

## Program Creation Process Sign-Off

**Program Title:** Dental Hygiene

**Program Units:** 186 quarter units

**Division:** Bio/Health Sciences      **Proposing Faculty name(s):** Phyllis Sprague

**Type of Program:** \_\_\_\_\_ Transfer      or      **XX** Workforce

**Type of Award:**

- Non-transcriptable certificate
- Certificate of Achievement
- AA/AS Degree

Bachelor's Degree (approved under pilot program SB 850). This is a change to our existing dental hygiene program to move from an AS degree to a baccalaureate degree. The degree will allow these graduates to work in settings that require a bachelor's degree as a minimum qualification.

### Documentation checklists:

#### Transfer documentation

- Catalog Description
- List of Courses
- Articulation & transfer data
- Identification of existing program(s) at CSU/UCs
- Completer Projections
- Identification of any additional resources needed to establish program (i.e. faculty, equipment, etc.)

#### Workforce documentation

- Catalog Description
- List of Courses
- Completer Projections
- Labor Market information
- Identification of any similar program(s) in the area
- Identification of any additional resources needed to establish program (i.e. faculty, equipment, etc.)

**Transfer/Workforce Work Group:**

Recommended

Not Recommended

**Comments:**

Workforce Workgroup strongly supports. Group had a good discussion which included clarification about other divisions providing GE classes at the bachelor's degree level. This degree is clearly good for our students.

Work Group Signature: 

Date: 7/13/15

Supervising Vice President:

Recommended

Not Recommended

**Comments:**



7-14-15

Vice President Signature:

Date:

Planning & Resource Committee:

Recommended

Not Recommended

**Comments:**

PaRC Signature:

Date:

Division Curriculum Committee:

Recommended

Not Recommended

**Comments:**

Following the review by the listed committees, this form should be forwarded to the Office of Instruction.

10/22/14

## **Program Creation Process Sign-Off**

**Division CC Signature:**

**Date:**

Following the review by the listed committees, this form should be forwarded to the Office of Instruction.  
10/22/14

**Foothill College  
Credit Program Narrative  
Bachelor degree in Dental Hygiene (under pilot program SB 850)**

## **Item 1. Program Goals and Objectives**

### **Foothill College Dental Hygiene Program Mission:**

The mission of the Dental Hygiene Program is to educate students to be eligible for licensures as dental hygienists. This education will include courses in basic, social and dental sciences, liberal arts, dental ethics and jurisprudence, and public health with an emphasis on the clinical aspects of dental hygiene practice. This education will provide the students with a foundation to pursue life long learning.

### **Foothill College Dental Hygiene Program Goals:**

The goals of the Dental Hygiene Program are designed to prepare the dental hygiene student upon graduation; (1) to prepare graduates to provide comprehensive dental hygiene care in a variety of dental health care settings to individuals from diverse socioeconomic, educational and/or cultural backgrounds; (2) to assume responsibility for oral health wellness and disease prevention in the realm of dental hygiene care for individuals and the community; (3) to develop a graduate who practices and promotes ethical and legal considerations in patient care; and (4) to educate students to actively pursue continuing and advanced education.

### **Foothill College Dental Hygiene Program Competencies**

**Dental Hygiene Process of Care:** Dental hygiene graduates must be competent in assessing the oral health needs of diverse populations and providing comprehensive dental hygiene care for persons of all ages/stages of life.

**Health Education Strategies:** Dental hygiene graduates must be competent in health education strategies for the prevention of disease & the promotion of health for individual clients and the community.

**Infection & Hazardous Waste Management:** Dental hygiene graduates must be competent in infection & hazard control procedures to prevent the transmission of infectious diseases.

**Legal & Ethical Principles:** Dental hygiene graduates must be competent in the ethical & legal principles underlying the practice of dental hygiene.

### **Foothill College Dental Hygiene Program Student Learning Outcomes (PLOs)**

**PLO 1. Students will demonstrate the necessary knowledge, skills, and values for the practice of dental hygiene.**

#### **Outcomes assessment:**

1. National Board exam scores
2. RDH licensing exams
3. E-portfolio capstone project

#### **Related Institutional Learning Outcomes:**

1. Communication
2. Creative, critical and analytical thinking
3. Computation
4. Community/global consciousness and responsibility

**PLO 2. Students will demonstrate the necessary knowledge and values in legal regulations and ethical issues for the practice of dental hygiene.**

#### **Outcomes assessment:**

1. National Board exam scores: Professional Responsibility and Liability section
2. State of California Law & Ethics for the RDH exam scores
3. E-portfolio law & ethics project

**Related Institutional Learning Outcomes:**

1. Communication
2. Creative, critical and analytical thinking
3. Computation
4. Community/global consciousness and responsibility

100% of dental hygiene graduates will submit a comprehensive e-folio demonstrating competency in the four domains: DH Process of Care, Health Education, Infection & Hazard Control and Ethical/Legal practices.

## **Item 2. Catalog Description**

The Dental Hygiene Program is a Bachelor in Science degree program, under the pilot program (SB 850), authorized by the State Chancellor's Office. The program is highly academic, with an emphasis on evidence based practice and clinical skills to prepare students to assess the medical/dental status of patients, develop a dental hygiene care plan, implement appropriate dental hygiene care, and evaluate outcomes. The Commission on Dental Accreditation accredits the Foothill College Dental Hygiene Program. Graduates are eligible to take the National Dental Hygiene Board Examination and qualify for the State or Regional Registered Dental Hygiene licensure examination.

## **Item 3: Program Requirements**

Preparation for the major = 86 quarter units (first two years)

Majors courses = 100 quarter units

Total units for BS in Dental Hygiene = 186 quarter units (124 semester units)

### **Required Prerequisite Coursework**

- English composition, reading, critical thinking (2 quarters or semesters) – coursework equivalent to ENGL 1A, 1B also permit 1AH, 1BH, 1CH, 1S & 1T, and ESLL 26, C-ID equivalents are C-ID ENGL 100, 105, 110)
- Introduction to speech or communication (1 quarter or semester) – must be a transferable course– coursework equivalent to COMM 1A or COMM 1AH
- Introduction to sociology (1 quarter or semester) – coursework equivalent to SOC 1 (C-ID descriptor is C-ID SOCI 110)
- General psychology (1 quarter or semester) – coursework equivalent to PSYC 1, C-ID descriptor is C-ID PSY 110
- Health (1 quarter or semester) - coursework equivalent to HLTH 21, C-ID descriptor is pending
- Statistics (1 quarter or semester) - coursework equivalent to MATH 10, C-ID descriptor is C-ID MATH 110
- General anatomy and physiology with labs (1 year) – coursework equivalent to Bio 40A, 40B, 40C C-ID descriptor is C-ID BIO 155 S or C-ID BIO 110B and 120B
- Survey of inorganic, organic and biochemistry and labs (2 quarters or semesters) – coursework equivalent to CHEM 30A & 30B
- Human nutrition (1 quarter or semester) – must be a transferable course coursework equivalent to Bio 45, C-ID descriptor is C-ID NUTR 110
- Microbiology with lab (1 quarter or semester) – must be a transferable course, coursework equivalent to Bio 41, No C-ID descriptor yet
- Pharmacology (1 quarter or semester) coursework equivalent to Bio 58, No C-ID descriptor yet

**Recommended sequence of courses****Freshman Year****Fall (14 units)**

Recommended courses	Quarter units
ENGL 1A (GE II) Composition & Reading	5
CHEM 30A (GE III) Survey of Inorganic & Organic Chemistry	5
HLTH 21 (GE VII) Contemporary Health Concerns	4

**Winter (16 units)**

Recommended courses	Quarter units
ENGL 1B (GE V) Composition, Critical Reading & Thinking	5
CHEM 30B Survey of Organic & Biochemistry	5
PSYCH 1 (GE IV) General Psychology	5
Lifelong learning elective (GE VII) – second requirement for this section	1

**Spring (15 units)**

Recommended courses	Quarter units
BIO 40A Human Anatomy & Physiology I	5
SOC 1 Introduction to Sociology	5
MATH 10 Elementary Statistics	5

**Sophomore Year****Fall (15 units)**

Recommended courses	Quarter units
BIO 40B Human Anatomy & Physiology II	5
BIO 41 Microbiology	6
AHS 200 Introduction to Allied Health Programs	3
DH 200L Introduction to Dental Hygiene	1

**Apply to the Dental Hygiene Program: note application deadline February 11, 2016****Winter (13 units)**

Recommended courses	Quarter units
BIO 40C Human Anatomy & Physiology III	5
BIO 45 Introduction to Human Nutrition	4
Humanities elective (GE I) – student choice	4

**Spring (13 units)**

Recommended courses	Quarter units
COMM 1A	5
BIO 58 Fundamentals of Pharmacology	4
US Cultures & Communities elective (GE VI)	4

**Acceptance to the DH program****Junior Year****Summer (1 unit)**

Recommended courses	Quarter units
DH 50 Orientation to Dental Hygiene	1

**Fall (14.5 units)**

Recommended courses	Quarter units
DH 52A Oral Biology I	3
DH 53 Assessment Procedures in the Dental Hygiene Process	3

D H 54 Pre-Clinical Dental Hygiene	4
D H 59 Survey of Dentistry	1
D H 60A Introduction to Dental Radiography I	2
AHS 50 Introduction to Allied Health Programs	1.5

**Winter (17.5 units)**

Recommended courses	Quarter units
D H 52B Oral Biology II	3
D H 60B Dental Radiography II	1
D H 61A Clinical Technique	6
D H 71 Office Emergency Procedures	2
D H 72 Dental Materials	3
D H 73 Dental Health Education	2
AHS 50B Interprofessional Patient Competencies	.5

**Spring (14 units)**

Recommended courses	Quarter units
D H 55A Fundamentals of Pathology I	2
D H 56 Applied Pharmacology in Dentistry	2
D H 57A Periodontics I	3
D H 61B Introduction to Clinic	5
D H 68A Radiographic Interpretation	2

**Senior Year**

**Summer (5.5 units)**

Recommended courses	Quarter units
D H 62A Clinical Dental Hygiene I	3
D H 65 Clinical Local Anesthesia	2.5

**Fall (17.5 units)**

Recommended courses	Quarter units
D H 55B Fundamentals of Pathology II	2
D H 57B Periodontics II	2
D H 58A Community Dental Health I	2
D H 60C Dental Radiography III	1
D H 62B Clinical Dental Hygiene II	8.5
D H 75A Clinical Dental Hygiene Theory I	2

**Winter (14.5 units)**

Recommended courses	Quarter units
D H 58B Community Dental Health II	2
D H 60D Dental Radiography IV	1
D H 62C Clinical Dental Hygiene III	8.5
D H 67 Nitrous Oxide/Oxygen Analgesia	1
D H 75B Clinical Dental Hygiene Theory II	2

**Spring (14.5 units)**

Recommended courses	Quarter units
D H 58B Community Dental Health III	2
D H 62D Clinical Dental Hygiene IV	8.5
D H 64 Ethics, Law & Dental Office Practices*	3
D H 75C Clinical Dental Hygiene Theory III	2

The CSU pattern for general education can be met with the courses that are required support courses for a degree in dental hygiene.

CSU GE	Subject matter	Foothill course	Number of required units
Area A-1	Oral Communication	COMM 1A	
Area A-2	Written Communication	ENGL 1A	Area A 12-15 quarter units
Area A-3	Critical Thinking	ENG 1B	
Area B-1	Physical Science	CHEM 30A	
Area B-2	Life Science	BIO 40A	Area B 12-15 quarter units
Area B-3	Laboratory Activity	BIO 41	
Area B-4	Math	MATH 10	
Area C-1	Arts	Elective	Area C 12-15 quarter units
Area C-2	Humanities	Elective	
Area D-0	Sociology	SOC 1A	Area D 12-15 quarter units
Area D-3	Ethnic studies	COMM 12	
Area D-2	Psychology	PSYCH 1A	
Area E	Lifelong development	HLTH 21	

#### **Item 4: Master Planning**

##### **A description of the planning process that led to the request for the change**

Planning for the program has been ongoing for many months and is based on the college mission, needs of the field, and needs of the community. Administrator and faculty leaders have been involved with efforts at the state level to authorize a baccalaureate pilot since 2013. Since only one program in the District could apply for the pilot the Chancellor requested programs at Foothill and De Anza to submit a rationale and need statement to her in October 2013. Based on this information, Chancellor Linda Thor selected the Foothill Dental Hygiene program to be the District's submission to the state pilot. The program was selected by a state review committee and received initial Board of Governor's approval in January 2015 with final approval on March 15, 2015.

Beginning in fall 2014 the Dental Hygiene department has been working with other baccalaureate pilot programs around the state. They have also been examining their curriculum and student needs in a series of departmental discussions. Along the way the campus has been kept informed of the process at participatory governance meetings. In addition, the program has sought feedback from its Advisory Board and Division colleagues.

Discussions have begun with financial and business offices to identify needed changes in those areas. The department has begun the process for approval of necessary curricular change. The program director will be on sabbatical leave in Spring 2015 to devote additional time to program planning.

##### **Timeline of Planning Process Leading to a Request a B.S. in Dental Hygiene**

**Fall 2013**

California Community Colleges Baccalaureate Degree Study Group

Chancellor Linda Thor and Associate Vice President of Instruction Andrew LaManque serve on the study group recommending a CC Baccalaureate Degree

[http://californiacommunitycolleges.cccco.edu/portals/0/reportsTB/2014\\_01\\_BacDegree\\_StudyGroup\\_WE\\_B.pdf](http://californiacommunitycolleges.cccco.edu/portals/0/reportsTB/2014_01_BacDegree_StudyGroup_WE_B.pdf)

**March 3, 2014**

**FHDA Board of Trustees Passes Resolution Supporting CC Baccalaureate**

Trustees approved a resolution in support of California community colleges offering baccalaureate degrees in applied and technical fields, citing the need to address critical workforce demands and meet

the needs of students by offering degrees at colleges that are convenient, accessible and affordable.  
[http://www.fhda.edu/\\_downloads/Highlights03.03.14.pdf](http://www.fhda.edu/_downloads/Highlights03.03.14.pdf) Foothill College Dental Hygiene Baccalaureate Substantive Change Proposal, 3/17/15 Page 9

October 15, 2014

Foothill College Planning and Resource Council (PaRC)

President Miner announced that the process to select a baccalaureate pilot program had begun. Miner commented that only one application for each District would be considered. Chancellor Linda Thor would choose between Foothill's Dental Hygiene Program and De Anza's Automotive Management Program.  
[http://www.foothill.edu/president/parc/minutes/parc2014-15/parc11.19.14/parc\\_minutes10.15.14.pdf](http://www.foothill.edu/president/parc/minutes/parc2014-15/parc11.19.14/parc_minutes10.15.14.pdf)

October 24, 2014

Chancellor's Advisory Council

Chancellor Thor provided an update regarding the recently approved community college baccalaureate degree pilot program. She explained that it was very difficult to choose between the colleges' programs, but after much deliberation, she authorized Foothill College's Dental Hygiene program to proceed with developing a proposal. Linda noted that there is a November 12, 2014, deadline for districts to submit a notice of intent to the state Chancellor's Office; program proposals are due December 19, 2014; and the California Community Colleges Board of Governors is expected to announce pilot colleges on January 21, 2015. [http://www.fhda.edu/\\_about-us/\\_participatorygovernance/\\_CACSum\\_102414.pdf](http://www.fhda.edu/_about-us/_participatorygovernance/_CACSum_102414.pdf)

January 15, 2015

Board of Governors, California Community Colleges

Program receives initial approval for the pilot program to offer a baccalaureate degree.

[http://californiacommunitycolleges.cccco.edu/Portals/0/DocDownloads/PressReleases/JAN2015/PR\\_4yrDegree-January-20-2015\\_final.pdf](http://californiacommunitycolleges.cccco.edu/Portals/0/DocDownloads/PressReleases/JAN2015/PR_4yrDegree-January-20-2015_final.pdf)

[http://extranet.cccco.edu/Portals/1/ExecutiveOffice/Board/2015\\_agendas/January/California\\_Community\\_Colleges\\_Baccalaureate\\_Degree\\_RECOMMENDED\\_PILOT\\_PROGRAMS\\_final\\_Jan-2015.pdf](http://extranet.cccco.edu/Portals/1/ExecutiveOffice/Board/2015_agendas/January/California_Community_Colleges_Baccalaureate_Degree_RECOMMENDED_PILOT_PROGRAMS_final_Jan-2015.pdf)

January 21, 2015

Foothill Planning and Resource Council (PaRC)

Dean of Biological & Health Sciences Nanette Solvason announced that the Foothill College Dental Hygiene was one of fifteen programs to participate as a pilot program to offer a baccalaureate degree.  
[http://www.foothill.edu/president/parc/minutes/parc2014-15/parc2.18.15/parcminutes1.21.15\\_final.pdf](http://www.foothill.edu/president/parc/minutes/parc2014-15/parc2.18.15/parcminutes1.21.15_final.pdf)

January 28, 2015

Dental Program Advisory Board Meeting

UCSF Affiliation: Elena Ortega announced that UCSF is very excited about the Bachelor pilot program at Foothill, as the Foothill students in their Masters program are amazing. They have had 4 classes in the Masters program, and have had excellent graduates.

March 13, 2015

Biological and Health Sciences Division Meeting Foothill College Dental Hygiene Baccalaureate Substantive Change Proposal, 3/17/15 Page 10

March 16, 2015

Board of Governors Approves Program for Pilot

The California Community Colleges Board of Governors gave final approval on Monday for 12 community colleges to participate in a landmark pilot program that allows them to offer bachelor's degrees in fields such as respiratory therapy, dental hygiene and aerospace manufacturing technology.

[http://californiacommunitycolleges.cccco.edu/Portals/0/DocDownloads/PressReleases/MAR2015/PR\\_4YearDegreeMarchApp\\_March-16-2015.pdf](http://californiacommunitycolleges.cccco.edu/Portals/0/DocDownloads/PressReleases/MAR2015/PR_4YearDegreeMarchApp_March-16-2015.pdf)

March 18, 2015

Foothill Planning and Resource Council (PaRC)

First read of substantive change proposal.

April 6, 2015  
FHDA Board of Trustees  
Board of Trustees approves substantive change proposal.

April 15, 2015  
Foothill Planning and Resource Council (PaRC)  
Second read of substantive change proposal.

April 2015  
· College and state curriculum review  
· Obtain final college approval for revised and new courses.  
· Submit curriculum for State approval.  
· Host a Program Information Night

2015-2016  
· Complete the course development for the revised and new courses (learning objectives, instructional materials and resources).  
· Finalize the pilot program Dental Hygiene application  
· Hold Applicant Information Nights  
· Work with Community College Partners on curriculum alignment

2016-2017 Admit the 1st DH pilot program class, graduation June 2018  
2017-2018 Admit the 2nd DH pilot program class, graduation June 2019  
Complete curriculum alignment with Community College Partners  
2018-2019 Admit the 3rd DH pilot program class, graduation June 202

## **Item 5: Enrollment and Completer Projections**

The Employment Development Department (EDD) published "2010-2020 Fastest Growing Occupations" for San Jose-Santa Clara-Sunnyvale, with the projected growth rate for Dental Hygiene at 29 % growth, higher than the projected state wide growth of 23.4%. The economy of the Greater Bay Area is booming and the robust regional economy is an additional reason the Foothill College dental hygiene program is an excellent site for the baccalaureate pilot program.

The dental hygiene program will continue to accept 24 students to the dental hygiene program each year. Students will earn a baccalaureate degree instead of an Associate of Science degree.

We will offer a second track, a bachelor's completion degree in dental hygiene for graduates of accredited dental hygiene programs. The completion degree is covered in a separate "Program Creation" document, submitted with this document. The chart below summarizes our enrollment projections based on partnerships with Bay Area community colleges offering Dental Hygiene:

	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
Foothill	50	50	50	50	50	50
Partnering CCs*	0	0	20	40	60	80
TOTAL	50	50	70	90	110	130

\*Partnering Community Colleges: Cabrillo College, Chabot College, Diablo Valley College, Santa Rosa Junior College

The four other community college dental hygiene programs in the San Francisco Bay Area: Cabrillo, Chabot, Diablo Valley and Santa Rosa, have written letters of support for Foothill College to be selected for the pilot program. In keeping with collaborative efforts facilitated by the Bay Area Community College

Consortium, we are taking a regional approach to the baccalaureate degree in dental hygiene by aligning our curriculum across all five campuses.

### **Item 6: Place of Program in Curriculum/Similar Programs**

This program will be in place of our existing Associate of Science degree in Dental Hygiene. Our students take the same National Dental Hygiene Board examination and the same clinical licensing board exams as students from baccalaureate degree programs. The accrediting body for dental hygiene programs is the Commission on Dental Accreditation (CODA). The CODA standards for associate and baccalaureate degree programs require that the curriculum must deliver the same content. The difference between the associate and baccalaureate programs is (1) the total number of units and (2) the upper division general education courses. Entry to most dental hygiene programs requires approximately 3 semesters of prerequisite course work prior to the mandatory 2-year dental hygiene curriculum. In a recent American Dental Hygienists' Association survey, 79.9% of first year students had already completed at least 2 years of college.

Our dental hygiene curriculum is considered to be bachelor's equivalent in the California Business & Professions Code (1922) for the purposes of obtaining the RDHAP (Registered Dental Hygienist in Alternative Practice) license. However, we believe that there should be additional coursework in critical thinking, writing and research at the upper division level for the baccalaureate degree. This would include general education consistent with CSU requirements in statistics, and composition, critical reading & thinking, and adding a third research course in the senior year to bring the depth to the baccalaureate level.

### **Item 7: Similar Programs at other colleges in Service Area**

We will be the only bachelor's degree dental hygiene program in a public institution in Northern California. California offers no baccalaureate degree dental hygiene programs at any UC or CSU campus. The Foothill College dental hygiene program has an affiliation with the UCSF Dental School, which has written a letter of support for our program to be in the baccalaureate pilot. The only baccalaureate programs are at private universities: University of the Pacific, Loma Linda, West Coast University and USC. Evidence: link to Commission on Dental Accreditation – list of dental hygiene programs in California <http://www.ada.org/en/coda/find-a-program/search-dental-programs/allied-programs>

### **Item 8: Additional Resources Required**

The program director has been granted a sabbatical leave (PDL) in Spring 2015 to work on baccalaureate curriculum and accreditation processes. Planning and implementation costs will be funded by a combination of CTE Enhancement Funds, Perkins, Chancellor's Circle, President's Innovation Fund, and divisional operating budgets.

We have adequate funding and staffing for this program change to the bachelor's degree level. For the second track, the bachelor's completion program, we are requesting one more full-time faculty member to implement this program. Refer to the Bachelor's degree completion document for this.

The program has four full-time faculty: (1) a program director/instructor/first year clinic coordinator, (2) a radiology instructor/coordinator (split assignment between Dental Hygiene & Dental Assisting), (3) second year clinic coordinator, (4) classroom lecturer (split assignment between Dental Hygiene & Health). All have master's degrees or higher and qualify to teach at the baccalaureate level. They have experience with research, curriculum development, educational methodology, and program evaluation. An additional nine part-time faculty are qualified to teach baccalaureate students.