

College Curriculum Committee Meeting Agenda
Tuesday, January 29, 2013
2:00 p.m. - 3:30 p.m.
President's Conference Room

Item	Action	Attachment	Presenter/Time
1. Minutes: January 15, 2013	Action	#1/29/13-1	Holcroft - 3 min
2. Announcements a. New Course Proposal b. Report out from Divisions c. Upcoming events	Information	#1/29/13-2	Holcroft - 3 min Curr Reps - 7 min Holcroft - 3 min
3. Consent Calendar: a. Stand Alone Applications	Action	#1/29/13-3 thru 50	Holcroft - 5 min
4. Prerequisite Content Review	Discussion	#1/29/13-51 thru 53	Holcroft - 20 min
5. Curriculum Structure & Function	Discussion		Holcroft - 20 min
6. New Course Proposal Process Issues	Discussion	#1/29/13-54 & 55	Holcroft - 15 min

Consent Calendar

FH General Education:

None

Stand Alone: (Attachment # 3-50)

APEL 120A, 121A, 122A, 124A, APIW 117, APPR 152, 153, 154, 155, 156, 157, 158, 160A, 162A, 162B, 162C, 166, APPT 131, 133, 138, 139A, 144A, 146, 147A, 147B, 148, 154, 155, 156, 157, 159, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, APRT 111, 140A, 156A, 156B, JRYM 174A, NCLA 406A, 460B

Attachment List:

#1/29/13-1 Draft Minutes: January 15, 2013
#1/29/13-2 New Course Proposal-COMM 15
#1/29/13-51 Prereqs_CCC_Jan29_2013
#1/29/13-52 English_Rubric_DFinal_April09
#1/29/13-53 MathRubric_DFinal_April09
#1/29/13-54 New Course Resolution Final
#1/29/13-55 New Course Proposal Form

2012 -2013 Curriculum Committee Meetings

Fall 2012 Quarter:

10/2/12
10/16/12
11/6/12
11/20/12
12/4/12

Winter 2013 Quarter

1/15/13
1/29/13
2/5/13
2/19/13
3/5/13
3/19/13

Spring 2013 Quarter

4/16/13
4/30/13
5/7/13
5/21/13
6/4/13
6/18/13

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

2012-2013 Curriculum Deadlines

~~12/1/12~~ Deadline to submit courses to CSU for CSU GE approval.

~~12/1/12~~ Deadline to submit courses to UC/CSU for IGETC approval.

~~12/7/12~~ COR/Title 5 Updates for Fall 2013.

3/1/13 Curriculum Sheet Updates for 2013-14.

6/1/13 Deadline to submit new/revised courses to UCOP for UC transferability

Ongoing Submission of courses for C-ID approval and course-to-course articulation with individual colleges and universities.

2012-2013 Professional Development Opportunities & Conferences of Interest

~~11/8-10/12~~ ~~[Next Generation STEM Learning: Investigate, Innovate, Inspire](#)~~, Kansas, MO.

~~11/8-10/12~~ ~~[ASCCC Fall Plenary Session](#)~~ ~~Irvine Marriott Hotel.~~

2/8/12** Global Citizenship Pathway - SJSU/WVC curriculum collaboration model.
President's Conference Room, 12-1 p.m. (Compass II Networking Grant)

2/28-3/2/13 [General Education & Assessment: A Sea Change in Student Learning](#), Boston Park Plaza, Boston, MA.

4/4-6/13 [Student Success & the Quality Agenda](#), Miami, FL.

4/18-20/13 [ASCCC Spring Plenary](#), Westin San Francisco Airport.

6/13-15/13 [ASCCC Faculty Leadership Institute](#), Sheraton Grand, Sacramento.

7/11-13/13 [ASCCC Curriculum Institute](#), Sheraton Park Hotel, Anaheim.

Distribution:

Kathy Armstrong (PSME), Judy Baker (Dean), Rachelle Campbell (BH), Bea Cashmore (ALD), Jerry Cellilo (CNSL), Dolores Davison (AS President), Bernie Day (Articulation Officer), Teresa de la Cruz (Articulation), Isaac Escoto (CNSL), John Fox (BSS), Marnie Francisco (PSME), Stephanie Franco (Evaluations), Patricia Gibbs (BSS), Brenda Hanning (BH), Carolyn Holcroft (Faculty co-chair), Kay Jones (LIBR), Kate Jordahl (F A), Marc Knobel (PSME), Don MacNeil (P E), Jean McCarron (Instr), Kimberlee Messina (VP, Instruction, Administrator co-chair), Peter Murray (Dean, PSME), Simon Pennington (FA), Barbara Shewfelt (P E), Paul Starer (Dean, L A), Kella Svetich (L A), Mary Thomas (LIBR).

COLLEGE CURRICULUM COMMITTEE

Committee Members - Fall 12-13

Meeting Date: 1/29/13Co-Chairs (2)

✓	Carolyn Holcroft	7429	Vice President, Academic Senate (tiebreaker vote only)	holcrofthurnscarolyn@foothill.edu
✓	Kimberlee Messina	7209	Vice President, Instruction	messinakimberlee@foothill.edu

Voting Membership-12 total; 1 vote per division

✓	Kathy Armstrong	7487	PSME	armstrongkathy@foothill.edu
✓	Falk Cammin (P)	7442	L A	camminfalk@foothill.edu
✓	Rachelle Campbell (S)	7469	BH	campbellrachelle@foothill.edu
✓	Bea Cashmore	7094	ALD	cashmorebeatrice@foothill.edu
✓	Jerry Cellilo	7224	CNSL	cellilojerry@fhda.edu
✓	Bernie Day	7225	Articulation	daybernie@foothill.edu
✓	Isaac Escoto	7350	CNSL	escotoisaac@foothill.edu
✓	John Fox	7419	BSS	foxjohn@fhda.edu
✓	Marnie Francisco	7420	PSME	franciscomarnie@foothill.edu
✓	Patricia Gibbs	7474	BSS	gibbspatricia@foothill.edu
✓	Brenda Hanning	7466	BH	hanningbrenda@foothill.edu
✓	Kay Jones	7602	LIBR	joneskay@foothill.edu
✓	Kate Jordahl	7318	F A	jordahlkate@foothill.edu
✓	Marc Knobel	7049	PSME	knobelmarc@foothill.edu
✓	Don MacNeil	6967	P E	macneildan@foothill.edu
✓	Simon Pennington	7015	F A	penningtonsimon@fhda.edu
✓	Barbara Shewfelt	7658	P E	shewfeltbarbara@foothill.edu
✓	Kella Svetich (W, S)	7924	L A	svetichkella@foothill.edu
✓	Mary Thomas	7522	LIBR	thomasmary@foothill.edu
✓	Judy Baker	7388	Dean	bakerjudy@foothill.edu
✓	Peter Murray	7472	Dean	murraypeter@foothill.edu
✓	Paul Starer	7227	Dean	starerpaul@foothill.edu

Non-Voting Members (4)

✓	Teresa de la Cruz	7638	Articulation Assistant	delacruzteresa@foothill.edu
✓	Stephanie Franco	7231	Evaluations	francostephanie@foothill.edu
✓	Jean McCarron	7371	Curr/Schedule Asst.	mccarronjean@fhda.edu
✓	Cori Nuñez	7439	Curr Coordinator	nunezcori@foothill.edu
✓	Mariam Mostafa		ASFC	supermariam93@yahoo.com

Visitors:Robert Hartwell FA.

**College Curriculum Committee
Meeting Minutes
Tuesday, January 15, 2013
2:05 p.m. - 3:31 p.m.
President's Conference Room**

<u>Item</u>	<u>Discussion</u>
1. Minutes: December 4, 2012	Minutes approved as written. M/S (Armstrong/Fox) Approved , 1 abstention.
2. Announcements a. Review CCC 12-13 Working Plan b. New Course Proposals c. Report out from Divisions d. Upcoming events	Speaker: Carolyn Holcroft a. Holcroft reminded that the CCC Working Topics document is a great summary of the business items the curriculum committee has pending. If anyone has any items to add, please let any of the Curriculum Team members know. b. There are 14 proposals that were last minute additions to the curriculum cycle in December. Reminder that proposals provided for dissemination to constituent faculty for information and review. If faculty have any questions/concerns regarding the proposed courses, they should contact their CCC rep and the faculty author for discussion. c. No reports: reps indicated no changes in their divisions that would potentially affect other divisions/programs. d. Reminder: Global Citizenship Pathway meeting on Feb. 8th in the President's Conference Room, 12-1. We will be hosting faculty from SJSU and WVC who will share with us their curriculum collaboration and discuss how we might include Foothill.
3. Consent Calendar: a. Stand Alone Applications	Speaker: Carolyn Holcroft The following course Stand Alone Applications were presented: APEL 120A, 121A, 122A, 124A, JFS 307, 308A, 308B, P A 311A-F, 315A-F, 321A-F, 331A-F, 341A-F. M/S to approve as written (Starer/Fox). Approved.
4. Anthropology AA-T	Speaker: Carolyn Holcroft Kathryn Mauer was present to respond to questions. Baker made some suggestions to the wording of the program description, Mauer will make to the final application before it is forwarded to the FHDA Board. M/S (Day/Fox) Approved.
5. Leadership & Service Certificate of Achievement	Speaker: Carolyn Holcroft Daphne Small was present to respond to any questions. Fox suggested that Small consider adding SOC 28 as an option under the Cultural Competency section. Small agreed to consider that addition. There was general discussion regarding what constitutes "need" for certificates. Armstrong asked if it is within the purview of CCC to determine if there is a need for certificates. Holcroft confirmed that it is most definitely part of the CCC's responsibilities. Discussed potential advantages and disadvantages to proposed certificate. Program is a reconfiguration of courses that already exist and certificate is transcriptable, "value added" especially for students attempting to make themselves more attractive to transferring institutions. M/S to approve (Escoto/Fox) Approved.
6. Fall 2012 Curriculum Submissions Summary and Planning	Speaker: Carolyn Holcroft Holcroft reminded CCC of the history of curriculum process

	<p>at Foothill. In 1994 we moved from a college-wide curriculum committee to a Divisional curriculum committee structure, and those faculty that had served on the CCC and had the in-depth knowledge of curriculum requirements assisted with forming the division cc's and trained others. Through faculty attrition and Title 5 changes, we have begun to unravel. It is becoming increasingly apparent that we are not managing our curriculum as required by the Ed Code, Title 5 and the State Chancellor's Office. Presented brief overview of multitude of problems ranging from minor to major. Cannot continue in this manner. With this in mind, the curriculum team suggested two possible courses of action: 1) return to a central curriculum approval system or 2) make a commitment to restoring Division CC's functionality. Option 2 would require monthly divisional CC meetings with agendas and minutes submitted to Office of Instruction. In either option, CCC Team is committed to providing the training necessary and to updating the Curriculum Handbook. The decision-making about which option to choose should and will begin with this body and include feedback from all faculty. Please discuss with constituents as soon as possible so we may have an informed discussion at our next CCC meeting. Fox commented that there are serious communication issues. He has noted that Title 5 enforcement has increased and faculty are very confused regarding process and requirements. He suggested that the curriculum handbook be updated every year and that every division have (re)training every year.</p>
7. Prerequisite Content Review	<p>Speaker: Carolyn Holcroft Continuation of discussion that began last year. Must address Title 5 changes re: implementing and reviewing prerequisites/co-requisites/advisories. The District policy and procedure are close to being adopted and we can now revise our campus process. Front burner item going forward beginning next meeting.</p>
8. New Course Proposal Process Issues	<p>Speaker: Carolyn Holcroft We began introducing new courses in CCC to make curriculum creation more transparent and encourage interdisciplinary faculty discussion about our courses. This process has raised some concerns from faculty that are uncomfortable being put in the position of having to ask questions of the faculty author, would rather have CCC address and decide appropriate action re: concerns of inappropriate overlap in curriculum. Will continue discussion at upcoming meeting.</p>

Attendees:

**Foothill College
College Curriculum Committee
New Course Proposal**

*This form should be completed by the faculty author as preparation to writing a new course. Your division CC rep can assist you in completing it appropriately, and will forward it to the Office of Instruction for inclusion as an announcement at the next available CCC meeting. The purpose of this form is **interdisciplinary communication**. The responsibility to rigorously review and approve new courses remains with the divisional curriculum committees.*

Date Proposal Given to Division CCC Rep: 12/11/12

Faculty Author: Carol Josselyn

Proposed Number: COMM 15

Proposed Transferability: UC/CSU

Proposed Title: Health Communication

Proposed Catalog Description:

Health Communication occurs in a variety of contexts, including hospitals, schools, home and work, involves a variety of communication channels, including organizational, interpersonal, small group, community and mass media, and involves a variety of messages. For these reasons, delivery of health care has become more and more complicated. This course explores the role of communication in accessing, receiving and delivering health care. Research methods for creating more effective communication within the health care system are also reviewed.

Proposed Discipline:

Communication Studies

Proposed Need/Justification Statement:

Health communication has become increasingly complex, especially as more options become available, Baby Boomers age, and costs rise. This course explores methods of improving communication not just between patient and doctor, but doctors and other health care professionals, among patients, and members of a community among others. This course is offered at eleven other community colleges. It's time for Foothill College to add it to our curriculum.

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

AA, T-AA, Communication Studies Certificates of Proficiency and Achievement.

Comments & Other Relevant Information for Discussion:

The course material presented in this class is directly relevant to one of the most important issues of our time, health care.

Instruction Office:

Date presented at CCC:

Number assigned:

Date number assigned/notification:

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APEL 120A

Division: BUSINESS & SOCIAL SCIENCES

Course Title: Orientation To The Electrical Trade, CPR & First Aid

Catalog Description:

Orientation to the commercial/industrial electrical industry with an introduction to electrical theory, tools, materials, wiring methods, and job skills. Review of mathematics as applied in the electrical construction trades. Industry applications, hands on labs. CPR, First Aid, Job Orientation topics: Sexual Harassment & Drug Abuse.

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to prepare students with an understanding of basic electricity and Ohm's Law through series circuits, teach them on-the-job skills related to tools, materials, safety, prepare them to solve electrical mathematic problems and to work as a team member in the construction industry. Work experience and job related safety is part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship program.

2. *"Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California's economic growth and global competitiveness."*

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Apprenticeship. It also covers job-related vocational and career technical education. The Electrical Apprenticeship program requires students to complete over 930 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 8000 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS).

Criteria B. -- Need (Explain)

The Foothill College Apprenticeship program graduates over 400 students a year in its 2, 3, 4 and 5-year apprenticeship programs. Students will replenish where there are open slots. There are currently over 3000 active students taking courses at Foothill every year. In a typical year, when one student graduates, a slot opens up for a new apprentice. Labor Market Information (LMI) for 12-year projections in 12 counties throughout the Bay Area show occupational index for apprentices will increase positively by 9.9-11.6%. Statewide data shows a 6.5% growth for most programs involved in green technologies.

Criteria C. -- Curriculum Standards (please initial as appropriate)

X The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. – Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: STEVE POWERS **Date:** 12/04/12

Division Curriculum Representative: JOSE NAVA **Date:** 12/04/12

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APEL 121A

Division: BUSINESS & SOCIAL SCIENCES

Course Title: Electron Theory; AC & DC Electrical Theory; National Electrical Code Introduction; Parallel & Combination Circuits

Catalog Description:

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

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to prepare students with an understanding of the National Electric Codes (NEC) and applying them on-the-job, demonstrate AC and DC electrical generation, and performing both parallel, combination and 3-phase circuits. Work experience and job related safety is part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship program.

2. *"Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California's economic growth and global competitiveness."*

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Apprenticeship. It also covers job-related vocational and career technical education. The Electrical Apprenticeship program requires students to complete over 930 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 8000 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS).

Criteria B. -- Need (Explain)

The Foothill College Apprenticeship program graduates over 400 students a year in its 2, 3, 4 and 5-year apprenticeship programs. Students will replenish where there are open slots. There are currently over 3000 active students taking courses at Foothill every year. In a typical year, when one student graduates, a slot opens up for a new apprentice. Labor Market Information (LMI) for 12-year projections in 12 counties throughout the Bay Area show occupational index for apprentices will increase positively by 9.9-11.6%. Statewide data shows a 6.5% growth for most programs involved in green technologies.

Criteria C. -- Curriculum Standards (please initial as appropriate)

X The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. – Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: STEVE POWERS **Date:** 12/04/12

Division Curriculum Representative: JOSE NAVA **Date:** 12/04/12

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APEL 122A **Division:** BUSINESS & SOCIAL SCIENCES

Course Title: Codeology; NEC Code; Test Equipment; Pipe Bending; Blueprints

Catalog Description:

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

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to develop a advanced understanding of the NEC Codes, demonstrate the correct usage of test equipment, pipe bending tools, and reading construction blueprints. Work experience and job related safety is part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship program.

2. *"Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California's economic growth and global competitiveness."*

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Apprenticeship. It also covers job-related vocational and career technical education. The Electrical Apprenticeship program requires students to complete over 930 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 8000 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS).

Criteria B. -- Need (Explain)

The Foothill College Apprenticeship program graduates over 400 students a year in its 2, 3, 4 and 5-year apprenticeship programs. Students will replenish where there are open slots. There are currently over 3000 active students taking courses at Foothill every year. In a typical year, when one student graduates, a slot opens up for a new apprentice. Labor Market Information (LMI) for 12-year projections in 12 counties throughout the Bay Area show occupational index for apprentices will increase positively by 9.9-11.6%. Statewide data shows a 6.5% growth for most programs involved in green technologies.

Criteria C. -- Curriculum Standards (please initial as appropriate)

- X The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.
- X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. – Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: STEVE POWERS **Date:** 12/04/12

Division Curriculum Representative: JOSE NAVA **Date:** 12/04/12

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APEL 124A

Division: BUSINESS & SOCIAL SCIENCES

Course Title: DC/AC Theory Review; Electronics; Industrial Blueprints;
Transformers, Grounding; Electrical Systems

Catalog Description:

Review of AC/DC theory. Study of electronics principles and applications, and industrial blueprint reading. Transformer installation, grounding & electrical systems.

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to prepare students to differentiate between AC and DC theory, explain electronic principle and applications, discuss and use advanced blueprints and discuss transformer installation for grounding and electrical work. Work experience and job related safety is part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship program.

2. *"Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California's economic growth and global competitiveness."*

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Apprenticeship. It also covers job-related vocational and career technical education. The Electrical Apprenticeship program requires students to complete over 930 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 8000 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS).

Criteria B. -- Need (Explain)

The Foothill College Apprenticeship program graduates over 400 students a year in its 2, 3, 4 and 5-year apprenticeship programs. Students will replenish where there are open slots. There are currently over 3000 active students taking courses at Foothill every year. In a typical year, when one student graduates, a slot opens up for a new apprentice. Labor Market Information (LMI) for 12-year projections in 12 counties throughout the Bay Area show occupational index for apprentices will increase positively by 9.9-11.6%. Statewide data shows a 6.5% growth for most programs involved in green technologies.

Criteria C. -- Curriculum Standards (please initial as appropriate)

X The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. – Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: STEVE POWERS **Date:** 12/04/12

Division Curriculum Representative: JOSE NAVA **Date:** 12/04/12

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APIW 117

Division: BUSINESS & SOCIAL SCIENCES

Course Title: General Safety/OSHA 30/Comet

Catalog Description:

Overview of Ironworker's skill and knowledge areas needed to make the newly indentured apprentice a safe and productive worker from the earliest period of job dispatch. Includes a review of basic math principles.

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to provide students with a broad understanding of OSHA Standards for general safety and application in the work place. This course covers rigging equipment used to protect employees, critical health and safety hazards from welding and cutting and common safety hazards in the work place. Union member roles and responsibilities of the apprentice are covered in the COMET portion of this course. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship program.

2. *"A well-educated population being essential to sustaining and enhancing a democratic society, Foothill College commits itself to providing access to outstanding educational opportunities for all of our students. Whether through basic skills, career preparation, lifelong learning, or transfer, the members of the Foothill College community are dedicated to the achievement of learning and to the success of our students. We affirm that our unwavering dedication to this mission is critical to the prosperity of our community, our state, our nation, and the global community to which all people are members."*
Adopted June 24, 2009

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Apprenticeship. It also covers job-related vocational and career technical education. The Ironworker Apprenticeship requires students to complete 900 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract of 5600 hours of on-the-job training. This program promotes continuous workforce education through its State certification and approval process from the Division of Apprenticeship Standards (DAS).

Criteria B. -- Need (Explain)

The Foothill College Apprenticeship program graduates over 400 students a year in its 2, 3, 4 and 5-year apprenticeship programs. Students will replenish where there are open slots. There are currently over 1500 active students taking courses at Foothill every year. In a typical year, when one student graduates, a slot opens up for a new apprentice. Labor Market Information (LMI) for 12-year projections in 12 counties throughout the Bay Area show occupational index for apprentices will increase positively by 9.9-11.6%. Statewide data shows a 6.5% growth for most programs involved in green technologies.

Criteria C. -- Curriculum Standards (please initial as appropriate)

- X The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.
- X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. – Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: JAMES GAY **Date:** 10/22/12

Division Curriculum Representative: JOSE NAVA **Date:** 10/22/12

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPR 152

Division: BUSINESS & SOCIAL SCIENCES

Course Title: Basic Arc Welding & Basic Drawing

Catalog Description:

This course shall be taken in the first half of year three of the Plumber & Pipefitter Apprenticeship Program. The course will provide students with a working knowledge of plumbing and piping layouts, drainage systems, piping and fixture supports as it applies to mechanical drawings. This course also offers instruction and practice in oxy-fuel cutting, oxy-fuel welding and arc welding of steel plate and pipe. Safety and accuracy in measuring, layout and torch handling is emphasized.

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to prepare students to recognize classifications of piping layouts and to generate isometric drawings of piping systems suitable for use on job sites and for prefabrication. Basic theoretical principles associated with cutting and welding steel and use oxy-fuel and arc welding equipment for pipe fabrication is covered. Work experience and job related safety is part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship program.

2. *"Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California's economic growth and global competitiveness."*

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1080 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 9000 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS).

Criteria B. -- Need (Explain)

The Foothill College Apprenticeship program graduates over 400 students a year in its 2, 3, 4 and 5-year apprenticeship programs. Students will replenish where there are open slots. There are currently over 3000 active students taking courses at Foothill every year. In a typical year, when one student graduates, a slot opens up for a new apprentice. Labor Market Information (LMI) for 12-year projections in 12 counties throughout the Bay Area show occupational index for apprentices will increase positively by 9.9-11.6%. Statewide data shows a 6.5% growth for most programs involved in green technologies.

Criteria C. -- Curriculum Standards (please initial as appropriate)

X The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. -- Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: RANDY BOATMAN **Date:** 10/22/12

Division Curriculum Representative: JOSE NAVA **Date:** 10/22/12

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPR 153

Division: BUSINESS & SOCIAL SCIENCES

Course Title: Plumbing Fixtures, Rigging & Science

Catalog Description:

This course offers instruction in plumbing fixtures and appliances, identification and tying of various types of knots. This course also studies hands-on safety practices of rigging and hoisting piping materials, and a working knowledge of science as it applies to the plumbing industry.

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to provide students with a solid understanding of the various types of plumbing fixtures and appliances used in the Plumbing and Pipefitting industry. Students learn the principles for installation and maintenance of most faucets, flush valves, common control devices and water heaters. Application includes hands-on installation, maintenance, and repair of plumbing fixtures and appliances. As part of the Rigging, students demonstrate their ability to tie various knots and hitches which includes usage of rigging equipment and machinery. Work experience and job related safety is part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship program.

2. *"Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California's economic growth and global competitiveness."*

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1080 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 9000 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS).

Criteria B. -- Need (Explain)

The Foothill College Apprenticeship program graduates over 400 students a year in its 2, 3, 4 and 5-year apprenticeship programs. Students will replenish where there are open slots. There are currently over 3000 active students taking courses at Foothill every year. In a typical year, when one student graduates, a slot opens up for a new apprentice. Labor Market Information (LMI) for 12-year projections in 12 counties throughout the Bay Area show occupational index for apprentices will increase positively by 9.9-11.6%. Statewide data shows a 6.5% growth for most programs involved in green technologies.

Criteria C. -- Curriculum Standards (please initial as appropriate)

- ☒ The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.
- ☒ This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

- ☒ This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. – Compliance (please initial as appropriate)

- ☒ The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: RANDY BOATMAN _____ **Date: 10/22/12** _____

Division Curriculum Representative: JOSE NAVA _____ **Date: 10/22/12** _____

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPR 154

Division: BUSINESS & SOCIAL SCIENCES

Course Title: GAS & WATER SUPPLY

Catalog Description:

Designed to provide the apprentice with basic theory and the use of tools, materials, basic code, first aid, basic math, and job safety and health.

Upon completion and passing the State Certification Exam, the apprentice will become a Journeyman Plumber and will receive a state license from the Department of Apprenticeship Standards (DAS).

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to provide students with a

Work experience and job related safety is part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship work-training program.

2. *"Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California's economic growth and global competitiveness."*

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1200 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 6500 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS). The apprenticeship program is competitive, typically over 5 years of study, and is funded by the State of California's Department of Labor.

Criteria B. -- Need (Explain)

The Foothill College Apprenticeship program graduates over 400 students a year in its 2, 3, 4 and 5-year apprenticeship programs. Students will replenish where there are open slots. There are currently over 3000 active students taking courses at Foothill every year. In a typical year, when one student graduates, a slot opens up for a new apprentice. Labor Market Information (LMI) for 12-year projections in 12 counties throughout the Bay Area show occupational index for apprentices will increase positively by 9.9-11.6%. Statewide data shows a 6.5% growth for most programs involved in green technologies.

Criteria C. -- Curriculum Standards (please initial as appropriate)

_____ The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. -- Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: RANDY BOATMAN_____ **Date: 10/22/12**_____

Division Curriculum Representative: PATRICIA GIBBS_____ **Date: 10/22/12**_____

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPR 155

Division: BUSINESS & SOCIAL SCIENCES

Course Title: UNIFORM PLUMBING CODE & MEDICAL GAS FOR APPRENTICES

Catalog Description:

Designed to provide the apprentice with basic theory and the use of tools, materials, basic code, first aid, basic math, and job safety and health.

Upon completion and passing the State Certification Exam, the apprentice will become a Journeyman Plumber and will receive a state license from the Department of Apprenticeship Standards (DAS).

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to provide students with a

Work experience and job related safety is part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship work-training program.

2. *"Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California's economic growth and global competitiveness."*

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1200 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 6500 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS). The apprenticeship program is competitive, typically over 5 years of study, and is funded by the State of California's Department of Labor.

Criteria B. -- Need (Explain)

The Foothill College Apprenticeship program graduates over 400 students a year in its 2, 3, 4 and 5-year apprenticeship programs. Students will replenish where there are open slots. There are currently over 3000 active students taking courses at Foothill every year. In a typical year, when one student graduates, a slot opens up for a new apprentice. Labor Market Information (LMI) for 12-year projections in 12 counties throughout the Bay Area show occupational index for apprentices will increase positively by 9.9-11.6%. Statewide data shows a 6.5% growth for most programs involved in green technologies.

Criteria C. -- Curriculum Standards (please initial as appropriate)

_____ The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. -- Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: RANDY BOATMAN_____ **Date: 10/22/12**_____

Division Curriculum Representative: PATRICIA GIBBS_____ **Date: 10/22/12**_____

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPR 156

Division: BUSINESS & SOCIAL SCIENCES

Course Title: DRAINAGE; ADVANCED DRAWING

Catalog Description:

Designed to provide the apprentice with basic theory and the use of tools, materials, basic code, first aid, basic math, and job safety and health.

Upon completion and passing the State Certification Exam, the apprentice will become a Journeyman Plumber and will receive a state license from the Department of Apprenticeship Standards (DAS).

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to provide students with a

Work experience and job related safety is part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship work-training program.

2. *"Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California's economic growth and global competitiveness."*

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1200 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 6500 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS). The apprenticeship program is competitive, typically over 5 years of study, and is funded by the State of California's Department of Labor.

Criteria B. -- Need (Explain)

The Foothill College Apprenticeship program graduates over 400 students a year in its 2, 3, 4 and 5-year apprenticeship programs. Students will replenish where there are open slots. There are currently over 3000 active students taking courses at Foothill every year. In a typical year, when one student graduates, a slot opens up for a new apprentice. Labor Market Information (LMI) for 12-year projections in 12 counties throughout the Bay Area show occupational index for apprentices will increase positively by 9.9-11.6%. Statewide data shows a 6.5% growth for most programs involved in green technologies.

Criteria C. -- Curriculum Standards (please initial as appropriate)

_____ The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. -- Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: RANDY BOATMAN_____ **Date: 10/22/12**_____

Division Curriculum Representative: PATRICIA GIBBS_____ **Date: 10/22/12**_____

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPR 157

Division: BUSINESS & SOCIAL SCIENCES

Course Title: STEAMFITTING & PIPEFITTING

Catalog Description:

Designed to provide the apprentice with basic theory and the use of tools, materials, basic code, first aid, basic math, and job safety and health.

Upon completion and passing the State Certification Exam, the apprentice will become a Journeyman Plumber and will receive a state license from the Department of Apprenticeship Standards (DAS).

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to provide students with a

Work experience and job related safety is part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship work-training program.

2. *“Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California’s economic growth and global competitiveness.”*

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1200 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 6500 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS). The apprenticeship program is competitive, typically over 5 years of study, and is funded by the State of California’s Department of Labor.

Criteria B. -- Need (Explain)

The Foothill College Apprenticeship program graduates over 400 students a year in its 2, 3, 4 and 5-year apprenticeship programs. Students will replenish where there are open slots. There are currently over 3000 active students taking courses at Foothill every year. In a typical year, when one student graduates, a slot opens up for a new apprentice. Labor Market Information (LMI) for 12-year projections in 12 counties throughout the Bay Area show occupational index for apprentices will increase positively by 9.9-11.6%. Statewide data shows a 6.5% growth for most programs involved in green technologies.

Criteria C. -- Curriculum Standards (please initial as appropriate)

_____ The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. -- Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: RANDY BOATMAN_____ **Date: 10/22/12**_____

Division Curriculum Representative: PATRICIA GIBBS_____ **Date: 10/22/12**_____

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPR 157

Division: BUSINESS & SOCIAL SCIENCES

Course Title: SUPERMARKET REFRIGERATION

Catalog Description:

Designed to provide the apprentice with basic theory and the use of tools, materials, basic code, first aid, basic math, and job safety and health.

Upon completion and passing the State Certification Exam, the apprentice will become a Journeyman Plumber and will receive a state license from the Department of Apprenticeship Standards (DAS).

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to provide students with a

Work experience and job related safety is part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship work-training program.

2. *"Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California's economic growth and global competitiveness."*

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1200 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 6500 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS). The apprenticeship program is competitive, typically over 5 years of study, and is funded by the State of California's Department of Labor.

Criteria B. -- Need (Explain)

The Foothill College Apprenticeship program graduates over 400 students a year in its 2, 3, 4 and 5-year apprenticeship programs. Students will replenish where there are open slots. There are currently over 3000 active students taking courses at Foothill every year. In a typical year, when one student graduates, a slot opens up for a new apprentice. Labor Market Information (LMI) for 12-year projections in 12 counties throughout the Bay Area show occupational index for apprentices will increase positively by 9.9-11.6%. Statewide data shows a 6.5% growth for most programs involved in green technologies.

Criteria C. -- Curriculum Standards (please initial as appropriate)

_____ The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. -- Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: RANDY BOATMAN_____ **Date: 10/22/12**_____

Division Curriculum Representative: PATRICIA GIBBS_____ **Date: 10/22/12**_____

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPR 160A **Division:** BUSINESS & SOCIAL SCIENCES

Course Title: EPA, CUSTOMER SERVICE, REFRIGERATION & ELECTRICAL

Catalog Description:

Designed to provide the apprentice with basic theory and the use of tools, materials, basic code, first aid, basic math, and job safety and health.

Upon completion and passing the State Certification Exam, the apprentice will become a Journeyman Plumber and will receive a state license from the Department of Apprenticeship Standards (DAS).

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to provide students with a

Work experience and job related safety is part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship work-training program.

2. *"Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California's economic growth and global competitiveness."*

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1200 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 6500 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS). The apprenticeship program is competitive, typically over 5 years of study, and is funded by the State of California's Department of Labor.

Criteria B. -- Need (Explain)

The Foothill College Apprenticeship program graduates over 400 students a year in its 2, 3, 4 and 5-year apprenticeship programs. Students will replenish where there are open slots. There are currently over 3000 active students taking courses at Foothill every year. In a typical year, when one student graduates, a slot opens up for a new apprentice. Labor Market Information (LMI) for 12-year projections in 12 counties throughout the Bay Area show occupational index for apprentices will increase positively by 9.9-11.6%. Statewide data shows a 6.5% growth for most programs involved in green technologies.

Criteria C. -- Curriculum Standards (please initial as appropriate)

_____ The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. -- Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: RANDY BOATMAN_____ **Date: 10/22/12**_____

Division Curriculum Representative: PATRICIA GIBBS_____ **Date: 10/22/12**_____

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPR 162A

Division: BUSINESS & SOCIAL SCIENCES

Course Title: ELECTRICAL TROUBLESHOOTING, REFRIGERATION CONTROLS

Catalog Description:

Designed to provide the apprentice with basic theory and the use of tools, materials, basic code, first aid, basic math, and job safety and health.

Upon completion and passing the State Certification Exam, the apprentice will become a Journeyman Plumber and will receive a state license from the Department of Apprenticeship Standards (DAS).

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to provide students with a

Work experience and job related safety is part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship work-training program.

2. *"Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California's economic growth and global competitiveness."*

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1200 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 6500 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS). The apprenticeship program is competitive, typically over 5 years of study, and is funded by the State of California's Department of Labor.

Criteria B. -- Need (Explain)

The Foothill College Apprenticeship program graduates over 400 students a year in its 2, 3, 4 and 5-year apprenticeship programs. Students will replenish where there are open slots. There are currently over 3000 active students taking courses at Foothill every year. In a typical year, when one student graduates, a slot opens up for a new apprentice. Labor Market Information (LMI) for 12-year projections in 12 counties throughout the Bay Area show occupational index for apprentices will increase positively by 9.9-11.6%. Statewide data shows a 6.5% growth for most programs involved in green technologies.

Criteria C. -- Curriculum Standards (please initial as appropriate)

_____ The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. -- Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: RANDY BOATMAN_____ **Date: 10/22/12**_____

Division Curriculum Representative: PATRICIA GIBBS_____ **Date: 10/22/12**_____

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPR 162B

Division: BUSINESS & SOCIAL SCIENCES

Course Title: COMPUTER LITERACY & PNEUMATIC CONTROLS

Catalog Description:

Designed to provide the apprentice with basic theory and the use of tools, materials, basic code, first aid, basic math, and job safety and health.

Upon completion and passing the State Certification Exam, the apprentice will become a Journeyman Plumber and will receive a state license from the Department of Apprenticeship Standards (DAS).

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to provide students with a

Work experience and job related safety is part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship work-training program.

2. *"Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California's economic growth and global competitiveness."*

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1200 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 6500 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS). The apprenticeship program is competitive, typically over 5 years of study, and is funded by the State of California's Department of Labor.

Criteria B. -- Need (Explain)

The Foothill College Apprenticeship program graduates over 400 students a year in its 2, 3, 4 and 5-year apprenticeship programs. Students will replenish where there are open slots. There are currently over 3000 active students taking courses at Foothill every year. In a typical year, when one student graduates, a slot opens up for a new apprentice. Labor Market Information (LMI) for 12-year projections in 12 counties throughout the Bay Area show occupational index for apprentices will increase positively by 9.9-11.6%. Statewide data shows a 6.5% growth for most programs involved in green technologies.

Criteria C. -- Curriculum Standards (please initial as appropriate)

_____ The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. -- Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: RANDY BOATMAN_____ **Date: 10/22/12**_____

Division Curriculum Representative: PATRICIA GIBBS_____ **Date: 10/22/12**_____

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPR 162C

Division: BUSINESS & SOCIAL SCIENCES

Course Title: ELECTRONIC CONTROLS, DDC CONTROLS

Catalog Description:

Designed to provide the apprentice with basic theory and the use of tools, materials, basic code, first aid, basic math, and job safety and health.

Upon completion and passing the State Certification Exam, the apprentice will become a Journeyman Plumber and will receive a state license from the Department of Apprenticeship Standards (DAS).

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to provide students with a

Work experience and job related safety is part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship work-training program.

2. *"Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California's economic growth and global competitiveness."*

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1200 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 6500 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS). The apprenticeship program is competitive, typically over 5 years of study, and is funded by the State of California's Department of Labor.

Criteria B. -- Need (Explain)

The Foothill College Apprenticeship program graduates over 400 students a year in its 2, 3, 4 and 5-year apprenticeship programs. Students will replenish where there are open slots. There are currently over 3000 active students taking courses at Foothill every year. In a typical year, when one student graduates, a slot opens up for a new apprentice. Labor Market Information (LMI) for 12-year projections in 12 counties throughout the Bay Area show occupational index for apprentices will increase positively by 9.9-11.6%. Statewide data shows a 6.5% growth for most programs involved in green technologies.

Criteria C. -- Curriculum Standards (please initial as appropriate)

_____ The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. -- Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: RANDY BOATMAN_____ **Date: 10/22/12**_____

Division Curriculum Representative: PATRICIA GIBBS_____ **Date: 10/22/12**_____

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPR 166

Division: BUSINESS & SOCIAL SCIENCES

Course Title: JOB SUPERVISION

Catalog Description:

Designed to provide the apprentice with basic theory and the use of tools, materials, basic code, first aid, basic math, and job safety and health.

Upon completion and passing the State Certification Exam, the apprentice will become a Journeyman Plumber and will receive a state license from the Department of Apprenticeship Standards (DAS).

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to provide students with a

Work experience and job related safety is part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship work-training program.

2. *"Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California's economic growth and global competitiveness."*

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1200 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 6500 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS). The apprenticeship program is competitive, typically over 5 years of study, and is funded by the State of California's Department of Labor.

Criteria B. -- Need (Explain)

The Foothill College Apprenticeship program graduates over 400 students a year in its 2, 3, 4 and 5-year apprenticeship programs. Students will replenish where there are open slots. There are currently over 3000 active students taking courses at Foothill every year. In a typical year, when one student graduates, a slot opens up for a new apprentice. Labor Market Information (LMI) for 12-year projections in 12 counties throughout the Bay Area show occupational index for apprentices will increase positively by 9.9-11.6%. Statewide data shows a 6.5% growth for most programs involved in green technologies.

Criteria C. -- Curriculum Standards (please initial as appropriate)

_____ The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. -- Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: RANDY BOATMAN_____ **Date: 10/22/12**_____

Division Curriculum Representative: PATRICIA GIBBS_____ **Date: 10/22/12**_____

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPT 131

Division: BUSINESS & SOCIAL SCIENCES

Course Title: P-101 BASIC PLUMBING SKILLS

Catalog Description:

In this course apprentices will receive instruction in identification and tying various types of knots, study hands on safe practices of rigging and hoisting piping materials. Further they will receive instruction in the use of a transit, builder's level, laser level and other measuring instruments in the layout and installation of piping systems. Establish the invert elevations and coordination of piping systems by means of profile drawings.

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to provide students with a general understanding of knots, hitches and rigging operations for hoisting, transporting and installing piping systems. Work experience and job related safety training is an integral part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship work-training program.

2. *"Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California's economic growth and global competitiveness."*

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Plumbing-Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1200 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 6500 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS). The apprenticeship program is competitive, typically over 5 years of study, and is funded by the State of California's Department of Labor.

Criteria B. -- Need (Explain)

There is a need to advance the skills of our workforce through training at the Pipe Trades Training Center in Santa Clara and San Benito counties in the areas of rigging piping materials and the layout of plumbing systems. These skills will be applied and mastered through on-the-job training at the employer's work site. The APPT 134A course is part of the CA State registered apprenticeship program requirement for the Plumbing, Pipe Fitting and Steamfitting industries.

Criteria C. -- Curriculum Standards (please initial as appropriate)

- X The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.
- X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. – Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: MARK LIKENESS **Date:** 10/22/12

Division Curriculum Representative: PATRICIA GIBBS **Date:** 10/22/12

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPT 133

Division: BUSINESS & SOCIAL SCIENCES

Course Title: P-201 BEGINNING DRAWING & DESIGN

Catalog Description:

In this course apprentices will receive instruction in identification and tying various types of knots, study hands on safe practices of rigging and hoisting piping materials. Further they will receive instruction in the use of a transit, builder's level, laser level and other measuring instruments in the layout and installation of piping systems. Establish the invert elevations and coordination of piping systems by means of profile drawings.

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to provide students with a general understanding of knots, hitches and rigging operations for hoisting, transporting and installing piping systems. Work experience and job related safety training is an integral part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship work-training program.

2. *"Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California's economic growth and global competitiveness."*

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Plumbing-Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1200 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 6500 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS). The apprenticeship program is competitive, typically over 5 years of study, and is funded by the State of California's Department of Labor.

Criteria B. -- Need (Explain)

There is a need to advance the skills of our workforce through training at the Pipe Trades Training Center in Santa Clara and San Benito counties in the areas of rigging piping materials and the layout of plumbing systems. These skills will be applied and mastered through on-the-job training at the employer's work site. The APPT 134A course is part of the CA State registered apprenticeship program requirement for the Plumbing, Pipe Fitting and Steamfitting industries.

Criteria C. -- Curriculum Standards (please initial as appropriate)

X The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. – Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: MARK LIKENESS **Date:** 10/22/12

Division Curriculum Representative: PATRICIA GIBBS **Date:** 10/22/12

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPT 138

Division: BUSINESS & SOCIAL SCIENCES

Course Title: P-402 ADVANCED DRAWING & BLUEPRINT READING

Catalog Description:

In this course apprentices will receive instruction in identification and tying various types of knots, study hands on safe practices of rigging and hoisting piping materials. Further they will receive instruction in the use of a transit, builder's level, laser level and other measuring instruments in the layout and installation of piping systems. Establish the invert elevations and coordination of piping systems by means of profile drawings.

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to provide students with a general understanding of knots, hitches and rigging operations for hoisting, transporting and installing piping systems. Work experience and job related safety training is an integral part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship work-training program.

2. *"Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California's economic growth and global competitiveness."*

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Plumbing-Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1200 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 6500 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS). The apprenticeship program is competitive, typically over 5 years of study, and is funded by the State of California's Department of Labor.

Criteria B. -- Need (Explain)

There is a need to advance the skills of our workforce through training at the Pipe Trades Training Center in Santa Clara and San Benito counties in the areas of rigging piping materials and the layout of plumbing systems. These skills will be applied and mastered through on-the-job training at the employer's work site. The APPT 134A course is part of the CA State registered apprenticeship program requirement for the Plumbing, Pipe Fitting and Steamfitting industries.

Criteria C. -- Curriculum Standards (please initial as appropriate)

X The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. – Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: MARK LIKENESS **Date:** 10/22/12

Division Curriculum Representative: PATRICIA GIBBS **Date:** 10/22/12

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPT 139A

Division: BUSINESS & SOCIAL SCIENCES

Course Title: INDUSTRIAL INSTALLATIONS

Catalog Description:

In this course apprentices will receive instruction in identification and tying various types of knots, study hands on safe practices of rigging and hoisting piping materials. Further they will receive instruction in the use of a transit, builder's level, laser level and other measuring instruments in the layout and installation of piping systems. Establish the invert elevations and coordination of piping systems by means of profile drawings.

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to provide students with a general understanding of knots, hitches and rigging operations for hoisting, transporting and installing piping systems. Work experience and job related safety training is an integral part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship work-training program.

2. *"Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California's economic growth and global competitiveness."*

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Plumbing-Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1200 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 6500 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS). The apprenticeship program is competitive, typically over 5 years of study, and is funded by the State of California's Department of Labor.

Criteria B. -- Need (Explain)

There is a need to advance the skills of our workforce through training at the Pipe Trades Training Center in Santa Clara and San Benito counties in the areas of rigging piping materials and the layout of plumbing systems. These skills will be applied and mastered through on-the-job training at the employer's work site. The APPT 134A course is part of the CA State registered apprenticeship program requirement for the Plumbing, Pipe Fitting and Steamfitting industries.

Criteria C. -- Curriculum Standards (please initial as appropriate)

X The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. – Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: MARK LIKENESS **Date:** 10/22/12

Division Curriculum Representative: PATRICIA GIBBS **Date:** 10/22/12

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPT 144A

Division: BUSINESS & SOCIAL SCIENCES

Course Title: SF 202A SCIENCE; ELECTRICITY & AIR CONDITIONING

Catalog Description:

In this course apprentices will receive instruction in identification and tying various types of knots, study hands on safe practices of rigging and hoisting piping materials. Further they will receive instruction in the use of a transit, builder's level, laser level and other measuring instruments in the layout and installation of piping systems. Establish the invert elevations and coordination of piping systems by means of profile drawings.

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to provide students with a general understanding of knots, hitches and rigging operations for hoisting, transporting and installing piping systems. Work experience and job related safety training is an integral part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship work-training program.

2. *"Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California's economic growth and global competitiveness."*

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Plumbing-Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1200 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 6500 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS). The apprenticeship program is competitive, typically over 5 years of study, and is funded by the State of California's Department of Labor.

Criteria B. -- Need (Explain)

There is a need to advance the skills of our workforce through training at the Pipe Trades Training Center in Santa Clara and San Benito counties in the areas of rigging piping materials and the layout of plumbing systems. These skills will be applied and mastered through on-the-job training at the employer's work site. The APPT 134A course is part of the CA State registered apprenticeship program requirement for the Plumbing, Pipe Fitting and Steamfitting industries.

Criteria C. -- Curriculum Standards (please initial as appropriate)

X The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. – Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: MARK LIKENESS **Date:** 10/22/12

Division Curriculum Representative: PATRICIA GIBBS **Date:** 10/22/12

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPT 146

Division: BUSINESS & SOCIAL SCIENCES

Course Title: SF 302 STEAM TECHNOLOGY

Catalog Description:

In this course apprentices will receive instruction in identification and tying various types of knots, study hands on safe practices of rigging and hoisting piping materials. Further they will receive instruction in the use of a transit, builder's level, laser level and other measuring instruments in the layout and installation of piping systems. Establish the invert elevations and coordination of piping systems by means of profile drawings.

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to provide students with a general understanding of knots, hitches and rigging operations for hoisting, transporting and installing piping systems. Work experience and job related safety training is an integral part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship work-training program.

2. *"Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California's economic growth and global competitiveness."*

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Plumbing-Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1200 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 6500 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS). The apprenticeship program is competitive, typically over 5 years of study, and is funded by the State of California's Department of Labor.

Criteria B. -- Need (Explain)

There is a need to advance the skills of our workforce through training at the Pipe Trades Training Center in Santa Clara and San Benito counties in the areas of rigging piping materials and the layout of plumbing systems. These skills will be applied and mastered through on-the-job training at the employer's work site. The APPT 134A course is part of the CA State registered apprenticeship program requirement for the Plumbing, Pipe Fitting and Steamfitting industries.

Criteria C. -- Curriculum Standards (please initial as appropriate)

X The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. – Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: MARK LIKENESS **Date:** 10/22/12

Division Curriculum Representative: PATRICIA GIBBS **Date:** 10/22/12

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPT 147A

Division: BUSINESS & SOCIAL SCIENCES

Course Title: SF 401A HYDRONIC SYSTEMS

Catalog Description:

In this course apprentices will receive instruction in identification and tying various types of knots, study hands on safe practices of rigging and hoisting piping materials. Further they will receive instruction in the use of a transit, builder's level, laser level and other measuring instruments in the layout and installation of piping systems. Establish the invert elevations and coordination of piping systems by means of profile drawings.

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to provide students with a general understanding of knots, hitches and rigging operations for hoisting, transporting and installing piping systems. Work experience and job related safety training is an integral part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship work-training program.

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Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Plumbing-Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1200 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 6500 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS). The apprenticeship program is competitive, typically over 5 years of study, and is funded by the State of California's Department of Labor.

Criteria B. -- Need (Explain)

There is a need to advance the skills of our workforce through training at the Pipe Trades Training Center in Santa Clara and San Benito counties in the areas of rigging piping materials and the layout of plumbing systems. These skills will be applied and mastered through on-the-job training at the employer's work site. The APPT 134A course is part of the CA State registered apprenticeship program requirement for the Plumbing, Pipe Fitting and Steamfitting industries.

Criteria C. -- Curriculum Standards (please initial as appropriate)

- X The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.
- X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. – Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: MARK LIKENESS **Date:** 10/22/12

Division Curriculum Representative: PATRICIA GIBBS **Date:** 10/22/12

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPT 147B

Division: BUSINESS & SOCIAL SCIENCES

Course Title: SF 401B INDUSTRIAL RIGGING

Catalog Description:

In this course apprentices will receive instruction in identification and tying various types of knots, study hands on safe practices of rigging and hoisting piping materials. Further they will receive instruction in the use of a transit, builder's level, laser level and other measuring instruments in the layout and installation of piping systems. Establish the invert elevations and coordination of piping systems by means of profile drawings.

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to provide students with a general understanding of knots, hitches and rigging operations for hoisting, transporting and installing piping systems. Work experience and job related safety training is an integral part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship work-training program.

2. *"Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California's economic growth and global competitiveness."*

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Plumbing-Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1200 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 6500 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS). The apprenticeship program is competitive, typically over 5 years of study, and is funded by the State of California's Department of Labor.

Criteria B. -- Need (Explain)

There is a need to advance the skills of our workforce through training at the Pipe Trades Training Center in Santa Clara and San Benito counties in the areas of rigging piping materials and the layout of plumbing systems. These skills will be applied and mastered through on-the-job training at the employer's work site. The APPT 134A course is part of the CA State registered apprenticeship program requirement for the Plumbing, Pipe Fitting and Steamfitting industries.

Criteria C. -- Curriculum Standards (please initial as appropriate)

X The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. – Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: MARK LIKENESS **Date:** 10/22/12

Division Curriculum Representative: PATRICIA GIBBS **Date:** 10/22/12

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPT 148

Division: BUSINESS & SOCIAL SCIENCES

Course Title: SF 402 ADVANCED DRAWING & BLUEPRINT READING

Catalog Description:

In this course apprentices will receive instruction in identification and tying various types of knots, study hands on safe practices of rigging and hoisting piping materials. Further they will receive instruction in the use of a transit, builder's level, laser level and other measuring instruments in the layout and installation of piping systems. Establish the invert elevations and coordination of piping systems by means of profile drawings.

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to provide students with a general understanding of knots, hitches and rigging operations for hoisting, transporting and installing piping systems. Work experience and job related safety training is an integral part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship work-training program.

2. *"Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California's economic growth and global competitiveness."*

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Plumbing-Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1200 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 6500 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS). The apprenticeship program is competitive, typically over 5 years of study, and is funded by the State of California's Department of Labor.

Criteria B. -- Need (Explain)

There is a need to advance the skills of our workforce through training at the Pipe Trades Training Center in Santa Clara and San Benito counties in the areas of rigging piping materials and the layout of plumbing systems. These skills will be applied and mastered through on-the-job training at the employer's work site. The APPT 134A course is part of the CA State registered apprenticeship program requirement for the Plumbing, Pipe Fitting and Steamfitting industries.

Criteria C. -- Curriculum Standards (please initial as appropriate)

- X The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.
- X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. – Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: MARK LIKENESS **Date:** 10/22/12

Division Curriculum Representative: PATRICIA GIBBS **Date:** 10/22/12

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPT 154

Division: BUSINESS & SOCIAL SCIENCES

Course Title: RF 202 ELECTRIC CONTROLS FUNDAMENTALS

Catalog Description:

In this course apprentices will receive instruction in identification and tying various types of knots, study hands on safe practices of rigging and hoisting piping materials. Further they will receive instruction in the use of a transit, builder's level, laser level and other measuring instruments in the layout and installation of piping systems. Establish the invert elevations and coordination of piping systems by means of profile drawings.

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to provide students with a general understanding of knots, hitches and rigging operations for hoisting, transporting and installing piping systems. Work experience and job related safety training is an integral part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship work-training program.

2. *"Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California's economic growth and global competitiveness."*

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Plumbing-Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1200 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 6500 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS). The apprenticeship program is competitive, typically over 5 years of study, and is funded by the State of California's Department of Labor.

Criteria B. -- Need (Explain)

There is a need to advance the skills of our workforce through training at the Pipe Trades Training Center in Santa Clara and San Benito counties in the areas of rigging piping materials and the layout of plumbing systems. These skills will be applied and mastered through on-the-job training at the employer's work site. The APPT 134A course is part of the CA State registered apprenticeship program requirement for the Plumbing, Pipe Fitting and Steamfitting industries.

Criteria C. -- Curriculum Standards (please initial as appropriate)

- X The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.
- X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. – Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: MARK LIKENESS **Date:** 10/22/12

Division Curriculum Representative: PATRICIA GIBBS **Date:** 10/22/12

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPT 155

Division: BUSINESS & SOCIAL SCIENCES

Course Title: RF 301 ADVANCED ELECTRIC CONTROLS

Catalog Description:

In this course apprentices will receive instruction in identification and tying various types of knots, study hands on safe practices of rigging and hoisting piping materials. Further they will receive instruction in the use of a transit, builder's level, laser level and other measuring instruments in the layout and installation of piping systems. Establish the invert elevations and coordination of piping systems by means of profile drawings.

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to provide students with a general understanding of knots, hitches and rigging operations for hoisting, transporting and installing piping systems. Work experience and job related safety training is an integral part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship work-training program.

2. *"Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California's economic growth and global competitiveness."*

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Plumbing-Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1200 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 6500 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS). The apprenticeship program is competitive, typically over 5 years of study, and is funded by the State of California's Department of Labor.

Criteria B. -- Need (Explain)

There is a need to advance the skills of our workforce through training at the Pipe Trades Training Center in Santa Clara and San Benito counties in the areas of rigging piping materials and the layout of plumbing systems. These skills will be applied and mastered through on-the-job training at the employer's work site. The APPT 134A course is part of the CA State registered apprenticeship program requirement for the Plumbing, Pipe Fitting and Steamfitting industries.

Criteria C. -- Curriculum Standards (please initial as appropriate)

- X The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.
- X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. – Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: MARK LIKENESS **Date:** 10/22/12

Division Curriculum Representative: PATRICIA GIBBS **Date:** 10/22/12

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPT 156

Division: BUSINESS & SOCIAL SCIENCES

Course Title: RF 302 HVAC PNEUMATIC & ELECTRONIC CONTROL SYSTEMS

Catalog Description:

In this course apprentices will receive instruction in identification and tying various types of knots, study hands on safe practices of rigging and hoisting piping materials. Further they will receive instruction in the use of a transit, builder's level, laser level and other measuring instruments in the layout and installation of piping systems. Establish the invert elevations and coordination of piping systems by means of profile drawings.

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to provide students with a general understanding of knots, hitches and rigging operations for hoisting, transporting and installing piping systems. Work experience and job related safety training is an integral part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship work-training program.

2. *"Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California's economic growth and global competitiveness."*

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Plumbing-Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1200 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 6500 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS). The apprenticeship program is competitive, typically over 5 years of study, and is funded by the State of California's Department of Labor.

Criteria B. -- Need (Explain)

There is a need to advance the skills of our workforce through training at the Pipe Trades Training Center in Santa Clara and San Benito counties in the areas of rigging piping materials and the layout of plumbing systems. These skills will be applied and mastered through on-the-job training at the employer's work site. The APPT 134A course is part of the CA State registered apprenticeship program requirement for the Plumbing, Pipe Fitting and Steamfitting industries.

Criteria C. -- Curriculum Standards (please initial as appropriate)

X The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. – Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: MARK LIKENESS **Date:** 10/22/12

Division Curriculum Representative: PATRICIA GIBBS **Date:** 10/22/12

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPT 157

Division: BUSINESS & SOCIAL SCIENCES

Course Title: RF 401 INDUSTRIAL REFRIGERATION & AIR-CONDITIONING SERVICE

Catalog Description:

In this course apprentices will receive instruction in identification and tying various types of knots, study hands on safe practices of rigging and hoisting piping materials. Further they will receive instruction in the use of a transit, builder's level, laser level and other measuring instruments in the layout and installation of piping systems. Establish the invert elevations and coordination of piping systems by means of profile drawings.

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to provide students with a general understanding of knots, hitches and rigging operations for hoisting, transporting and installing piping systems. Work experience and job related safety training is an integral part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship work-training program.

2. *"Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California's economic growth and global competitiveness."*

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Plumbing-Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1200 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 6500 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS). The apprenticeship program is competitive, typically over 5 years of study, and is funded by the State of California's Department of Labor.

Criteria B. -- Need (Explain)

There is a need to advance the skills of our workforce through training at the Pipe Trades Training Center in Santa Clara and San Benito counties in the areas of rigging piping materials and the layout of plumbing systems. These skills will be applied and mastered through on-the-job training at the employer's work site. The APPT 134A course is part of the CA State registered apprenticeship program requirement for the Plumbing, Pipe Fitting and Steamfitting industries.

Criteria C. -- Curriculum Standards (please initial as appropriate)

X The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. – Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: MARK LIKENESS **Date:** 10/22/12

Division Curriculum Representative: PATRICIA GIBBS **Date:** 10/22/12

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPT 159

Division: BUSINESS & SOCIAL SCIENCES

Course Title: RF 501 START, TEST & BALANCE; HVAC SYSTEMS

Catalog Description:

In this course apprentices will receive instruction in identification and tying various types of knots, study hands on safe practices of rigging and hoisting piping materials. Further they will receive instruction in the use of a transit, builder's level, laser level and other measuring instruments in the layout and installation of piping systems. Establish the invert elevations and coordination of piping systems by means of profile drawings.

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to provide students with a general understanding of knots, hitches and rigging operations for hoisting, transporting and installing piping systems. Work experience and job related safety training is an integral part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship work-training program.

2. *"Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California's economic growth and global competitiveness."*

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Plumbing-Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1200 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 6500 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS). The apprenticeship program is competitive, typically over 5 years of study, and is funded by the State of California's Department of Labor.

Criteria B. -- Need (Explain)

There is a need to advance the skills of our workforce through training at the Pipe Trades Training Center in Santa Clara and San Benito counties in the areas of rigging piping materials and the layout of plumbing systems. These skills will be applied and mastered through on-the-job training at the employer's work site. The APPT 134A course is part of the CA State registered apprenticeship program requirement for the Plumbing, Pipe Fitting and Steamfitting industries.

Criteria C. -- Curriculum Standards (please initial as appropriate)

X The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. – Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: MARK LIKENESS **Date:** 10/22/12

Division Curriculum Representative: PATRICIA GIBBS **Date:** 10/22/12

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPT 185 **Division:** BUSINESS & SOCIAL SCIENCES

Course Title: PIPE MATERIALS, SAFETY & TOOLS, SOLDERING & BRAZING

Catalog Description:

This is the first course offered by the Plumber & Pipefitter Apprenticeship program. Students will obtain a working knowledge of Plumbing industry materials and standards and learn use and care of Plumbing tools, Practice of safety callouts and heritage of the United Association are covered in detail. Students are introduced to soldering and brazing techniques used in the Plumbing & Pipefitting industry.

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to introduce students to plumbing and pipefitting. Students learn material classifications, proper use and care of tools, assembly of piping, use of drawings, job safety procedures, soldering and brazing. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship program.

2. *"A well-educated population being essential to sustaining and enhancing a democratic society, Foothill College commits itself to providing access to outstanding educational opportunities for all of our students. Whether through basic skills, career preparation, lifelong learning, or transfer, the members of the Foothill College community are dedicated to the achievement of learning and to the success of our students. We affirm that our unwavering dedication to this mission is critical to the prosperity of our community, our state, our nation, and the global community to which all people are members."*
Adopted June 24, 2009

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Plumbing/Pipefitting Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1080 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 9000 hours of on-the-job training. This program promotes continuous workforce education through its State certification and approval process from the Division of Apprenticeship Standards (DAS).

Criteria B. -- Need (Explain)

This course prepares students to pass the State Certification Exam and is critical for obtaining or maintaining employment in the building construction industry.

Criteria C. -- Curriculum Standards (please initial as appropriate)

- ☒ The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.
- ☒ This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

- ☒ This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. -- Compliance (please initial as appropriate)

- ☒ The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: MARIO MACIEL **Date:** 10/22/12

Division Curriculum Representative: JOSE NAVA **Date:** 10/22/12

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPT 186 **Division:** BUSINESS & SOCIAL SCIENCES

Course Title: MATHEMATICS/RIGGING & SIGNALING

Catalog Description:

This course provides students with a working knowledge of mathematics, rigging and signaling as it applies to the plumbing and pipe fitting industry. Students will apply safety practices as it relates to on-the-job training.

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to perform basic math calculations required in the plumbing and pipefitting industry. Students will also demonstrate proficiency in performing safe rigging and signaling applications, recognize and properly use chainfalls, slings, shackles and come-alongs to safely complete required tasks on the job. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship program.

2. *"A well-educated population being essential to sustaining and enhancing a democratic society, Foothill College commits itself to providing access to outstanding educational opportunities for all of our students. Whether through basic skills, career preparation, lifelong learning, or transfer, the members of the Foothill College community are dedicated to the achievement of learning and to the success of our students. We affirm that our unwavering dedication to this mission is critical to the prosperity of our community, our state, our nation, and the global community to which all people are members."*
Adopted June 24, 2009

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Plumbing/Pipefitting Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1080 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 9000 hours of on-the-job training. This program promotes continuous workforce education through its State certification and approval process from the Division of Apprenticeship Standards (DAS).

Criteria B. -- Need (Explain)

This course prepares students to pass the State Certification Exam and is critical for obtaining or maintaining employment in the building construction industry.

Criteria C. -- Curriculum Standards (please initial as appropriate)

- ☒ The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.
- ☒ This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

- ☒ This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. -- Compliance (please initial as appropriate)

- ☒ The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: MARIO MACIEL

Date: 10/22/12

Division Curriculum Representative: JOSE NAVA

Date: 10/22/12

College Curriculum Co-Chairman: _____

Date: _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPT 187

Division: BUSINESS & SOCIAL SCIENCES

Course Title: DRAWING INTERPRETATION & PLAN READING/SCIENCE

Catalog Description:

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

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is for students to demonstrate an ability to interpret advanced drawings and callouts as it applies to the Pipefitting and Plumbing industry. Related science and theory is covered in detail. This course is required to meet the certificate requirements to become a Journeyman Plumber. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship program.

2. *"A well-educated population being essential to sustaining and enhancing a democratic society, Foothill College commits itself to providing access to outstanding educational opportunities for all of our students. Whether through basic skills, career preparation, lifelong learning, or transfer, the members of the Foothill College community are dedicated to the achievement of learning and to the success of our students. We affirm that our unwavering dedication to this mission is critical to the prosperity of our community, our state, our nation, and the global community to which all people are members."*
Adopted June 24, 2009

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Plumbing/Pipefitting Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1080 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 9000 hours of on-the-job training. This program promotes continuous workforce education through its State certification and approval process from the Division of Apprenticeship Standards (DAS).

Criteria B. -- Need (Explain)

This course prepares students to pass the State Certification Exam and is critical for obtaining or maintaining employment in the building construction industry.

Criteria C. -- Curriculum Standards (please initial as appropriate)

- X The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.
- X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

- X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. -- Compliance (please initial as appropriate)

- X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

8/4/15

Faculty Requestor: MARIO MACIEL

Date: 10/22/12

Division Curriculum Representative: JOSE NAVA

Date: 10/22/12

College Curriculum Co-Chairman: _____

Date: _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPT 188

Division: BUSINESS & SOCIAL SCIENCES

Course Title: ADVANCED PLAN READING/CAD

Catalog Description:

Students gain a working knowledge of advanced plan reading and Computer Aided Drafting (CAD) as it applies to the Plumbing and Pipefitting industry. This course is required to meet the certificate requirements to become a journeyman plumber.

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to prepare students to develop and read advanced blueprints. Students will demonstrate their navigation abilities on Computer Aided Drafting (CAD) displays using mechanical and isometric drawings of plumbing systems. This course is required to meet the certificate requirements to become a Journeyman Plumber. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship program.

2. *"A well-educated population being essential to sustaining and enhancing a democratic society, Foothill College commits itself to providing access to outstanding educational opportunities for all of our students. Whether through basic skills, career preparation, lifelong learning, or transfer, the members of the Foothill College community are dedicated to the achievement of learning and to the success of our students. We affirm that our unwavering dedication to this mission is critical to the prosperity of our community, our state, our nation, and the global community to which all people are members."*
Adopted June 24, 2009

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Plumbing/Pipefitting Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1080 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 9000 hours of on-the-job training. This program promotes continuous workforce education through its State certification and approval process from the Division of Apprenticeship Standards (DAS).

Criteria B. -- Need (Explain)

This course prepares students to pass the State Certification Exam and is critical for obtaining or maintaining employment in the building construction industry.

Criteria C. -- Curriculum Standards (please initial as appropriate)

- ☒ The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.
- ☒ This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

- ☒ This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. -- Compliance (please initial as appropriate)

- ☒ The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: MARIO MACIEL **Date:** 10/22/12

Division Curriculum Representative: JOSE NAVA **Date:** 10/22/12

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPT 189 **Division:** BUSINESS & SOCIAL SCIENCES

Course Title: WELDING/OXYGEN-ACETYLENE

Catalog Description:

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to prepare students to

Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship program.

2. *"A well-educated population being essential to sustaining and enhancing a democratic society, Foothill College commits itself to providing access to outstanding educational opportunities for all of our students. Whether through basic skills, career preparation, lifelong learning, or transfer, the members of the Foothill College community are dedicated to the achievement of learning and to the success of our students. We affirm that our unwavering dedication to this mission is critical to the prosperity of our community, our state, our nation, and the global community to which all people are members."*
Adopted June 24, 2009

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Plumbing/Pipefitting Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1080 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 9000 hours of on-the-job training. This program promotes continuous workforce education through its State certification and approval process from the Division of Apprenticeship Standards (DAS).

Criteria B. -- Need (Explain)

This course prepares students to pass the State Certification Exam and is critical for obtaining or maintaining employment in the building construction industry.

Criteria C. -- Curriculum Standards (please initial as appropriate)

- ☒ The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.
- ☒ This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

- ☒ This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. -- Compliance (please initial as appropriate)

- ☒ The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

8/4/15

Faculty Requestor: MARIO MACIEL

Date: 10/22/12

Division Curriculum Representative: JOSE NAVA

Date: 10/22/12

College Curriculum Co-Chairman: _____

Date: _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPT 190 **Division:** BUSINESS & SOCIAL SCIENCES

Course Title: PIPE FITTING WITH CALCULATOR

Catalog Description:

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to prepare students to

Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship program.

2. *"A well-educated population being essential to sustaining and enhancing a democratic society, Foothill College commits itself to providing access to outstanding educational opportunities for all of our students. Whether through basic skills, career preparation, lifelong learning, or transfer, the members of the Foothill College community are dedicated to the achievement of learning and to the success of our students. We affirm that our unwavering dedication to this mission is critical to the prosperity of our community, our state, our nation, and the global community to which all people are members."*
Adopted June 24, 2009

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Plumbing/Pipefitting Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1080 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 9000 hours of on-the-job training. This program promotes continuous workforce education through its State certification and approval process from the Division of Apprenticeship Standards (DAS).

Criteria B. -- Need (Explain)

This course prepares students to pass the State Certification Exam and is critical for obtaining or maintaining employment in the building construction industry.

Criteria C. -- Curriculum Standards (please initial as appropriate)

- ☒ The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.
- ☒ This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

- ☒ This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. -- Compliance (please initial as appropriate)

- ☒ The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

8/4/15

Faculty Requestor: MARIO MACIEL

Date: 10/22/12

Division Curriculum Representative: JOSE NAVA

Date: 10/22/12

College Curriculum Co-Chairman: _____

Date: _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPT 191 **Division:** BUSINESS & SOCIAL SCIENCES

Course Title: PLUMBING CODE APPLICATION, PLUMBING FIXTURES

Catalog Description:

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to prepare students to

Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship program.

2. *"A well-educated population being essential to sustaining and enhancing a democratic society, Foothill College commits itself to providing access to outstanding educational opportunities for all of our students. Whether through basic skills, career preparation, lifelong learning, or transfer, the members of the Foothill College community are dedicated to the achievement of learning and to the success of our students. We affirm that our unwavering dedication to this mission is critical to the prosperity of our community, our state, our nation, and the global community to which all people are members."*
Adopted June 24, 2009

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Plumbing/Pipefitting Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1080 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 9000 hours of on-the-job training. This program promotes continuous workforce education through its State certification and approval process from the Division of Apprenticeship Standards (DAS).

Criteria B. -- Need (Explain)

This course prepares students to pass the State Certification Exam and is critical for obtaining or maintaining employment in the building construction industry.

Criteria C. -- Curriculum Standards (please initial as appropriate)

- ☒ The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.
- ☒ This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

- ☒ This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. -- Compliance (please initial as appropriate)

- ☒ The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

8/4/15

Faculty Requestor: MARIO MACIEL

Date: 10/22/12

Division Curriculum Representative: JOSE NAVA

Date: 10/22/12

College Curriculum Co-Chairman: _____

Date: _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPT 192 **Division:** BUSINESS & SOCIAL SCIENCES

Course Title: NATURAL GAS INSTALLATION, DRAINAGE

Catalog Description:

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to prepare students to

Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship program.

2. *“A well-educated population being essential to sustaining and enhancing a democratic society, Foothill College commits itself to providing access to outstanding educational opportunities for all of our students. Whether through basic skills, career preparation, lifelong learning, or transfer, the members of the Foothill College community are dedicated to the achievement of learning and to the success of our students. We affirm that our unwavering dedication to this mission is critical to the prosperity of our community, our state, our nation, and the global community to which all people are members.”*
Adopted June 24, 2009

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Plumbing/Pipefitting Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1080 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 9000 hours of on-the-job training. This program promotes continuous workforce education through its State certification and approval process from the Division of Apprenticeship Standards (DAS).

Criteria B. -- Need (Explain)

This course prepares students to pass the State Certification Exam and is critical for obtaining or maintaining employment in the building construction industry.

Criteria C. -- Curriculum Standards (please initial as appropriate)

☒ The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

☒ This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. (“55805.5. Types of Courses Appropriate to the Associate Degree” criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

☒ This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. – Compliance (please initial as appropriate)

☒ The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

8/4/15

Faculty Requestor: MARIO MACIEL

Date: 10/22/12

Division Curriculum Representative: JOSE NAVA

Date: 10/22/12

College Curriculum Co-Chairman: _____

Date: _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPT 193 **Division:** BUSINESS & SOCIAL SCIENCES

Course Title: WATER SUPPLY, PATTERNS

Catalog Description:

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to prepare students to

Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship program.

2. *"A well-educated population being essential to sustaining and enhancing a democratic society, Foothill College commits itself to providing access to outstanding educational opportunities for all of our students. Whether through basic skills, career preparation, lifelong learning, or transfer, the members of the Foothill College community are dedicated to the achievement of learning and to the success of our students. We affirm that our unwavering dedication to this mission is critical to the prosperity of our community, our state, our nation, and the global community to which all people are members."*
Adopted June 24, 2009

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Plumbing/Pipefitting Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1080 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 9000 hours of on-the-job training. This program promotes continuous workforce education through its State certification and approval process from the Division of Apprenticeship Standards (DAS).

Criteria B. -- Need (Explain)

This course prepares students to pass the State Certification Exam and is critical for obtaining or maintaining employment in the building construction industry.

Criteria C. -- Curriculum Standards (please initial as appropriate)

☒ The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

☒ This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

☒ This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. -- Compliance (please initial as appropriate)

☒ The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

8/4/15

Faculty Requestor: MARIO MACIEL

Date: 10/22/12

Division Curriculum Representative: JOSE NAVA

Date: 10/22/12

College Curriculum Co-Chairman: _____

Date: _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APPT 194 **Division:** BUSINESS & SOCIAL SCIENCES

Course Title: MEDICAL GAS, REVIEW EXIT EXAM/FINAL EXAM

Catalog Description:

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to prepare students to

Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship program.

2. *"A well-educated population being essential to sustaining and enhancing a democratic society, Foothill College commits itself to providing access to outstanding educational opportunities for all of our students. Whether through basic skills, career preparation, lifelong learning, or transfer, the members of the Foothill College community are dedicated to the achievement of learning and to the success of our students. We affirm that our unwavering dedication to this mission is critical to the prosperity of our community, our state, our nation, and the global community to which all people are members."*
Adopted June 24, 2009

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Plumbing/Pipefitting Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1080 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 9000 hours of on-the-job training. This program promotes continuous workforce education through its State certification and approval process from the Division of Apprenticeship Standards (DAS).

Criteria B. -- Need (Explain)

This course prepares students to pass the State Certification Exam and is critical for obtaining or maintaining employment in the building construction industry.

Criteria C. -- Curriculum Standards (please initial as appropriate)

- ☒ The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.
- ☒ This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

- ☒ This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. -- Compliance (please initial as appropriate)

- ☒ The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

8/4/15

Faculty Requestor: MARIO MACIEL

Date: 10/22/12

Division Curriculum Representative: JOSE NAVA

Date: 10/22/12

College Curriculum Co-Chairman: _____

Date: _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APRT 111 **Division:** BUSINESS & SOCIAL SCIENCES

Course Title: COMPUTER LITERACY FOR TRADE APPRENTICES

Catalog Description:

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

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is for students to acquire a broad range of skills for servicing heating and air conditioning equipment used in residential applications. Lab activities include reading schematics and diagrams, service and maintenance for leak detection and repair. Work experience and job related safety is part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship work-training program.

2. *"A well-educated population being essential to sustaining and enhancing a democratic society, Foothill College commits itself to providing access to outstanding educational opportunities for all of our students. Whether through basic skills, career preparation, lifelong learning, or transfer, the members of the Foothill College community are dedicated to the achievement of learning and to the success of our students. We affirm that our unwavering dedication to this mission is critical to the prosperity of our community, our state, our nation, and the global community to which all people are members."*
Adopted June 24, 2009

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Sheet Metal-Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1200 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 6500 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS). The apprenticeship program is competitive, typically over 5 years of study, and is funded by the State of California's Department of Labor.

Criteria B. -- Need (Explain)

There is a need to advance the skills of the Sheet Metal apprentice and journey person through classroom instruction and on-the-job training. These skills are learned and applied on the job in the areas to include: Building Trades Sheet Metal construction, Heating, Ventilation & Air-Conditioning (HVAC) system maintenance, and Energy Management for "green" construction. These 2, 3 and 5-year programs enable student's to master the skills needed to be successful in their industry. This course is part of the CA State registered apprenticeship program for the Bay Area Sheet Metal industry.

Criteria C. -- Curriculum Standards (please initial as appropriate)

_____ The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. -- Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: FRANK CUNEO **Date:** 10/22/12

Division Curriculum Representative: PATRICIA GIBBS **Date:** 10/22/12

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APRT 140A

Division: BUSINESS & SOCIAL SCIENCES

Course Title: ELECTRICAL BASICS FOR RESIDENTIAL HVAC SERVICE I

Catalog Description:

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

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is for students to acquire a broad range of skills for servicing heating and air conditioning equipment used in residential applications. Lab activities include reading schematics and diagrams, service and maintenance for leak detection and repair, Work experience and job related safety is part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship work-training program.

2. *"A well-educated population being essential to sustaining and enhancing a democratic society, Foothill College commits itself to providing access to outstanding educational opportunities for all of our students. Whether through basic skills, career preparation, lifelong learning, or transfer, the members of the Foothill College community are dedicated to the achievement of learning and to the success of our students. We affirm that our unwavering dedication to this mission is critical to the prosperity of our community, our state, our nation, and the global community to which all people are members."*
Adopted June 24, 2009

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Sheet Metal-Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1200 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 6500 hours of on-the-job training. This program promotes continuous workforce education through its State approved Certificate of Achievement and approved license from the Department of Apprenticeship Standards (DAS). The apprenticeship program is competitive, typically over 5 years of study, and is funded by the State of California's Department of Labor.

Criteria B. -- Need (Explain)

There is a need to advance the skills of the Sheet Metal apprentice and journey person through classroom instruction and on-the-job training. These skills are learned and applied on the job in the areas to include: Building Trades Sheet Metal construction, Heating, Ventilation & Air-Conditioning (HVAC) system maintenance, and Energy Management for "green" construction. These 2, 3 and 5-year programs enable student's to master the skills needed to be successful in their industry. This course is part of the CA State registered apprenticeship program for the Bay Area Sheet Metal industry.

Criteria C. -- Curriculum Standards (please initial as appropriate)

- X The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. -- Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: FRANK CUNEO **Date:** 10/22/12

Division Curriculum Representative: PATRICIA GIBBS **Date:** 10/22/12

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APRT 156A

Division: BUSINESS & SOCIAL SCIENCES

Course Title: WELDING FOR SHEET METAL SIDING & DECKING APPRENTICES

Catalog Description:

Development of basic skills necessary for the siding & decking apprentice to apply in oxyacetylene, shielded metal arc, and Gas Tungsten arc welding with special emphasis on welding safety.

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is for students to demonstrate safe oxy-acetylene cutting skills to cut metal decking using shielded metal arc welding (SMAW) to fasten metal decking properly. Students will also learn gas metal arc welding techniques and apply them to metal products. Work experience and job related safety is part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship program.

2. *"A well-educated population being essential to sustaining and enhancing a democratic society, Foothill College commits itself to providing access to outstanding educational opportunities for all of our students. Whether through basic skills, career preparation, lifelong learning, or transfer, the members of the Foothill College community are dedicated to the achievement of learning and to the success of our students. We affirm that our unwavering dedication to this mission is critical to the prosperity of our community, our state, our nation, and the global community to which all people are members."*
Adopted June 24, 2009

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Sheet Metal-Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1080 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 6500 hours of on-the-job training. This program promotes continuous workforce education through its State certification and approval process from the Division of Apprenticeship Standards (DAS).

Criteria B. -- Need (Explain)

There is a need to advance the skills of the Sheet Metal apprentice and journey person through classroom instruction and on-the-job training. These skills are learned and applied on the job in the areas to include: Building Trades Sheet Metal construction, Heating, Ventilation & Air-Conditioning (HVAC) system maintenance, and Energy Management for "green" construction. These 2, 3 and 5-year programs enable student's to master the skills needed to be successful in their industry. This course is part of the CA State registered apprenticeship program for the Bay Area Sheet Metal industry.

Criteria C. -- Curriculum Standards (please initial as appropriate)

- X The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.
- X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. – Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: FRANK CUNEO **Date:** 10/22/12

Division Curriculum Representative: JOSE NAVA **Date:** 10/22/12

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: APRT 156B

Division: BUSINESS & SOCIAL SCIENCES

Course Title: MEASURING, DRAWING & LIFTING DEVICES FOR SHEET METAL SIDING & DECKING APPRENTICES

Catalog Description:

Develop the skills and knowledge to measure, draw, fabricate and install various related sheet metal components used in the siding & decking industry. To understand and apply the proper methods of hoisting, rigging, and use of lifting devices to install products on the job.

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is for students to comprehend and apply proper fastening methods for metal decking. Students will demonstrate methods to lift and move heavy objects and measure sheet metal for shop fabrication. Work experience and job related safety is part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship program.

2. *"A well-educated population being essential to sustaining and enhancing a democratic society, Foothill College commits itself to providing access to outstanding educational opportunities for all of our students. Whether through basic skills, career preparation, lifelong learning, or transfer, the members of the Foothill College community are dedicated to the achievement of learning and to the success of our students. We affirm that our unwavering dedication to this mission is critical to the prosperity of our community, our state, our nation, and the global community to which all people are members."*
Adopted June 24, 2009

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for academic instruction and job preparation in a specific field or study or trade related career, which is Sheet Metal-Apprenticeship. It also covers job-related vocational and career technical education. The Apprenticeship school requires students to complete over 1080 hours of classroom education. Union contractors assist in providing employment to students in order for them to fulfill their employment contract to meet 6500 hours of on-the-job training. This program promotes continuous workforce education through its State certification and approval process from the Division of Apprenticeship Standards (DAS).

Criteria B. -- Need (Explain)

The Foothill College Apprenticeship program graduates over 400 students a year in its 2, 3, 4 and 5-year apprenticeship programs. Students will replenish where there are open slots. There are currently over 1500 active students taking courses at Foothill every year. In a typical year, when one student graduates, a slot opens up for a new apprentice. Labor Market Information (LMI) for 12-year projections in 12 counties throughout the Bay Area show occupational index for apprentices will increase positively by 9.9-11.6%. Statewide data shows a 6.5% growth for most programs involved in green technologies.

Criteria C. -- Curriculum Standards (please initial as appropriate)

X The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. – Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: FRANK CUNEO **Date:** 10/22/12

Division Curriculum Representative: JOSE NAVA **Date:** 10/22/12

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: JRYM 174A

Division: BUSINESS & SOCIAL SCIENCES

Course Title: Advanced Welding

Catalog Description:

This course offers instruction and practice of advanced pipe welding techniques using three different weld processes: MIG, TIG, and Stick. Instruction and practice in preparation of 100% X-Ray pipe fitting techniques will also be covered.

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

The objective of this course is to prepare students to perform welding and cutting operations using Oxy/Acetylene torches. Students learn safety techniques, welding preparation, equipment set up and dismantle, advanced arc welding, semi-automatic pipe welding, flat, horizontal, uphill, downhill, and overhead welding in a controlled environment. At the end of the class, some students may take the welding certification exam. Work experience and job related safety is part of this program for compliance to the California State approved, licensed and registered apprenticeship program. Students must pass all safety regulations and testing requirements before they can participate in the apprenticeship program.

2. *"Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California's economic growth and global competitiveness."*

This course is congruent with the Foothill College mission statement in that it:

Fulfills all requirements set forth by the State of California for upgrade skill preparation in a specific field of study. It covers job-related vocational and career technical education. The Pipe Trades Journeyman program requires students to continuously upgrade their knowledge in their particular trade in the new areas of construction. Union contractors assist in maintaining employment to journeyman. This program promotes continuous workforce education and is sponsored by the Department of Apprenticeship Standards (DAS).

Criteria B. -- Need (Explain)

The Foothill College Apprenticeship program graduates over 400 students a year in its 2, 3, 4 and 5-year apprenticeship programs. Students will replenish where there are open slots. There are currently over 3000 active students taking courses at Foothill every year. In a typical year, when one student graduates, a slot opens up for a new apprentice. Labor Market Information (LMI) for 12-year projections in 12 counties throughout the Bay Area show occupational index for apprentices will increase positively by 9.9-11.6%. Statewide data shows a 6.5% growth for most programs involved in green technologies.

Criteria C. -- Curriculum Standards (please initial as appropriate)

X The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. -- Compliance (please initial as appropriate)

X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: MARKK LIKENESS **Date:** 1/11/13

Division Curriculum Representative: JOSE NAVA **Date:** 1/11/13

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: NCLA 406A

Division: Language Arts

Course Title: SUPPLEMENTAL INSTRUCTION ENGLISH: ESSAY & PARAGRAPH LEVEL REVISION

Catalog Description:

An open-entry, open-exit course for students who seek academic support in English. Instruction and/or review of writing skills such as paragraphing, topic sentence, thesis, development, essay organization, sentence structure, basic sentence patterns, style, sentence mechanics, through supplemental instruction developed in a referring course or courses as follows: ENGL 209, 110, 104A/B, 1A, 1S/T, 1B, 1C, 242A/B, 250A, 250, 252A/B.

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

This class offers "academic support at the non-credit level for both younger and older students, including those persons returning to school." The course will provide supplemental learning opportunities for students enrolled in all levels of English composition as well as students working on writing in other disciplines.

2. *"A well-educated population being essential to sustaining and enhancing a democratic society, Foothill College commits itself to providing access to outstanding educational opportunities for all of our students. Whether through basic skills, career preparation, lifelong learning, or transfer, the members of the Foothill College community are dedicated to the achievement of learning and to the success of our students. We affirm that our unwavering dedication to this mission is critical to the prosperity of our community, our state, our nation, and the global community to which all people are members."*
Adopted June 24, 2009

This course is congruent with the Foothill College mission statement in that it:

It supports all missions of the college by providing writing support to students enrolled in different at differently levels of writing ability.

Criteria B. -- Need (Explain)

This course is the first of two in a sequence of non-credit supplemental instruction courses designed to assist students with their reading and writing courses.

Criteria C. -- Curriculum Standards (please initial as appropriate)

 X The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

 X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. ("55805.5. Types of Courses Appropriate to the Associate Degree" criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

 X This course will be administered in the same manner as existing courses in terms of funding, faculty, facilities and equipment.

Criteria E. -- Compliance (please initial as appropriate)

 X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

Faculty Requestor: Brian Lewis

Date: 9/27/12

11/2/09

Division Curriculum Representative: Kella Svetich_____ **Date:** 1/15/13____

College Curriculum Co-Chairman: _____ **Date:** _____

FOOTHILL COLLEGE
Stand-Alone Course Approval Request

Course #: NCLA 406B

Division: Language Arts

Course Title: SUPPLEMENTAL INSTRUCTION ENGLISH: SENTENCE LEVEL EDITING & PROOFREADING IN CONTEXT

Catalog Description:

An open-entry, open-exit course for students who seek academic support in English. Through individualized instruction, including one-on-one tutorials by an English department instructor, an instructional aide, and trained peer tutors as available, students receive help on sentence level (writing) and vocabulary development (reading). Course provides instruction and/or review of sentence level reading/writing skills such as basic sentence patterns, style and flow, sentence mechanics, proofreading, spelling and vocabulary development through supplemental instruction developed in a referring course or courses as follows: ENGL 209, 110, 104A/B, 1A, 1S/T, 1B, 1C, 242A/B, 250A, 250, 252A/B.

Explain briefly how the proposed course satisfies the following five criteria:

Criteria A. -- Appropriateness to Mission

1. The objectives of this course, as defined in the course outline, are consistent with the mission of the California Community Colleges as established by Education Code 66010.4, especially in that this course:

This class offers “academic support at the non-credit level for both younger and older students, including those persons returning to school.” The course will provide supplemental learning opportunities for students enrolled in all levels of English composition as well as students working on writing in other disciplines.

2. *“A well-educated population being essential to sustaining and enhancing a democratic society, Foothill College commits itself to providing access to outstanding educational opportunities for all of our students. Whether through basic skills, career preparation, lifelong learning, or transfer, the members of the Foothill College community are dedicated to the achievement of learning and to the success of our students. We affirm that our unwavering dedication to this mission is critical to the prosperity of our community, our state, our nation, and the global community to which all people are members.”*
Adopted June 24, 2009

This course is congruent with the Foothill College mission statement in that it:

It supports all missions of the college by providing writing support to students enrolled in different at differently levels of writing ability.

Criteria B. -- Need (Explain)

This course is the first of two in a sequence of non-credit supplemental instruction courses designed to assist students with their reading and writing courses.

Criteria C. -- Curriculum Standards (please initial as appropriate)

 X The outline of record for this course has been approved the Division Curriculum Committee and meets the requirements of Title 5.

 X This course is not either degree-applicable or transferable as an articulated lower division major preparation requirement. (“55805.5. Types of Courses Appropriate to the Associate Degree” criteria does not apply.)

Criteria D. -- Adequate Resources (please initial as appropriate)

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Criteria E. – Compliance (please initial as appropriate)

 X The design of the course is not in conflict with any law particularly in regard to enrollment restrictions and licensing or accreditation standards.

11/2/09

Faculty Requestor: Brian Lewis _____ **Date: 9/27/12** _____

Division Curriculum Representative: Kella Svetich _____ **Date: 1/15/13** _____


College Curriculum Co-Chairman: _____ **Date:** _____

Prerequisites and Content Review

The REMIX!
CCC January 29, 2013


“Implementing Prerequisites: A Response to SSTF Rec 3.4”

- Community colleges will require students to begin addressing basic skills needs in their first year and will provide resources and options for them to attain the competencies needed to succeed in college-level work as part of their education plan”
- Approach 1: New Title 5 regulation
- Approach 2: implement reasonable prerequisites at the local level



“Implementing Prerequisites: A Response to SSTF Rec 3.4”

- If CCCs implement reasonable prerequisites at local level, would effectively fulfill the recommendation
- Primary objection: not enough math/English/reading classes to meet demand
 - PROBABLY TRUE! However...
 - College is required to have a plan ensuring that prerequisite courses (basic skills) and courses without prerequisites will be reasonably available to students
 - We have opportunity to develop our OWN plan to address, develop appropriate scheduling, and phase in enrollment restrictions



What's the deal?

- Content review process needed updating anyway
- Prerequisite rules/options have changed, we have to get our ducks in a row
- Deliverables:
 - Procedure for prerequisite establishment (initial)
 - Must meet minimum requirements specified in Title 5 §55002 (and FHDA BP 6060)
 - Procedure for ongoing prerequisite review (part of Title 5 compliance updates cycle)



Other deliverables?

- Before faculty can start implementing any NEW prereqs, Foothill College MUST adopt plan specifying:
 1. the method(s) used to identify courses to which prerequisites might be applied (part of procedure)
 2. the assurance that prerequisite courses (basic skills) and courses without prerequisites will be reasonably available to students
 3. the research to be used to determine impact of new prerequisites (especially disproportionate impact)*
 4. provisions for training the curriculum committee on content review
- *will require close collaboration with researcher

Strategy

- Propose collaborating with Elaine to define method/data to be used to monitor for disproportionate impact
- Needed before implementing NEW prereqs
- Needed in ongoing cyclical review:
 - §55003(l) specifies we must continue to review/monitor prereqs for progress on student equity and disproportionate impact
 - i.e. we're already supposed to be doing this



Deliverable A: Process for prerequisite establishment (initial)

- Must meet minimum requirements specified in Title 5 §55003 (and FHDA BP 6060)
 - Necessary/appropriate – use content review to document skills/knowledge student needs to be successful
 - Procedures to assure course is taught in accordance with COR, especially those aspects used to justify prereq

DRAFT Proposed process

1. Discipline faculty author(s) identify course that might need prerequisite
 - For new courses: go straight to content review
 - For existing courses:
 - Faculty gut check
 - Data from program review re: student success rates in class
 - SLOAC process
 - Other ways?
 - Consider alternatives - Can the discipline faculty teach the concept? Can a math faculty visit the course for one hour or day to teach it?
2. After course identified, content review is next...

DRAFT Proposed process

2. Content review kicks in... but who participates? Required to have “direct involvement of discipline faculty” but room for us to determine specifics e.g.
 - Review for sequenced courses should/must involve...
 - only faculty author? Or, all (FT) faculty in that discipline?
 - space on documentation (form) recommending consultation with De Anza?
 - Review for math/English prereqs on course in another discipline
 - Option 1: require discipline faculty to consult English/Math faculty
 - Option 2: English and math faculty develop rubrics for discipline faculty use, and later collaboration required
 - Option 3: English and math faculty develop rubrics for discipline faculty use, and later collaboration recommended
 - Other options?
 - space on documentation (form) recommending consultation with De Anza?

DRAFT Proposed process

2. Content review kicks in... what elements required?
 - COR of target course
 - Syllabi, exams, assignments, instructional materials, grading criteria
 - Identification of required skills and knowledge students must have prior to enrolling in the target course
 - Matching of those skills and knowledge to prerequisite courses using CORs
 - DOCUMENTATION.
 - Decision: electronic? Paper? C3MS?

English	Writing Assignments	Reading	Voice Audience	Organization Development, and Thesis/ central idea	Sentences and Vocabulary	Mechanics and Grammar	Resources
Freshman Composition (English 1 A) TRANSFER LEVEL Source: IMPAC Document w/ minor revisions	Write a unified, well-developed essay, consisting of introduction, body, and conclusion, with an arguable thesis and persuasive support Use a variety of rhetorical strategies, which may include argument, analysis, textual analysis, comparison/contrast, and causal analysis.	Analyze and evaluate a variety of primarily non-fiction texts for their rhetorical and technical merit, with consideration of the principles of unity, coherence, tone, persona, purpose, methods, and the effects on a target audience.	Demonstrate a sophisticated awareness of audience using a consistent voice.	Organize paragraphs into a logical sequence, developing the central idea of the essay to a logical conclusion.	Employ a variety of sentence structures consistently, using college level diction.	Proofread, and edit essays for public presentation so they exhibit no gross errors in English grammar, usage, or punctuation.	Find, read, analyze, interpret, use, synthesize & evaluate outside sources, including online information. Incorporate sources as appropriate. Use MLA or APA documentation format.

The transfer level writing course description was developed primarily from the IMPAC English Composition English 1A descriptor. The purpose of this project is to direct coding, not to comprehensively cover all curricular components; the rubric is both simplified and universal.

Every course will not fit perfectly on the rubric. There will be nuances in local institutional practices. Therefore, courses should be coded where they *mostly* fit; realizing they may not fit entirely into a specific level. The goal is to code the courses in order to capture student success and progress in each higher level course.

It is acceptable to have two courses on one level. It is acceptable to have fewer levels of English courses than described. About 50% of the institutions surveyed have fewer levels, but we wanted to give every opportunity to track student success in the other 50% of institutions that have 4 levels.

Because the rubrics are not prescriptive we have not included details such as grammar and word count. This rubric is intended to guide coding based on general curricular outcomes, not as rubrics to grade students or to change curriculum. The rubric does not attempt to include best pedagogical practices (such as reading strategies and the writing process), these robust discussion should occur in local English departments.

The rubrics on the following pages represent those kinds of outcomes generally found in levels below transfer-level Freshman Composition.

English Composition	Writing Assignments	Reading	Voice Audience	Organization Development, and Thesis/ central idea	Sentences and Vocabulary	Mechanics and Grammar	Resources
CB21 1 level below transfer	<p>Write essays including argumentation which integrate & synthesize course readings & are clearly focused, fully developed & logically organized</p> <p>Produce in-class essays that demonstrate organizing, composing, revising, editing & time management skills</p>	<p>Analyze and paraphrase texts, drawing a conclusion, making generalizations and analyzing arguments.</p> <p>Apply reading skills to multiple texts.</p>	<p>Write essays to specific audiences using an appropriate voice for those readers.</p>	<p>Formulate an essay with a thesis statement or central idea.</p> <p>Organize essays in which the topic sentences and paragraph details support the thesis.</p>	<p>Construct sentences that demonstrate control of sentence variety and effective word choice, using mostly college level diction.</p> <p>Uses strategies to tackle unfamiliar vocabulary.</p>	<p>Proofread, and edit essays for public presentation so they exhibit limited errors in English grammar, usage, or punctuation.</p>	<p>Identify & evaluate supporting evidence.</p> <p>Demonstrate and apply an emerging competence with documentation methods and simple usage of outside sources.</p>
CB21 2 levels below transfer	<p>Write coherent essays and paragraphs, about course readings and/or other subjects.</p> <p>Demonstrate the ability to summarize, analyze and make a simple synthesis between two readings or ideas.</p> <p>Complete in-class writings that demonstrate some organizing, composing, revising, editing & time management skills.</p>	<p>Read, identify, and summarize short expository texts for the purposes of writing and discussion.</p> <p>Distinguish between fact and opinion, identify author's purpose and recognize author's tone.</p>	<p>Direct writings to a specific audience using a fairly consistent voice.</p>	<p>Construct writings with a central idea and paragraphs that support it.</p> <p>Write paragraphs with supporting sentences that relate to the topic sentence.</p>	<p>Recognize and begin to apply sentence variety and appropriate word choice.</p> <p>Demonstrate an awareness of and emerging competence with vocabulary strategies.</p>	<p>Proofread and edit their essays for public presentation so that they exhibit various high level errors in English grammar, usage, or punctuation.</p>	<p>Use some outside sources and begin to use quotes to attribute those sources.</p> <p>Differentiate between one's own ideas and those of others.</p>

English Composition	Writing Assignments	Reading	Voice Audience	Organization Development, and Thesis/ central idea	Sentences and Vocabulary	Mechanics and Grammar	Resources
CB21 3 levels below transfer	<p>Write short, topic-based papers with a main idea.</p> <p>Write guided in-class assignments based on a variety of prompts that attempt to organize, compose, revise and edit.</p>	<p>Read relevant texts and learn to respond in writing with clarity and commitment.</p> <p>Identify the author's purpose and conclusions.</p> <p>Express personal opinions about texts.</p>	<p>Direct writings to an audience considering voice.</p>	<p>State a topic and use details to support a central idea.</p>	<p>Apply basic sentence variety.</p> <p>Recognize the importance of accurate word choice.</p> <p>Distinguish between standard American English and vernacular.</p> <p>Construct writings w/ mostly effective sentence structure.</p>	<p>Proofread and edit their essays for public presentation so that they exhibit various high level and only a few gross errors in English grammar, usage, or punctuation.</p>	<p>Use a variety of outside sources.</p>
CB21 4 levels below Transfer	<p>Write short, topic-based assignments with a main idea.</p> <p>Write guided in-class assignments.</p>	<p>Read, identify, summarize & restate the main idea of the text in writing.</p> <p>Identify the author's write for different purposes with guided assistance from the instructor.</p> <p>Express personal opinions about reading.</p>	<p>Demonstrate the use of a writing voice.</p>	<p>Use details to support a central idea.</p>	<p>Recognize and imitate basic sentence models.</p> <p>Use familiar vocabulary correctly.</p> <p>Identify slang.</p>	<p>Write grammatically correct simple sentences.</p>	<p>Identify a variety of outside sources.</p>

Mathematics	Define and Manipulate	Solve	Graph	Applications
Intermediate Algebra CB21 – 1 level Below Transfer	Define and manipulate nonlinear and linear functions and relations.	Solve a variety of nonlinear equations, e.g. logarithmic, inverse, quadratic equations, absolute value, rational	Create, analyze and interpret graphs of linear and non-linear relations.	Apply algebra skills to a variety of application such as: Growth and decay Logic reasoning Geometry Optimization Quadratic Applications such as motion, mixture, work.
Elementary/ Introductory Algebra CB21 - 2 levels below Transfer	Define and manipulate linear expressions and polynomials	Solve any linear equation, a variety of 2 variable linear equations (systems) and factorable quadratic equations.	Plot points and graph linear equations on a Cartesian coordinate system.	Set up linear equations representing situations, solve, justify and interpret the solution in the context of the problem.
Pre-Algebra CB21 – 3 levels below Transfer	Define and manipulate signed numbers and variables.	Solve simple linear equations in one variable.	Introduce to the number line.	Apply a known formula to a given situation.
Basic Mathematics (Arithmetic) CB21 – 4 levels below Transfer	Define and manipulate nonnegative rational numbers.	Introduce concepts and symbols of equality and inequality.	-----	Apply the correct operation to a given situation.

Resolution Regarding Process for New Course Creation

Whereas, courses must be created with careful consideration of how they align with the overall college mission and fit into the college's curricular offerings and the CCC has responsibility for coordinating the development of new curriculum between and among divisions,

Resolved that the Curriculum Team develop a brief user-friendly form that will guide CCC reps, deans, and faculty in presenting new (and/or radically-modified) course information concisely, and that CCC Rep(s) will briefly present this information at the next CCC meeting;

Resolved, that CCC members are responsible for carefully considering whether new courses might impact courses or curriculum in their own divisions and if so, for subsequently initiating communication with/between appropriate interdisciplinary faculty;

Resolved that any conflicts or concerns regarding potentially overlapping curriculum be resolved informally through discussions between relevant division/department faculty members; and,

Resolved that in accordance with "primary reliance," and only in those rare cases where department and/or division faculty cannot informally agree on how to resolve a potential conflict, the CCC will take a formal vote to decide the question.

11/6/12 CCC Meeting:

New Course Proposal Process: The CCC approved a modification to the process for proposing new courses. As soon as the completed New Course Proposal form is received by the Instruction Office, the faculty author can receive a course number and shell in C3MS to begin work if they wish. The new course proposal will still be presented at the next CCC meeting.

**Foothill College
College Curriculum Committee
New Course Proposal**

*This form should be completed by the faculty author as preparation to writing a new course. Your division CC rep can assist you in completing it appropriately, and will forward it to the Office of Instruction for inclusion as an announcement at the next available CCC meeting. The purpose of this form is **interdisciplinary communication**. The responsibility to rigorously review and approve new courses remains with the divisional curriculum committees.*

Date Proposal Given to Division CCC Rep:

Faculty Author:

Proposed Number:

Proposed Transferability:

Proposed Title:

Proposed Catalog Description:

Proposed Discipline:

Proposed Need/Justification Statement:

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

Comments & Other Relevant Information for Discussion:

Instruction Office:

Date presented at CCC:

Number assigned:

Date number assigned/notification: