COMMITTEE
Committee Members – 2022-23

Meeting Date: <u>4/25/23</u>

<u>Co-Chairs (2)</u>

✔*	Eric Kuehnl	7479	Vice President, Academic Senate (tiebreaker vote only) kuehnleric@fhda.edu
✔*	Ram Subramaniam	7179	Acting Associate Vice President of Instruction subramaniamram@fhda.edu

<u>Voting Membership (1 vote per division)</u>

✔*	Micaela Agyare	7086	LRC	agyaremicaela@fhda.edu
✔*	Jeff Bissell	7663	KA	bisselljeff@fhda.edu
✔	Kelly Edwards	7327	KA	edwardskelly@fhda.edu
✔*	Valerie Fong	7135	Dean—LA	fongvalerie@fhda.edu
✔*	Evan Gilstrap	7675	Articulation	gilstrapevan@fhda.edu
✔*	Tom Gough	7130	FA	goughtom@fhda.edu
	Allison Herman	7460	LA	hermanallison@fhda.edu
✔*	Julie Jenkins		BSS	jenkinsjulie@fhda.edu
✔*	Ben Kaupp		SRC	kauppben@fhda.edu
✔*	Andy Lee	7783	CNSL	leeandrew@fhda.edu
✔*	Ana Maravilla		CNSL	maravillaana@fhda.edu
✔*	Tiffany Mitchener	7468	HSH	mitchenertiffany@fhda.edu
✔*	Patrick Morriss	7548	STEM	morrisspatrick@fhda.edu
✔	Brian Murphy		APPR	brian@pttc.edu
	Tim Myres		APPR	timm@smw104jatc.org
✔*	Ron Painter		STEM	painterron@fhda.edu
✔*	Sarah Parikh	7748	STEM	parikhsarah@fhda.edu
✔	Chrissy Penate		LRC	penatechrisanthy@fhda.edu
✔	Amy Sarver	7459	LA	sarveramy@fhda.edu
✔*	JP Schumacher	7549	Dean—SRC	schumacherjp@fhda.edu
	Shaelyn St. Onge-Cole	7818	HSH	stonge-coleshaelyn@fhda.edu
✔*	Kella Svetich	7924	LA	svetichkella@fhda.edu

<u>Non-Voting Membership (4)</u>

			ASFC Rep.	
✔*	Mary Vanatta	7439	Curr. Coordinator	vanattamary@fhda.edu
			Evaluations	
			SLO Coordinator	

<u>Visitors</u>

<u>Kate Jordahl</u>

* Indicates in-person attendance

College Curriculum Committee
Meeting Minutes
Tuesday, March 21, 2023
2:00 p.m. – 3:30 p.m.
Administrative Conference Room 1901; virtual option via Zoom

Item	Discussion
1. Minutes: March 7, 2023	**Approved by consensus.**
2. Report Out from Division Reps	**Speaker: All** STEM: Working on curriculum sheets. LRC: Agyare shared Library has extended hours this week and next. Language Arts: Armerding mentioned recent division retreat to discuss SLO process; faculty created process for meaningful creation and assessment of SLOs. Working on curriculum sheets. Kinesiology: No updates to report. HSH: No updates to report. Fine Arts: Gough shared recent division CC meeting discussed process to review/update curriculum sheets, which are being worked on. Gomes noted received some feedback re: equity guidelines document. SRC: No updates to report. Counseling: No updates to report. BSS: Meezan shared a few depts. creating new honors courses. Apprenticeship: No updates to report. Vanatta shared hoping to have Title 5 list ready by end of week; will email to reps and deans.
3. Public Comment on Items Not on Agenda	Armerding shared English faculty Hilda Fernandez used equity guidelines draft for reading assignment for students; shared students' responses with Kuehnl.
4. Announcements a. New Course Proposals	**Speakers: CCC Team** The following proposals were presented: ANTH 5H, BUSI 11H, GLST 1H, HUMN 12H, MDIA 12H. No comments.
b. Spring Plenary Resolutions	Resolutions packet was attached as info item. Reach out to Kuehnl or Academic Senate President Voltaire Villanueva with any questions or feedback, or if interested in attending plenary meeting in April.
c. New Certificate Approvals by CCCCO: Accounting Ethics CA, Community Health Worker CA, CPA Exam Preparation - Financial Accounting Reporting CA, Tax Specialist CA	Vanatta shared that the state recently approved these new certificates of achievement! They have all been added to the catalog.
5. Equity in the COR	**Speaker: Eric Kuehnl** Second read of Guiding Principles for Equitable CORs document, which has been updated based on discussion during first read. Kuehnl commented on new bullet in Types/Examples of … Assignments section, and asked for clarification. Parikh responded, idea is that

	instead of assuming all students come into class with the exact same experiences/background, faculty builds up from where various students are coming from. Kuehnl also asked about placement of bullet in document—Parikh responded, placement related to where ideas are coming from; students are "co-constructing." Meezan asked if bullet is about students incorporating their lived experiences into assignments—Parikh responded, no, it's related to introducing a course/lesson/topic. Gough agreed perhaps bullet should be moved to different section. Gomes suggested: "assignments are based on prior knowledge." Kuehnl asked if Course Content section more appropriate, or if bullet should be revised to mention assignments—Parikh believes moving to Course Content more applicable. Vanatta noted existing bullet in Course Content section, re: students' lived experiences—Parikh believes new bullet different enough to be separate.
	Meezan commented on "asked to begin" and Kaupp suggested: "asked to approach the course." Parikh clarified bullet can apply to individual topics, as well as the course in general. Jenkins asked for clarification, is the bullet asking students to approach the content or asking faculty to give space to students to approach the content—Kuehnl noted guidelines are for faculty. Jenkins suggested: "are instructors asking students to begin." Rideaux asked how Course Content could actually be written to incorporate bullet, and wondered if bullet more applicable to pedagogy; Meezan believes could be more appropriate for syllabus construction. Holcroft commented on pedagogy, noting it's already good practice to ask students to surface prior knowledge which applies to course topic/content as opposed to making assumptions; could relate to a reading assignment or act as another type of prompt. This practice helps students realize they're not coming from a blank slate. Discussion about whether Methods of Instruction section more appropriate.
	Rideaux suggested keeping bullet in Types/Examples of … Assignments section and modifying language: "do assignments elicit students' prior knowledge of the content?" Parikh agreed and suggested also adding bullet to Methods of Instruction section; someone pointed out similar bullet already there re: students' lived experiences. Group agreed to update new bullet to Rideaux's suggestion and keep in Types/Examples of … Assignments section only.
	Morriss shared feedback from STEM division faculty re: Representative Texts/Materials section, to move bullet re: free texts to top of list—group agreed. Holcroft mentioned Academic Senate OER liaison in addition to library liaison—group agreed to add (same bullet re: free texts). Morriss commented on possible typo in definition of equity—Vanatta noted Office of Equity team likely updating definitions but will correct typo.
	Motion to approve document with modifications **M/S** (Morriss, Kaupp/Jenkins/Parikh). **Approved.**
6. Course Deactivation Exemption Requests	**Speaker: Eric Kuehnl** List of courses not taught in four years was distributed via email on Feb. 8; divisions submitted requests to exempt courses, per Policy on Course Currency. Requests for the following courses were reviewed and voted on as a group, with the option to pull any course for individual discussion/vote: ALLD 402; ALTW 431; ANTH 2B, 67B; APPT 126, 128; APSM 123, 130, 131, 132, 133, 134, 155B; BUSI 19, 90A; CHLD 54A, 54C, 54D, 73; C S 20A, 50C, 52A, 52B, 56B, 80A, 81A, 84B; EMS 200; ENGL 49; ESLL 248; GEOG 11; GID 46, 47; HIST 3B, 18; HORT 60G, 90E, 90L, 90M; JRNL 53A, 53B, 60, 61, 62, 64; KINS 54; LIBR

	10H; MATH 1BH, 1BHP; MDIA 4, 7, 31, 52; MTEC 66A, 70G, 80B, 80C, 84A; MUS 3D, 38A, 38B, 38C; NCEL 403A, 403B; PHDA 24; PHED 15C, 20B, 21D, 24C, 24D, 25B, 43A; PHIL 11; PHOT 22, 57B, 68E, 78B, 78C, 78D; PSE 20; PSYC 54H; R T 71; SOC 54H; THTR 7, 26. No discussion occurred regarding any specific requests. Meezan believes this process is a really good exercise for faculty to engage with, as it forces them to look at their catalog listings and really consider whether a course should continue to be active if it's not been taught in recent years. Motion to approve **M/S** (St. Onge-Cole, Kaupp). **Approved.**
7. Process for Implementing Equity Updates to CORs	**Speaker: Eric Kuehnl** Continuing discussion from previous meeting, regarding need to discuss how Guiding Principles for Equitable CORs document will be used across campus; for example, who will be reviewing equity updates to CORs, will CORs be rejected for not having been updated for equity, etc. Academic Senate (AS) has made clear that determining these things included in mandate to CCC to create guidelines. One suggestion at previous meeting was to add checkbox on COR form; Parikh hopeful that this seemingly simple option will prompt faculty to eventually read guidelines, even if they don't the first few times they check the box. Recalled discussions earlier this year, during which group assumed initial faculty compliance wouldn't be 100%. Kuehnl clarified checkbox would be for faculty to sign off that they've done the work, but someone else would then need to review and ascertain whether or not the work was actually done. St. Onge-Cole suggested when faculty presents course update to division CC, they must explain equity-related updates they've made; can be opportunity for discussion if faculty unsure how to incorporate equity. Kaupp suggested adding text field alongside checkbox, for faculty to summarize their equity-related updates. Gomes asked who will be in charge of reading faculty's explanation, if such a text box is added; worried about reality of Title 5 updates submitted late in the process, very close to deadline, which doesn't leave a lot of time for division reps/CCs to review. Gough mentioned suggestion at previous meeting for this document/topic to be campus-wide Opening Day activity; does not believe division CC should be put in position of having to police equity-related updates. Kuehnl believes responsibility of review will likely fall to division reps, as currently no plan for release time for separate group to review. Jenkins recalled the reason we created guidelines was to not add specific equity-related field to COR; Kuehnl noted CCC was mandated by AS to create document. Jenkins mentioned faculty concerned that editing COR content will trigger need for rearticulation; Morriss agreed. Parikh believes you can force someone to reflect and check a box, but you can't change their mindset; hope is that by repeatedly checking the box faculty who are resistant will eventually apply the guidelines. Kuehnl agrees but believes reasonable to ask faculty to make a statement re: how they have used the guidelines. Acknowledged division reps already have a lot on their plate when reviewing CORs. Holcroft commented some items (on guidelines) can be implemented very quickly, while others may take years; hope is to set colleagues up for success by making sure they understand that they have time and support. Does not believe policing should be used. Noted many items

	are very subjective and even the most dedicated faculty member (re: equity) won't be able to nail 100% of them. Believes ongoing conversations with peers within discipline will be critical and will help address individual blind spots.
	Morriss noted guidelines discussed at math dept. retreat, prompting question of "who's the audience for the COR?" as well as concern re: retriggering articulation. Math dept. faculty believe discussions within dept., such as Holcroft suggested, will be important in ensuring faculty teaching in an equitable way. Morriss believes checkbox could serve as way for faculty to confirm teaching in an equitable way. Noted some colleagues concerned they don't have background/expertise re: DEIA. Gomes expressed hope that there will be professional development for faculty to implement guidelines. Armerding believes our de-centralized model will help, as equity guidelines will become part of each division's individual process, rather than coming down from central CCC; will be different for each division/dept., just as other processes already are. Agreed with idea of checkbox to prompt confirmation of reflection, and asked about visibility on COR (internal vs. external). Agreed that although checkbox wouldn't force faculty to actually do the work, could lead to folks feeling they're being held accountable.
	Vanatta explained checkbox and related text field would be visible within CourseLeaf to anyone who has an account, but won't display on public-facing COR (in catalog) unless we want it to. Jenkins wondered where spaces can be created for conversations and what barriers may exist for faculty to not engage (e.g., workload, resistance, etc.). Believes Opening Day is appropriate; Parikh agreed and noted has discussed equity-related questions re: Program Review with dept. colleagues, some of whom believe all equity-related content can simply be included in intro course and doesn't need to be in all dept. courses. Believes, for some faculty, thinking about applying equity to every course will be a big step; believes checkbox can prompt reflections and conversations about equity in all courses, not just intro.
	Kuehnl believes process will be different for courses in different types of disciplines (e.g., will be easier for some than others); noted some faculty responsible for updating CORs for courses they never teach, which may be difficult. Believes adding text field for faculty to explain their equity-related approach could be worthwhile; no decision needs to be made today, and discussion will continue at future meetings. Pointed out that faculty decided application of guidelines across all courses will be completed within five years, tied to Title 5 process. Jenkins asked if Kuehnl can send reps actual language of mandate—Kuehnl responded, mandate is to review every COR for equity within five years; can ask Villanueva to attend future CCC meeting to discuss further.
	Holcroft mentioned robust Peer Online Course Review (POCR) program, which is not forced and has incentive attached to it; faculty going through POCR program has led to very different results (in a positive way) vs. simply asking faculty if they are doing the work.
8. Zero Textbook Cost (ZTC) Grant Phase I	**Speaker: Carolyn Holcroft** Instructional materials a huge part of the cost of students' education and, ultimately, a huge factor in students' financial stability. For clarification, instructional materials include textbooks, digital course materials (e.g., open educational resources [OER], licensed materials, homework systems); doesn't include equipment such as calculators, yoga mats, paintbrushes, etc. Looking to eliminate cost of instructional materials for students. ZTC course = students can take course without

<table>
<tr><td></td><td>having to pay for any instructional materials. ZTC program = students can complete entire degree/cert. without paying for any instructional materials throughout. State has been working to establish ZTC grant program, to develop ZTC courses/programs, to reduce cost for students and also decrease the time for students to complete their degree/cert. ZTC initially tied to CTE, but has expanded to include transfer.

Grant program has three phases: planning, expedited implementation, and expanded implementation; we're currently in Phase I. We have $20,000 to plan development of implementing at least one ZTC degree/cert. Most colleges begin by mapping which faculty are teaching ZTC courses, to determine which degrees/certs. ZTC courses are included in (incl. GE); if one is close, incentivize faculty to get entire degree/cert. ZTC. Phase 3 grants additional $180,000 which could be used for incentivizing faculty, professional development, OER creation and/or remediation to bring materials up to accessibility standards.

By June 30, we must report to the state a framework of our strategy. Currently, mapping almost complete; survey sent to faculty asking what they teach and if they're interested in ZTC. Holcroft shared example of a program, with courses indicated as "ready" (at least one faculty already teaching course as ZTC) or "interest" (at least one faculty interested in moving course to ZTC). Noted other colleges have seen a shift in enrollment in favor of ZTC courses/programs. Also pointed out ZTC fits nicely with equity in COR initiative.

Kuehnl asked what if program has, for example, 10 courses, nine of which are ZTC, but one uses a textbook which cannot be replaced (e.g., outside body requires it); is it possible for college to pay for books so students don't have to pay for them and would that count as ZTC? Holcroft responded, yes, and some colleges have bought an entire course set of textbooks; noted must have enough available for every student in order to qualify as ZTC. St. Onge-Cole noted their degree has been ZTC for a year, and Library has full set of textbooks which students check out. Holcroft noted this situation likely a temporary stop-gap, as state moving toward not just shifting textbook costs to taxpayers but instead eliminating textbook costs.

Parikh noted tried same approach as St. Onge-Cole but was told by Library staff not an option, as would result in too many different textbooks having to be offered. Also noted each topic in discipline (engineering) has different textbook; Holcroft suggested meeting to discuss situation. Agyare commented re: Engineering textbooks, noting all of the books they're getting are either from dept. lottery funds or ASFC funds; believes if STEM division would like to use lottery funds, circulation staff can put books on reserve. Kaupp noted both OER and ZTC equity-minded by nature.</td></tr>
<tr><td>9. Good of the Order</td><td></td></tr>
<tr><td>10. Adjournment</td><td>**3:40 PM**</td></tr>
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Attendees: Micaela Agyare (LRC), Chris Allen (APPR), Ben Armerding (LA), Jeff Bissell (KA), Valerie Fong* (Dean, LA), Hilary Gomes (FA), Tom Gough* (FA), Carolyn Holcroft* (Equity and Professional Development), Julie Jenkins* (BSS), Ben Kaupp* (SRC), Eric Kuehnl* (Faculty Co-Chair), Andy Lee* (CNSL), Don Mac Neil (KA), Allison Meezan* (BSS), Patrick Morriss* (STEM), Sarah Parikh* (STEM), Chrissy Penate* (LRC), Tiffany Rideaux* (BSS), Amy Sarver (LA), JP Schumacher* (Dean, SRC), Shaelyn St. Onge-Cole* (HSH), Maia ten Brink (guest), Mary Vanatta* (Curriculum Coordinator)
Indicates in-person attendance

Minutes Recorded by: M. Vanatta

Course Change Request

New Course Proposal

Date Submitted: 04/14/23 8:49 am

Viewing: **APPT F134C : OSHA 30/REFRIGERATION & ELECTRICITY**

Last edit: 04/14/23 2:43 pm

Changes proposed by: Andrew Stafford (11171431)

Course Proposal Form

Faculty Author	Andrew Stafford

Effective Term	Summer 2024		
Subject	Apprenticeship: Pipe Trades (APPT)	Course Number	F134C
Department	Apprenticeship (A P)		
Division	Apprenticeship (1ED)		
Units	4.5		
Hours	54 hours lecture total		
Course Title	OSHA 30/REFRIGERATION & ELECTRICITY		
Short Title			

Proposed Transferability	None
Proposed Description and Requisites:	Study of the requirements for emergency response to and handling of hazardous materials. Covers laws of chemical hazards, electrical hazards, personal protective equipment, confined spaces, monitoring equipment, and federal and Cal-OSHA standards for the construction industry. Students also explore electrical theory and circuitry, and the principles of refrigeration and air conditioning.
Proposed Discipline	Steamfitting

To which Degree(s) or Certificate(s) would this course potentially be added?

Certificate of Achievement

AS Degree

Are there any other departments that may be impacted from the addition of this course?

No

Comments & Other Relevant Information for Discussion:

This course proposal is to make a distinction between the plumbers Industrial Safety class and the Steamfitters Industrial Safety class. The main difference is that the Steamfitters Industrial Safety class also covers electricity and refrigeration whereas the plumbers do not.

Reviewer Comments

Key: 8851

Preview Bridge

Course Change Request

New Course Proposal

Date Submitted: 04/11/23 2:27 pm

Viewing: **ENGR F041A : VACUUM SYSTEMS**

Last edit: 04/18/23 3:10 pm

Changes proposed by: Sarah Parikh (20087149)

Course Proposal Form

Faculty Author	Sarah Parikh

Effective Term	Summer 2024		
Subject	Engineering (ENGR)	Course Number	F041A
Department	Engineering (ENGR)		
Division	Science Technology Engineering and Mathematics (1PS)		
Units	5		
Hours	5 hours lecture		
Course Title	VACUUM SYSTEMS		
Short Title			

Proposed Transferability	UC/CSU
Proposed Description and Requisites:	This course will look into the theory behind vacuum systems. Students will gain an understanding of vacuum system basics and exposure to different vacuum pumps and their capabilities. Prerequisites: CHEM 1A; Intermediate Algebra or equivalent.
Proposed Discipline	Engineering

To which Degree(s) or Certificate(s) would this course potentially be added?

This course will act as a component of the Semiconductor Engineering associates degree (in development).

Are there any other departments that may be impacted from the addition of this course?

No

Comments & Other Relevant Information for Discussion:

Industry partners have asked specifically for this course.

Reviewer Comments

Key: 8848

Preview Bridge

Course Change Request

New Course Proposal

Date Submitted: 04/11/23 2:33 pm

Viewing: **ENGR F061A : INTRODUCTION TO SEMICONDUCTOR TECHNOLOGY**

Last edit: 04/18/23 3:11 pm

Changes proposed by: Sarah Parikh (20087149)

Course Proposal Form

Faculty Author	Sarah Parikh

Effective Term	Summer 2024		
Subject	Engineering (ENGR)	Course Number	F061A
Department	Engineering (ENGR)		
Division	Science Technology Engineering and Mathematics (1PS)		
Units	5		
Hours	4 hours lecture, 3 hours lab		
Course Title	INTRODUCTION TO SEMICONDUCTOR TECHNOLOGY		
Short Title			

Proposed Transferability	CSU Only
Proposed Description and Requisites:	This course will provide an overview of the semiconductor industry. It will also focus on clean room safety, wafer processing, and troubleshooting. Students will practice scientific thinking and have exposure to running experiments.
Proposed Discipline	Engineering

To which Degree(s) or Certificate(s) would this course potentially be added?

This course will be a part of a Certificate of Achievement and the Semiconductor Technician apprenticeship pathway. This course will also be a part of the Semiconductor Engineering AS (in development).

Are there any other departments that may be impacted from the addition of this course?

No

Comments & Other Relevant Information for Discussion:

This course is important to industry needs and is supported by funding agencies.

Reviewer Comments

Key: 8849

Preview Bridge

Course Change Request

New Course Proposal

Date Submitted: 04/11/23 2:45 pm

Viewing: **ENGR F101A : ADVANCED MANUFACTURING**

Last edit: 04/18/23 3:12 pm

Changes proposed by: Sarah Parikh (20087149)

Course Proposal Form

Faculty Author	Sarah Parikh

Effective Term	Summer 2024		
Subject	Engineering (ENGR)	Course Number	F101A
Department	Engineering (ENGR)		
Division	Science Technology Engineering and Mathematics (1PS)		
Units	5		
Hours	5 hours lecture		
Course Title	ADVANCED MANUFACTURING		
Short Title			

Proposed Transferability	None
Proposed Description and Requisites:	This course will provide an understanding of industry technology and an exposure to advanced manufacturing, pneumatics, electronics, mechatronics, and vacuum systems.
Proposed Discipline	Engineering

To which Degree(s) or Certificate(s) would this course potentially be added?

This course will be a part of the Certificate of Achievement for the semiconductor technician apprenticeship program (in development).

Are there any other departments that may be impacted from the addition of this course?

No

Comments & Other Relevant Information for Discussion:

This course is important for industry and the apprenticeship program.

Reviewer Comments

Key: 8850

Preview Bridge

Course Change Request

New Course Proposal

Date Submitted: 03/01/23 1:59 pm

Viewing: **SPAN F051B : SPANISH FOR HEALTH CARE WORKERS II**

Last edit: 03/28/23 1:53 pm

Changes proposed by: Patricia Crespo-Martin (11051222)

Course Proposal Form

Faculty Author	Patricia Crespo-Martin

Effective Term	Summer 2024		
Subject	Spanish (SPAN)	Course Number	F051B
Department	Spanish (SPAN)		
Division	Language Arts (1LA)		
Units	3		
Hours	3 hours lecture		
Course Title	SPANISH FOR HEALTH CARE WORKERS II		
Short Title			

Proposed Transferability	CSU Only
Proposed Description and Requisites:	A continuation of SPAN 51. This course expands the students' knowledge of basic medical terminology, 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.

Prerequisite: SPAN 1 or SPAN 51. |
| Proposed Discipline | Foreign Languages |

To which Degree(s) or Certificate(s) would this course potentially be added?

> Stand Alone

Are there any other departments that may be impacted from the addition of this course?

> No

Comments & Other Relevant Information for Discussion:

> This course is targeted to medical personnel and health care workers who want to gain basic language skills to talk with native speakers seeking health care. It can be integrated with or be of interest to the various Allied Health programs.

Reviewer Comments

Key: 8844

The following courses must be reviewed/updated (or submitted as a deactivation) in CourseLeaf CIM by the COR deadline of Friday, June 23, 2023

Division	Course Code	Course Title	Previously Updated
BSS	ACTG 1A	FINANCIAL ACCOUNTING I	2019 Summer
BSS	ACTG 1C	MANAGERIAL ACCOUNTING	2019 Summer
		INDEPENDENT STUDY IN ACCOUNTING	
BSS	ACTG 70R	*Note: just 70R needs submitted; I will copy any edits over to 71R, 72R & 73R*	2019 Summer
HSH	AHS 50A	INTRODUCTION TO ALLIED HEALTH PROGRAMS	2019 Summer
HSH	AHS 50B	INTERPROFESSIONAL PATIENT COMPETENCIES	2019 Summer
HSH	AHS 50C	INTERPROFESSIONAL COMPETENCIES FOR COLLABORATIVE PRACTICE	2019 Summer
HSH	AHS 52	MEDICAL TERMINOLOGY	2019 Summer
HSH	AHS 55	COMMUNITY HEALTH PROMOTION	2019 Summer
SRC	ALCB 466	ACCESSING THE DIGITAL WORLD	2019 Summer
SRC	ALCB 467	HEALTHY LIVING	2019 Summer
SRC	ALCB 468	SOCIAL SKILLS	2019 Summer
SRC	ALTW 230	INTRODUCTION TO VOCATIONAL MICRO-BUSINESS	2019 Summer
SRC	ALTW 232	SOCIAL MEDIA & DIGITAL CITIZENSHIP	2019 Summer
SRC	ALTW 233	HEALTHY LIVING FOR STUDENTS WITH LEARNING DIFFERENCES	2019 Summer
BSS	ANTH 13	INTRODUCTION TO FORENSIC ANTHROPOLOGY	2019 Summer
BSS	ANTH 13L	FORENSIC ANTHROPOLOGY LABORATORY	2019 Summer
BSS	ANTH 14	LINGUISTIC ANTHROPOLOGY	2019 Summer
BSS	ANTH 15	MEDICAL ANTHROPOLOGY: METHODS & PRACTICE	2019 Summer
		INDEPENDENT STUDY IN ANTHROPOLOGY	
BSS	ANTH 70R	*Note: just 70R needs submitted; I will copy any edits over to 71R, 72R & 73R*	2019 Summer
APPR	APEL 123A	GROUNDING & BONDING, OVERCURRENT PROTECTION, CODE & PRACTICES, BLUEPRINTS, CODEOLOGY SKILLS	2019 Summer
APPR	APEL 125A	FIRE ALARM SYSTEMS, EMERGENCY COMMUNICATION SYSTEMS, PUBLIC EMERGENCY SYSTEMS	2019 Summer
FA	ART 4I	FIGURE DRAWING II	2019 Summer
		INDEPENDENT STUDY IN ART	
FA	ART 70R	*Note: just 70R needs submitted; I will copy any edits over to 71R, 72R & 73R*	2019 Summer
STEM	ASTR 54H	HONORS INSTITUTE SEMINAR IN ASTRONOMY	2019 Summer
		INDEPENDENT STUDY IN ASTRONOMY	
STEM	ASTR 70R	*Note: just 70R needs submitted; I will copy any edits over to 71R, 72R & 73R*	2019 Summer
		INDEPENDENT STUDY IN ATHLETICS	
KA	ATHL 70R	*Note: just 70R needs submitted; I will copy any edits over to 71R, 72R & 73R*	2019 Summer
BSS	BUSI 12	INTRODUCTION TO DATA ANALYTICS & BUSINESS DECISIONS	2020 Winter
		INDEPENDENT STUDY IN BUSINESS	
BSS	BUSI 70R	*Note: just 70R needs submitted; I will copy any edits over to 71R, 72R & 73R*	2019 Summer
STEM	CHEM 1C	GENERAL CHEMISTRY & QUALITATIVE ANALYSIS	2019 Summer

BSS	CHLD 8	CHILD, FAMILY & COMMUNITY	2019 Summer
BSS	CHLD 56N	PRINCIPLES & PRACTICES OF TEACHING YOUNG CHILDREN	2019 Summer
BSS	CHLD 72	LANGUAGE, LITERACY & THE DEVELOPING CHILD	2019 Summer
BSS	CHLD 89	CURRICULUM FOR EARLY CARE & EDUCATION PROGRAMS	2019 Summer
BSS	CHLD 95	HEALTH, SAFETY & NUTRITION IN CHILDREN'S PROGRAMS	2019 Summer
CN	CNSL 5	INTRODUCTION TO COLLEGE	2019 Summer
CN	CNSL 56	LIFELONG LEARNING STRATEGIES	2019 Summer
FA	COMM 1A	PUBLIC SPEAKING	2019 Summer
STEM	C S 3M	INTERMEDIATE ALGORITHM & DATA STRUCTURE METHODOLOGIES IN PYTHON	2019 Summer
STEM	C S 20A	PROGRAMMING IN C#	2019 Summer
STEM	C S 48A	DATA VISUALIZATION	2020 Winter
STEM	C S 55A	INTRODUCTION TO CLOUD COMPUTING IN AMAZON WEB SERVICES	2019 Fall
STEM	C S 55B	DATABASE ESSENTIALS IN AMAZON WEB SERVICES	2019 Fall
STEM	C S 55C	COMPUTE ENGINES IN AMAZON WEB SERVICES	2019 Fall
STEM	C S 55D	SECURITY IN AMAZON WEB SERVICES	2019 Fall
STEM	C S 63A	DEVELOPING APPLICATIONS FOR IOS	2019 Summer
KA	DANC 70R	INDEPENDENT STUDY IN DANCE *Note: just 70R needs submitted; I will copy any edits over to 71R, 72R & 73R*	2019 Summer
HSH	D H 70R	INDEPENDENT STUDY IN DENTAL HYGIENE *Note: just 70R needs submitted; I will copy any edits over to 71R, 72R & 73R*	2019 Summer
BSS	ECON 9	POLITICAL ECONOMY *Note: cross-listed w/ POLI 9 (also on the list)—please submit the same updates to both CORs*	2019 Summer
BSS	ECON 9H	HONORS POLITICAL ECONOMY *Note: cross-listed w/ POLI 9H (also on the list)—please submit the same updates to both CORs*	2019 Summer
BSS	ECON 70R	INDEPENDENT STUDY IN ECONOMICS *Note: just 70R needs submitted; I will copy any edits over to 71R, 72R & 73R*	2019 Summer
BSS	EDUC 2	INTRODUCTION TO ELEMENTARY EDUCATION	2019 Summer
LA	ENGL 7	NATIVE AMERICAN LITERATURE	2019 Summer
LA	ENGL 8	CHILDREN'S LITERATURE	2019 Summer
LA	ENGL 12	AFRICAN AMERICAN LITERATURE	2019 Summer
LA	ENGL 14	TRAVELING THE WORLD THROUGH CONTEMPORARY LITERATURE	2019 Summer
LA	ENGL 16	INTRODUCTION TO LITERATURE	2019 Summer
LA	ENGL 18B	GOTHIC & HORROR LITERATURE	2019 Summer
LA	ENGL 24	UNMASKING COMICS: THE DAWN OF THE GRAPHIC NOVEL	2019 Summer
LA	ENGL 31	LATINO/A LITERATURE	2019 Summer
LA	ENGL 38	LITERATURE OF PROTEST	2019 Summer
LA	ENGL 40	ASIAN AMERICAN LITERATURE	2019 Summer

LA	ENGL 242A	CRITICAL THINKING: STUDENT-MANAGED PORTFOLIO DEVELOPMENT	2019 Summer
LA	ENGL 242B	CRITICAL THINKING: PORTFOLIO MANAGEMENT & PUBLICATION	2019 Summer
LA	ENGL 246A	COMPOSITION & READING SUPPLEMENTAL INSTRUCTION	2019 Summer
STEM	ENGR 6	ENGINEERING GRAPHICS	2019 Summer
STEM	ENGR 10	INTRODUCTION TO ENGINEERING	2019 Summer
STEM	ENGR 35	STATICS	2019 Summer
STEM	ENGR 47	DYNAMICS	2019 Summer
		INDEPENDENT STUDY IN ENGINEERING	
STEM	ENGR 70R	*Note: just 70R needs submitted; I will copy any edits over to 71R, 72R & 73R*	2019 Summer
LA	ESLL 201A	COMPOSITION & READING INSTRUCTIONAL SUPPORT FOR ENGLISH LANGUAGE LEARNERS	2020 Winter
		INDEPENDENT STUDY IN GEOGRAPHY	
BSS	GEOG 70R	*Note: just 70R needs submitted; I will copy any edits over to 71R, 72R & 73R*	2019 Summer
BSS	HIST 8	HISTORY OF LATIN AMERICA	2019 Summer
HSH	HORT 52H	HORTICULTURE PRACTICES: INTEGRATED PEST MANAGEMENT	2019 Summer
HSH	HORT 52M	URBAN FORESTRY	2019 Summer
HSH	HORT 60L	VECTORWORKS 3-D	2019 Summer
HSH	HORT 80E	LANDSCAPE CERTIFICATION: COMMON CORE	2019 Summer
HSH	HORT 80F	LANDSCAPE CERTIFICATION: SOFTSCAPE INSTALLATION	2019 Summer
HSH	HORT 80G	LANDSCAPE CERTIFICATION: HARDSCAPE INSTALLATION	2019 Summer
HSH	HORT 80I	LANDSCAPE CERTIFICATION: IRRIGATION INSTALLATION	2019 Summer
HSH	HORT 80J	LANDSCAPE CERTIFICATION: TURF MANAGEMENT	2019 Summer
HSH	HORT 80K	LANDSCAPE CERTIFICATION: ORNAMENTAL MAINTENANCE	2019 Summer
HSH	HORT 90C	GARDEN PONDS & WATER FEATURES	2019 Summer
HSH	HORT 90S	SUSTAINABLE INTEGRATED PEST MANAGEMENT (IPM)	2019 Summer
HSH	HORT 90V	SUSTAINABLE ORGANIC GARDENING	2019 Summer
HSH	HORT 91E	COMMUNITY GARDENING	2019 Summer
HSH	HORT 91F	FINE GARDENING	2019 Summer
HSH	HORT 401A	LANDSCAPE CERTIFICATION: COMMON CORE	2019 Summer
HSH	HORT 401B	LANDSCAPE CERTIFICATION: SOFTSCAPE INSTALLATION	2019 Summer
HSH	HORT 401C	LANDSCAPE CERTIFICATION: HARDSCAPE INSTALLATION	2019 Summer
HSH	HORT 401D	LANDSCAPE CERTIFICATION: IRRIGATION INSTALLATION	2019 Summer
HSH	HORT 401E	LANDSCAPE CERTIFICATION: TURF MANAGEMENT	2019 Summer
HSH	HORT 401F	LANDSCAPE CERTIFICATION: ORNAMENTAL MAINTENANCE	2019 Summer
BSS	HUMN 8	EX MACHINA: THE PARADOX OF BEING HUMAN IN THE DIGITAL AGE	2019 Summer
APPR	ITSC 101	STRUCTURED CABLING ESSENTIALS	2020 Winter
APPR	ITSC 105	FIBER 1	2020 Winter
APPR	ITSC 106	FIBER 2	2020 Winter
APPR	ITSC 110	ELECTRICAL THEORY ESSENTIALS	2020 Winter

APPR	ITSC 113	MASTER CLOCKS	2020 Winter
APPR	ITSC 114	NURSE CALL SYSTEMS	2020 Winter
APPR	ITSC 115	COMPUTER LITERACY 1 (MICROSOFT WORD & EXCEL)	2020 Winter
APPR	ITSC 123	FIRE ALARM ESSENTIALS	2020 Winter
APPR	ITSC 125	PAGING SYSTEMS	2020 Winter
APPR	ITSC 127	CATV/DAS	2020 Winter
APPR	ITSC 128	NETWORK VIDEO	2020 Winter
APPR	ITSC 130	INTRUSION SYSTEMS	2020 Winter
APPR	ITSC 131	ACCESS CONTROL SYSTEMS	2020 Winter
APPR	ITSC 132	AUDIO VISUAL ESSENTIALS	2020 Winter
APPR	ITSC 134	BLUEPRINTS, LEED, TITLE 24	2020 Winter
		INDEPENDENT STUDY IN KINESIOLOGY	
KA	KINS 70R	*Note: just 70R needs submitted; I will copy any edits over to 71R, 72R & 73R*	2019 Summer
STEM	MATH 1D	CALCULUS	2019 Summer
STEM	MATH 2A	DIFFERENTIAL EQUATIONS	2019 Summer
		INDEPENDENT STUDY IN MATHEMATICS	
STEM	MATH 70R	*Note: just 70R needs submitted; I will copy any edits over to 71R, 72R & 73R*	2019 Summer
FA	MTEC 57A	SOUND DESIGN FOR FILM & VIDEO	2019 Summer
FA	MUS 2D	WORLD MUSIC: ROOTS TO CONTEMPORARY GLOBAL FUSION	2019 Summer
FA	MUS 8	MUSIC OF AMERICAN CULTURES	2019 Summer
FA	MUS 8H	HONORS MUSIC OF AMERICAN CULTURES	2019 Summer
FA	MUS 11B	FUNK, FUSION & HIP-HOP	2019 Summer
		INDEPENDENT STUDY IN MUSIC/MUSIC TECHNOLOGY	
FA	MUS 70R	*Note: just 70R needs submitted; I will copy any edits over to 71R, 72R & 73R*	2019 Summer
LA	NCEL 405	INTRODUCTION TO COMPUTER & INTERNET LANGUAGE FOR ESL	2019 Summer
LA	NCEN 401A	BRIDGE TO TRANSFER ENGLISH	2019 Fall
LA	NCEN 442A	CRITICAL THINKING: STUDENT-MANAGED PORTFOLIO DEVELOPMENT	2019 Fall
LA	NCEN 442B	CRITICAL THINKING: PORTFOLIO MANAGEMENT & PUBLICATION	2019 Fall
SRC	PHDA 15A	MODIFIED TOTAL FITNESS	2019 Summer
SRC	PHDA 15B	INTERMEDIATE MODIFIED TOTAL FITNESS	2019 Summer
SRC	PHDA 15C	PROGRESSIVE MODIFIED TOTAL FITNESS	2019 Summer
SRC	PHDA 401	ADAPTED MOVEMENT	2019 Summer
KA	PHED 41A	INDOOR CYCLING: HILLS & SPRINTS	2019 Summer
		INDEPENDENT STUDY IN PHYSICAL EDUCATION	
KA	PHED 70R	*Note: just 70R needs submitted; I will copy any edits over to 71R, 72R & 73R*	2019 Summer
		INDEPENDENT STUDY IN PHILOSOPHY	
BSS	PHIL 70R	*Note: just 70R needs submitted; I will copy any edits over to 71R, 72R & 73R*	2019 Summer

FA	PHOT 11	CONTEMPORARY ISSUES IN PHOTOGRAPHY	2019 Summer
FA	PHOT 11H	HONORS CONTEMPORARY ISSUES IN PHOTOGRAPHY	2019 Summer
FA	PHOT 74C	STUDIO PHOTOGRAPHY TECHNIQUES III	2019 Summer
		INDEPENDENT STUDY IN PHYSICS	
STEM	PHYS 70R	*Note: just 70R needs submitted; I will copy any edits over to 71R, 72R & 73R*	2019 Summer
BSS	POLI 3	INTRODUCTION TO POLITICAL PHILOSOPHY/POLITICAL THEORY	2019 Summer
BSS	POLI 3H	HONORS INTRODUCTION TO POLITICAL PHILOSOPHY/POLITICAL THEORY	2019 Summer
		POLITICAL ECONOMY	
BSS	POLI 9	*Note: cross-listed w/ ECON 9 (also on the list)—please submit the same updates to both CORs*	2019 Summer
		HONORS POLITICAL ECONOMY	
BSS	POLI 9H	*Note: cross-listed w/ ECON 9H (also on the list)—please submit the same updates to both CORs*	2019 Summer
BSS	POLI 15	INTERNATIONAL RELATIONS/WORLD POLITICS	2019 Summer
BSS	PSYC 51	APPLIED RESEARCH EXPERIENCE	2019 Summer
		INDEPENDENT STUDY IN PSYCHOLOGY	
BSS	PSYC 70R	*Note: just 70R needs submitted; I will copy any edits over to 71R, 72R & 73R*	2019 Summer
HSH	R T 50	ORIENTATION TO RADIATION SCIENCE TECHNOLOGIES	2019 Summer
HSH	R T 51A	FUNDAMENTALS OF RADIOLOGIC TECHNOLOGY I	2019 Summer
HSH	R T 51B	FUNDAMENTALS OF RADIOLOGIC TECHNOLOGY II	2019 Summer
HSH	R T 51C	FUNDAMENTALS OF RADIOLOGIC TECHNOLOGY III	2019 Summer
HSH	R T 53	ORIENTATION TO RADIOLOGIC TECHNOLOGY	2019 Summer
HSH	R T 53AL	APPLIED RADIOGRAPHIC TECHNOLOGY LABORATORY I	2019 Summer
HSH	R T 53BL	APPLIED RADIOGRAPHIC TECHNOLOGY LABORATORY II	2019 Summer
HSH	R T 53CL	APPLIED RADIOGRAPHIC TECHNOLOGY LABORATORY III	2019 Summer
HSH	R T 54B	LAW & ETHICS IN MEDICAL IMAGING	2019 Summer
		INDEPENDENT STUDY IN SOCIOLOGY	
BSS	SOC 70R	*Note: just 70R needs submitted; I will copy any edits over to 71R, 72R & 73R*	2019 Summer
		INDEPENDENT STUDY IN SOCIAL SCIENCE	
BSS	SOSC 70R	*Note: just 70R needs submitted; I will copy any edits over to 71R, 72R & 73R*	2019 Summer
FA	THTR 7	INTRODUCTION TO DIRECTING	2019 Summer
FA	THTR 48G	INTRODUCTION TO VOICE-OVER ACTING	2019 Summer
		INDEPENDENT STUDY IN THEATRE ARTS	
FA	THTR 70R	*Note: just 70R needs submitted; I will copy any edits over to 71R, 72R & 73R*	2019 Summer
		INDEPENDENT STUDY IN VETERINARY TECHNOLOGY	
HSH	V T 70R	*Note: just 70R needs submitted; I will copy any edits over to 71R, 72R & 73R*	2019 Summer

FOOTHILL COLLEGE GENERAL EDUCATION & GRADUATION REQUIREMENTS

The Foothill College general education (GE) pattern is designed to ensure that students meet the four institutional/general education student learning outcomes:

a. **Communication:** Demonstrate analytical reading and writing skills, including evaluation, synthesis and research; deliver focused and coherent presentations; and demonstrate active, discerning listening and speaking skills in lectures and discussions.

b. **Computation:** Demonstrate complex problem-solving skills, technology skills, computer proficiency and decision analysis through synthesis and evaluation; apply mathematical concepts and reasoning; and analyze and use numerical data.

c. **Creative, Critical & Analytical Thinking:** Demonstrate judgment, decision-making skills and intellectual curiosity; demonstrate problem-solving skills through analysis, synthesis and evaluation; develop creativity and aesthetic awareness; conduct research methodology; and identify and respond to a variety of learning styles and strategies.

d. **Community/Global Consciousness & Responsibility:** Demonstrate social perceptiveness, including citizenship, community service, cultural awareness, empathy, ethics, interpersonal skills, personal integrity, respect, self-esteem and sensitivity; and exhibit interest in and pursuit of lifelong learning.

Completion of the Foothill College general education pattern requires that students successfully earn a minimum of 30 units from the courses listed below, with at least one course in humanities, English, natural sciences (with laboratory), social and behavioral sciences, communication and analytical thinking, United States cultures and communities, and two courses in lifelong learning from two different academic departments. Courses may only be used in one area.

Code	Title	Units
I. Humanities		
ART 1	INTRODUCTION TO ART	4.5
ART 2A	HISTORY OF ART: HISTORY OF WESTERN ART FROM PREHISTORY THROUGH EARLY CHRISTIANITY	4.5
or ART 2AH	HONORS HISTORY OF ART: HISTORY OF WESTERN ART FROM PREHISTORY THROUGH EARLY CHRISTIANITY	
ART 2B	HISTORY OF WESTERN ART FROM THE MIDDLE AGES TO THE RENAISSANCE	4.5
or ART 2BH	HONORS HISTORY OF WESTERN ART FROM THE MIDDLE AGES TO THE RENAISSANCE	
ART 2C	HISTORY OF WESTERN ART FROM THE BAROQUE TO CONTEMPORARY	4.5
ART 2D	AFRICAN, OCEANIC & NATIVE AMERICAN ART	4.5
ART 2E	A HISTORY OF WOMEN IN ART	4.5
ART 2F	INTRODUCTION TO ASIAN ART	4.5
ART 2J	AMERICAN ART	4.5
ART 4A	FUNDAMENTALS IN DRAWING	4
ART 4G	MURAL MAKING: COMMUNITY ART PROJECT	4
ART 5A	2-D FOUNDATIONS	4
ART 5B	3-D FOUNDATIONS	4
ART 20	COLOR THEORY	4
ART 45B	BEGINNING CERAMICS POTTER'S WHEEL	4
BUSI 70	BUSINESS & PROFESSIONAL ETHICS	4
CRWR 6	INTRODUCTION TO CREATIVE WRITING	5
CRWR 25A	POETRY IN COMMUNITY	5
CRWR 39A	INTRODUCTION TO SHORT FICTION WRITING	5
CRWR 41A	POETRY WRITING	5
DANC 10	TOPICS IN DANCE HISTORY	5
ENGL 5	LOUD & QUEER: LITERATURE OF SEXUAL/GENDER IDENTITY	4
ENGL 7	NATIVE AMERICAN LITERATURE	4
ENGL 10A	LITERATURE & THE ENVIRONMENT	4
ENGL 12	AFRICAN AMERICAN LITERATURE	4
ENGL 12A	ALL POWER TO THE PEOPLE: LITERATURE OF THE BLACK PANTHER PARTY	4
ENGL 14	TRAVELING THE WORLD THROUGH CONTEMPORARY LITERATURE	4
ENGL 16	INTRODUCTION TO LITERATURE	4
ENGL 17	INTRODUCTION TO SHAKESPEARE	4
ENGL 22	WOMEN WRITERS	4
ENGL 24	UNMASKING COMICS: THE DAWN OF THE GRAPHIC NOVEL	4
ENGL 27G	DETECTIVE & MYSTERY FICTION	4
ENGL 31	LATINO/A LITERATURE	4
ENGL 34C	LITERATURE INTO FILM	4
ENGL 37	SCIENCE FICTION LITERATURE: REIMAGINEERING REALITY	4
ENGL 38	LITERATURE OF PROTEST	4
ENGL 40	ASIAN AMERICAN LITERATURE	4
ENGL 43A	SURVEY OF BRITISH LITERATURE I: BEOWULF TO THE LATE 18TH CENTURY	5
or ENGL 43AH	HONORS SURVEY OF BRITISH LITERATURE I: BEOWULF TO THE LATE 18TH CENTURY	
ENGL 43B	SURVEY OF BRITISH LITERATURE II: THE ROMANTIC PERIOD TO THE PRESENT	5
or ENGL 43BH	HONORS SURVEY OF BRITISH LITERATURE II: THE ROMANTIC PERIOD TO THE PRESENT	
ENGL 45A	SURVEY OF AMERICAN LITERATURE I: BEGINNINGS TO 1865	5
or ENGL 45AH	HONORS SURVEY OF AMERICAN LITERATURE I: BEGINNINGS TO 1865	
ENGL 45B	SURVEY OF AMERICAN LITERATURE II: 1865 TO THE PRESENT	5
or ENGL 45BH	HONORS SURVEY OF AMERICAN LITERATURE II: 1865 TO THE PRESENT	
ENGL 49	CALIFORNIA LITERATURE: GOLDEN STATE CULTURES, GEOGRAPHIES & HISTORIES	4
ETHN 1	INTRODUCTION TO ETHNIC STUDIES	4
ETHN 2	INTRODUCTION TO AFRICAN AMERICAN STUDIES	4
ETHN 3	INTRODUCTION TO LATINX STUDIES	4
ETHN 4	INTRODUCTION TO NATIVE AMERICAN STUDIES	4

ETHN 5	INTRODUCTION TO ASIAN AMERICAN STUDIES	4
ETHN 7	INTRODUCTION TO PACIFIC ISLANDS & OCEANIA STUDIES	4
GID 1	HISTORY OF GRAPHIC DESIGN	4
HUMN 1	CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD	4
or HUMN 1H	HONORS CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD	
HUMN 2	CULTURES, CIVILIZATIONS & IDEAS: OF EMPIRES & CONFLICT	4
HUMN 3	WORLD MYTHS IN LITERATURE ARTS & FILM	4
or HUMN 3H	HONORS WORLD MYTHS IN LITERATURE ARTS & FILM	
HUMN 4	TRAUMA & THE ARTS	4
or HUMN 4H	HONORS TRAUMA & THE ARTS	
HUMN 5	CULTURES, CIVILIZATIONS & IDEAS: THE MODERN WORLD	4
or HUMN 5H	HONORS CULTURES, CIVILIZATIONS & IDEAS: THE MODERN WORLD	
HUMN 6	THE SHOCK OF THE NEW: FROM THE MODERN TO THE CONTEMPORARY	4
HUMN 7	GLOBAL RELIGIONS: CONTEMPORARY PRACTICES & PERSPECTIVES	4
or HUMN 7H	HONORS GLOBAL RELIGIONS: CONTEMPORARY PRACTICES & PERSPECTIVES	
HUMN 8	EX MACHINA: THE PARADOX OF BEING HUMAN IN THE DIGITAL AGE	4
HUMN 9	ONCE UPON A TIME? THE IMMORTAL LURE OF FAIRY TALES	4
HUMN 10	ON THE MOVE: THE IMMIGRANT EXPERIENCE IN LITERATURE, FILM & MULTIMEDIA	4
HUMN 11	INTRODUCTION TO POPULAR CULTURE	4
or HUMN 11H	HONORS INTRODUCTION TO POPULAR CULTURE	
HUMN 13	VIDEO GAMES & POPULAR CULTURE	4
HUMN 14	THE ART OF PEACE: NARRATIVE REPRESENTATIONS OF PACIFISM	4
JAPN 14A	ADVANCED CONVERSATION I	4
JAPN 14B	ADVANCED CONVERSATION II	4
KINS 5	SPORTS & CINEMA	4
MDIA 1	INTRODUCTION TO FILM STUDIES	4
or MDIA 1H	HONORS INTRODUCTION TO FILM STUDIES	
MDIA 2A	HISTORY OF FILM 1895-1945	4
MDIA 2B	HISTORY OF FILM 1945-CURRENT	4
MDIA 2C	CURRENT TRENDS IN FILM, TV & THE INTERNET	4
MDIA 4	EXPERIMENTAL FILM & VIDEO	4
MDIA 7	DOCUMENTARY FILM	4
MDIA 11	INTRODUCTION TO POPULAR CULTURE	4
or MDIA 11H	HONORS INTRODUCTION TO POPULAR CULTURE	
MDIA 13	VIDEO GAMES & POPULAR CULTURE	4
MUS 1	INTRODUCTION TO MUSIC	4
MUS 2A	GREAT COMPOSERS & MUSIC MASTERPIECES	5
or MUS 2AH	HONORS GREAT COMPOSERS & MUSIC MASTERPIECES	
MUS 2B	GREAT COMPOSERS & MUSIC MASTERPIECES	5
or MUS 2BH	HONORS GREAT COMPOSERS & MUSIC MASTERPIECES	
MUS 2C	GREAT COMPOSERS & MUSIC MASTERPIECES	5
or MUS 2CH	HONORS GREAT COMPOSERS & MUSIC MASTERPIECES	
MUS 2D	WORLD MUSIC: ROOTS TO CONTEMPORARY GLOBAL FUSION	5
MUS 2F	HISTORY OF AMERICAN MUSICAL THEATRE	4
MUS 7F	MUSIC IN FILM	4
MUS 8	MUSIC OF AMERICAN CULTURES	5
or MUS 8H	HONORS MUSIC OF AMERICAN CULTURES	
MUS 11D	HISTORY OF ELECTRONIC MUSIC: ORIGINS-1970	4
MUS 11E	HISTORY OF ELECTRONIC MUSIC: 1970-PRESENT	4
PHIL 2	INTRODUCTION TO SOCIAL & POLITICAL PHILOSOPHY	4
PHIL 4	INTRODUCTION TO PHILOSOPHY	4
PHIL 11	INTRODUCTION TO THE PHILOSOPHY OF ART & AESTHETICS	4
PHIL 20A	HISTORY OF WESTERN PHILOSOPHY FROM SOCRATES THROUGH ST. THOMAS	4
PHIL 20B	HISTORY OF WESTERN PHILOSOPHY FROM THE RENAISSANCE THROUGH KANT	4
PHIL 24	COMPARATIVE WORLD RELIGIONS: EAST	4
PHIL 25	COMPARATIVE WORLD RELIGIONS: WEST	4
PHOT 5	INTRODUCTION TO PHOTOGRAPHY	4
PHOT 8	PHOTOGRAPHY OF AMERICAN CULTURES	5
or PHOT 8H	HONORS PHOTOGRAPHY OF AMERICAN CULTURES	
PHOT 10	HISTORY OF PHOTOGRAPHY	4
or PHOT 10H	HONORS HISTORY OF PHOTOGRAPHY	
PHOT 11	CONTEMPORARY ISSUES IN PHOTOGRAPHY	4
or PHOT 11H	HONORS CONTEMPORARY ISSUES IN PHOTOGRAPHY	
SPAN 4	INTERMEDIATE SPANISH I	5
SPAN 5	INTERMEDIATE SPANISH II	5
SPAN 6	INTERMEDIATE SPANISH III	5
SPAN 13A	INTERMEDIATE CONVERSATION I	4
SPAN 13B	INTERMEDIATE CONVERSATION II	4
SPAN 14A	ADVANCED CONVERSATION I	4
SPAN 14B	ADVANCED CONVERSATION II	4
THTR 1	INTRODUCTION TO THEATRE	4
THTR 2A	HISTORY OF DRAMATIC LITERATURE: CLASSICAL TO MOLIERE	4
THTR 2F	HISTORY OF AMERICAN MUSICAL THEATRE	4
THTR 8	MULTICULTURAL THEATRE ARTS IN MODERN AMERICA	4
THTR 26	INTRODUCTION TO FASHION HISTORY & COSTUME DESIGN	4

II. English

ENGL 1A	COMPOSITION & READING	5
or ENGL 1AH	HONORS COMPOSITION & READING	
ESLL 26	ADVANCED COMPOSITION & READING	5

Additionally, students who complete the major requirements for the Apprenticeship - Plumbing Technology program will satisfy Area II.

III. Natural Sciences (with Laboratory)

ANTH 1 & 1L	INTRODUCTION TO PHYSICAL ANTHROPOLOGY and PHYSICAL ANTHROPOLOGY LABORATORY	5
or ANTH 1H & 1HL	HONORS INTRODUCTION TO PHYSICAL ANTHROPOLOGY and HONORS PHYSICAL ANTHROPOLOGY LABORATORY	
ANTH 13 & 13L	INTRODUCTION TO FORENSIC ANTHROPOLOGY and FORENSIC ANTHROPOLOGY LABORATORY	5
ASTR 10A & ASTR 10L	GENERAL ASTRONOMY: SOLAR SYSTEM and ASTRONOMY LABORATORY	6
ASTR 10B & ASTR 10L	GENERAL ASTRONOMY: STARS, GALAXIES, COSMOLOGY and ASTRONOMY LABORATORY	6
or ASTR 10BH & ASTR 10L	HONORS GENERAL ASTRONOMY: STARS, GALAXIES, COSMOLOGY and ASTRONOMY LABORATORY	
BIOL 9 & 9L	ENVIRONMENTAL BIOLOGY and ENVIRONMENTAL BIOLOGY LABORATORY	5
BIOL 10	GENERAL BIOLOGY: BASIC PRINCIPLES	5
BIOL 13	MARINE BIOLOGY	5
BIOL 14	HUMAN BIOLOGY	5
BIOL 15	CALIFORNIA ECOLOGY/NATURAL HISTORY	5
BIOL 41	MICROBIOLOGY	6
CHEM 1A	GENERAL CHEMISTRY	5
CHEM 25	FUNDAMENTALS OF CHEMISTRY	5
CHEM 30A	SURVEY OF INORGANIC & ORGANIC CHEMISTRY	5
GEOG 1	PHYSICAL GEOGRAPHY	5
HORT 15	ORIENTATION TO ENVIRONMENTAL HORTICULTURE	4
PHYS 2A	GENERAL PHYSICS	5
PHYS 4A	GENERAL PHYSICS (CALCULUS)	6
PSE 20	INTRODUCTION TO PHYSICAL SCIENCE	5

Additionally, students who complete the major requirements for the Apprenticeship - Plumbing Technology program will satisfy Area III.

IV. Social and Behavioral Sciences

ANTH 2A	CULTURAL ANTHROPOLOGY	4
or ANTH 2AH	HONORS CULTURAL ANTHROPOLOGY	
ANTH 2B	PATTERNS OF CULTURE	4
ANTH 3	WORLD PREHISTORY: THE RISE & FALL OF EARLY CIVILIZATIONS	4
ANTH 5	MAGIC, SCIENCE & RELIGION	4
ANTH 8	INTRODUCTION TO ARCHAEOLOGY	4
or ANTH 8H	HONORS INTRODUCTION TO ARCHAEOLOGY	
ANTH 12	APPLIED ANTHROPOLOGY	4
ANTH 14	LINGUISTIC ANTHROPOLOGY	4
ANTH 15	MEDICAL ANTHROPOLOGY: METHODS & PRACTICE	4
ANTH 20	NATIVE PEOPLES OF CALIFORNIA	4
ANTH 22	THE AZTEC, MAYA, INCA & THEIR PREDECESSORS: CIVILIZATIONS OF THE AMERICAS	4
BUSI 22	PRINCIPLES OF BUSINESS	5
or BUSI 22H	HONORS PRINCIPLES OF BUSINESS	
CHLD 1	CHILD GROWTH & DEVELOPMENT: PRENATAL THROUGH EARLY CHILDHOOD	4

CHLD 2	CHILD GROWTH & DEVELOPMENT II: MIDDLE CHILDHOOD THROUGH ADOLESCENCE	4
CNSL 3	IDENTITY, CULTURE & EDUCATION	4.5
or CNSL 3H	HONORS IDENTITY, CULTURE & EDUCATION	
ECON 1A	PRINCIPLES OF MACROECONOMICS	5
ECON 1B	PRINCIPLES OF MICROECONOMICS	5
ECON 9	POLITICAL ECONOMY	4
or ECON 9H	HONORS POLITICAL ECONOMY	
ECON 25	THE GLOBAL ECONOMY	4
GEOG 2	HUMAN GEOGRAPHY	4
GEOG 5	INTRODUCTION TO ECONOMIC GEOGRAPHY	4
GEOG 10	WORLD REGIONAL GEOGRAPHY	4
HIST 3A	WORLD HISTORY FROM PREHISTORY TO 750 CE	4
HIST 3B	WORLD HISTORY FROM 750 CE TO 1750 CE	4
HIST 3C	WORLD HISTORY FROM 1750 CE TO THE PRESENT	4
HIST 4A	HISTORY OF WESTERN CIVILIZATION TO 800 CE	4
HIST 4B	HISTORY OF WESTERN CIVILIZATION: 700-1800	4
HIST 4C	HISTORY OF WESTERN CIVILIZATION 1789-PRESENT	4
HIST 8	HISTORY OF LATIN AMERICA	4
HIST 10	HISTORY OF CALIFORNIA: THE MULTICULTURAL STATE	4
HIST 17A	HISTORY OF THE UNITED STATES TO 1815	4
HIST 17B	HISTORY OF THE UNITED STATES FROM 1812 TO 1914	4
HIST 17C	HISTORY OF THE UNITED STATES FROM 1914 TO THE PRESENT	4
HIST 18	INTRODUCTION TO MIDDLE EASTERN CIVILIZATION	4
HIST 20	HISTORY OF RUSSIA & THE SOVIET UNION	4
KINS 2	SPORT IN SOCIETY	5
KINS 10	WOMEN IN SPORTS	5
KINS 51	PERFORMANCE ENHANCING SUBSTANCES IN SPORT & EXERCISE	4
POLI 1	POLITICAL SCIENCE: INTRODUCTION TO AMERICAN GOVERNMENT & POLITICS	5
POLI 3	INTRODUCTION TO POLITICAL PHILOSOPHY/POLITICAL THEORY	5
or POLI 3H	HONORS INTRODUCTION TO POLITICAL PHILOSOPHY/POLITICAL THEORY	
POLI 4	CALIFORNIA POLITICS & GOVERNMENT	5
POLI 9	POLITICAL ECONOMY	4
or POLI 9H	HONORS POLITICAL ECONOMY	
POLI 15	INTERNATIONAL RELATIONS/WORLD POLITICS	4
or POLI 15H	HONORS INTERNATIONAL RELATIONS/WORLD POLITICS	
PSYC 1	GENERAL PSYCHOLOGY	5
or PSYC 1H	HONORS GENERAL PSYCHOLOGY	
PSYC 2	CULTURAL PSYCHOLOGY	4
PSYC 4	INTRODUCTION TO BIOPSYCHOLOGY	5
PSYC 9	POSITIVE PSYCHOLOGY	4
PSYC 10	RESEARCH METHODS & DESIGNS	5
PSYC 14	CHILD & ADOLESCENT DEVELOPMENT	4

PSYC 21	PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES	4
PSYC 22	PSYCHOLOGY OF PREJUDICE & DISCRIMINATION	4
PSYC 25	INTRODUCTION TO ABNORMAL PSYCHOLOGY	4
PSYC 30	SOCIAL PSYCHOLOGY	4
PSYC 33	INTRODUCTION TO PERSONALITY PSYCHOLOGY	4
PSYC 40	HUMAN DEVELOPMENT	5
PSYC 49	HUMAN SEXUALITY	4
SOC 1	INTRODUCTION TO SOCIOLOGY	5
or SOC 1H	HONORS INTRODUCTION TO SOCIOLOGY	
SOC 10	SOCIAL RESEARCH METHODS & DESIGNS	5
SOC 11	INTRODUCTION TO SOCIAL WELFARE	5
SOC 15	LAW & SOCIETY	4
SOC 19	ALCOHOL & DRUG ABUSE	4
SOC 20	MAJOR SOCIAL PROBLEMS	4
SOC 23	RACE & ETHNIC RELATIONS	4
SOC 28	SOCIOLOGY OF GENDER	4
SOC 30	SOCIAL PSYCHOLOGY	4
SOC 40	ASPECTS OF MARRIAGE & FAMILY	4
SOC 45	SOCIOLOGY OF SEXUALITY	4
WMN 5	INTRODUCTION TO WOMEN'S STUDIES	4
WMN 21	PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES	4

Additionally, students who complete the major requirements for the Apprenticeship - Plumbing Technology program will satisfy Area IV.

V. Communication and Analytical Thinking

COMM 1A	PUBLIC SPEAKING	5
or COMM 1AH	HONORS PUBLIC SPEAKING	
COMM 1B	ARGUMENTATION & PERSUASION	5
COMM 2	INTERPERSONAL COMMUNICATION	5
COMM 3	INTRODUCTION TO COMMUNICATION STUDIES	5
COMM 4	GROUP DISCUSSION	5
COMM 55	CAREER & LEADERSHIP COMMUNICATION IN THE GLOBAL WORKPLACE	5
C S 1A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN JAVA	4.5
C S 1B	INTERMEDIATE SOFTWARE DESIGN IN JAVA	4.5
C S 1C	ADVANCED DATA STRUCTURES & ALGORITHMS IN JAVA	4.5
C S 2A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN C++	4.5
C S 2B	INTERMEDIATE SOFTWARE DESIGN IN C++	4.5
C S 2C	ADVANCED DATA STRUCTURES & ALGORITHMS IN C++	4.5
C S 3A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN PYTHON	4.5
C S 18	DISCRETE MATHEMATICS	5
ENGL 1B	COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE	5
or ENGL 1BH	HONORS COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE	
ENGL 50C	TECHNICAL WRITING	5
GEOG 11	INTRODUCTION TO MAPPING & SPATIAL REASONING	4

GIST 11	INTRODUCTION TO MAPPING & SPATIAL REASONING	4
MATH 1A	CALCULUS	5
or MATH 1AH	HONORS CALCULUS I	
MATH 1B	CALCULUS	5
or MATH 1BH	HONORS CALCULUS II	
MATH 1C	CALCULUS	5
MATH 10	ELEMENTARY STATISTICS	5
MATH 12	CALCULUS FOR BUSINESS & ECONOMICS	5
MATH 17	INTEGRATED STATISTICS II	5
MATH 22	DISCRETE MATHEMATICS	5
MATH 40A	QUANTITATIVE REASONING	5
MATH 44	MATH FOR THE LIBERAL ARTS	5
MATH 48A	PRECALCULUS I	5
MATH 48B	PRECALCULUS II	5
MATH 48C	PRECALCULUS III	5
MDIA 3	INTRODUCTION TO FILM & MEDIA CRITICISM	4
PHIL 1	CRITICAL THINKING & WRITING	5
PHIL 7	INTRODUCTION TO SYMBOLIC LOGIC	5
PSYC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	5
SOC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	5

Additionally, students who complete the major requirements for the Apprenticeship - Plumbing Technology program will satisfy Area V.

VI. United States Cultures and Communities

CHLD 51A	AFFIRMING DIVERSITY IN EDUCATION	4
CNSL 3	IDENTITY, CULTURE & EDUCATION	4.5
or CNSL 3H	HONORS IDENTITY, CULTURE & EDUCATION	
COMM 10	GENDER, COMMUNICATION & CULTURE	5
COMM 12	INTERCULTURAL COMMUNICATION	5
ENGL 7	NATIVE AMERICAN LITERATURE	4
ENGL 12	AFRICAN AMERICAN LITERATURE	4
ENGL 12A	ALL POWER TO THE PEOPLE: LITERATURE OF THE BLACK PANTHER PARTY	4
ENGL 40	ASIAN AMERICAN LITERATURE	4
ENGL 45A	SURVEY OF AMERICAN LITERATURE I: BEGINNINGS TO 1865	5
or ENGL 45AH	HONORS SURVEY OF AMERICAN LITERATURE I: BEGINNINGS TO 1865	
ENGL 45B	SURVEY OF AMERICAN LITERATURE II: 1865 TO THE PRESENT	5
or ENGL 45BH	HONORS SURVEY OF AMERICAN LITERATURE II: 1865 TO THE PRESENT	
ETHN 1	INTRODUCTION TO ETHNIC STUDIES	4
ETHN 2	INTRODUCTION TO AFRICAN AMERICAN STUDIES	4
ETHN 3	INTRODUCTION TO LATINX STUDIES	4
ETHN 4	INTRODUCTION TO NATIVE AMERICAN STUDIES	4
ETHN 5	INTRODUCTION TO ASIAN AMERICAN STUDIES	4
ETHN 7	INTRODUCTION TO PACIFIC ISLANDS & OCEANIA STUDIES	4
ETHN 8	INTRODUCTION TO LAND & LABOR	4
HIST 10	HISTORY OF CALIFORNIA: THE MULTICULTURAL STATE	4
HUMN 12	POPULAR CULTURE & UNITED STATES HISTORY	4
MDIA 8A	RACE & GENDER IN AMERICAN MEDIA	4

MDIA 12	POPULAR CULTURE & UNITED STATES HISTORY	4
MUS 8	MUSIC OF AMERICAN CULTURES	5
or MUS 8H	HONORS MUSIC OF AMERICAN CULTURES	
PHOT 8	PHOTOGRAPHY OF AMERICAN CULTURES	5
or PHOT 8H	HONORS PHOTOGRAPHY OF AMERICAN CULTURES	
PSYC 22	PSYCHOLOGY OF PREJUDICE & DISCRIMINATION	4
SOC 8	POPULAR CULTURE	4
SOC 23	RACE & ETHNIC RELATIONS	4
THTR 8	MULTICULTURAL THEATRE ARTS IN MODERN AMERICA	4
WMN 5	INTRODUCTION TO WOMEN'S STUDIES	4

Additionally, students who complete the major requirements for the Apprenticeship - Plumbing Technology program will satisfy Area VI.

VII. Lifelong Learning

The student must successfully complete a total of four units or more in lifelong learning from two different academic departments. For the purpose of this area, ATHL, DANC, PHDA and PHED will be considered one academic department.

ATHL 4	INTERCOLLEGIATE FOOTBALL I (MEN)	2
ATHL 4A	PRESEASON CONDITIONING FOR FOOTBALL	2
ATHL 4B	SPORT TECHNIQUES & CONDITIONING FOR FOOTBALL	2
ATHL 4C	FUNCTIONAL FITNESS FOR FOOTBALL	1
ATHL 4E	INTERCOLLEGIATE FOOTBALL (MEN)	1
ATHL 4F	INTERCOLLEGIATE FOOTBALL II (MEN)	3
ATHL 11	INTERCOLLEGIATE BASKETBALL I (MEN)	3
ATHL 11A	PRESEASON CONDITIONING FOR MEN'S BASKETBALL	2
ATHL 11B	SPORT TECHNIQUES & CONDITIONING FOR MEN'S BASKETBALL	2
ATHL 12	INTERCOLLEGIATE BASKETBALL I (WOMEN)	3
ATHL 12A	PRESEASON CONDITIONING FOR WOMEN'S BASKETBALL	2
ATHL 12B	SPORT TECHNIQUES & CONDITIONING FOR WOMEN'S BASKETBALL	2
ATHL 12E	INTERCOLLEGIATE BASKETBALL (WOMEN)	1
ATHL 21	INTERCOLLEGIATE SOCCER I (MEN)	2
ATHL 21A	PRESEASON CONDITIONING FOR MEN'S SOCCER	2
ATHL 21B	SPORT TECHNIQUES & CONDITIONING FOR MEN'S SOCCER	2
ATHL 21C	FUNCTIONAL FITNESS FOR MEN'S SOCCER	1
ATHL 21F	INTERCOLLEGIATE SOCCER II (MEN)	3
ATHL 22	INTERCOLLEGIATE SOCCER I (WOMEN)	2
ATHL 22A	PRESEASON CONDITIONING FOR WOMEN'S SOCCER	2
ATHL 22B	SPORT TECHNIQUES & CONDITIONING FOR WOMEN'S SOCCER	2
ATHL 22C	FUNCTIONAL FITNESS FOR WOMEN'S SOCCER	1
ATHL 22F	INTERCOLLEGIATE SOCCER II (WOMEN)	3
ATHL 31	INTERCOLLEGIATE SOFTBALL I (WOMEN)	3
ATHL 31A	PRESEASON CONDITIONING FOR SOFTBALL	2
ATHL 31C	FUNCTIONAL FITNESS FOR SOFTBALL	1
ATHL 31E	INTERCOLLEGIATE SOFTBALL (WOMEN)	1
ATHL 31F	INTERCOLLEGIATE SOFTBALL II (WOMEN)	2
ATHL 32	INTERCOLLEGIATE SWIMMING I (MEN & WOMEN)	3
ATHL 32A	PRESEASON CONDITIONING FOR SWIMMING	2
ATHL 32C	FUNCTIONAL FITNESS FOR SWIMMING	1
ATHL 32F	INTERCOLLEGIATE SWIMMING II (MEN & WOMEN)	2
ATHL 33	INTERCOLLEGIATE WATER POLO I (WOMEN)	2
ATHL 33A	PRESEASON CONDITIONING FOR WOMEN'S WATER POLO	2
ATHL 33B	SPORT TECHNIQUES & CONDITIONING FOR WOMEN'S WATER POLO	2
ATHL 33C	FUNCTIONAL FITNESS FOR WOMEN'S WATER POLO	1
ATHL 33F	INTERCOLLEGIATE WATER POLO II (WOMEN)	3
ATHL 41A	INTERCOLLEGIATE SAND VOLLEYBALL I (WOMEN)	2
ATHL 41B	INTERCOLLEGIATE SAND VOLLEYBALL II (WOMEN)	3
ATHL 42	INTERCOLLEGIATE VOLLEYBALL I (WOMEN)	2
ATHL 42B	SPORT TECHNIQUES & CONDITIONING FOR WOMEN'S VOLLEYBALL	2
ATHL 42C	FUNCTIONAL FITNESS FOR WOMEN'S VOLLEYBALL	1
ATHL 42F	INTERCOLLEGIATE VOLLEYBALL II (WOMEN)	3
ATHL 44	INTERCOLLEGIATE TENNIS I (MEN)	3
ATHL 44A	PRESEASON CONDITIONING FOR MEN'S TENNIS	2
ATHL 44C	FUNCTIONAL FITNESS FOR MEN'S TENNIS	1
ATHL 44F	INTERCOLLEGIATE TENNIS II (MEN)	2
ATHL 45	INTERCOLLEGIATE TENNIS I (WOMEN)	3
ATHL 45A	PRESEASON CONDITIONING FOR WOMEN'S TENNIS	2
ATHL 45C	FUNCTIONAL FITNESS FOR WOMEN'S TENNIS	1
ATHL 45F	INTERCOLLEGIATE TENNIS II (WOMEN)	2
BIOL 8	BASIC NUTRITION	5
BIOL 9	ENVIRONMENTAL BIOLOGY	4
BIOL 12	HUMAN GENETICS	4
BIOL 81	LEARNERS ENGAGED IN ADVOCATING FOR DIVERSITY IN SCIENCE	4
CHEM 81	LEARNERS ENGAGED IN ADVOCATING FOR DIVERSITY IN SCIENCE	4
CNSL 1	COLLEGE SUCCESS	3
CNSL 56	LIFELONG LEARNING STRATEGIES	3
CNSL 72	STRESS, WELLNESS & COPING	3
CNSL 90	INTRODUCTION TO ONLINE LEARNING	1.5
COMM 2	INTERPERSONAL COMMUNICATION	5
COMM 10	GENDER, COMMUNICATION & CULTURE	5
COMM 12	INTERCULTURAL COMMUNICATION	5
COMM 55	CAREER & LEADERSHIP COMMUNICATION IN THE GLOBAL WORKPLACE	5
CRLP 7	SELF-ASSESSMENT	4
CRLP 73	EFFECTIVE RESUME WRITING	1
CRLP 74	SUCCESSFUL INTERVIEWING TECHNIQUES	1
DANC 1A	BEGINNING BALLET	1
DANC 1B	INTERMEDIATE BALLET	1
DANC 1C	ADVANCED BALLET	1
DANC 2A	BEGINNING MODERN DANCE	1
DANC 2B	INTERMEDIATE MODERN DANCE	1

Code	Title	Units
DANC 3A	BEGINNING JAZZ DANCE	1
DANC 3B	INTERMEDIATE JAZZ DANCE	1
DANC 4A	BEGINNING BALLROOM & SOCIAL DANCE	1
DANC 4B	INTERMEDIATE BALLROOM & SOCIAL DANCE	1
DANC 4C	ADVANCED BALLROOM & SOCIAL DANCE	1
DANC 7	CHOREOGRAPHY	1
DANC 13A	INTRODUCTION TO CONTEMPORARY DANCE	1
DANC 13B	INTERMEDIATE CONTEMPORARY DANCE	1
DANC 14	DANCE CONDITIONING	1
DANC 18A	INTRODUCTION TO HIP-HOP DANCE	1
DANC 18B	INTERMEDIATE HIP-HOP DANCE	1
HLTH 20	INTRODUCTION TO PUBLIC HEALTH	5
HLTH 21	CONTEMPORARY HEALTH CONCERNS	4
HLTH 22	HEALTH & SOCIAL JUSTICE	4
HLTH 23	DRUGS, HEALTH & SOCIETY	4
KINS 4	CONCEPTS OF PHYSICAL FITNESS & WELLNESS	4
KINS 16A	PREVENTION OF ATHLETIC INJURIES	3
KINS 16B	EMERGENCY ATHLETIC INJURY CARE	3
KINS 16C	TREATMENT & REHABILITATION OF ATHLETIC INJURIES	3
KINS 49	MANAGING PHYSICAL STRESS	3
LIBR 10	INTRODUCTION TO COLLEGE RESEARCH	1
or LIBR 10H	HONORS INTRODUCTION TO COLLEGE RESEARCH	
MATH 83	LEARNERS ENGAGED IN ADVOCATING FOR DIVERSITY IN SCIENCE	4
PHDA 15A	MODIFIED TOTAL FITNESS	1
PHDA 15B	INTERMEDIATE MODIFIED TOTAL FITNESS	1
PHDA 15C	PROGRESSIVE MODIFIED TOTAL FITNESS	1
PHDA 16	MODIFIED GENERAL CONDITIONING	1
PHDA 17	MODIFIED RESISTIVE EXERCISE	1
PHDA 18	INDIVIDUALIZED EXERCISE FOR SPECIAL POPULATIONS	1
PHDA 20	MODIFIED FUNCTIONAL FITNESS	1
PHDA 21A	MODIFIED AQUATICS	1
PHDA 21B	MODIFIED WATER EXERCISE	1
PHDA 23	MODIFIED AEROBIC EXERCISE	1
PHDA 24	MODIFIED STRETCHING & FLEXIBILITY	1
PHDA 25	BALANCE & FUNCTIONAL MOVEMENT	1
PHED 10A	AQUATICS: LEVEL I, BEGINNING SWIMMING	1
PHED 10B	AQUATICS: LEVEL II, INTERMEDIATE SWIMMING	1
PHED 10C	AQUATICS: LEVEL III, MASTERS SWIMMING/ ADVANCED SWIM TRAINING	1
PHED 11A	WATER EXERCISE	1
PHED 11B	AQUATIC FITNESS	1
PHED 11C	WATER AWARENESS	1
PHED 13	BEGINNING WATER POLO	1
PHED 13A	INTERMEDIATE WATER POLO	1
PHED 13C	WATER POLO: GAME SKILLS	1
PHED 15A	BEGINNING PICKLEBALL	1
PHED 15B	INTERMEDIATE PICKLEBALL	1
PHED 15C	ADVANCED PICKLEBALL	1
PHED 18	BEGINNING TAI CHI (TAIJI)	1
PHED 18B	INTERMEDIATE TAI CHI (TAIJI)	1
PHED 18C	ADVANCED TAI CHI (TAIJI)	1
PHED 20A	BEGINNING MAT PILATES	1
PHED 20B	INTERMEDIATE MAT PILATES	1
PHED 21	FOUNDATIONS OF YOGA	1
PHED 21A	BEGINNING HATHA YOGA	1
PHED 21B	INTERMEDIATE HATHA YOGA	1
PHED 21C	ADVANCED HATHA YOGA	1
PHED 21D	VINYASA FLOW YOGA	1
PHED 22	BEGINNING FLEXIBILITY & MOBILITY	1
PHED 22A	INTERMEDIATE FLEXIBILITY & MOBILITY	1
PHED 22B	PILATES & YOGA	1
PHED 22C	CORE CONDITIONING	1
PHED 22E	CROSS TRAINING FOR ENDURANCE	1
PHED 23A	TRAIL HIKING	1
PHED 23B	DAY HIKING	1
PHED 24	INTRODUCTION TO GOLF	1
PHED 24A	SWING DEVELOPMENT FOR THE EXPERIENCED GOLFER	1
PHED 24C	INTERMEDIATE GOLF COURSE PLAY	2
PHED 24D	ADVANCED GOLF COURSE PLAY	2
PHED 25A	SWING ANALYSIS	1
PHED 25B	BEGINNING GOLF COURSE PLAY	2
PHED 26	BEGINNING TENNIS SKILLS	1
PHED 26A	INTERMEDIATE TENNIS	1
PHED 26C	BEGINNING DOUBLES TENNIS	1
PHED 27	WALK FOR HEALTH	1
PHED 27A	RUN FOR FITNESS	1
PHED 27B	INTERMEDIATE RUN FOR FITNESS	1
PHED 27C	INTERMEDIATE WALK FOR HEALTH	1
PHED 31A	FUTSAL: INDOOR SOCCER BEGINNING	1
PHED 31B	FUTSAL: INDOOR SOCCER INTERMEDIATE	1
PHED 31C	FUTSAL: INDOOR SOCCER ADVANCED	1
PHED 33	BEGINNING TABLE TENNIS	1
PHED 33A	INTERMEDIATE TABLE TENNIS	1
PHED 33B	ADVANCED TABLE TENNIS	1
PHED 36A	BEGINNING ARCHERY	1
PHED 36B	INTERMEDIATE ARCHERY	1
PHED 36C	ADVANCED ARCHERY	1
PHED 37	BEGINNING BADMINTON: SINGLES & DOUBLES	1
PHED 37A	INTERMEDIATE BADMINTON: SINGLES & DOUBLES	1
PHED 37B	ADVANCED BADMINTON: SINGLES & DOUBLES	1
PHED 38A	BASKETBALL FUNDAMENTALS	1
PHED 38B	BASKETBALL GAME SKILLS	1
PHED 38C	BEGINNING BASKETBALL	1
PHED 40	BEGINNING VOLLEYBALL	1
PHED 40A	INTERMEDIATE VOLLEYBALL	1
PHED 40C	VOLLEYBALL: GAME SKILLS	1
PHED 41	INDOOR CYCLING: SPIN	1
PHED 41A	INDOOR CYCLING: HILLS & SPRINTS	1
PHED 41B	INTERMEDIATE INDOOR CYCLING	1
PHED 43A	ULTIMATE I	1

PHED 45	FITNESS FOR LIFE	1
PHED 45A	FOUNDATIONS OF STRENGTH & CONDITIONING	1
PHED 45C	CIRCUIT TRAINING	1
PHED 46	WEIGHT LIFTING FOR HEALTH & FITNESS	1
PHED 46A	INTERMEDIATE WEIGHT TRAINING FOR HEALTH & FITNESS	1
PHED 46B	ADVANCED WEIGHT LIFTING FOR HEALTH & FITNESS	1
PHED 47B	THIGHS, ABS & GLUTEUS (TAG)	1
PHED 47C	HIGH-INTENSITY INTERVAL TRAINING (HIIT)	1
PHED 49A	SURVIVOR TRAINING	1
PHED 49B	BOOT CAMP TRAINING	1
PSYC 49	HUMAN SEXUALITY	4
SOC 19	ALCOHOL & DRUG ABUSE	4
SOC 40	ASPECTS OF MARRIAGE & FAMILY	4

Additionally, students who complete the major requirements for the Apprenticeship - Plumbing Technology program will satisfy Area VII.

Minimum proficiency: ENGL 1A or ENGL 1AH or ESLL 26; college-level math course at or above the level of Intermediate Algebra.

It is imperative to note that the Foothill College general education pattern is only appropriate for students pursuing the Foothill College associate in arts or associate in science degree. However, it is not appropriate for students pursuing an A.A.−T or A.S.−T degree. Students planning to earn an A.A.−T or A.S.−T must complete either the IGETC or CSU GE Breadth general education pattern. Note that completion of the IGETC or CSU GE Breadth pattern may also be used to satisfy the general education requirements for the Foothill A.A./A.S. degree. **Because there are significant differences between the three patterns, students are strongly advised to meet with a counselor to determine which pattern will best meet the student's goals.**

Effective Summer Session 2023

FOOTHILL COLLEGE
CHANGES TO GENERAL EDUCATION & GRADUATION REQUIREMENTS 2023-24

Area I - Humanities
- Added: ART 2D, ART 20, ETHN 7
- Removed (deactivated): ART 20B, ENGL 47A, ENGL 47AH, ENGL 47B, ENGL 47BH

Area II - English
- Removed (deactivated): ENGL 1S, ENGL 1T

Area III - Natural Sciences (with laboratory)
- Added: HORT 15

Area IV - Social & Behavioral Sciences
- Removed (deactivated): BUSI 53, HIST 17CH

Area V - Communication & Analytical Thinking
- Updated: MATH 80 renumbered to MATH 40A
- Removed (deactivated): COMM 1BH

Area VI - United States Cultures & Communities
- Added: ETHN 7, ETHN 8

Area VII - Lifelong Learning
- Removed (deactivated): ATHL 44B, CNSL 52, DANC 6, PHED 17A, PHED 17B, PHED 19B, PHED 19C, PHED 19D, PHED 21E, PHED 42

Methods of Evaluation & Methods of Instruction sections - updated language on COR form (live in CourseLeaf system):

Methods of Evaluation	**Methods of Evaluation may include but are not limited to the following:**
	Journals
	Tests and quizzes
	Write a total of at least 6,000 words: a minimum of three untimed, formal essays (in-class or online) and two timed, informal essay exams (in-class or online)
	Final examination: a composition or other written project to be completed within the allotted two hour period
Methods of Instruction	**Methods of Instruction may include but are not limited to the following:**
	Lectures
	Discussions
	Structured small-group-exercises

Methods of Evaluation & Methods of Instruction sections - new language added on published COR in online catalog (will display starting with upcoming 2023-24 catalog):

Method(s) of Evaluation

Methods of Evaluation may include but are not limited to the following:

Journals
Tests and quizzes
Write a total of at least 6,000 words: a minimum of three untimed, formal essays (in-class or online) and two timed, informal essay exams (in-class or online)
Final examination: a composition or other written project to be completed within the allotted two hour period

Method(s) of Instruction

Methods of Instruction may include but are not limited to the following:

Lectures
Discussions
Structured small-group-exercises

Other Required Materials section - name changed to Other Materials on COR form (live in CourseLeaf system):

Representative Text(s)

Please provide justification for any texts that are older than 5 years

Other Materials

Note: no changes to corresponding section name on published COR in online catalog (which combines the three sections shown in the screenshot above):

Representative Text(s) and Other Materials

Foothill College
Credit Program Narrative
Certificate of Achievement in Commercial Photography

Item 1. Program Goals and Objectives

The Certificate of Achievement in Commercial Photography prepares students to be commercial photographers, photo studio managers, and studio assistants in commercial photography and provides the opportunity to gain skills necessary to advance their careers. Students could have specialization in the areas of advertising, product, portrait, architecture, food, event, and fashion photography, among others. Students develop skills in the operation of current photographic equipment, including electronic strobes and digital capture. By completing the Certificate of Achievement in Commercial Photography, students will be able to work in a commercial photographic studio or start their own photographic business.

Program Learning Outcomes:
- Graduates will be able to employ principles of lighting, camera usage, digital adjustments, and studio photography, to create photographs to clients' specification for use in print and electronic media.
- Graduates will be able to utilize professional tools of photographic capture and lighting to set up and adjust the photographic studio, including troubleshooting lighting challenges and post-processing studio images for presentation.
- Graduates will be able to demonstrate ability to use all photographic studio equipment in a safe manner while employing creative lighting techniques to the final photographic product.
- Graduates will be able to illustrate skills in the proper implementation of business practices for fees, licensing, and copyright, as well as follow current health and safety regulations.

Item 2. Catalog Description

The Certificate of Achievement in Commercial Photography provides opportunities for career preparation by providing courses that meet workforce needs. Commercial photography skills, including lighting and digital image editing, are highly desirable in the photography industry and related industries, including graphic design, social media, and advertising. The program provides a solid technical background in studio photography and applications, including lighting setup, studio scheduling, equipment maintenance, and digital image editing. The outcomes of the program align with industry standards for photography studios. Furthermore, the courses in this certificate will scale up to additional photography certificates and the Associate in Arts Degree in Photography.

Item 3. Program Requirements

Requirements	Course #	Title	Units	Sequence
Core Courses (12 units)	PHOT 4A	Photoshop for Photographers I	4	Yr 1, Fall
	PHOT 5	Introduction to Photography	4	Yr 1, Fall
	PHOT 74A	Studio Photography Techniques I	4	Yr 1, Winter

Restricted Electives (select 4 units)	PHOT 4B	Photoshop for Photographers II	4	Yr 1, Spring
	PHOT 72	Lightroom & Photographic Design	4	Yr 1, Spring
	PHOT 74B	Studio Photography Techniques II	4	Yr 1, Spring
	PHOT 74C	Studio Photography Techniques III	4	Yr 1, Spring

TOTAL UNITS: 16 units

Proposed Sequence:
Year 1, Fall = 8 units
Year 1, Winter = 4 units
Year 1, Spring = 4 units
TOTAL UNITS: 16 units

Item 4. Master Planning

The CTE Certificate of Achievement in Commercial Photography aligns with the college's Mission Statement by providing a clear pathway of courses that, when completed, can lead to a career in photography. This is a new certificate that guides students to the most important courses they will need to build a strong technical foundation when joining the workforce. Students may then choose to begin their career with an established company or seek instead to start a small business. In addition, the photography program strives to achieve equity throughout the content in all of its courses and programming, as well as with its interactions with students. The mindset and practice of the photography program therefore helps contribute to meeting the student outcome goal of the college's Mission Statement.

Item 5. Enrollment and Completer Projections

It is expected that 5 students will complete the program in the initial year; after five years we would expect about 5-10 students per year will complete the program. As this aligns with the AA Degree and Certificate of Achievement in Photography, we expect some students will begin on this pathway and then decide to continue with these offerings.

		Year 1		Year 2	
Course #	**Course Title**	**Annual Sections**	**Annual Enrollment**	**Annual Sections**	**Annual Enrollment**
PHOT 4A	Photoshop for Photographers I	4	152	4	102
PHOT 4B	Photoshop for Photographers II*	2	32	1	9
PHOT 5	Introduction to Photography	13	523	10	389
PHOT 72	Lightroom & Photographic Design	1	35	1	31
PHOT 74A	Studio Photography Techniques I*	N/A	N/A	2	29
PHOT 74B	Studio Photography Techniques II*	N/A	N/A	1	5

PHOT 74C	Studio Photography Techniques III*	N/A	N/A	N/A	N/A

Cancelled and/or impacted in 2020-21 due to COVID Pandemic; rebuilding enrollment in 2021-2022

Item 6. Place of Program in Curriculum/Similar Programs
This is a new program at Foothill College. This program fulfills a need expressed by the industry advisory board.

Item 7. Similar Programs at Other Colleges in Service Area
There are colleges within reasonable commuting distance that offer a similar program but ours has a reputation of excellence and offers a pathway to our Associate Degree and transfer options for students who want to continue.

Additional Information Required for State Submission:

TOP Code: 1012.00 - Applied Photography

Annual Completers: 5

Net Annual Labor Demand: 110,500 in 2020 with Job Outlook for 2020-2030 showing a 17% increase (much higher than average)
Occupational Outlook Handbook PHOTOGRAPHER

Faculty Workload: .1

New Faculty Positions: 0

New Equipment: 0

New/Remodeled Facilities: 0

Library Acquisitions: 0

Gainful Employment: Yes

Program Review Date: June, 2024

Distance Education: 50-99%

Foothill College
Credit Program Narrative
Certificate of Achievement in Digital Photography Techniques

Item 1. Program Goals and Objectives

The Certificate of Achievement in Digital Photography Techniques prepares students to be both digital technicians/studio assistants or commercial photographers and provides the opportunity to gain skills necessary to advance their careers. By completing the Certificate of Achievement in Digital Photography Techniques, students will be able to work in a commercial photographic studio, assist in events, or start their own photographic business. The position of digital technician is currently in high demand in the region.

Program Learning Outcomes:
- Graduates will be able to employ principles of digital image adjusting and editing, as well as workflow, to process images from photographic shoots and events and prepare images to clients' specification for advertising, printing, or website creation.
- Graduates will be able to utilize digital hardware and software techniques to process images as a key team member for a photography studio or graphic design studio.
- Graduates will be able to demonstrate ability to set up and adjust workflows for their own and other photographers' digital images from capture to post-process through backup and client fulfillment.
- Graduates will be able to illustrate skills in the proper implementation of business practices for fees, licensing, and copyright, as well as follow current health and safety regulations.

Item 2. Catalog Description

The Certificate of Achievement in Digital Photography Techniques provides opportunities for career preparation by providing courses that meet workforce needs and prepares students for work as a digital technician. Digital technicians utilize digital image process and organization skills, including the use of professional software, formatting of both cloud and onsite backup, processing of images, and delivering files to clients. Digital techs are needed in the photography industry and related industries, including graphic design, social media, and advertising. The program provides a solid technical background in computer processing of images and optimization of applications, including capture, downloading, image selection, editing, and preparation for output and printing. The outcomes of the program align with industry standards for photography and digital imaging studios. Furthermore, the courses in this certificate will scale up to additional photography certificates and the Associate in Arts Degree in Photography.

Item 3. Program Requirements

Requirements	Course #	Title	Units	Sequence
Core Courses (12 units)	PHOT 4A	Photoshop for Photographers I	4	Yr 1, Fall
	PHOT 5	Introduction to Photography	4	Yr 1, Fall
	PHOT 72	Lightroom & Photographic Design	4	Yr 1, Spring

Restricted Electives (select 4 units)	PHOT 4B	Photoshop for Photographers II	4	Yr 1, Winter
	PHOT 4C	Photoshop for Photographers III	4	Yr 1, Spring
	PHOT 74A	Studio Photography Techniques I	4	Yr 1, Winter

TOTAL UNITS: 16 units

Proposed Sequence:
Year 1, Fall = 8 units
Year 1, Winter = 4 units
Year 1, Spring = 4 units
TOTAL UNITS: 16 units

Item 4. Master Planning

The CTE Certificate of Achievement in Digital Photography Techniques aligns with the college's Mission Statement by providing a clear pathway of courses that, when completed, can lead to a career in photography. This is a new certificate that guides students to the most important courses they will need to build a strong technical foundation when joining the workforce. Students may then choose to begin their career with an established company or seek instead to start a small business. In addition, the photography program strives to achieve equity throughout the content in all of its courses and programming, as well as with its interactions with students. The mindset and practice of the photography program therefore helps contribute to meeting the student outcome goal of the college's Mission Statement.

Item 5. Enrollment and Completer Projections

It is expected that 5 students will complete the program in the initial year; after five years we would expect about 5-10 students per year will complete the program. As this aligns with the AA Degree and Certificate of Achievement in Photography, we expect some students will begin on this pathway and then decide to continue with these offerings.

		Year 1		Year 2	
Course #	Course Title	Annual Sections	Annual Enrollment	Annual Sections	Annual Enrollment
PHOT 4A	Photoshop for Photographers I	4	152	4	102
PHOT 4B	Photoshop for Photographers II*	2	32	1	9
PHOT 4C	Photoshop for Photographers III*	1	11	1	8
PHOT 5	Introduction to Photography	13	523	10	389
PHOT 72	Lightroom & Photographic Design	1	35	1	31
PHOT 74A	Studio Photography Techniques I*	N/A	N/A	2	29

Cancelled and/or impacted in 2020-21 due to COVID Pandemic; rebuilding enrollment in 2021-2022

Item 6. Place of Program in Curriculum/Similar Programs
This is a new program at Foothill College. This program fulfills a need expressed by the industry advisory board.

Item 7. Similar Programs at Other Colleges in Service Area
There are colleges within reasonable commuting distance that offer a similar program but ours has a reputation of excellence and offers a pathway to our Associate Degree and transfer options for students who want to continue.

Additional Information Required for State Submission:

TOP Code: 1012.00 - Applied Photography

Annual Completers: 5

Net Annual Labor Demand: 110,500 in 2020 with Job Outlook for 2020-2030 showing a 17% increase (much higher than average)
[Occupational Outlook Handbook PHOTOGRAPHER](#)

Faculty Workload: .1

New Faculty Positions: 0

New Equipment: 0

New/Remodeled Facilities: 0

Library Acquisitions: 0

Gainful Employment: Yes

Program Review Date: June, 2024

Distance Education: 50-99%

Foothill College
Credit Program Narrative
Certificate of Achievement in Photography Criticism

Item 1. Program Goals and Objectives
The Certificate of Achievement in Photography Criticism prepares students to analyze and interpret photographic images while providing the opportunity to gain necessary skills to advance their careers.

Program Learning Outcomes:
- Identify and examine major photographic movements, genres, and processes.
- Demonstrate an understanding of theoretical frameworks for visual analysis.
- Analyze and interpret photographic images from historical and social perspectives.

Item 2. Catalog Description
The Certificate of Achievement in Photography Criticism provides instruction in the history of photography from its inception to the present day. The curriculum gives students the critical skills and foundation for developing a better understanding and appreciation of photography. By completing this certificate program, students will be prepared for entry-level employment at museums, galleries, community exhibition venues, art auction houses, and art publications.

Item 3. Program Requirements

Requirements	Course #	Title	Units	Sequence
Core Courses (13 units)	PHOT 8 or	Photography of American Cultures	5	Yr 1, Winter
	PHOT 8H	Honors Photography of American Cultures	5	Yr 1, Winter
	PHOT 10 or	History of Photography	4	Yr 1, Fall
	PHOT 10H	Honors History of Photography	4	Yr 1, Fall
	PHOT 11 or	Contemporary Issues in Photography	4	Yr 1, Spring
	PHOT 11H	Honors Contemporary Issues in Photography	4	Yr 1, Spring
Restricted Electives (select one course)	ART 1	Introduction to Art	4.5	Yr 1, Fall
	MDIA 3	Introduction to Film & Media Criticism	4	Yr 1, Spring

TOTAL UNITS: 17-17.5 units

Proposed Sequence:
Year 1, Fall = 4-8.5 units
Year 1, Winter = 5 units
Year 1, Spring = 4-8 units
TOTAL UNITS: 17-17.5 units

Item 4. Master Planning
The Certificate of Achievement in Photography Criticism aligns with the college's Mission Statement by providing a clear pathway of courses that when completed, can lead to entry-level employment at museums, galleries, community exhibition venues, art auction houses, and art publications. Because all courses offered in this certificate meet the UC-CSU General Education Arts & Humanities requirement, it enhances the transfer success of our students to a four-year college. In addition, the photography program strives to achieve equity throughout the content in all of its courses and programming, as well as with its interactions with students. The mindset and practice of the photography program therefore contributes to meeting the student outcome goal of the college's Mission Statement.

Item 5. Enrollment and Completer Projections
It is expected that 5 students will complete the program in the initial year; after five years we would expect about 5-10 students per year will complete the program. As this aligns with the AA Degree and Certificate of Achievement in Photography, we expect some students will begin on this pathway and then decide to continue with these other offerings.

Course #	Course Title	Year 1		Year 2	
		Annual Sections	Annual Enrollment	Annual Sections	Annual Enrollment
PHOT 8/8H	Photography of American Cultures / Honors	10	423	13	537
PHOT 10/10H	History of Photography / Honors	1	29	1	28
PHOT 11/11H	Contemporary Issues in Photography / Honors	1	43	1	30
ART 1	Introduction to Art	13	620	12	616
MDIA 3	Introduction to Film & Media Criticism	2	79	3	112

Item 6. Place of Program in Curriculum/Similar Programs
This is a new program at Foothill College. This program fulfills a need expressed by the industry advisory board.

Item 7. Similar Programs at Other Colleges in Service Area
There are colleges within reasonable commuting distance that offer a similar program but ours has a reputation of excellence and offers a pathway to our Associate Degree and transfer options for students who want to continue.

Additional Information Required for State Submission:

TOP Code: 1011.00 - Photography

Annual Completers: 5

Faculty Workload: 1

New Faculty Positions: 0

New Equipment: 0

New/Remodeled Facilities: 0

Library Acquisitions: 0

Gainful Employment: Yes

Program Review Date: June, 2024

Distance Education: 50-99%

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: California State University, Channel Islands 2022-2023 General Catalog, Semester	From: Foothill College 2022-2023 General Catalog, Quarter

Liberal Studies, B.A. Integrated Teaching Credential Emphasis

GENERAL INFORMATION

1. **Admission Requirements for the Integrated Teaching Credential Emphasis:**
   1. Students may apply for admission to the Integrated Teaching Credential Emphasis in the first semester of their junior year, after completing <u>60</u> units in the Liberal Studies, B.A. Teaching and Learning Emphasis. Admission will be granted based upon completion of the following requirements:
      1. **Examinations** - Students must pass the California Basic Educational Skills Test (CBEST) prior to admission to the Integrated Teaching Credential Emphasis.
      2. **Health Clearance** - Evidence of a negative tuberculin test is required. The tuberculin test is valid for four years and must be valid through student teaching. The tuberculin test may be completed at a private physician's office or the county health department.
      3. **Certificate of Clearance** - Students must possess or apply for a valid Certificate of Clearance as part of admission. The Certificate of Clearance is a background check and clearance conducted by the Department of Justice and Federal Bureau of Investigation.
      4. **Two Letters of Recommendation** - Two letters of recommendation from faculty, employers, and/or others who are knowledgeable about the student's personal qualities and potential to work with children must be submitted with the Integrated Teaching Credential Emphasis application.
      5. **Writing Sample** - Writing samples are required as part of the application process. The writing sample includes a 500-600 word essay describing the applicant's interest in teaching children with the diversity of languages and cultures represented in California schools.
      6. **Interview** - The Integrated Teaching Credential Emphasis Admissions Committee will interview candidates once all other portions of the admissions requirements are complete.
2. **Special Grade and GPA Requirement:** A minimum grade of "C" in all major courses and a minimum GPA of 3.0 "B" are required to remain in this Emphasis.
3. Every student pursuing the Liberal Studies, B.A. Integrated Teaching Credential Emphasis is required to complete a concentration. There are seven available to choose from:
   1. Bilingual Authorization Concentration
   2. History and Social Science Concentration
   3. Human Development and Psychology Concentration
   4. Mathematics Concentration
   5. Reading, Language and Literature Concentration
   6. Science Concentration
   7. Visual and Performing Arts Concentration
4. Lower-division courses are not required or allowed in all concentrations. However, if required or allowed these courses may be substituted with transferable, community college courses.
   1. For more information, consult with the Liberal Studies Program Faculty Advisor after transferring to CI.
5. Those concentrations that do require or allow lower-division courses are listed below:
   1. The following applies to the History and Social Science Concentration section below:
      1. Complete two courses, one each from two of the following disciplines:
         1. Anthropology
         2. Economics
         3. History
         4. Political Science
         5. Sociology
   2. The following applies to the Human Development and Psychology Concentration section below:
      1. Complete a minimum of nine units of psychology courses, with at least three units being upper division.
   3. The following applies to Mathematics Concentration section below:
      1. Complete a minimum of six units of mathematics courses.
   4. The following applies to the Reading, Language and Literature Concentration section below:
      1. Complete a minimum of six units of English courses.
   5. The following applies to the Science Concentration section below:
      1. Complete a minimum of nine science units.
         1. At least three of the nine units in this concentration must be upper-division.
         2. Students are strongly encouraged to take courses from at least two different science disciplines (e.g.: biology, chemistry, geology, physics, etc.).
   6. The following applies to the Visual and Performing Arts Concentration section below:
      1. Complete a minimum of nine units from the visual and performing arts (e.g.: art, dance, music, performing arts, theater, etc.).
         1. Three to six units may come from any CSU General Education Area C1 courses.
         2. At least three of the nine units in this concentration must be upper-division.

LOWER DIVISION REQUIREMENTS

ART 102 - Multicultural Children's Art (3.00)	←	No Comparable Course

BIOL 170 - Foundations of Life Science (4.00)	←	**BIOL 10** - General Biology: Basic Principles (5.00) • *Course is an approved substitute for Liberal Studies majors only*
COMM 101 - Public Speaking (3.00)	←	**COMM 1A** - Public Speaking (5.00) --- Or --- **COMM 1AH** - Honors Public Speaking (5.00)
ECS 150 - Foundations of Child and Adolescent Development (3.00) Same-As: PSY 150	←	**CHLD 1** - Child Growth & Development: Prenatal through Early Childhood (4.00) --- And --- **CHLD 2** - Child Growth & Development II: Middle Childhood through Adolescence (4.00)
EDUC 101 - Introduction to Elementary Schooling (3.00)	←	**EDUC 2** - Introduction to Elementary Education (5.00)
ENGL 105 - Composition and Rhetoric (3.00)	←	**ENGL 1A** - Composition & Reading (5.00) --- Or --- **ENGL 1AH** - Honors Composition & Reading (5.00) --- Or --- **ENGL 1S** - Integrated Composition & Reading (4.00) --- And --- **ENGL 1T** - Integrated Composition & Reading (4.00)
ENGL 212 - Children's Literature in a Diverse World (3.00)	←	**ENGL 8** - Children's Literature (4.00)
HIST 211 - World Civilizations: Origins to 1500 (3.00)	←	**HIST 3A** - World History From Prehistory to 750 CE (4.00) --- And --- **HIST 3B** - World History from 750 CE to 1750 CE (4.00)
HIST 275 - The United States to 1900 (3.00)	←	**HIST 17A** - History of the United States to 1815 (4.00) --- And --- **HIST 17B** - History of the United States from 1812 to 1914 (4.00)
LS 220 - Developing Literacy in Diverse Classrooms (3.00)	←	No Comparable Course
MATH 208 - Modern Mathematics for Elementary Teaching I - Numbers and Problem Solving (3.00)	←	**MATH 42** - Math for Elementary School Teachers (5.00)
PA 210 - Understanding Dance and Music for Elementary Education (3.00)	←	No Comparable Course
PHSC 170 - Foundations in Physical Science (4.00)	←	No Comparable Course
POLS 150 - American Political Institutions (3.00)	←	**POLI 1** - Political Science: Introduction to American Government & Politics (5.00)

UPPER DIVISION REQUIREMENTS

GEOL 300 - Foundations of Earth Science (4.00) • *Content credit only* • *Lower division credit only*	←	No Course Articulated
HIST 369 - California History and Culture (3.00) • *Content credit only* • *Lower division credit only*	←	**HIST 10** - History of California: The Multicultural State (4.00) • *Course is an approved substitute for Early Childhood Studies majors only* • *Course is an approved substitute for Liberal Studies majors only*

HISTORY AND SOCIAL SCIENCE CONCENTRATION

Please refer to additional important General Information section above

HUMAN DEVELOPMENT AND PSYCHOLOGY CONCENTRATION

Please refer to additional important General Information section above

MATHEMATICS CONCENTRATION

Please refer to additional important General Information section above

READING, LANGUAGE AND LITERATURE CONCENTRATION

Please refer to additional important General Information section above

SCIENCE CONCENTRATION

Please refer to additional important General Information section above

VISUAL AND PERFORMING ARTS CONCENTRATION

Select up to 6 Unit(s) from the following

Please refer to additional important General Information section above

CSU GE Area: C1 - Arts: (Arts, Cinema, Dance, Music, Theater)

←

PHOT 10 - History of Photography (4.00)
THTR 20A - Acting I (4.00)
ART 4A - Fundamentals in Drawing (4.00)
PHOT 11 - Contemporary Issues In Photography (4.00)
ART 2E - A History of Women in Art (4.50)
THTR 26 - Introduction to Fashion History & Costume Design (4.00)
ART 2A - History of Art: History of Western Art from Prehistory Through Early Christianity (4.50)
DANC 10 - Topics in Dance History (5.00)
MUS 2B - Great Composers & Music Masterpieces (5.00)
THTR 8 - Multicultural Theatre Arts in Modern America (4.00)
MUS 11A - Jazz & Swing (4.00)
PHOT 8H - Honors Photography of American Cultures (5.00)
PHOT 11H - Honors Contemporary Issues in Photography (4.00)
MUS 2F - History of American Musical Theatre (4.00)
  Same-As: THTR 2F
MDIA 1 - Introduction to Film Studies (4.00)
MUS 11E - History of Electronic Music: 1970-Present (4.00)
MDIA 1H - Honors Introduction to Film Studies (4.00)
MDIA 4 - Experimental Film & Video (4.00)
ART 2B - History of Western Art From the Middle Ages to the Renaissance (4.50)
ART 2AH - Honors History of Art: History of Western Art From Prehistory Through Early Christianity (4.50)
ART 2J - American Art (4.50)
ART 2C - History of Western Art From the Baroque to Contemporary (4.50)
MUS 1 - Introduction to Music (4.00)
MUS 3B - Theory & Musicianship II (5.00)
MUS 8 - Music of American Cultures (5.00)
MUS 11B - Funk, Fusion & Hip-Hop (4.00)
MUS 2A - Great Composers & Music Masterpieces (5.00)
THTR 2A - History of Dramatic Literature: Classical to Moliere (4.00)
PHIL 11 - Introduction to the Philosophy of Art & Aesthetics (4.00)
MUS 2D - World Music: Roots to Contemporary Global Fusion (5.00)
PHOT 10H - Honors History of Photography (4.00)
MDIA 3 - Introduction to Film & Media Criticism (4.00)
MUS 7F - Music in Film (4.00)
MDIA 5 - American Cinema (4.00)
MUS 8H - Honors Music of American Cultures (5.00)
ENGL 34C - Literature into Film (4.00)
MUS 9B - Music & Media: Hendrix to Hip-Hop (4.00)
MDIA 2C - Current Trends in Film, TV & The Internet (4.00)
MUS 11D - History of Electronic Music: Origins - 1970 (4.00)
MUS 2C - Great Composers & Music Masterpieces (5.00)
ART 2F - Introduction to Asian Art (4.50)
ART 2BH - Honors History of Western Art From the Middle Ages to the Renaissance (4.50)
MUS 3A - Theory & Musicianship I (5.00)
MUS 3C - Theory and Musicianship III (5.00)
PHOT 5 - Introduction to Photography (4.00)
ART 3 - History of Modern Art From Post-Impressionism to the Present (4.50)
THTR 1 - Introduction to Theatre (4.00)
MUS 10 - Music Fundamentals (4.00)
PHOT 8 - Photography of American Cultures (5.00)
MDIA 7 - Documentary Film (4.00)
ART 1 - Introduction to Art (4.50)
MUS 2AH - Honors Geat Composers & Music Masterpieces (5.00)
MUS 2BH - Honors Great Composers & Music Masterpieces (5.00)
MUS 2CH - Honors Great Composers & Music Masterpieces (5.00)
MDIA 8B - Women in Film (4.00)

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: California State University, Chico 2022-2023 General Catalog, Semester	From: Foothill College 2022-2023 General Catalog, Quarter

Art B.A. - Art Education Option

STANDARD GENERAL INFORMATION

1. See the University Catalog for the full listing of degree requirements for this major.
2. See the Admissions website for transfer admission requirements/information.
3. See the International Education & Global Engagement website for international transfer academic qualifications.
4. See the Academic Advising Programs website for information on California Promise and Associate Degree for Transfer.
5. See the University Catalog for Credit by Exam information (AP, IB, CLEP).

GENERAL INFORMATION: ADVISORY

This program has an upper division art studio requirement where a student selects courses from a single art studio emphasis: ceramics, digital media, drawing, glass design, painting, photography, printmaking, or sculpture. In the section below where the student chooses a course, the student should carefully select the course based on the prerequisites for the courses listed in the upper division art studio emphasis of choice. Please see the University Catalog for the upper division course listings as well as the full listing of degree requirements.

NOTE TO STUDENTS APPLYING TO THE SINGLE SUBJECT CREDENTIAL PROGRAM

If applying to the single subject credential program, see the additional course listing below.

Note: CMST 131, POLS 155, and a Foreign Language course are required for the credential program. The Foreign Language requirement can be met through General Education and High School World Language courses. See the Languages and Cultures department articulation agreement for approved transfer equivalent Foreign Language courses.

More information on the Single Subject Credential Program can be obtained through the School of Education.

Professional education program requirements are governed by legislative action and approval of the California Commission on Teacher Credentialing. Requirements may change between catalogs. Please consult with your Art Education advisor.

LOWER DIVISION OPTION REQUIREMENTS

All courses in this section are required

ARTH 100 - Art Appreciation: Multicultural Perspectives (3.00)	←	**ART 1** - Introduction to Art (4.50)
ARTS 122 - 2D Design (3.00)	←	**ART 5A** - 2-D Foundations (4.00) --- Or --- **ART 20A** - Color I (4.00) --- And --- **ART 20B** - Color II (4.00)
ARTS 123 - 3D Design (3.00)	←	**ART 5B** - 3-D Foundations (4.00)
ARTS 125 - Basic Drawing (3.00)	←	**ART 4A** - Fundamentals in Drawing (4.00)
ARTS 227 - Introduction to Painting (3.00)	←	**ART 19A** - Oil Painting I (4.00) --- And --- **ART 19B** - Acrylic Painting I (4.00)
ARTS 230 - Introduction to Printmaking (3.00)	←	No Course Articulated
ARTS 250 - Introduction to Digital Media (3.00)	←	**GID 41** - Digital Art & Graphics (4.00) • *Course articulates with more than one university course* • *Maximum credit, one university course*
ARTS 260 - Introduction to Ceramics (3.00)	←	**ART 45A** - Beginning Ceramics Handbuilding (4.00) --- And --- **ART 45B** - Beginning Ceramics Potter's Wheel (4.00)

Please refer to additional important General Information section above
Prerequisite(s) for upper division course(s) in this major, concentration or track

ARTS 126 - Basic Life Drawing (3.00) ←

| ART 4C - Representational Drawing (4.00) |
| --- And --- |
| ART 4D - Figure Drawing I (4.00) |

--- Or ---

| ART 4D - Figure Drawing I (4.00) |
| --- And --- |
| ART 4E - Heads & Hands Drawing (4.00) |

ARTS 240 - Introduction to Fine Art Photography (3.00)	←	No Course Articulated
ARTS 270 - Introduction to Sculpture (3.00)	←	No Comparable Course
ARTS 276 - Introduction to Glass Art (3.00)	←	No Course Articulated

ADDITIONAL COURSES FOR STUDENTS APPLYING TO SINGLE SUBJECT CREDENTIAL PROGRAM

REFER TO TOP OF AGREEMENT

CMST 131 - Speech Communication Fundamentals (3.00)	←	**COMM 1A** - Public Speaking (5.00)
		--- Or ---
		COMM 1AH - Honors Public Speaking (5.00)
EDTE 255 - Introduction to Democratic Perspectives in K-12 Teaching (3.00)	←	**EDUC 2** - Introduction to Elementary Education (5.00) • *Course articulates with more than one university course* • *Maximum credit, one university course*
POLS 155 - American Government: National, State, and Local (3.00)	←	**POLI 1** - Political Science: Introduction to American Government & Politics (5.00)

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: Sonoma State University **2022-2023 General Catalog, Semester**	**From: Foothill College** **2022-2023 General Catalog, Quarter**

Communication and Media Studies, B.A.

GENERAL INFORMATION

This agreement is subject to revision without prior notice. Please check with a counselor every semester to obtain current information about possible changes in the agreement. To learn more about the courses and programs offered at Sonoma State University or the General Education and Upper-division requirements for each major please refer to the university catalog at: http://www.sonoma.edu/catalog/

ASSOCIATE DEGREE FOR TRANSFER INFORMATION

The AA-T in Communication Studies (SB 1440 degree) has been deemed as "similar" degree to the Communication Studies, B.A. at Sonoma State. Students transfering to SSU with an AA-T in Communication Studies are advised to complete all available articulated major requirement and support courses before transfer. It is also recommended that students complete the American Instutitions (US-1, US-2, US-3), and Seawolf Studies Graduation requirements before transfer.

COMS SKILLS COURSES

The *SKILLS COURSES* listed below only includes lower division courses, see SSU Catalog for a list which includes upper-division courses.

LOWER DIVISION MAJOR REQUIREMENTS

COMS 200 - Priniciples of Media Communications (4.00)	←	No Course Articulated
COMS 202 - Methods of Media Criticism (4.00)	←	**MDIA 3** - Introduction to Film & Media Criticism (4.00)

SKILL COURSES

Select 4 Unit(s) from the following		
COMS 201 - Video Production (4.00)	←	No Course Articulated
COMS 210 - Web and Print Journalism (4.00)	←	No Course Articulated
COMS 240 - Public Relations (4.00)	←	No Course Articulated
COMS 265 - Radio and Audio Production (4.00)	←	No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: California Polytechnic University, Pomona	From: Foothill College
2022-2023 General Catalog, Semester	2022-2023 General Catalog, Quarter

Liberal Studies, B.A. - Pre-Credential Option

THIS MAJOR ACCEPTS THE ASSOCIATE DEGREE FOR TRANSFER (ADT)

A California Community College student who has earned the ADT (AA-T or AS-T) is granted priority admission to the CSU into a "similar" baccalaureate degree program with a guarantee of junior standing, as long as the student meets all prescribed admission requirements. ADT students **will only be required to complete 60 additional semester units** to complete the requirements for the "similar" baccalaureate degree.

ADT 2-year roadmaps: **https://www.cpp.edu/academic-programs/academic-advising/tools/sheets-roadmaps/index.shtml**

ADT accepted by Cal Poly Pomona: **https://www.cpp.edu/admissions/transfer/associate-degree-for-transfer.shtml**

ADT Major & Campus Search: **https://www.calstate.edu/apply/transfer/Pages/associate-degree-for-transfer-major-and-campus-search.aspx**

TMC: ELEMENTARY TEACHER EDUCATION (2-YEAR ROADMAP)

Liberal Studies, B.A. Pre-Credential Option with Elementary Teacher Education, AA-T Roadmap: 2-year (60 units)

TRANSFER AND ADMISSION REQUIREMENTS

CPP Eligibility

Transfers must meet the minimum California State University eligibility requirements listed below as the first step in being considered for admission. In addition to these requirements, Cal Poly Pomona (CPP) has implemented a multifactor admissions (MFA) evaluation process to evaluate transfer applicants. Fall applicants must have requirements completed by the end of the Spring term and Spring applicants must have requirements completed by the end of the Summer term.

==Please note, the following requirements and preferred coursework are effective starting the 2023-2024 academic year.==

CSU Minimum Admission Requirements

Cal Poly Pomona requires all transfers to complete the following:

- Be in good academic standing at the last instiutions attended
- Have a minimum 2.00 GPA in transferable coursework
- Have a minimum of 60 transferable semester (90 quarter) units
    - 30 (45 quarter) of the 60 semester units must be in General Education
    - Completion of the "Golden Four"

Impacted majors may have required coursework that must completed with a "C" or higher.

Fall applicants must have requirements completed by the end of the **Spring** term and Spring applicants must have requirements completed by the end of the **Summer** term.

Please note, Cal Poly Pomona does not accept applicants who are seeking a 2nd Bachelor's degree. We encourage applicants to consider a Graduate degree.

Non-local Applicants

All applicants must meet CSU minimum requirements to be reviewed for admission. Non-local applicants applying to high demand and impacted majors will be held to a higher admission standard as CPP admits applicants based on space available in each major and therefore, should maintain a high GPA and complete all required, recommended and/or preferred coursework.

Please note, an applicant is considered local if the majority of their units come from one of our local area schools or if their AD-T is being awarded by one of our local schools.

Golden Four

A1: Oral Communication

A basic public speaking course or other communication course. Must be completed with a "C-" or higher.

A2: English Composition

An English composition course that emphasizes essay writing or reading and writing concurrently. Must be completed with a "C-" or higher.

A3: Critical Thinking

A second semester composition or writing course, or a course in reasoning and effective argumentative writing. Must be completed with a "C-" or higher.

B4: Mathematics/Quantitative Reasoning

A mathematics course above the intermediate algebra level. Must be completed with a "C-" or higher.

Multi-factor Admission Model

Cal Poly Pomona's MFA model for transfer applicants is made up of academic and non-academic factors with a majority of the weight coming from academic criteria.

To be considered for admissions to Cal Poly Pomona, all applicants must meet the minimum CSU eligibility requirements. Once an applicant's CSU eligibility has been determined, they will then be assessed based on a combination of GPA in all transferable coursework and additional Cal Poly Pomona selection criteria that creates and CPP Elgibility Index for each applicant.

Additional Criteria

The following Cal Poly Pomona selection criteria is taken into admission consideration:

- Academic grade point average in all transferable coursework.
- Priority to students from our local area.
- Your experiences and special circumstances such as military status, first generation to attend college, work experience, foster youth, extra-curricular activities, leadership positions, work related to major and approved campus partnerships.
- Completion of preferred, recommended, or required coursework with a "C" or higher

Please note, while local applicants will have an eligibility index, they will be admissable to a non-impacted program if they meet all of the minimum CSU requirements.

CSET INFORMATION FOR ADT STUDENTS

The requirements for passing the CSET to enter a multiple subject matter program have changed since July 2021 with Assembly Bill (AB) 130. "AB 130 expands the available options to allow candidates to meet the Subject Matter Requirement through any one of the following methods:

1. Successful completion of coursework, as verified by a Commission-approved program of professional preparation that addresses each of the Commission-adopted domains of the applicable subject matter requirements.

2. Successful completion of an academic major in the subject they will teach.

    a. For Single Subject credentials, the major must be in one of the subjects named in Education Code section 44257(a).

    b. For Multiple Subject credentials, *the major must be in liberal studies or an interdisciplinary major that includes coursework in the content areas identified in subdivision (b) of California Education Code section 44282". (CCTC Coded Memo, July 22, 2021).*

As a result, completing a liberal studies degree replaces passing the CSET to enter a multiple subjects program. It is important to take the ADT as prescribed and the Pre-credential or ITEP in special education option curriculum to be fully prepared for the subject matter content for a multiple subjects credential program. In addition, AB 130 allows graduates to satisfy the CBEST with reading, math, and writing coursework from their bachelor's degree.

It is highly recommended ADT students take transfer courses articulated with the CPP courses listed below as part of their ADT to ensure subject matter and graduation requirements are met within 60-semester units after transfer.

- HST 1102 - World Civilizations from 1500 (3)
- PHY 2120 + 2120L - Physical Science for Elementary Educators (3) (GE Area B1), or a course to satisfy a subject matter emphasis if already satisfied (see catalog)
- MU 1000 - Introduction to Music (3) (GE Area C1), especially if you do not have musical ability yet, or a course to satisfy a subject matter emphasis if already satisfied (see catalog)

GENERAL EDUCATION REQUIREMENTS

Transfer students may satisfy General Education requirements by completing the CSU General Education Breadth Certification pattern, the Intersegmental General Education Transfer Curriculum (IGETC), or by completing an **Associate Degree for Transfer (AA-T/AS-T)**.

Transfer students are advised to take courses required for their major as part of CSU General Education Breadth, as specified by each major, to achieve the minimum units to degree.

Major courses and campus-wide required courses that are approved for GE credit shall also fulfill (double count for) the GE requirement. [**EO 1100**]

For more information regarding Associate Degree for Transfer, please see your California community college counselor or visit: **www.adegreewithaguarantee.com/**

MAJOR REQUIRED

GSC 1100 - Water in a Changing World (3.00)
- ***REFER TO TOP OF AGREEMENT***

← No Course Articulated

--- Or ---

GSC 2120 - Earth Science for Elementary Educators (2.00)

--- And ---

GSC 2120L - Earth Science for Elementary Educators Laboratory (1.00)
- *Preferred course*
- ***REFER TO TOP OF AGREEMENT***

← No Course Articulated

HST 1101 - World Civilizations to 1500 (3.00)

←

HIST 3A - World History From Prehistory to 750 CE (4.00)

--- And ---

HIST 3B - World History from 750 CE to 1750 CE (4.00)

HST 1102 - World Civilizations from 1500 (3.00)

←

HIST 3B - World History from 750 CE to 1750 CE (4.00)

--- And ---

HIST 3C - World History from 1750 CE to the Present (4.00)

LS 1020 - Integrating Knowledge, Learning, and Engagement for Success (3.00)
Same-As: IGE 1020, EWS 1020

← No Course Articulated

LS 2011 - History and Purposes of the Liberal Arts: What is a Liberal Studies Mindset? (3.00)

← No Course Articulated

PLS 2010 - Introduction to American Government (3.00)

← **POLI 1** - Political Science: Introduction to American Government & Politics (5.00)

MAJOR OPTION REQUIRED

GEO 1020 - Human Geography (3.00)

← **GEOG 2** - Human Geography (4.00)

MAT 1940 - Mathematical Concepts for Elementary School Teachers (4.00)

← This course must be taken at the university after transfer

PSY 2206 - Child Psychology for Educators (3.00)

← No Comparable Course

OPTION REQUIRED ELECTIVES/EMPHASIS

Select 6 Unit(s) from the following
Minimum grade required: C or better

HUMAN DEVELOPMENT EMPHASIS

Only lower division courses listed
Minimum grade required: C or better

ECS 1100 - Child, Family and Community (3.00)
- *Minimum grade required: C or better*

← **CHLD 8** - Child, Family & Community (4.00)

HISTORY EMPHASIS

Upper division; Not articulated
Minimum grade required: C or better

VISUAL AND PERFORMING ARTS EMPHASIS

Only lower division courses listed
Minimum grade required: C or better

COM 2280 - Understanding & Appreciating the Photographic Image (3.00)
- *Minimum grade required: C or better*

← **PHOT 10** - History of Photography (4.00)

LITERATURE EMPHASIS

Minimum grade required: C or better

ENG 2150 - Multimodal Literacy (3.00) • *Minimum grade required: C or better*	←	No Course Articulated
ENG 2801 - Adolescent Literature (3.00) • *Minimum grade required: C or better*	←	No Course Articulated
ENG 2710 - World Literature I (3.00) • *Minimum grade required: C or better*	←	**ENGL 47A** - World Literature I (5.00) --- Or --- **ENGL 47AH** - Honors World Literature I (5.00)

KINESIOLOGY EMPHASIS

Upper division; Not articulated
Minimum grade required: C or better

SCIENCE EMPHASIS

Only lower division courses listed
Minimum grade required: C or better

BIO 1060 - Human Biology (3.00) • *Minimum grade required: C or better*	←	No Course Articulated

MATHEMATICS EMPHASIS

Minimum grade required: C or better

MAT 1050 - College Algebra (3.00) • *Minimum grade required: C or better*	←	No Comparable Course
MAT 1060 - Trigonometry (3.00) • *Minimum grade required: C or better*	←	No Course Articulated
MAT 1200 - Calculus for the Life Sciences (3.00) • *Minimum grade required: C or better*	←	**MATH 1A** - Calculus (5.00)

END OF AGREEMENT

Foothill College
Noncredit Program Narrative
Certificate of Completion in Commercial Photography

Item 1. Program Goals and Objectives

The Certificate of Completion in Commercial Photography prepares students to be commercial photographers, photo studio managers, and studio assistants in commercial photography and provides the opportunity to gain skills necessary to advance their careers. Students could have specialization in the areas of advertising, product, portrait, architecture, food, event, and fashion photography, among others. Students develop skills in the operation of current photographic equipment, including electronic strobes and digital capture. By completing the Certificate of Completion in Commercial Photography, students will be able to work in a commercial photographic studio or start their own photographic business.

Program Learning Outcomes:
- Graduates will be able to employ principles of lighting, camera usage, digital adjustments, and studio photography, to create photographs to clients' specification for use in print and electronic media.
- Graduates will be able to utilize professional tools of photographic capture and lighting to set up and adjust the photographic studio, including troubleshooting lighting challenges and post-processing studio images for presentation.
- Graduates will be able to demonstrate ability to use all photographic studio equipment in a safe manner while employing creative lighting techniques to the final photographic product.
- Graduates will be able to illustrate skills in the proper implementation of business practices for fees, licensing, and copyright, as well as follow current health and safety regulations.

Item 2. Catalog Description

The noncredit Certificate of Completion in Commercial Photography provides opportunities for career preparation by providing courses that meet workforce needs. Commercial photography skills, including lighting and digital image editing, are highly desirable in the photography industry and related industries, including graphic design, social media, and advertising. The program provides a solid technical background in studio photography and applications, including lighting setup, studio scheduling, equipment maintenance, and digital image editing. The outcomes of the program align with industry standards for photography studios. Furthermore, the students who complete this certificate could consider continuing with credit photography certificates and the Associate in Arts Degree in Photography.

Item 3. Program Requirements

Requirements	Course #	Title	Hours	Sequence
Core Courses (216 hours)	PHOT 404A	Photoshop for Photographers I	72	Yr 1, Fall
	PHOT 405	Introduction to Photography	72	Yr 1, Fall
	PHOT 474A	Studio Photography Techniques I	72	Yr 1, Winter

Restricted Electives (select one course)	PHOT 404B	Photoshop for Photographers II	72	Yr 1, Spring
	PHOT 472	Lightroom & Photographic Design	72	Yr 1, Spring
	PHOT 474B	Studio Photography Techniques II	72	Yr 1, Spring
	PHOT 474C	Studio Photography Techniques III	72	Yr 1, Spring

TOTAL HOURS: 288 hours

Item 4. Master Planning

The CTE Certificate of Completion in Commercial Photography aligns with the college's Mission Statement by providing a clear pathway of courses that, when completed, can lead to a career in photography. This is a new certificate that guides students to the most important courses they will need to build a strong technical foundation when joining the workforce. Students may then choose to begin their career with an established company or seek instead to start a small business. In addition, the photography program strives to achieve equity throughout the content in all of its courses and programming, as well as with its interactions with students. The mindset and practice of the photography program therefore helps contribute to meeting the student outcome goal of the college's Mission Statement.

Additional Information Required for State Submission:

TOP Code: 1012.00 - Applied Photography

Program Review Date: June, 2024

Distance Education: 50-99%

CDCP Eligibility Criteria: Short-Term Vocational

Employment Potential: LMID EDD Consultant

Foothill College
Noncredit Program Narrative
Certificate of Completion in Photography

Item 1. Program Goals and Objectives

The Certificate of Completion in Photography prepares students to work in the field of photography either as photographers or support personnel in a photo studio or a design studio. The certificate allows students to gain skills necessary to advance their careers. Students could have specialization in the areas of fine art, advertising, product, portrait, architecture, food, event, and fashion photography, among others. Students develop skills in the operation of current photographic equipment for digital capture and archival storage. By completing th Certificate of Completion in Photography, students will be able to start their own photographic business or support existing businesses who need photographic work.

Program Learning Outcomes:

- Graduates will be able to employ principles of camera usage, digital adjustments, and studio photography, to create photographs to clients' specification for use in print and electronic media.
- Graduates will be able to utilize professional tools of photographic capture and editing.
- Graduates will be able to demonstrate ability to use all photographic equipment in a safe manner while employing creative imaging techniques to the final photographic product.
- Graduates will be able to illustrate skills in the proper implementation of business practices for fees, licensing, and copyright, as well as follow current health and safety regulations.

Item 2. Catalog Description

The noncredit Certificate of Completion in Photography provides opportunities for career preparation by providing courses that meet workforce needs. Photography skills, including photographing and digital image editing, are highly desirable in the photography industry and related industries, including graphic design, social media, and advertising. The program provides a solid technical background in digital applications, including photographing, editing, retouching, and printing. The outcomes of the program align with industry standards for photographic workplaces. Furthermore, the students who complete this certificate could consider continuing with credit photography certificates and the Associate in Arts Degree in Photography.

Item 3. Program Requirements

Requirements	Course #	Title	Hours	Sequence
Core Courses (432 hours)	PHOT 404A	Photoshop for Photographers I	72	Yr 1, Fall
	PHOT 404B	Photoshop for Photographers II	72	Yr 1, Winter
	PHOT 404C	Photoshop for Photographers III	72	Yr 1, Spring
	PHOT 405	Introduction to Photography	72	Yr 1, Fall
	PHOT 472	Lightroom & Photographic Design	72	Yr 1, Spring
	PHOT 474A	Studio Photography Techniques I	72	Yr 1, Fall

TOTAL HOURS: 432 hours

Item 4. Master Planning

The CTE Certificate of Completion in Photography aligns with the college's Mission Statement by providing a clear pathway of courses that, when completed, can lead to a career in photography. This is a new certificate that guides students to the most important courses they will need to build a strong technical foundation when joining the workforce. Students may then choose to begin their career with an established company or seek instead to start a small business. In addition, the photography program strives to achieve equity throughout the content in all of its courses and programming, as well as with its interactions with students. The mindset and practice of the photography program therefore helps contribute to meeting the student outcome goal of the college's Mission Statement.

Additional Information Required for State Submission:

TOP Code: 1012.00 - Applied Photography

Program Review Date: June, 2024

Distance Education: 50-99%

CDCP Eligibility Criteria: Short-Term Vocational

Employment Potential: LMID EDD Consultant

Labor Market Information Report
Digital Photography Occupations
Foothill College

Prepared by the San Francisco Bay Center of Excellence for Labor Market Research
June 2022

Recommendation

Based on all available data, there appears to be an "undersupply" of Digital Photography workers compared to the demand for this cluster of occupations in the Bay region and in the Silicon Valley sub-region (Santa Clara county). There is a projected annual gap of about 681 students in the Bay region and 146 students in the Silicon Valley Sub-Region.

Introduction

This report provides student outcomes data on employment and earnings for TOP 1012.00 Applied Photography programs in the state and region. It is recommended that these data be reviewed to better understand how outcomes for students taking courses on this TOP code compare to potentially similar programs at colleges in the state and region, as well as to outcomes across all CTE programs at Foothill College and in the region.

This report profiles Digital Photography Occupations in the 12 county Bay region and in the Silicon Valley sub-region for a <u>Certificate of Achievement in Digital Photography Techniques and a Non-Credit Certificate of Completion in Photography</u> at Foothill College.

- **Museum Technicians and Conservators (25-4013):** Restore, maintain, or prepare objects in museum collections for storage, research, or exhibit. May work with specimens such as fossils, skeletal parts, or botanicals; or artifacts, textiles, or art. May identify and record objects or install and arrange them in exhibits. Includes book or document conservators.
  Entry-Level Educational Requirement: Bachelor's degree
  Training Requirement: None
  Percentage of Community College Award Holders or Some Postsecondary Coursework: 12%

- **Fine Artists, Including Painters, Sculptors, and Illustrators (27-1013):** Create original artwork using any of a wide variety of media and techniques.
  Entry-Level Educational Requirement: Bachelor's degree
  Training Requirement: Long-term on-the-job training
  Percentage of Community College Award Holders or Some Postsecondary Coursework: 26%

- **Photographers (27-4021):** Photograph people, landscapes, merchandise, or other subjects, using digital or film cameras and equipment. May develop negatives or use computer software to produce finished images and prints. Includes scientific photographers, aerial photographers, and photojournalists.
  Entry-Level Educational Requirement: High school diploma or equivalent
  Training Requirement: Moderate-term on-the-job training
  Percentage of Community College Award Holders or Some Postsecondary Coursework: 34%

- **Photographic Process Workers and Processing Machine Operators (51-9151):** Perform work involved in developing and processing photographic images from film or digital media. May perform precision tasks such as editing photographic negatives and prints.

  Entry-Level Educational Requirement: High school diploma or equivalent

  Training Requirement: Short-term on-the-job training

  Percentage of Community College Award Holders or Some Postsecondary Coursework: 33%

Occupational Demand

Table 1. Employment Outlook for Digital Photography Occupations in Bay Region

Occupation	2020 Jobs	2025 Jobs	5-yr Change	5-yr % Change	5-yr Total Openings	Annual Openings	25% Hourly Earning	Median Hourly Wage
Museum Technicians and Conservators	749	823	74	10%	502	100	$20	$26
Fine Artists, Including Painters, Sculptors, and Illustrators	1,960	2,103	142	7%	1,173	235	$4	$11
Photographers	5,289	5,244	-44	-1%	2,449	490	$13	$25
Photographic Process Workers and Processing Machine Operators	540	491	-49	-9%	393	79	$18	$23
Total	**8,538**	**8,660**	**122**	**1%**	**4,517**	**904**		

Source: EMSI 2021.4

Bay Region includes: Alameda, Contra Costa, Marin, Monterey, Napa, San Benito, San Francisco, San Mateo, Santa Clara, Santa Cruz, Solano and Sonoma Counties

Table 2. Employment Outlook for Digital Photography Occupations in Silicon Valley Sub-region

Occupation	2020 Jobs	2025 Jobs	5-yr Change	5-yr % Change	5-yr Total Openings	Annual Openings	25% Hourly Earning	Median Hourly Wage
Museum Technicians and Conservators	118	130	12	10%	80	16	$17	$19
Fine Artists, Including Painters, Sculptors, and Illustrators	284	306	21	8%	170	34	$4	$12
Photographers	1,083	1,071	-12	-1%	495	99	$13	$23
Photographic Process Workers and Processing Machine Operators	52	52	0	1%	40	8	$17	$26
Total	**1,537**	**1,559**	**22**	**1%**	**785**	**157**		

Source: EMSI 2021.4

Silicon Valley Sub-Region includes: Santa Clara County

Job Postings in Bay Region and Silicon Valley Sub-Region

Table 3. Number of Job Postings by Occupation for latest 12 months (May 2021 - Apr 2022)

Occupation	Bay Region	Silicon Valley
Photographers	1,260	311

Occupation	Bay Region	Silicon Valley
Fine Artists, Including Painters, Sculptors, and Illustrators	1,180	273
Photographic Process Workers and Processing Machine Operators	386	114
Museum Technicians and Conservators	77	6

Source: Burning Glass

Table 4a. Top Job Titles for Digital Photography Occupations for latest 12 months (May 2021 - Apr 2022) Bay Region

Title	Bay	Title	Bay
Photographer	155	School Photographer	23
Technical Artist	54	Automotive Photographer	23
Lash Artist	46	Wedding Photographer	21
Clinical Research Ophthalmic Photographer	44	Seasonal Studio Photographer	20
Generator Technician	37	3D Artist	19
Dealership Photographer/Porter	36	Pre-School Photographer	18
Mac Artist	35	Dealership Inventory Photographer/Porter	18
Assistant - Trainee Photographer Graduation Event	32	Real Estate Photographer	17
Newborn Photographer	24	Artist	17
Freelance Photographer	24	Studio Photographer	16

Source: Burning Glass

Table 4b. Top Job Titles for Digital Photography Occupations for latest 12 months (May 2021 - Apr 2022) Silicon Valley Sub-Region

Title	Silicon Valley	Title	Silicon Valley
Photographer	34	Photographer - Photos	8
Lash Artist	18	School Photographer	8
Clinical Research Ophthalmic Photographer	13	Developer, Full Stack IV	7
Dealership Photographer/Porter	11	Cgi Artist	6
Photo Technician	9	Dealership Inventory Photographer/Porter	6
Generator Technician	9	Full-Stack React Developer	6
Assistant - Trainee Photographer Graduation Event	8	Mac Artist - Valley Fair	6

Title	Silicon Valley	Title	Silicon Valley
Mac Artist	8	Studio Photographer	6
Mern Stack Developer	8	3D Artist	5

Source: Burning Glass

Industry Concentration

Table 5. Industries hiring Digital Photography Workers in Bay Region

Industry - 6 Digit NAICS (No. American Industry Classification) Codes	Jobs in Industry (2020)	Jobs in Industry (2025)	% Change (2020-25)	% Occupation Group in Industry (2020)
All Other Professional, Scientific, and Technical Services	3,318	4,043	22%	35%
Independent Artists, Writers, and Performers	2,019	2,364	17%	21%
Photography Studios, Portrait	667	686	3%	7%
Commercial Photography	451	599	33%	5%
Internet Publishing and Broadcasting and Web Search Portals	255	329	29%	3%
Museums	294	225	-24%	3%
Translation and Interpretation Services	227	284	25%	2%
Marketing Research and Public Opinion Polling	123	146	19%	1%
Other Spectator Sports	131	89	-32%	1%
Motion Picture and Video Production	120	131	10%	1%

Source: EMSI 2021.4

Table 6. Top Employers Posting Digital Photography Occupations in Bay Region and Silicon Valley Sub-Region (May 2021 - Apr 2022)

Employer	Bay	Employer	Silicon Valley
Pro Motionpix, Llc	151	Pro Motionpix, Llc	53
Estee Lauder Company	101	Estee Lauder Company	24
Facebook	42	Apple Inc.	19
Stanford Medicine	41	Cherry Hill Programs	13
Shutterfly	37	Stanford Medicine	11
Disney	37	Nationwide Studios Incorporated	11
Cherry Hill Programs	35	Pinnacle Group	9
Lifetouch	34	Nvidia Corporation	9

Employer	Bay	Employer	Silicon Valley
Nationwide Studios Inc.	31	Kapturly	8
Electronic Arts Incorporated	30		

Source: Burning Glass

Educational Supply

There are seven (7) community colleges in the Bay Region issuing 45 awards on average annually (last 3 years ending 2018-19) on TOP 1012.00 Applied Photography. In the Silicon Valley Sub-Region, there is one (1) community college that issued 8 awards on average annually (last 3 years) on this TOP code.

There are a six (6) other CTE educational institutions in the Bay Region issuing 178 awards on average annually (last 3 years ending 2016-17) on TOP 1012.00 Applied Photography. There is one (1) other CTE educational institution in the Silicon Valley Sub-Region issuing three (3) awards on average annually (last 3 years) on this TOP code.

Table 7a. Community College Awards on TOP 1012.00 Applied Photography in Bay Region

College	Subregion	Associate	Certificate Low	Total
Chabot	East Bay	3	1	4
De Anza	Silicon Valley	1	7	8
Laney	East Bay	1	1	2
Napa	North Bay	0	1	1
Ohlone	East Bay	0	0	0
San Francisco	Mid-Peninsula	0	26	26
Solano	North Bay	2	2	4
Total		**7**	**38**	**45**

Source: Data Mart

Note: The annual average for awards is 2016-17 to 2018-19.

Table 7b. Other CTE Institutions Awards on TOP 1012.00 Applied Photography in Bay Region

College	Subregion	Associate Degree	Bachelor's Degree	Total
Academy of Art University	Mid-Peninsula	48	80	128
Argosy University-The Art Institute of California-San Francisco	Mid-Peninsula	7	3	10
Argosy University-The Art Institute of California-Silicon Valley	Silicon Valley	2	1	3
California College of the Arts	Mid-Peninsula	0	10	10
Pacific Union College	North Bay	0	2	2

College	Subregion	Associate Degree	Bachelor's Degree	Total
San Francisco Art Institute	Mid-Peninsula	0	25	25
Total		**57**	**121**	**178**

Source: Data Mart

Note: The annual average for awards is 2016-17 to 2018-19.

Gap Analysis

Based on the data included in this report, there is a large labor market gap in the Bay region with 904 annual openings for the Digital Photography occupational cluster and 223 annual (3-year average) awards for an annual undersupply of 681 students. In the Silicon Valley Sub-Region, there is also a gap with 157 annual openings and 11 annual (3-year average) awards for an annual undersupply of 146 students.

Student Outcomes

Table 8. Four Employment Outcomes Metrics for Students Who Took Courses on TOP 1012.00 Applied Photography

Metric Outcomes	Bay All CTE Programs	Foothill All CTE Programs	State 1012.00	Bay 1012.00	Silicon Valley 1012.00	Foothill 1012.00
Students with a Job Closely Related to Their Field of Study	74%	91%	52%	46%	69%	N/A
Median Annual Earnings for SWP Exiting Students	$47,419	$66,288	$25,751	$34,429	$34,129	$36,121
Median Change in Earnings for SWP Exiting Students	23%	43%	21%	21%	25%	N/A
Exiting Students Who Attained the Living Wage	52%	64%	35%	37%	29%	N/A

Source: Launchboard Strong Workforce Program Median of 2017 to 2020.

Skills and Education

Table 9. Top Skills for Digital Photography Occupations in Bay Region (May 2021 - Apr 2022)

Skill	Posting	Skill	Posting
Photography	1,268	Budgeting	150
Adobe Photoshop	502	Adobe Acrobat	149
Customer Service	399	Art Direction	147
Maya	392	Graphic Design	147
Social Media	289	Adobe Creative Suite	144
Scheduling	276	EPIC Unreal Engine	134
Python	206	Cosmetics Industry Knowledge	130
Retail Industry Knowledge	179	Zbrush	121

Skill	Posting	Skill	Posting
Adobe Illustrator	169	Sales Goals	120
Adobe Indesign	166	3D Modeling / Design	114
Lifting Ability	156	Game Development	113
Videography	154	Digital Photography	103
Sales	153	Teaching	103
Animation	152		

Source: Burning Glass

Table 10. Education Requirements for Digital Photography Occupations in Bay Region

Education (minimum advertised)	Latest 12 Mos. Postings	Percent 12 Mos. Postings
High school or vocational training	632	51%
Associate's degree	36	3%
Bachelor's degree and higher	580	46%

Source: Burning Glass

Note: 54% of records have been excluded because they do not include a degree level. As a result, the chart below may not be representative of the full sample.

Methodology

Occupations for this report were identified by use of skills listed in O*Net descriptions and job descriptions in Burning Glass. Labor demand data is sourced from Economic Modeling Specialists International (EMSI) occupation data and Burning Glass job postings data. Educational supply and student outcomes data is retrieved from multiple sources, including CTE Launchboard and CCCCO Data Mart.

Sources

O*Net Online
Labor Insight/Jobs (Burning Glass)
Economic Modeling Specialists International (EMSI)
CTE LaunchBoard www.calpassplus.org/Launchboard/
Statewide CTE Outcomes Survey
Employment Development Department Unemployment Insurance Dataset
Living Insight Center for Community Economic Development
Chancellor's Office MIS system

Contacts

For more information, please contact:

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Foothill College
Credit Program Narrative
Certificate of Achievement in Educational Immersive Media

Item 1. Program Goals and Objectives

Students in the Certificate of Achievement in Educational Immersive Media program will gain an understanding of immersive media in education and how it can be used to foster engagement and learning, while taking into consideration ethical and legal issues related to using innovative technology. Students will learn to design and create immersive media experiences using software and hardware, integrate these experiences into curriculum and instruction, and evaluate their effectiveness in enhancing learning outcomes. They will also learn how to engage in collaboration and communication with other educators in virtual environments. Students will understand current trends and future directions of immersive media in education, and opportunities for innovation and research in the field. Upon completion, students will be prepared to integrate immersive media into their instruction and evaluate its effectiveness in enhancing learning outcomes. These skills will enable students to expand their job and career opportunities into innovative and rapidly expanding fields.

Program Learning Outcomes:

- Students will be able to understand the principles and history of immersive media in education, including its role in fostering engagement and learning.
- Students will be able to design and create immersive media experiences for various learning contexts and audiences.
- Students will be able to use various software and hardware tools for creating immersive media.
- Students will be able to understand how to integrate immersive media into curriculum and instruction, and evaluate the effectiveness of these experiences in enhancing learning outcomes.
- Students will be able to evaluate and use existing immersive media resources in education, including VR/AR apps, games, and simulations.
- Students will be able to understand the ethical and legal considerations in creating and using immersive media in education, including issues related to privacy, accessibility, and intellectual property.
- Students will be able to collaborate and communicate effectively with other educators and experts in the field of immersive media in education.
- Students will be able to design and implement assessment and evaluation strategies for immersive media experiences.
- Students will be able to understand the current trends and future directions of immersive media in education, and identify opportunities for innovation and research in the field.

Item 2. Catalog Description

The Certificate of Achievement in Educational Immersive Media is designed to provide educators and instructional designers with the knowledge and skills needed to design, develop, and implement immersive media experiences for learning. The program covers the principles and history of immersive media in education, software and hardware tools for creating immersive

media, and how to integrate immersive media into curriculum and instruction. Students will learn how to evaluate and use existing immersive media resources, as well as how to use data and analytics to evaluate the impact of immersive media on student learning and engagement. Upon completion of the program, students will have gained a comprehensive understanding of immersive media in education and will have the skills to create and implement immersive media experiences that enhance student engagement and learning outcomes.

Item 3. Program Requirements

Requirements	Course #	Title	Units	Sequence
Core Courses (14 units)	LINC 75A	Introduction to Instructional Design & Technology	3	Yr 1, Fall
	LINC 75C	Designing Online Instruction	3	Yr 1, Winter
	LINC 79A	Introduction to Immersive Media in Education	2	Yr 1, Fall
	LINC 79B	Socio-Emotional Learning through Immersive Media	2	Yr 1, Winter
	LINC 79C	Educational Exploration through Immersive Media	2	Yr 1, Spring
	LINC 79D	Collaboration in Virtual Educational Environments	2	Yr 1, Spring
Restricted Electives (select 4 units)	LINC 57A	Welcoming & Engaging Students in the Online Environment	3	Yr 1, Fall
	LINC 57B	Creating Community in the Online Environment	3	Yr 1, Winter
	LINC 58	Global Project-Based Learning	2	Yr 1, Spring
	LINC 67	Designing Web-Based Learning Projects	1	Yr 1, Spring
	LINC 90C	Online Collaboration Tools	2	Yr 1, Winter
	LINC 93B	Assistive Technology & Universal Access	1	Yr 1, Fall
	LINC 95B	Technology Ethics & Educational Law	1	Yr 1, Spring
	LINC 98	Teaching & Learning in the Digital Age	1	Yr 1, Fall

TOTAL UNITS: 18 units

Proposed Sequence:
Year 1, Fall = 6 units
Year 1, Winter = 6 units
Year 1, Spring = 6 units
TOTAL UNITS: 18 units

Item 4. Master Planning
The Certificate of Achievement in Educational Immersive Media aligns with the mission of Foothill College by promoting democratic ideals within classrooms. By providing immersive and interactive learning experiences, VR and AR technology can engage and motivate students from

diverse backgrounds and abilities, fostering a sense of equity in educational outcomes. The incorporation of immersive media into classrooms can also serve as a means of promoting global citizenship by allowing virtual explorations of diverse cultures and perspectives. This not only enhances the education of individual students, but also contributes to the cultivation of a well-educated population, which is a core element of Foothill College's mission statement. Bringing this innovative and rapidly growing technology to today's students, and therefore tomorrow's workforce, enhances the college's commitment to empowering students, achieving equity in student outcomes, and producing global citizens. Finally, Foothill College has specifically been pursuing the integration of VR technology into curricula across a variety of disciplines. This is in alignment with several notable higher education institutions, such as Stanford University and Santa Clara University, who are also devoting resources to the exploration and creation of immersive media learning environments.

Item 5. Enrollment and Completer Projections

While this certificate can be completed on its own, it is intended to be a natural pathway for completers of the Certificate of Achievement in Online and Blended Instruction. Between 25 and 50 students annually are projected to complete the certificate, initially. This estimate is based on current completion numbers for the Certificate of Achievement in Online and Blended Instruction, with an understanding that not all students will continue on to the immersive media specialization. As this technology grows and access/interest expands, it is highly likely that this certificate may transition to a more robust certificate focused exclusively on immersive media, and will eventually be completely separate from the Certificate of Achievement in Online and Blended Instruction. In five years, as many as 100-200 students could potentially complete the Certificate of Achievement in Educational Immersive Media each year.

		Year 1		Year 2	
Course #	Course Title	Annual Sections	Annual Enrollment	Annual Sections	Annual Enrollment
LINC 57A	Welcoming & Engaging Students in the Online Environment	N/A	N/A	1	36
LINC 57B	Creating Community in the Online Environment	N/A	N/A	N/A	N/A
LINC 58	Global Project-Based Learning	N/A	N/A	1	26
LINC 67	Designing Web-Based Learning Projects	2	63	N/A	N/A
LINC 75A	Introduction to Instructional Design & Technology	2	92	2	46
LINC 75C	Designing Online Instruction	2	79	2	48
LINC 79A	Introduction to Immersive Media in Education	N/A	N/A	N/A	N/A

LINC 79B	Socio-Emotional Learning through Immersive Media	N/A	N/A	N/A	N/A
LINC 79C	Educational Exploration through Immersive Media	N/A	N/A	N/A	N/A
LINC 79D	Collaboration in Virtual Educational Environments	N/A	N/A	N/A	N/A
LINC 90C	Online Collaboration Tools	1	34	2	61
LINC 93B	Assistive Technology & Universal Access	2	77	2	45
LINC 95B	Technology Ethics & Educational Law	N/A	N/A	N/A	N/A
LINC 98	Teaching & Learning in the Digital Age	4	129	3	74

Item 6. Place of Program in Curriculum/Similar Programs

This program will build upon the foundations of the current Certificate of Achievement in Online and Blended Instruction, with a specific focus on immersive media. Students will be able to apply core concepts from the Certificate of Achievement in Online and Blended Instruction (such as instructional design, equity, engagement, assessment, and cultivating presence) in the specialized area of immersive media in order to maximize the potential of this innovative technology. As additional courses and programs related to virtual reality immersive media are developed at Foothill College, students in this certificate may choose to expand their skills into other disciplines (such as 3-D/graphic design) in order to continue to grow their expertise in the field.

Item 7. Similar Programs at Other Colleges in Service Area

There are a number of burgeoning programs at several institutions in California that focus on virtual and/or augmented reality, but they are primarily focused on the creation of digital media assets or animation for these platforms. This program differs in that it does not focus on the skills necessary for the creation of digital 3-D materials, but rather explores the ways in which existing and anticipated immersive media technology can be utilized and implemented in educational settings.

Additional Information Required for State Submission:

TOP Code: 0860.00 - Education Technology

Annual Completers: 25-200

Net Annual Labor Demand: 2,056

Faculty Workload: Load increase of 0.178 annually (in addition to existing Online and Blended Instruction program load)

New Faculty Positions: 0

New Equipment: $5000 for VR headsets for students to use in the program if they cannot purchase their own

New/Remodeled Facilities: 0

Library Acquisitions: 0

Gainful Employment: Yes

Program Review Date: February, 2027

Distance Education: 50-99%

Labor Market Information Report
Educational Immersive Media Occupations
Foothill College

Prepared by the San Francisco Bay Center of Excellence for Labor Market Research

January 2023

Recommendation

Based on all available data, there appears to be an "undersupply" of Educational Immersive Media workers compared to the demand for this cluster of occupations in the Bay region and in the Silicon Valley sub-region (Santa Clara county). There is a projected annual gap of about 2,056 students in the Bay region and 636 students in the Silicon Valley Sub-Region.

Introduction

This report provides student outcomes data on employment and earnings for TOP 0860.00 Educational Technology programs in the state and region. It is recommended that these data be reviewed to better understand how outcomes for students taking courses on this TOP code compare to potentially similar programs at colleges in the state and region, as well as to outcomes across all CTE programs at Foothill College and in the region.

This report profiles Educational Immersive Media Occupations in the 12 county Bay region and in the Silicon Valley sub-region for an Educational Immersive Media (Virtual/Augmented Reality) certificate at Foothill College.

Labor market information (LMI) is not available at the eight-digit SOC Code level for Distance Learning Coordinators (11-9039.01), therefore, the data shown in Tables 1 and 2 is for Education Administrators, All Other (at the six digit SOC level) <u>and likely overstates demand for Distance Learning Coordinators.</u>

- **Training and Development Managers (11-3131):** Plan, direct, or coordinate the training and development activities and staff of an organization.
  Entry-Level Educational Requirement: Bachelor's degree
  Training Requirement: None
  Percentage of Community College Award Holders or Some Postsecondary Coursework: 21%

- **Education Administrators, All Other (11-9039):** All education administrators not listed separately.
  Entry-Level Educational Requirement: Bachelor's degree
  Training Requirement: None
  Percentage of Community College Award Holders or Some Postsecondary Coursework: 12%

- **Training and Development Specialists (13-1151):** Design and conduct training and development programs to improve individual and organizational performance. May analyze training needs.
  Entry-Level Educational Requirement: Bachelor's degree
  Training Requirement: None
  Percentage of Community College Award Holders or Some Postsecondary Coursework: 32%

- **Instructional Coordinators (25-9031):** Develop instructional material, coordinate educational content, and incorporate current technology in specialized fields that provide guidelines to educators and instructors for developing curricula and conducting courses. Includes educational consultants and specialists, and instructional material directors.
  - Entry-Level Educational Requirement: Master's degree
  - Training Requirement: None
  - Percentage of Community College Award Holders or Some Postsecondary Coursework: 13%

Occupational Demand

Table 1. Employment Outlook for Educational Immersive Media Occupations in Bay Region

Occupation	2020 Jobs	2025 Jobs	5-yr Change	5-yr % Change	5-yr Total Openings	Annual Openings	25% Hourly Earning	Median Hourly Wage
Training and Development Managers	2,151	2,168	17	1%	1,034	207	$57	$76
Education Administrators, All Other	4,045	4,931	886	22%	2,677	535	$36	$47
Training and Development Specialists	8,810	9,185	375	4%	4,767	953	$28	$39
Instructional Coordinators	4,360	4,334	-26	-1%	2,283	457	$27	$36
Total	**19,366**	**20,618**	**1,252**	**6%**	**10,761**	**2,152**		

Source: EMSI 2022.3

Bay Region includes: Alameda, Contra Costa, Marin, Monterey, Napa, San Benito, San Francisco, San Mateo, Santa Clara, Santa Cruz, Solano and Sonoma Counties

Table 2. Employment Outlook for Educational Immersive Media Occupations in Silicon Valley Sub-region

Occupation	2020 Jobs	2025 Jobs	5-yr Change	5-yr % Change	5-yr Total Openings	Annual Openings	25% Hourly Earning	Median Hourly Wage
Training and Development Managers	621	646	24	4%	303	61	$62	$79
Education Administrators, All Other	1,177	1,738	560	48%	1,130	226	$42	$48
Training and Development Specialists	2,382	2,310	-73	-3%	1,199	240	$30	$43
Instructional Coordinators	1,142	1,197	55	5%	631	126	$29	$37
Total	**5,323**	**5,890**	**567**	**11%**	**3,263**	**653**		

Source: EMSI 2022.3

Silicon Valley Sub-Region includes: Santa Clara County

Table 3. Number of Job Postings by Occupation for 12 months (Nov. 2021 – Oct. 2022)

Occupation	Bay Region	Silicon Valley
Training and Development Specialists	2,880	833
Training and Development Managers	1,221	258
Instructional Coordinators	668	161
Education Administrators, All Other	8	2

Source: Burning Glass

Table 4a. Top Job Titles for Educational Immersive Media Occupations for 12 months (Nov. 2021 – Oct. 2022)
Bay Region

Title	Bay	Title	Bay
Training Coordinator	125	Capabilities Development Specialist	41
Director of Staff Development	115	Director of Staff Development	35
Education Coordinator	105	Program Coordinator, Senior Workforce Development	32
Training Specialist	93	Technical Trainer	32
Safety And Training Manager	85	Director, Talent Management	29
Trainer	80	Engagement Trainer	29
Training Manager	70	Talent Development Coordinator	29
Supervisor And Training	61	Supervisor And Training - Walmart Stores	25
Professional Development Trainer	45	Learning Specialist	24

Source: Burning Glass

Table 4b. Top Job Titles for Educational Immersive Media Occupations for 12 months (Nov. 2021 – Oct. 2022)
Silicon Valley Sub-Region

Title	Silicon Valley	Title	Silicon Valley
Training Coordinator	42	Team Member Trainer	12
Education Coordinator	32	Training Coordinator For Operations	12
Trainer	24	Engagement Trainer	11
Training Specialist	23	Developmental Specialist	9
Director Of Staff Development	22	Director Of Staff Development Dsd	9
Training Coordinator II	18	Technical Trainer	9
Training Manager	16	Bakery Training Specialist	8

Title	Bay	Title	Bay
Supervisor And Training	13	Behavior Technician Bt With Paid Training	7
Talent Development Coordinator	13	Center Director In Training	7

Source: Burning Glass

Industry Concentration

Table 5. Industries hiring Educational Immersive Media Workers in Bay Region

Industry - 6 Digit NAICS (No. American Industry Classification) Codes	Jobs in Industry (2020)	Jobs in Industry (2025)	% Change (2020-25)	% Occupation Group in Industry (2020)
Elementary and Secondary Schools (Local Government)	1,410	1,519	8%	8%
Colleges, Universities, and Professional Schools	1,114	1,400	26%	7%
Educational Support Services	736	906	23%	4%
Elementary and Secondary Schools	643	743	16%	4%
Corporate, Subsidiary, and Regional Managing Offices	677	588	-13%	3%
Custom Computer Programming Services	664	733	10%	3%
Colleges, Universities, and Professional Schools (State Government)	685	558	-19%	3%
Software Publishers	551	595	8%	3%
Local Government, Excluding Education and Hospitals	521	535	3%	3%
Internet Publishing and Broadcasting and Web Search Portals	961	522	-46%	2%

Source: EMSI 2022.3

Employer	Bay	Employer	Silicon Valley
Deloitte	91	Stanford University	69
Walmart / Sam's	89	Deloitte	33
Stanford University	87	Walmart / Sam's	19
University Of California	86	Clarity Consultants	19
Transdevna	62	Servicenow	17
National Security Agency	42	C2Educate	14

Source: Burning Glass

Table 6. Top Employers Posting Educational Immersive Media Occupations in Bay Region and Silicon Valley Sub-Region (Nov. 2021 – Oct. 2022)

Educational Supply

There are two (2) community colleges in the Bay Region issuing 18 awards on average annually (last 3 years ending 2019-20) on TOP 0860.00 - Educational Technology. In the Silicon Valley Sub-Region, there is a one (1) community college (Foothill College) that issued 17 awards on average annually (last 3 years) on this TOP code.

There are a five (5) other educational institutions in the Bay Region issuing 78 awards on average annually (last 3 years ending 2019-20) on CIP 13.0501- Educational/Instructional Technology. There are no other educational institution in the Silicon Valley Sub-Region issuing awards on average annually (last 3 years) on this CIP code.

Table 7a. Community College Awards on TOP 0860.00 - Educational Technology in Bay Region

College	Subregion	Low unit Certificate	Total
Foothill	Silicon Valley	17	17
Merritt	East Bay	1	1
Total		**18**	**18**

Source: Data Mart

Note: The annual average for awards is 2017-18 to 2019-20.

Table 7b. Other Educational Institutions Awards on CIP 13.0501 - Educational/Instructional Technology in Bay Region

College	Subregion	Bachelor's degree	Master's degree	Total
Academy of Art University	Mid-Peninsula	6	9	15
Touro University California	North Bay	0	14	14
University of San Francisco	Mid-Peninsula	0	1	1
California State University-East Bay	East Bay	0	11	11
California State University-Monterey Bay	SC-Monterey	0	37	37
Total		**6**	**72**	**78**

Source: IPEDS

Note: The annual average for awards is 2017-18 to 2019-20.

Gap Analysis

Based on the data included in this report, there is a labor market gap in the Bay region with 2,152 annual openings for the Educational Immersive Media occupational cluster and 96 annual (3-year average) awards for an annual undersupply of 2,056 students. In the Silicon Valley Sub-Region, there is also a gap with 653 annual openings and 17 annual (3-year average) awards for an annual undersupply of 636 students.

Student Outcomes

Table 8. Four Employment Outcomes Metrics for Students Who Took Courses on TOP 0860.00 - Educational Technology

Metric Outcomes	Bay All CTE Programs	Foothill All CTE Programs	State 0860.00	Bay 0860.00	Silicon Valley 0860.00	Foothill 0860.00
Students with a Job Closely Related to Their Field of Study	74%	91%	88%	90%	86%	86%
Median Annual Earnings for SWP Exiting Students	$47,419	$66,288	$85,341	$90,496	$94,740	$94,188
Median Change in Earnings for SWP Exiting Students	23%	43%	9%	9%	10%	10%
Exiting Students Who Attained the Living Wage	52%	64%	77%	82%	80%	83%

Source: Launchboard Strong Workforce Program Median of 2017 to 2020.

Skills, Certifications and Education

Table 9. Top Skills for Educational Immersive Media Occupations in Bay Region (Nov. 2021 – Oct. 2022)

Skill	Posting	Skill	Posting
Training Programs	1,035	Administrative Support	253
Scheduling	1,001	Cardiopulmonary Resuscitation (CPR)	253
Teaching	877	Stakeholder Management	249
Project Management	827	Quality Assurance and Control	248
Training Materials	675	Sales	247
Onboarding	574	Leadership Development	234
Budgeting	567	Educational Programs	230
Customer Service	551	Psychology	230
Staff Management	480	Talent Management	230
Vaccination	445	Employee Training	224
Instructional Design	430	New Hire Orientation	215
Learning Management System	416	Record Keeping	215
Staff Development	382	Change Management	213
Technical Training	302	Data Analysis	211

Source: Burning Glass

Table 10. Certifications for Educational Immersive Media Occupations in Bay Region (Nov. 2021 – Oct. 2022)

Certification	Posting	Certification	Posting
Driver's License	555	ServSafe	29
Licensed Vocational Nurse (LVN)	193	Board Certified Behavior Analyst (BCBA)	28
First Aid Cpr Aed	160	Train The Trainer	26
Registered Nurse	78	Project Management Professional (PMP)	22
Certified Teacher	56	Epic Certification	22
Basic Life Saving (BLS)	54	Administrative Services Credential	20
Registered Behavior Technician	49	Security Clearance	19
Basic Cardiac Life Support Certification	43	Personal Fitness Trainer Certification	17
Project Management Certification	36	Cdl Class C	15
Certified Hospice and Palliative Nurse (CHPN)	34	Professional in Human Resources	14

Source: Burning Glass

Table 11. Education Requirements for Educational Immersive Media Occupations in Bay Region

Education (minimum advertised)	Latest 12 Mos. Postings	Percent 12 Mos. Postings
High school or vocational training	570	18%
Associate's degree	142	4%
Bachelor's degree and higher	3,131	78%

Source: Burning Glass

Methodology

Occupations for this report were identified by use of skills listed in O*Net descriptions and job descriptions in Burning Glass. Labor demand data is sourced from Economic Modeling Specialists International (EMSI) occupation data and Burning Glass job postings data. Educational supply and student outcomes data is retrieved from multiple sources, including CTE Launchboard and CCCCO Data Mart.

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