

Oregon Tech
Dental Hygiene Bachelor of Science in Klamath Falls
2015-2016 Assessment Report

I. Introduction

The Oregon Tech Dental Hygiene program began in 1970 as an Associate of Applied Science (AAS) program. Beginning in 1985, students had the option of completing a Bachelor of Science (BS) degree, and in 2003 the program began awarding the BS degree only.

All students must complete prerequisite courses to be eligible for application to the program. Acceptance to the program is selective and limited to no more than 27 students at Klamath Falls. Students enter the program each year in fall term.

The five-year retention and graduation rate is presented in the Table 1 below.

TABLE 1: 5-YEAR GRADUATION RATE				
Class 2012	Class 2013	Class of 2014	Class of 2015	Class of 2016
21/25 (87.5%)	21/27 (77.78%)	22/24 (87.5%)	18/24 (75%)	23/23 (100%)

II. Program Purpose, Objectives, and Student Learning Outcomes

The dental hygiene faculty reviewed the program's purpose, objectives, and learning outcomes during a department meeting on September 17, 2015. The faculty affirmed the statements below:

Dental Hygiene Program Purpose

The purpose of the Bachelor of Science in Dental Hygiene program is to prepare students for entry into the dental hygiene profession and additional careers such as public health, administration, education, research, and marketing. The graduate will be prepared to enter master degree programs in dental hygiene and related programs.

Program Educational Objectives

1. Provide the dental hygiene student the opportunity to gain the necessary knowledge, skills, and values to enter the registered practice of dental hygiene
2. Prepare the student to sit for the National Board Dental Hygiene Examination
3. Prepare the student to take the WREB examination in dental hygiene, anesthesia, and restorative.

Program Student Learning Outcomes

PROFESSIONALISM, ETHICAL PRACTICE: The dental hygiene graduate will be competent in applying ethical, legal, and regulatory concepts in the provision and/or support of oral health care services

CRITICAL THINKING AND PROBLEM SOLVING: The dental hygiene graduate will be competent in critical thinking and problem solving related to comprehensive care and management of patients

LIFELONG LEARNING: The dental hygiene graduate will demonstrate competent knowledge and self-assessment skills necessary for life-long learning

CULTURAL AWARENESS: The dental hygiene graduate will be competent in interpersonal and communication skills to effectively interact with diverse population groups

COMMUNITY HEALTH: The dental hygiene graduate will be competent in assessing, planning, implementing and evaluating community based oral health programs including health promotion and disease prevention activities

PATIENT CARE COMPETENCY: The dental hygiene graduate will be competent in providing oral health care to all stages of life and for all periodontal classifications.

The program also offers students experiential learning opportunities including:

- Membership in the Student American Dental Hygienists’ Association (SADHA) and representation at state and national levels
- Professional meetings: Oregon Dental Conference, Oregon Dental Hygienists’ House of Delegates Meeting, and American Dental Hygienists’ Association Annual Meeting.
- Assessment, planning, implementation, and evaluation of community health projects
- International trips to provide dental hygiene care to persons living in third world countries
- Off campus experience: school-based screenings and presentations, health fairs, and dental clinics/offices.

III. Six-Year Cycle for Assessment and Student Learning Outcomes

The assessment schedule for Oregon Tech essential student learning outcomes (ESLO) and dental hygiene program student learning outcomes (PSLO) are summarized in Table 2 below. ESLOs are assessed every six years and PSLOs are assessed every three years.

Table 2: Six-Year Cycle for Assessment							
<i>Outcome</i>	<i>Description</i>	<i>2015-2016</i>	<i>2016-2017</i>	<i>2017-2018</i>	<i>2018-2019</i>	<i>2019-2020</i>	<i>2020-2021</i>
ESLO	Diverse perspectives	X					
PSLO	Interaction with diverse populations	•			•		
ESLO	Communication		X				
ESLO	Inquiry and analysis			X			
PSLO	Critical thinking			•			•
ESLO	Ethical Reasoning				X		
PSLO	Ethics & jurisprudence	•			•		
ESLO	Teamwork					X	
ESLO	Quantitative literacy						X
PSLO	Community-based oral health programs			•			•
PSLO	Provision of oral health care		•			•	
PSLO	Self-assessment and life-long learning		•			•	

Table 2: Six Year Assessment Cycle

KEY: X = ESLO, • = PSLO

IV. Summary of 2015-2016 Assessment Activities

During the 2015-16 academic year, the dental hygiene faculty conducted formal assessment of

- ESLO, diverse perspectives / PSLO, interaction with diverse populations
- PSLO, ethics and jurisprudence

The following table (Table 3) provides an overview of 2015-2016 assessment activities.

TABLE 3: Overview of 2015-2016 Assessment Activities		
<i>Student Learning Outcome</i>	<i>Criteria</i>	<i>Assessment Method</i>
ESLO, diverse perspectives PSLO: interaction with diverse populations	<ul style="list-style-type: none"> • Recognize: Show awareness of one's own perspectives • Know: Demonstrate factual knowledge • Understand: Display understanding of other's perspectives • Apply: Apply factual knowledge 	<u>Direct Assessment</u> <ul style="list-style-type: none"> • Project <u>Indirect Assessment</u> <ul style="list-style-type: none"> • Graduate survey
Direct Assessment: DH 423, Senior year, winter term, 2016 by Elizabeth Gordon Indirect Assessment: Class of 2016, week 9-10 winter term by Elizabeth Gordon		
PSLO: Ethics & jurisprudence	<ul style="list-style-type: none"> • Differentiate: Explain difference between ethics & law • Recognize: Recognize decision requiring ethical judgments • Support: Support ethical reasoning • Evaluate: Identify and critically evaluate code • Articulate: articulate a code of personal ethics 	<u>Direct Assessment</u> <ul style="list-style-type: none"> • Case study <u>Indirect Assessment</u> <ul style="list-style-type: none"> • Graduate survey
Direct Assessment: DH 275, Sophomore year, winter term, 2015 by Evelyn Hobbs Indirect Assessment: Class of 2016, week 9-10 winter term by Elizabeth Gordon		

Table 3: 2015-2016 Assessment Activities

PSLO: Interaction with Diverse Populations: Graduates must be competent in interpersonal and communication skills to effectively interact with diverse population groups and other members of the health care team.

Direct Assessment

Dental hygiene students' ability to interact with diverse populations was assessed using a project. However, due to ill health, the instructor was unable to follow through with analysis and original work was not archived.

Indirect Assessment

The ability to interact with diverse populations was assessed using a survey. During week nine of winter term 2016, a survey was administered to dental hygiene students in their last term of the

program. Twenty-three students rated the following statement using a 4-point Likert scale (1- strongly agree; 2- agree; 3- disagree; 4- strongly disagree).

The OIT Dental Hygiene program helped me be able to:

- a. communicate effectively with individuals and groups from diverse populations both verbally and in writing

The following table (Table 4) summarizes the survey results:

TABLE 4: Interaction with Diverse Populations								
Strongly Agree		Agree		Disagree		Agree		Total
34.78%	8	65.22%	15	0.00%	0	0.00%	0	23

Table 4: Assessment results for Interaction with Diverse Populations based on students' self-reporting by survey, winter term 2016.

Strengths: Minimum acceptable performance was met.

Weaknesses: This assessment does not suggest any weakness.

PSLO: Ethics and Jurisprudence:

- Graduates will be competent in the application of principles of ethical reasoning, ethical decision making, research, patient care, and practice management
- Graduates will be competent in applying legal and regulatory concepts to the provision and/or support of oral health care services.

Direct Assessment: Case study

Knowledge of ethical reasoning and ethical decision making was assessed in DH275 using a case study. Twenty sophomore students were assessed. However, the instructor was unable to analyze the results and the original work was not archived.

Indirect Assessment: Survey

The PSLO was assessed using a survey. During week nine of winter term 2016, a survey was administered to dental hygiene students in their last term of the program. Twenty-three students rated the following statements using a 4-point Likert scale (1-strongly agree; 2- agree; 3- disagree; 4- strongly disagree).

The OIT Dental Hygiene program helped me be able to:

- a. discern and manage ethical issues in a changing environment
- b. comply with state and federal laws governing the practice of dentistry and dental hygiene.

The following table (Table 5) summarizes the survey results:

TABLE 5: Ethics and Jurisprudence									
	Strongly Agree		Agree		Disagree		Agree		Total
a.	29.09%	6	69.57%	16	4.35%	1	0.00	0	23
b.	39.13%	9	60.87%	14	0.99%	0	0.00	0	23

Table 5: Assessment results for Ethics and Jurisprudence based on students' self-reporting by survey, winter term 2016

Strengths: Minimum acceptable performance was met.

Weaknesses: This assessment does not suggest any weakness.

V. Evidence of Student Learning

During the 2015-2016 academic year, the Oregon Tech Dental Hygiene program at Klamath Falls assessed the following program student learning outcomes:

- PSLO: Interaction with Diverse Populations
- PSLO/ISLO: Ethics and Jurisprudence

Discussion of assessment results did not occur due to other pressing matters. The program was preparing for a Commission on Dental Accreditation site visit. Additionally, there were unplanned instructor changes and the program was understaffed, which affected its ability to give adequate attention to assessment activities.

VI. Changes Resulting from Assessment

There are no changes resulting from assessment to report.

VII. References

VIII. Appendices

- Curriculum maps

DHBS CURRICULUM MAP: DIVERSE PERSPECTIVES			F	W	S	SU	
SOPHOMORE YEAR	CHE	360	Clinical Pharmacology for the Health Professions				
	DH	221	Dental Hygiene Clinical Practice and Seminar I				
	DH	225	H & Anatomy, Histology, and Embryology				
	DH	240	Prevention I				
	DH	366	Dental Anatomy				
	DH	222	Dental Hygiene Clinical Practice and Seminar II				
	DH	241	Prevention II		I		
	DH	244	General and Oral Pathology				
	DH	252	Oral Radiology I				
	DH	275	Dental Ethics				
	SPE	321	Small Group and Team Communication				
	DH	223	Dental Hygiene Clinical Practice and Seminar III			I	
	DH	242	Prevention III			I	
	DH	253	Oral Radiology II				
	DH	254	Introduction to Periodontology				
	DH	267	Emergency Procedures				
	DH	380	Community Dental Health I			E	
		Social Science Elective					
JUNIOR YEAR	BUS	317	Health Care Management				
	DH	321	Dental Hygiene Clinical Practice and Seminar IV	R			
	DH	340	Prevention IV	R			
	DH	354	Periodontology				
	DH	381	Community Dental Health II	E			
			Psychology elective				
	DH	322	Dental Hygiene Clinical Practice and Seminar V		R		
	DH	341	Prevention V		R		
	DH	351	Pain Management I				
	DH	382	Community Dental Health III		E		
	WRI	227	Technical Report Writing				
			Humanities Elective				
	DH	323	Dental Hygiene Clinical Practice and Seminar VI			R	
	DH	344	Advanced General and Oral Pathology				
	DH	352	Pain Management II				
	DH	363	Dental Materials				
	DH	370	International Externship (optional)			E	
DH	383	Community Dental Health IV			E		
SENIOR YEAR	AHED	450	Instructional Methods				
	BUS	331	Personal Finance				
	DH	371	International Externship (optional)				
	DH	421	Dental Hygiene Clinical Practice and Seminar VII				E
	DH	461	Restorative Dentistry I				
	MATH	243	Introductory Statistics				
	DH	372	International Externship (optional)	E			
	DH	422	Dental Hygiene Clinical Practice and Seminar VIII	R			
	DH	462	Restorative Dentistry II				
	DH	475	DH Research Methods I				
			Communications Elective				
			Humanities Elective				
	DH	423	Dental Hygiene Clinical Practice and Seminar IX		R		
	DH	454	Dental Practice Management				
	DH	463	Restorative Dentistry III		R		
	DH	476	DH Research Methods II				
			Humanities Elective				
		Psychology Elective					

DHBS CURRICULUM MAP: ETHICAL REASONING				F	W	S	SU
SOPHOMORE YEAR	CHE	360	Clinical Pharmacology for the Health Professions				
	DH	221	Dental Hygiene Clinical Practice and Seminar I	I			
	DH	225	H & Anatomy, Histology, and Embryology				
	DH	240	Prevention I				
	DH	366	Dental Anatomy				
	DH	222	Dental Hygiene Clinical Practice and Seminar II		R		
	DH	341	Prevention II				
	DH	244	General and Oral Pathology				
	DH	252	Oral Radiology I		R		
	DH	275	Dental Ethics		E		
	SPE	321	Small Group and Team Communication				
	DH	223	Dental Hygiene Clinical Practice and Seminar III			R	
	DH	242	Prevention III				
	DH	253	Oral Radiology II			R	
	DH	254	Introduction to Periodontology				
	DH	267	Emergency Procedures			R	
	DH	380	Community Dental Health I				
		Social Science Elective					
JUNIOR YEAR	BUS	317	Health Care Management				
	DH	321	Dental Hygiene Clinical Practice and Seminar IV	R			
	DH	340	Prevention IV				
	DH	354	Periodontology				
	DH	381	Community Dental Health II				
			Psychology elective				
	DH	322	Dental Hygiene Clinical Practice and Seminar V		R		
	DH	341	Prevention V				
	DH	351	Pain Management I				
	DH	382	Community Dental Health III				
	WRI	227	Technical Report Writing				
			Humanities Elective				
	DH	323	Dental Hygiene Clinical Practice and Seminar VI			R	
	DH	344	Advanced General and Oral Pathology				
	DH	352	Pain Management II				
	DH	363	Dental Materials				
	DH	370	International Externship (optional)				
DH	383	Community Dental Health IV					
SENIOR YEAR	AHED	450	Instructional Methods				
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	DH	371	International Externship (optional)				
	DH	421	Dental Hygiene Clinical Practice and Seminar VII				
	DH	461	Restorative Dentistry I				
	MATH	243	Introductory Statistics				
	DH	372	International Externship (optional)	R			
	DH	422	Dental Hygiene Clinical Practice and Seminar VIII	R			
	DH	462	Restorative Dentistry II	R			
	DH	475	DH Research Methods I				
			Communications Elective				
			Humanities Elective				
	DH	423	Dental Hygiene Clinical Practice and Seminar IX		R		
	DH	454	Dental Practice Management				
	DH	463	Restorative Dentistry III		R		
	DH	476	DH Research Methods II				
			Humanities Elective				
		Psychology Elective					