



- PUBLIC
- INDEPENDENT

NEW PROGRAM PROPOSAL FOR ROUTINE REVIEW

When finished, please save and email to: he.academicprogramactions@dhe.mo.gov

Sponsoring Institution:

Program Title: Dental Hygiene

Degree/Certificate:

If other, please list:

Options: .

Delivery Site: Main Campus

CIP Classification: 51.0602

Implementation Date: 8/13/2019

Is this a new off-site location? Yes No

If yes, is the new location within your institution's current CBHE-approved service region?

**If no, public institutions should consult the comprehensive review process*

Is this a collaborative program? Yes No

**If yes, please complete the collaborative programs form on last page.*

CERTIFICATIONS

- The program is within the institution's CBHE approved mission. *(public only)*
- The program will be offered within the institution's CBHE approved service region. *(public only)*
- The program builds upon existing programs and faculty expertise
- The program does not unnecessarily duplicate an existing program in the geographically-applicable area.
- The program can be launched with minimal expense and falls within the institution's current operating budget. *(public only)*

AUTHORIZATION

Dr. Paula Carson / Provost & Vice President for Academic Affairs		
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Name/Title of Institutional Officer

Signature

Date

PROGRAM CHARACTERISTICS AND PERFORMANCE GOALS

Although all of the following guidelines may not be applicable to the proposed program, please carefully consider the elements in each area and respond as completely as possible in the format below.

Quantification of performance goals should be included wherever possible.

1. Student Preparation

- Any special admissions procedures or student qualifications required for this program which exceed regular university admissions, standards, e.g., ACT score, completion of core curriculum, portfolio, personal interview, etc. Please note if no special preparation will be required.

Complete all prerequisite courses with grade "C" or better by the end of the spring semester of the year in which you are applying to start in the fall semester. If a passing grade is not achieved within two attempts in any program prerequisite course, an applicant will not be considered for the program. Minimum GPA 2.75

COMM 100: Oral Communications

ENG 101 & 102: College Composition I & II

MATH 125: Contemporary Math

BIO 121: Human Anatomy & Physiology I

BIO 221: Human Anatomy & Physiology II

BIO 231: General & Medical Microbiology

CHEM 120: Chemistry for Allied Health Sciences or higher

KINE 385: Nutrition

- Characteristics of a specific population to be served, if applicable.

Special needs, geriatrics, adults, children over the age of 5, medically compromised populations

2. Faculty Characteristics

- Any special requirements (degree status, training, etc.) for assignment of teaching for this degree/certificate.

Masters level degree with continuing education course in specific content for didactic courses; Bachelor's level degree for clinical and pre-clinical courses per Commission of Dental Accreditation (CODA) guidelines.

Estimated percentage of credit hours that will be assigned to full time faculty. Please use the term "full time faculty" (and not FTE) in your descriptions here.

60% percent full time faculty; with clinical and pre-clinical courses other adjunct will have to be used.

- Expectations for professional activities, special student contact, teaching/learning innovation.

Due to the nature of our Dental Hygiene program, there may be certain demands of faculty for the preparation/contribution of accreditation materials, curriculum and student outcome assessments, assessment of quality control measures as well as other responsibilities not required of typical faculty teaching. In order to recognize all faculty contributions, the department has included categories in the assessment tools that are representative of our profession, accreditation requirements and faculty contributions. The university acknowledges and has in policy that faculty expectations are 60% teaching, 20 % creative/scholarly, and 20% community service.

3. Enrollment Projections

- Student FTE majoring in program by the end of five years.
150
- Percent of full time and part time enrollment by the end of five years.

100% Full time enrollment

STUDENT ENROLLMENT PROJECTIONS

YEAR	1	2	3	4	5
Full Time	30	30	30	30	30
Part Time					
Total	30	30	30	30	30

4. Student and Program Outcomes

- Number of graduates per annum at three and five years after implementation.

Anticipated completion rate of 90%

27 grads per year / three years = 81 grads / 5 years = 135 grads

- Special skills specific to the program.

Clinical experience, periodontal scaling and root-planing, radiographs, oral cancer screening, oral pathology assessment, nutritional and caries prevention, tobacco counseling, local and block anesthesia, nitrous oxide application, and application of medicaments are examples of special skills specific to this program.

- Proportion of students who will achieve licensing, certification, or registration.

100% of student will attain a Registered and Licensed Dental Hygienist; and 100% of students will have certification of nitrous and local and block anesthesia

- Performance on national and/or local assessments, e.g.,

The National Board Dental Hygiene Examination (NBDHE) uses a d-value with a standardized value representing the distance between the school average and the national average; 100% of the students take the exam and the students will target to meet the d-value of a 0 that would fall in the national average. Ninety eight percent (98%) of the students will pass on the first or second attempt of the National Dental Board Dental Hygiene Examination.. Projected outcome is 100% pass rate on first or second attempt of the NBDHE.

Clinical Competency boards vary from region to region, depending upon the specific clinical board. The students choose which clinical board to take or whether or not to take a clinical board depending upon individual situations. Projected outcome is 100% pass rate on first or second attempt of the chosen clinical regional board.

Departmental exit assessment is a cumulative capstone project culminating in a portfolio with 100% participation to fulfill course requirements; to meet goals and objectives established by the dental hygiene department; and in accordance to CODA. An exit survey is completed the last week of classes with the graduates to assess their overall educational experience with the MSSU Dental Hygiene Program. The expectation is 100% of the students will take the survey. The target result to assess the knowledge and process of care applying to clinical situations the overall programs overall goals and objectives.

- Placement rates in related fields, in other fields, unemployed.

*89% in related field
6% employed in other fields or furthering education
5% unemployed*

- Transfer rates, continuous study.

N/A

5. Program Accreditation

- Institutional plans for accreditation, if applicable, including accrediting agency and timeline. If there are no plans to seek specialized accreditation, please provide rationale.

Commission of Dental Hygiene Accreditation submission of Program Change document June 2018 to be reviewed by September 2018.

6. Program Structure

A. Total credits required for graduation: **120**

B. Residency requirements, if any:

Outside of the GenEd, no courses are available to non-resident students because all delivery is on the ground.

C. General education: Total credits:

42

Courses (specific courses OR distribution area and credits)

****Dental Hygiene prerequisites (several are also GenEd courses)***

Course Number	Course Title	Credits
	Fall	
ENG 101 *	College Composition I	3
MATH 125 *	Contemporary Math	3
COMM 100 *	Oral Communications	3
KINE 103	Lifetime Wellness	2
UE 100	University Experience	1
SOC 110	Introduction to Sociology	3
	Total	15 hrs.

	Spring Semester	
BIO 121 *	Human Anatomy & Physiology I	4
CHEM 120 *	Chemistry for Allied Health Sciences	5
ENG 102 *	College Composition II	3
Fine Art	ART 110, TH 110, MUS 110	3
		15 hrs.
	Fall	
BIO 221 *	Human Anatomy & Physiology II	5
BIO 231 *	General and Medical Microbiology w/lab	5
HIST 110/120	US History	3
KINE 385 *	Nutrition	3
		16 hrs.

D. Major requirements: Total credits: **78**

Dental Hygiene Plan of Study by semester

Course Number	Course Title	Credits
	Fall	
ENG 101 *	College Composition I	3
MATH 125 *	Contemporary Math	3
COMM 100 *	Oral Communications	3
KINE 103	Lifetime Wellness	2
UE 100	University Experience	1
SOC 110	Introduction to Sociology	3
		15 hrs.
	Spring	
BIO 121 *	Human Anatomy & Physiology I	4
CHEM 120 *	Chemistry for Allied Health Sciences	5
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Fine Art	ART 110, TH 110, MUS 110	3
		15 hrs.
	Fall	
BIO 221 *	Human Anatomy & Physiology II	5
BIO 231 *	General and Medical Microbiology w/lab	5
HIST 110/120	US History	3
KINE 385 *	Nutrition	3
		16 hrs.

	Spring	
Literature	ENG 150,261,262,271,272,281,282 or PHIL 201,212	3
International	HS 305 (see page 39 of catalog 2016)	3
PSY 100	General Psychology	3
PSC 120	US Government	3
		12 hrs.
	Fall BEGIN DH Curriculum	
DH 355	Dental Radiology I	2
DH 302	Fundamentals of Dental Hygiene	3
DH 303	Fundamentals of Dental Hygiene Lab	3
DH 330	Head and Neck Anatomy	2
DH 335	Oral Histology and Embryology	2
DH 324	Dental Materials	2
DH 325	Dental Materials Lab	1
		15 hrs.
	Spring	
DH 305	Dental Hygiene Concepts Lab	3
DH 304	Dental Hygiene Concepts	2
DH 360	Dental Radiology II	2
DH 365	Dental Radiology Lab	1
DH 350	Periodontics	3
DH 345	Disease Prevention Strategies	2
DH 315	Medical Emergencies	1
DH 370	Dental Hygiene Care for Special Needs Patients	1
		15 hrs.
	Summer	
DH 380	Pain Management	2
DH 385	Clinical Dental Hygiene I	4
		6 hrs.
	Fall	
DH 430	Clinical Dental Hygiene II	5
DH 435	Ethics and Jurisprudence	2
DH 400	Community Dental Health Education	3
DH 420	Pharmacology	3
DH 440	General and Oral Pathology	3
		16 hrs.
	Spring	
DH 401	Community Dental Health Education Practicum	1
DH 490	Clinical Dental Hygiene III	5
DH 495	Practice Management	2
DH 450	Advanced Periodontics	2

		10 hrs.
	*DH Prerequisites	
	TOTAL of BSDH	Credit Hours 120
		120

- E. Free elective credits: **0**
(sum of C, D, and E should equal A)
- F. Requirements for thesis, internship or other capstone experience:
n/a
- G. Any unique features such as interdepartmental cooperation:
n/a

7. Need/Demand

- Student demand
- Market demand
- Societal demand

I hereby certify that the institution has conducted research on the feasibility of the proposal and it is likely the program will be successful.

On July 1, 2011, the Coordinating Board for Higher Education began provisionally approving all new programs with a subsequent review and consideration for full approval after five years.

**MISSOURI SOUTHERN STATE UNIVERSITY
Academic Policies Committee**

Proposal for a NEW MAJOR or MINOR

- 1. School: Health Sciences Department: Dental Hygiene Date: October 2017**
- 2. Title: Bachelor of Science in Dental Hygiene Course #: DH10 and DH11
CIP Code: 51.0602**

There will be both a DH10 and DH11, which have been reserved through the Registrar. The DH10 will be for the Bachelor of Science in Dental Hygiene applicant and the DH11 will be for the Bachelor of Science in Dental Hygiene major.

- 3. New Major or Minor: Major or New Option: _____ in Dental Hygiene**
- 4. Date first offered: Fall 2019.**

Missouri Southern State University Department of Dental Hygiene will be completing a teach-out for students currently enrolled in the Associate of Dental Hygiene Degree program, and who simultaneously want to complete the Bachelor of Science in Health Science. The last class will be accepted in 2018 and will graduate in 2020. Students will work closely with their advisor, who will be knowledgeable about the projected course offerings of the terminated program. The baccalaureate program in Dental Hygiene will begin in 2019. We will begin promoting the Bachelor of Science in Dental Hygiene degree in 2018.

Attach information for items 5-12 as needed.

- 5. Describe the need for this new major including evidence of student demand for the program and market or societal need for the skills being developed.**

Please refer to number one on the following attachment, New Program Proposal Report.

- 6. Is the major interdisciplinary? Yes __, No X. If so, has it been approved by all departments concerned? Yes X, No __. If Interdisciplinary, how will coordination between the departments be accomplished? Not Applicable**
- 7. Are there similar programs offered at other Missouri institutions? Yes X, No _____. If so, how is this program unique or different from existing programs?**

Please refer to number two on the following attachment, New Program Proposal Report.

- 8. Describe the curriculum requirements for the major.**

Please refer to number three on the following attachment, New Program Proposal Report.

9. What are the student learning objectives for the program?

Please refer to the following attachment, Mission, Goals and Objectives.

10. How will the objectives be assessed?

Please refer to the following attachment, Competencies for Entry into the Profession of Dental Hygiene.

11. If this major is approved –

- a. Will additional staff be needed? Yes __, No X. If yes, describe.
- b. Will additional space, equipment, special library materials, or any major expense be involved? Yes __, No X. If yes, specify program needs.

12. Include any additional information about the program that would be helpful.

Please refer to all of the following attachments:

- 1. Bachelor of Science in Dental Hygiene New Program Proposal Report
- 2. Bachelor of Science in Dental Hygiene Plan of Study
- 3. Bachelor of Science in Dental Hygiene Mission, Goals and Objectives
- 4. Bachelor of Science in Dental Hygiene Competencies
- 5. Bachelor of Science in Dental Hygiene Course Catalog Descriptions
- 6. Bachelor of Science in Dental Hygiene Assessment Plan Matrix
- 7. Bachelor of Science in Dental Hygiene Curriculum Management Plan
- 8. Bachelor of Science in Dental Hygiene Curriculum Management Protocol
- 9. Bachelor of Science in Dental Hygiene Course Instructor Review and Evaluation Form
- 10. Missouri Dental Hygiene Workforce
- 11. MSSU Dental Hygiene Program Employer Survey
- 12. MSSU Dental Hygiene Program Student Exit Survey

APPROVED

_____ **Date:** _____ **Date:** _____
 Department Chair School Dean

For office use only. Dates Approved:		
Academic Policies _____	Faculty Senate _____	Board of Governors _____

MISSOURI SOUTHERN STATE UNIVERSITY

Department of Dental Hygiene

HS 17-18:82

AP 17-18:22

New Program Proposal Report: Bachelor of Science in Dental Hygiene

- 1. Program/student demand data with projected enrollment for at least five years**
 - **Should include market demand at national, state, and regional/local demand for students with these skills**
 - **Should include societal need (general needs which are not directly related to employment)**
 - **Should include methodology used to determine the program demand**

Narrative:

According to the U.S. Department of Labor and Statistics, employment of dental hygienists is projected to grow 20 percent from 2016 to 2026. This rate of growth is much faster than the average for all occupations. The reasons for this continued growth are threefold. First, research studies linking oral health and general health are driving the need and want for prevention. Second, as the demand for preventive dental services increases due to collaboration with other preventive health care entities and as the public's awareness of the benefits of prevention increases, the demand to expand access to oral hygiene services will continue to increase. Third, demand for dental hygiene services and expertise is expected to grow as state laws increasingly allow dental hygienist to work at the top of their training. Multiple states have already recognized and activated or in the process of initiating alternative pathways to access dental care by recognizing the expertise and extensive education of the licensed, registered dental hygienist.

In the most recent years, the practice of dental hygiene has evolved and is rapidly continuing to evolve into pathways, much like the nursing profession. State laws are rapidly changing to recognize the Dental Hygiene Therapist, the Expanded Functions Dental Hygienist, and the dental hygienists who seek to own and operate his/her own dental hygiene practice, whether it be in the private sector or in limited accessed areas, such as nursing homes or with indigent populations. A number of mid-level dental provider models with a variety of names have emerged from the dental hygiene field since 2009. Within almost ten years, seven states have joined with a mid-level provider in dental hygiene. Currently, a variety of oral health stakeholders groups in many states are exploring proposals to create new workforce models that will increase access to quality of oral health

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care for all individuals. MSSU Dental Hygiene Program educators would like to take this opportunity to advance with the profession by offering the program as a Bachelor's in Science in Dental Hygiene.

The demand for dental services will increase as research continues to link oral health to overall health. Thanks to technology and readily accessible health information, the awareness and demand to achieve and maintain quality of life via health is a growing market. The baby-boom population is a large consumer of this health market who have the means and desire to seek and demand affordable health care, including dental care. As this large baby-boom population ages, studies are proving that people are keeping more of their original teeth than did previous generations. Furthermore, a large portion of this baby-boom population experienced the benefit of utilizing work-subsidized dental insurance that allowed them to receive regularly scheduled preventive dental care - a benefit that is still in demand as they leave the workforce, yet is possibly no longer covered under the umbrella of dental insurance. While the "want" for dental care and preventive services has not waned, fixed incomes and lack of dental insurance are driving the need for access to alternative, affordable dental care. There are areas in the United States, typically rural areas, where patients need dental care but have little access to it due to the limited availability of health care professionals. Job prospects will be especially good for dental hygienists who are willing to work in these underserved health care areas.

Dental hygienists, who are preventive care experts, are in prime position to fill a recognized void in the health care system. Dental hygienists are oral health care educators who provide preventive dental care, such as cleaning teeth, applying medicaments, and performing specific diagnostic procedures, such as exposing radiographic images. The need for the preventive services provided by dental hygienists will continue to drive demand for dental care.

Missouri Southern State University, Dental Hygiene Program is one of 328 programs in the United States. For the past 2 years, the MSSU Dental Hygiene Program has been ranked in the top 50 dental hygiene programs in the country. The established success of the MSSU Dental Hygiene Program plays a vital role in driving the progression of the educating of future dental hygienist. The educating of dental hygienists is not a vocational program that can be initiated easily. The Commission on Dental Accreditation (CODA) implements accreditation standards that promote and monitor the continuous quality and improvement of dental education programs.

The Commission on Dental Accreditation (CODA) sets the national standards for all dental hygiene education programs. The Accreditation Standards were developed and are in place

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for the following reasons: (1) to protect the public welfare, (2) to serve as a guide for dental hygiene program development, (3) to serve as a stimulus for the improvement of established programs, and (4) to provide criteria for the evaluation of new and established programs. To be accredited by the Commission on Dental Accreditation, a dental hygiene program must meet the set standards. These standards are national in scope and represent the minimum requirements for accreditation. The MSSU Dental Hygiene Program has been fully accredited since inception in 1975.

The dental hygiene curriculum has developed over time. It is created and deliberated by dental hygiene educators, who are typically licensed, registered dental hygienists who are aware of the skills and knowledge required for dental hygiene practice. The courses in dental hygiene programs can go beyond the CODA standards and incorporate education about emerging technologies and futuristic trends significant to providing access to patient care. In order to build, maintain, and improve this successful program, the MSSU dental hygiene educators routinely perform an environmental scan to systematically survey information about the national trends in legislative actions, creation of standards, and need and demand for preventive dental health care services. A variety of methods are used to collect data, including reviewing national and state publications, consulting local, state, and national advisors, and conducting surveys of employers of recent MSSU dental hygiene graduates.

Recently, within the last month, MSSU dental hygiene educators attended a Missouri educators' forum to discuss the education of dental hygienists in this state and neighboring states. In addition, within the last month and on a bi-yearly basis, MSSU dental hygiene educators meet with area dentists, hygienists, and outside professionals who have an interest in furthering health care, to listen to community concerns.

It is because of the collected data, and after thoughtful analysis of the collected data, that MSSU dental hygiene educators decided to pursue the advancement of the dental hygiene profession through the offering of the Bachelor of Science in Dental Hygiene degree. This proposed degree ties into the Dental Hygiene mission to foster the development of life-long learning, outstanding citizens and leaders, and oral health care professionals who can provide ethical, comprehensive care to diverse population groups collaboratively in a variety of settings.

Corresponding attachments:
Hygienist Workforce 2015

Department of Dental Hygiene

- 2. Duplication and collaboration: If similar programs exist in Missouri, what makes the proposed program necessary and/or distinct from the others at public institutions, area vocational technical schools, and private institutions? Does delivery of the program involve a collaborative effort with any external institution or organization?**

Narrative:

The Bachelor of Science in Dental Hygiene (BSDH). The growing and complex healthcare environment creates exciting opportunities for dental hygiene practice and the delivery of oral health care. Our innovative baccalaureate degree program is designed to prepare individuals for positions of responsibility in dental hygiene, including advanced opportunities in clinical practice, education, management, community health, leadership roles, research, and sales. MSSU dental hygiene faculty has identified our focus as working to achieve clinical excellence.

The mission of the Missouri Southern State University Dental Hygiene Program is to attract, educate and graduate men and women who are prepared intellectually, technically and ethically to meet the oral health care challenges of the 21st century. We are committed to excellence in dental hygiene education, practice, public health, management and research. Our purpose is to create an educational environment at the baccalaureate level that fosters the development of life-long learning, outstanding citizens and leaders, and oral health care professionals who can provide ethical, comprehensive care to diverse population groups collaboratively in a variety of settings.

In the State of Missouri there is currently one Bachelor of Science in Dental Hygiene Program and a Master's in Dental Hygiene at the University of Missouri-Kansas City. The other 6 Missouri-based schools are entry level dental hygiene programs. Missouri Southern State University's Dental Hygiene Program has a rich history of fifty plus years serving the four state region as an Associate's Degree Program.

The MSSU Dental Hygiene Program does not involve a collaborative effort with any external institutions or organizations.

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Department of Dental Hygiene

3. Program structure

- Number of credit hours required (include all courses both required and elective options)
- Course name, number, description, and official syllabi
- Requirements for admission and successful completion of the program

DENTAL HYGIENE PLAN of STUDY		
Fall Semester		
Course #	Course Title	Hours
ENG 101 *	College Composition I	3
MATH 125 *	Contemporary Math	3
COMM 100 *	Oral Communications	3
KINE 103	Lifetime Wellness	2
UE 100	University Experience	1
SOC 110	Introduction to Sociology	3
	Total	15 hrs.
Spring Semester		
BIO 121 *	Human Anatomy & Physiology I	4
CHEM 120 *	Chemistry for Allied Health Sciences	5
ENG 102 *	College Composition II	3
Fine Art	ART 110, TH 110, MUS 110	3
	Total	15 hrs.
Fall Semester		
BIO 221 *	Human Anatomy & Physiology II	5
BIO 231 *	General and Medical Microbiology w/lab	5
HIST 110/120	US History	3
KINE 385 *	Nutrition	3
	Total	16 hrs.
Spring Semester		
Literature	ENG 150,261,262,271,272,281,282 or PHIL 201,212	3
International	HS 305 (see page 39 of catalog 2016)	3
PSY 100	General Psychology	3
PSC 120	US Government	3
	Total	12 hrs.
Fall Semester - BEGIN DH Curriculum		
DH 355	Dental Radiology I	2
DH 302	Fundamentals of Dental Hygiene	3

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DH 303	Fundamentals of Dental Hygiene Lab	3
DH 330	Head and Neck Anatomy	2
DH 335	Oral Histology and Embryology	2
DH 324	Dental Materials	2
DH 325	Dental Materials Lab	1
	Total	15 hrs.
Spring Semester -		
DH 305	Dental Hygiene Concepts Lab	3
DH 304	Dental Hygiene Concepts	2
DH 360	Dental Radiology II	2
DH 365	Dental Radiology Lab	1
DH 350	Periodontics	3
DH 345	Disease Prevention Strategies	2
DH 315	Medical Emergencies	1
DH 370	Dental Hygiene Care for Special Needs Patients	1
	Total	15 hrs.
Summer Semester		
DH 380	Pain Management	2
DH 385	Clinical Dental Hygiene I	4
	Total	6 hrs.
Fall Semester Year		
DH 430	Clinical Dental Hygiene II	5
DH 435	Ethics and Jurisprudence	2
DH 400	Community Dental Health Education	3
DH 420	Pharmacology	3
DH 440	General and Oral Pathology	3
	Total	16 hrs.
Spring Semester Year		
DH 401	Community Dental Health Education Practicum	1
DH 490	Clinical Dental Hygiene III	5
DH 495	Practice Management	2
DH 450	Advanced Periodontics	2
	Total	10 hrs.
*DH Prerequisites		
TOTAL of BSDH Credit Hours 120		

MISSOURI SOUTHERN STATE UNIVERSITY

Department of Dental Hygiene

Admission and Completion Requirements:

Complete all prerequisite and dental hygiene courses with grade “C” or better. If a passing grade is not achieved **within two attempts** in any program prerequisite course, an applicant will not be considered for the program. Minimum GPA 2.75

- COMM 100: Oral Communications
- ENG 101 & 102: College Composition I & II
- MATH 125: Contemporary Math
- BIO 121: Human Anatomy & Physiology I
- BIO 221: Human Anatomy & Physiology II
- BIO 231: General & Medical Microbiology
- CHEM 120: Chemistry for Allied Health Sciences or higher
- KINE 385: Nutrition

As a part of this course, the student will be evaluated on his/her ability to demonstrate to the faculty the intellectual, ethical, behavioral and attitudinal attributes necessary to perform the duties required of members of the dental hygiene profession. This course must be passed with a “C” or better to continue in the dental hygiene program. The grading scale is an elevated scale as follows:

- 100-92 A
- 91-83 B
- 82-75 C
- 74-70 D (not passing)
- 69- F (not passing)

4. Program Characteristics and Performance Goals

- **How will you assess the performance of the program? Include any survey analyses to employers and graduates**
- **Include any standardized testing or licensure requirements.**

Narrative:

The Commission on Dental Accreditation (CODA) expects each program to define its own goals for preparing individuals in the discipline. One of the program goals is to comprehensively prepare competent individuals in the discipline. We have incorporated new goals, objectives, competencies, measures, and a matrix that will be followed to assess the outcome of our program and students. The information is in attachment.

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Department of Dental Hygiene

The Commission of Dental Accreditation has an Annual Survey which requires specific gathered data and analysis of the gathered data, to include statistical evidence of program performance, and surveying of employers and graduates. Survey analyses from employers are favorable at a 92% of overall competence of the MSSU dental hygiene graduate for 2017. The graduate survey has ranked the MSSU dental hygiene program overall experience as outstanding or very good.

A survey of the MSSU Dental Hygiene students in academic year 2016-17 was conducted to request feedback on the interest in advancement of the dental hygiene program offerings. The survey indicated that over 50% of 26 responders would like to see this program advance to a four-year degree program of study.

Every state requires dental hygienists to be licensed; requirements vary by state. A degree from an accredited dental hygiene program, passing grades on written and clinical examinations, and successful of a state ethic and jurisprudence exam are required for licensure. To maintain licensure, hygienists must complete a specific number of continuing education requirements within a specified timeframe.

Corresponding Attachments:

- Assessment Plan Matrix
- Mission, Goals, and Objective
- Competencies and Measures
- Curriculum matrix
- Course Instructor Self Eval
- Curriculum Management Protocol
- BSDH Survey
- BSDH Survey Results
- Employer Survey
- Employer Survey Results
- Graduate Survey

Department of Dental Hygiene

5. Financial projections

- **Need projected expenditures and revenues for at least five years**

Narrative:

Project expenditures will not be needed for capital equipment or facility improvement.

The cost per credit hour currently at MSSU is \$351.37. For a 120 hour degree the revenue would estimate to \$23,500. The MSSU Dental Hygiene Program accepts 30 students per year with an estimated revenue outcome for the four year degree as \$70,500. A five year outlook for a four-year dental hygiene degree would be \$3,525,000.

A needs assessment on faculty is estimated at 2-3 faculty for pre-clinical and/or clinicals at \$32 per hour (or current competitive compensation) for the specific lab, clinical, or pre-clinical hours.

6. Accreditation

- **Include any accreditation information as applicable**

Narrative:

The Commission on Dental Accreditation's mission is to serve the oral health care needs of the public through the development and administration of standards that foster continuous quality improvement of dental and dental related educational programs. MSSU Dental Hygiene Program's last accreditation visit was 2016 with the next accreditation visit for 2023, and the accreditation status is approval without reporting requirements.

Laws in each state include a description of the educational requirements for licensure stating that an applicant must have graduated from a dental hygiene school or program that is accredited by CODA.

DENTAL HYGIENE PLAN of STUDY

Fall Semester		
Course #	Course Title	Hours
ENG 101 *	College Composition I	3
MATH 125 *	Contemporary Math	3
COMM 100 *	Oral Communications	3
KINE 103	Lifetime Wellness	2
UE 100	University Experience	1
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ENG 102 *	College Composition II	3
Fine Art	ART 110, TH 110, MUS 110	3
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Fall Semester		
BIO 221 *	Human Anatomy & Physiology II	5
BIO 231 *	General and Medical Microbiology w/lab	5
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International	HS 305(see page 39 of catalog 2016)	3
PSY 100	General Psychology	3
PSC 120	US Government	3
	Total	12 hrs.
Fall Semester - BEGIN DH Curriculum		
DH 355	Dental Radiology I	2
DH 101 - 302	Fundamentals of Dental Hygiene	3
DH 103 - 303	Fundamentals of Dental Hygiene Lab	3
DH 140 - 330	Head and Neck Anatomy	2
DH 140 - 335	Oral Histology and Embryology	2
DH 220 - 324	Dental Materials	2
DH 225- 325	Dental Materials Lab	1
	Total	15 hrs.

	Spring Semester -	
DH 105- 305	Dental Hygiene Concepts Lab	3
DH 120 - 304	Dental Hygiene Concepts	2
DH 160 - 360	Dental Radiology II	2
DH 165 - 365	Dental Radiology Lab	1
DH 350	Periodontics	3
DH 310- DH 345	Disease Prevention Strategies	2
DH 315	Medical Emergencies	1
DH 370	Dental Hygiene Care for Special Needs Patients	1
	Total	15 hrs.
	Summer Semester	
DH 210 - 380	Pain Management	2
DH 190-385	Clinical Dental Hygiene I	4
	Total	6 hrs.
	Fall Semester Year	
DH 290- 430	Clinical Dental Hygiene II	5
DH 295- 435	Ethics and Jurisprudence	2
DH 300- 400	Community Dental Health Education	3
DH 320 - 420	Pharmacology	3
DH 340 - 440	General and Oral Pathology	3
	Total	16 hrs.
	Spring Semester Year	
DH 301 - 401	Community Dental Health Education Practicum	1
DH 390 - 490	Clinical Dental Hygiene III	5
DH 395 - 495	Practice Management	2
DH 450	Advanced Periodontics	2
	Total	10 hrs.
	*DH Prerequisites	
	** Additional Comments: During the summer semesters or Fall/Spring Semesters, students could take stats or courses toward biology minor, medical terminology could also be recommended.	
	TOTAL of BSDH Credit Hours 120	

Plan of Study Final September 2017 **REVISED 10-11-17, am & pm**

Bachelor of Science in Dental Hygiene

Mission, Goals and Objectives

MISSION

The mission of the Missouri Southern State University Dental Hygiene Program is to attract, educate and graduate men and women who are prepared intellectually, technically and ethically to meet the oral health care challenges of the 21st century. We are committed to excellence in dental hygiene education, practice, public health, management and research. Our purpose is to create an educational environment at the baccalaureate level that fosters the development of life-long learning, outstanding citizens and leaders, and oral health care professionals who can provide ethical, comprehensive care to diverse population groups collaboratively in a variety of settings. To achieve this mission, the School recognizes and supports efforts for personal and professional growth of the faculty and students.

The Dental Hygiene Program goals and objectives include:

1. The Dental Hygiene Program will prepare students for practice and licensure as a Registered Dental Hygienist.
 - a. Students will provide appropriate dental hygiene therapy for patients with different oral health needs utilizing assessment, planning, implementation, and evaluation skills.
 - b. Students will utilize case management skills, interpersonal communication skills, and practice management principles to provide quality dental hygiene care in a safe, efficient and humanistic manner.
 - c. Students will practice according to the ADHA Code of Ethics.
 - d. Students will adhere to state and federal laws and guidelines pertaining to the practice of dental hygiene.
2. Dental hygiene graduates will evaluate and apply current research to make evidence-based decisions in their dental hygiene practice.
 - a. Students will analyze research design.
 - b. Students will identify statistical tools used in research.
 - c. Students will be able to interpret and apply research to dental hygiene practice.
3. Dental hygiene graduates will provide community service and outreach and will value their responsibility to the community.
 - a. Students will demonstrate social responsibility by initiating and participating in the delivery of dental healthcare and education in the community.
 - b. Students will participate in a variety of interdisciplinary health care settings.
4. Dental hygiene graduates will appreciate the dynamic and evolving nature of the profession of dental hygiene.
 - a. Students will participate in personal professional growth and life-long learning.
 - b. Students will participate in professional associations.

COMPENCIES are separated

Competencies for Entry into the Profession of Dental Hygiene

Competencies	Course	Evaluation Method
<i>Core competencies</i>		
C.1 Apply a professional code of ethics in all endeavors.	302 Fundamentals of Dental Hygiene (Lec)	Quiz, midterm, final
	303 Fundamentals of Dental Hygiene Lab	Daily summative/formative grade
	304 Dental Hygiene Concepts	Quiz, midterm, final
	305 Dental Hygiene Concepts Lab	Daily summative/formative grade
	315 Medical Emergencies	Quiz, exam, case scenarios
	324 Dental Materials (Lec)	Quiz, case study
	325 Dental Materials Lab	Lab activity & competency
	330 Head and Neck Anatomy	Quiz, exam
	335 Oral Histology and Embryology	Quiz, assignment, exam
	345 Disease Prevention Strategies	Quiz, exam
	350 Periodontics	Quiz, exam
	355 Dental Radiology I	Quiz, exam, activity
	360 Dental Radiology II	Quiz, exam, activity
	365 Dental Radiology Lab	Daily summative/formative grade, process exam
	380 Pain Management	Activity, competency
	385 Clinical Dental Hygiene I	Daily summative/formative grade
	400 Community Dental Health Education	Activity
	401 Community Dental Health Education Practicum	Activity
	420 Pharmacology	Quiz, exam
	430 Clinical Dental Hygiene II	Daily summative/formative grade, case study
	435 Ethics and Jurisprudence	Quiz, poster presentation, assignment
	440 Oral Pathology	Quiz, exam
	450 Advanced Periodontics	Quiz, exam
	490 Clinical Dental Hygiene III	Daily summative/formative grade, case study
	495 Practice Management	Quiz, portfolio capstone, assignment
	C.2 Adhere to state and federal laws, recommendations, and regulations in the provision of oral health care.	302 Fundamentals of Dental Hygiene (Lec)
303 Fundamentals of Dental Hygiene Lab		Daily summative/formative grade
305 Dental Hygiene Concepts Lab		Daily summative/formative grade, competency
315 Medical Emergencies		Quiz, exam, case scenarios
325 Dental Materials Lab		Lab activity, competency
355 Dental Radiology I		Quiz, exam
360 Dental Radiology II		Quiz, exam
365 Dental Radiology Lab		Quiz, lab, process exam
370 Dental Hygiene Care for Special Needs Patients		Quiz, assignment activities
380 Pain Management		Quiz, activities, final
385 Clinical Dental Hygiene I		Daily summative/formative grade
401 Community Dental Health Education Practicum		Activities
420 Pharmacology		Quiz, exam, final
430 Clinical Dental Hygiene II		Daily summative/formative grade
435 Ethics and Jurisprudence		Quiz, assignment, activities
450 Advanced Periodontics		Quiz, exam
490 Clinical Dental Hygiene III	Daily summative/formative grade	
495 Practice Management	Quiz, assignment, activities	

C.3 Use critical thinking skills and comprehensive problem solving to identify oral health care strategies that promote health and wellness.	303 Fundamentals of Dental Hygiene Lab	Daily summative/formative grade
	304 Dental Hygiene Concepts	Quiz, exam, activity
	305 Dental Hygiene Concepts Lab	Daily summative/formative grade
	324 Dental Materials (Lec)	Quiz, case study
	345 Disease Prevention Strategies	Activities, exam, final
	350 Periodontics	Activities, exam, final
	355 Dental Radiology I	Activities, exam, case scenarios
	360 Dental Radiology II	Activities, exam
	365 Dental Radiology Lab	Activities, practicum
	370 Dental Hygiene Care for Special Needs Patients	Quiz, assignment activities
	385 Clinical Dental Hygiene I	Daily summative/formative grade
	400 Community Dental Health Education	Assignment activities
	401 Community Dental Health Education Practicum	Community rotations, presentations
	420 Pharmacology	Case study
	430 Clinical Dental Hygiene II	Daily summative/formative grade, case study
	435 Ethics and Jurisprudence	Assignment, Poster presentation
	440 General and Oral Pathology	Case study
	490 Clinical Dental Hygiene III	Daily summative/formative grade
	495 Practice Management	Case study assignment
C.4 Use evidence-based decision making to evaluate emerging technology and treatment modalities to integrate into patient dental hygiene care plans to achieve high-quality, cost-effective care.		
	304 Dental Hygiene Concepts	Assignments, activities, exam
	315 Medical Emergencies	Activities
	324 Dental Materials (Lec)	Quiz, case study
	345 Disease Prevention Strategies	Quiz, activities
	350 Periodontics	Exam, final
	370 Dental Hygiene Care for Special Needs Patients	Quiz, assignment activities
	380 Pain Management	Clinical competency
	385 Clinical Dental Hygiene I	Daily summative/formative grade
	401 Community Dental Health Education Practicum	Activity debate
	430 Clinical Dental Hygiene II	Daily summative/formative grade
	435 Ethics and Jurisprudence	Assignment
	400 Community Dental Health Education	Assignment activities
	450 Advanced Periodontics	Quiz, activities
490 Clinical Dental Hygiene III	Daily summative/formative grade	
495 Practice Management	Quiz	
C.5 Assume responsibility for professional actions and care based on accepted scientific theories, research, and the accepted standard of care.	302 Fundamentals of Dental Hygiene (Lec)	Assignment
	303 Fundamentals of Dental Hygiene Lab	Daily summative/formative grade
	304 Dental Hygiene Concepts	Assignment
	305 Dental Hygiene Concepts Lab	Daily summative/formative grade
	315 Medical Emergencies	Case scenarios
	324 Dental Materials (Lec)	Case study
	325 Dental Materials Lab	Self-reflection
	365 Dental Radiology Lab)	Daily summative/formative grade, journaling, practicum
	385 Clinical Dental Hygiene I	Daily summative/formative grade
	401 Community Dental Health Education Practicum	Activities
	430 Clinical Dental Hygiene II	Daily summative/formative grade
	435 Ethics and Jurisprudence	Assignment, Poster presentation
	490 Clinical Dental Hygiene III	Daily summative/formative grade
495 Practice Management	Quiz, case study assignment	
C.6 Continuously performs self-assessment for lifelong		
	303 Fundamentals of Dental Hygiene Lab	Self-reflections
	305 Dental Hygiene Concepts Lab	Self-reflections

learning and professional growth.	325 Dental Materials Lab	Journaling
	365 Dental Radiology (lab)	Journaling, practicum, reflection assignment
	385 Clinical Dental Hygiene I	Self-reflection assignment
	400 Community Dental Health Education	Activity
	430 Clinical Dental Hygiene II	Self-reflection assignment
	435 Ethics and Jurisprudence	Self-reflection assignment
	490 Clinical Dental Hygiene III	Reflection assignment
	495 Practice Management	Portfolio capstone project
C.7 Integrate accepted scientific theories and research into education, preventive, and therapeutic oral health services.		
	304 Dental Hygiene Concepts	Quiz, exam, activity
	324 Dental Materials (Lec)	Assignment, case study
	325 Dental Materials Lab	Activities
	345 Disease Prevention Strategies	Quiz, exam, activity
	350 Periodontics	Activities, exam, final
	370 Dental Hygiene Care for Special Needs Patients	Quiz, assignment activities
	385 Clinical Dental Hygiene I	Daily summative/formative grade
	390 Pain Management	Exam
	420 Pharmacology	Case study
	430 Clinical Dental Hygiene II	Daily summative/formative grade, case study
	435 Ethics and Jurisprudence	Poster presentation
	400 Community Dental Health Education	Assignment activities
	440 General and Oral Pathology	Case studies, exams
	450 Advanced Periodontics	Quizzes, exams, activity
490 Clinical Dental Hygiene III	Daily summative/formative grade, case study	
C.8 Promote the values of the dental hygiene profession through service-based activities, positive community affiliations, and active involvement in local organizations.	302 Fundamentals of Dental Hygiene (Lec)	Assignment, quiz
	401 Community Dental Health Education Practicum	Community services activities
	420 Pharmacology	
	430 Clinical Dental Hygiene II	Outside rotations, self-reflection assignment
	435 Ethics and Jurisprudence	Poster presentation
	490 Clinical Dental Hygiene III	Outside rotations, self-reflection assignment
	495 Practice Management	Quiz
C.9 Apply quality assurance mechanisms to ensure continuous commitment to accepted standards of care.	302 Fundamentals of Dental Hygiene (Lec)	Assignment, quiz
	303 Fundamentals of Dental Hygiene Lab	Daily summative/formative grade, competencies
	305 Dental Hygiene Concepts Lab	Daily summative/formative grade, competencies
	315 Medical Emergencies	Case scenarios
	325 Dental Materials Lab	Activities
	355 Dental Radiology I	Activity, exam
	360 Dental Radiology II	Assignment, activities
	365 Dental Radiology Lab	Daily summative/formative grade, practicum
	385 Clinical Dental Hygiene I	Daily summative/formative grade, competencies
	430 Clinical Dental Hygiene II	Daily summative/formative grade, competencies
	490 Clinical Dental Hygiene III	Daily summative/formative grade, competencies
	495 Practice Management	Quiz
C.10 Communicate effectively with diverse individuals and groups, serving all persons without	304 Dental Hygiene Concepts	Quiz, activities
	305 Dental Hygiene Concepts Lab	Daily summative/formative grade
	345 Disease Prevention Strategies	Activity, exam
	355 Dental Radiology I	Activity, exam

discrimination by acknowledging and appreciating diversity.	360 Dental Radiology II	Assignment, activities
	365 Dental Radiology Lab	Assignment, activities
	370 Dental Hygiene Care for Special Needs Patients	Quiz, assignment activities
	385 Clinical Dental Hygiene I	Daily summative/formative grade
	401 Community Dental Health Education Practicum	Outside rotations
	430 Clinical Dental Hygiene II	Daily summative/formative grade
	490 Clinical Dental Hygiene III	Daily summative/formative grade
C.11 Record accurate, consistent, and complete documentation of oral health services provided.	302 Fundamentals of Dental Hygiene (Lec)	Quiz, activity
	303 Fundamentals of Dental Hygiene Lab	Daily summative/formative grade
	304 Dental Hygiene Concepts	Activity
	305 Dental Hygiene Concepts Lab	Daily summative/formative grade
	315 Medical Emergencies	Activity
	325 Dental Materials Lab	Activity
	330 Head and Neck Anatomy	Activity, quiz
	345 Disease Prevention Strategies	Activity, quiz
	350 Periodontics	Activity, exams, final
	365 Dental Radiology Lab	Daily summative/formative grade
	380 Pain Management	Daily summative/formative grade
	385 Clinical Dental Hygiene I	Daily summative/formative grade
	430 Clinical Dental Hygiene II	Daily summative/formative grade
	440 General and Oral Pathology	Activity, exams, final
	490 Clinical Dental Hygiene III	Daily summative/formative grade
495 Practice Management	Quiz, case study	
C.12 Initiate a collaborative approach with all patients when developing individualized care plans that are specialized, comprehensive, culturally sensitive, and acceptable to all parties involved in care planning.		
	303 Fundamentals of Dental Hygiene Lab	Daily summative/formative grade
	305 Dental Hygiene Concepts Lab	Daily summative/formative grade
	345 Disease Prevention Strategies	Assignment
	365 Dental Radiology Lab	Practicum, Daily summative/formative grade
	385 Clinical Dental Hygiene I	Daily summative/formative grade
	490 Clinical Dental Hygiene III	Daily summative/formative grade
C.13 Initiate consultations and collaborations with all relevant health care providers to facilitate optimal treatments.		
	303 Fundamentals of Dental Hygiene Lab	Daily summative/formative grade
	305 Dental Hygiene Concepts Lab	Daily summative/formative grade
	365 Dental Radiology Lab	Daily summative/formative grade
	380 Pain Management	Quiz, exam
	385 Clinical Dental Hygiene I	Daily summative/formative grade
	401 Community Dental Health Education Practicum	Outside rotations, self-reflections, activities
	490 Clinical Dental Hygiene III	Daily summative/formative grade
C.14 Manage medical emergencies by using professional judgment, providing life support, and utilizing required CPR and any specialized training or knowledge.		
	303 Fundamentals of Dental Hygiene Lab	Daily summative/formative grade
	305 Dental Hygiene Concepts Lab	Daily summative/formative grade
	315 Medical Emergencies	Case scenarios, quiz, exam
	420 Pharmacology	Quiz, exam
	365 Dental Radiology Lab	Daily summative/formative grade
	380 Pain Management	Activity, exam
	385 Clinical Dental Hygiene I	Daily summative/formative grade
	401 Community Dental Health Education Practicum	Outside rotations
	490 Clinical Dental Hygiene III	Daily summative/formative grade
<i>Health Promotion and Disease Prevention</i>		
HP.1 Promote positive values of overall health and wellness to the public and	370 Dental Hygiene Care for Special Needs Patients	Quiz, assignment activities
	400 Community Dental Health Education	Assignment

organizations within and outside the profession.	401 Community Dental Health Education Practicum	Com Serv. Activities, self-reflections
	430 Clinical Dental Hygiene II	Self-reflections
	490 Clinical Dental Hygiene III	Self-reflections
HP.2 Respect the goals, values, beliefs, and preferences of all patients.	304 Dental Hygiene Concepts	Assignment
	305 Dental Hygiene Concepts Lab	Daily summative/formative grade
	345 Disease Prevention Strategies	Activities, exams
	350 Periodontics	Assignments, exams
	360 Dental Radiology II	Assignment, exam
	365 Dental Radiology Lab	Daily summative/formative grade
	370 Dental Hygiene Care for Special Needs Patients	Quiz, assignment activities
	385 Clinical Dental Hygiene I	Daily summative/formative grade
	400 Community Dental Health Education	Lesson plan activity, exams
	401 Community Dental Health Education Practicum	Activities, self-reflections
	430 Clinical Dental Hygiene II	Daily summative/formative grade
	435 Ethics and Jurisprudence	Quiz, assignment, case study
	490 Clinical Dental Hygiene III	Daily summative/formative grade
	495 Practice Management	Assignment, case study
HP.3 Refer patients who may have physiological, psychological, or social problems for comprehensive evaluation.	304 Dental Hygiene Concepts	Quiz
	305 Dental Hygiene Concepts Lab	Daily summative/formative grade, self-reflection
	345 Disease Prevention Strategies	Quiz, exam
	385 Clinical Dental Hygiene I	Daily summative/formative grade
	420 Pharmacology	Quiz, exam
	430 Clinical Dental Hygiene II	Daily summative/formative grade, competency
	440 General and Oral Pathology	Quiz, assignment, exam
490 Clinical Dental Hygiene III	Daily summative/formative grade, competency	
HP.4 Identify individual and population risk factors, and develop strategies that promote health-related quality of life.	302 Fundamentals of Dental Hygiene (Lec)	Assignment, quiz, exam
	303 Fundamentals of Dental Hygiene Lab	Activities
	304 Dental Hygiene Concepts	Quiz, exam
	305 Dental Hygiene Concepts Lab	Daily summative/formative grade
	315 Medical Emergencies	Quiz, exam, case scenarios
	345 Disease Prevention Strategies	Assignment, quiz, exam
	370 Dental Hygiene Care for Special Needs Patients	Quiz, assignment activities
	350 Periodontics	Assignment, exam
	380 Pain Management	Quiz, exam
	385 Clinical Dental Hygiene I	Daily summative/formative grade
	400 Community Dental Health Education	Quiz, exam
	401 Community Dental Health Education Practicum	Activities, self-reflections
	420 Pharmacology	Quiz, exam, case study
	430 Clinical Dental Hygiene II	Daily summative/formative grade, case study
440 General and Oral Pathology	Assignment, exam	
490 Clinical Dental Hygiene III	Daily summative/formative grade, case study	
HP.5 Evaluate factors that can be used to promote patient adherence to disease prevention or health maintenance strategies.	304 Dental Hygiene Concepts	Quiz, exam, activity
	305 Dental Hygiene Concepts Lab	Daily summative/formative grade
	345 Disease Prevention Strategies	Quiz, exam
	350 Periodontics	Assignment, exam
	370 Dental Hygiene Care for Special Needs Patients	Quiz, assignment activities
	385 Clinical Dental Hygiene I	Daily summative/formative grade
	400 Community Dental Health Education	Activities, quiz

	401 Community Dental Health Education Practicum	Lesson plan, self-reflection
	430 Clinical Dental Hygiene II	Daily summative/formative grade, case study
	490 Clinical Dental Hygiene III	Daily summative/formative grade, case study
HP.6 Utilize methods that ensure the health and safety of the patient and the oral health professional in the delivery of care.		
	303 Fundamentals of Dental Hygiene Lab	Daily summative/formative grade
	305 Dental Hygiene Concepts Lab	Daily summative/formative grade
	315 Medical Emergencies	Case scenarios, quiz
	325 Dental Materials Lab	Activities, self-reflection
	365 Dental Radiology Lab)	Daily summative/formative grade, lab grade
	385 Clinical Dental Hygiene I	Daily summative/formative grade
	401 Community Dental Health Education Practicum	Activities, self-reflections
	430 Clinical Dental Hygiene II	Daily summative/formative grade
	490 Clinical Dental Hygiene III	Daily summative/formative grade
	495 Practice Management	Assignment, case study
<i>Community Involvement</i>		
CM.1 Assess the oral health needs and services of the community to determine action plans and availability of resources to meet the health care needs.		
	400 Community Dental Health Education	Assessment assignment
	401 Community Dental Health Education Practicum	Lesson plan, presentation
CM.2 Provide screening, referral, and educational services that allow patients to access the resources of the health care system.	304 Dental Hygiene Concepts	Process of care assignment
	400 Community Dental Health Education	Service activity
	401 Community Dental Health Education Practicum	Community services activity
	430 Clinical Dental Hygiene II	Daily summative/formative grade
	490 Clinical Dental Hygiene III	Daily summative/formative grade
CM.3 Provide community oral health services in a variety of settings.		
	400 Community Dental Health Education	Self-reflection, activity
	401 Community Health Practicum	Community service activity
	430 Clinical Dental Hygiene II	Outside rotations, self-reflection
	490 Clinical Dental Hygiene III	Outside rotations, self-reflection
CM.4 Facilitate patient access to oral health services by influencing individuals or organizations for the provision of oral health care.		
	400 Community Dental Health Education	Activity
	401 Community Dental Health Education Practicum	Community service activity
CM.5 Evaluate reimbursement mechanisms and their impact on the patient's access to oral health care.		
	400 Community Dental Health Education	Quiz, final
	495 Practice Management	Quiz
CM.6 Evaluate the outcomes of community-based programs, and plan for future activities.		
	400 Community Dental Health Education	Assignment
	401 Community Dental Health Education Practicum	Activity
CM.7 Advocate for effective oral health care for underserved populations.		
	400 Community Dental Health Education	Activity, assignment
	401 Community Dental Health Education Practicum	Practicum activity
	420 Pharmacology	
	430 Clinical Dental Hygiene II	Outside rotations, self-reflection
	435 Ethics and Jurisprudence	Online activity
	490 Clinical Dental Hygiene III	Outside rotations, self-reflection
<i>Patient Care (PC) – Assessment</i>		

PC.1 Systematically collect, analyze, and record diagnostic data on the general, oral, and psychosocial health status of a variety of patients using methods consistent with medicolegal principles	302 Fundamentals of Dental Hygiene (Lec)	Assignment, quiz
	303 Fundamentals of Dental Hygiene Lab	Daily summative/formative grade
	305 Dental Hygiene Concepts Lab	Daily summative/formative grade
	325 Dental Materials Lab	Daily summative/formative grade
	345 Disease Prevention Strategies	Assignments, quiz, exam
	350 Periodontics	Assignments, exam
	360 Dental Radiology II	Assignment, quiz
	365 Dental Radiology Lab	Daily summative/formative grade
	380 Pain Management	Assignment, quiz, exam
	385 Clinical Dental Hygiene I	Daily summative/formative grade
	420 Pharmacology	Case study
	430 Clinical Dental Hygiene II	Daily summative/formative grade
	440 General and Oral Pathology	Case study, exam
	490 Clinical Dental Hygiene III	Daily summative/formative grade
	495 Practice Management	Assignment, quiz
PC.2 Recognize predisposing and etiologic risk factors that require intervention to prevent disease.	302 Fundamentals of Dental Hygiene (Lec)	Quiz, exams, discussion
	303 Fundamentals of Dental Hygiene Lab	Activities, Daily summative/formative grade
	304 Dental Hygiene Concepts	Activity, quiz, exam
	305 Dental Hygiene Concepts Lab	Daily summative/formative grade
	315 Medical Emergencies	Quiz, exam, case scenarios
	345 Disease Prevention Strategies	Assignment, quiz, exam
	350 Periodontics	Quiz, exam
	355 Dental Radiology I	Assignment, exam
	360 Dental Radiology II	Assignment, exam
	365 Dental Radiology Lab	Daily summative/formative grade, grade sheet
	380 Pain Management	Quiz, exam
	385 Clinical Dental Hygiene I	Daily summative/formative grade
	400 Community Dental Health Education	Quiz, exam
	420 Pharmacology	Quiz, exam
	430 Clinical Dental Hygiene II	Daily summative/formative grade
440 General and Oral Pathology	Case study, exam	
450 Advanced Periodontics	Assignment, quiz, exam	
490 Clinical Dental Hygiene III	Daily summative/formative grade	
PC.3 Recognize the relationships among systemic disease, medications, and oral health that impact overall patient care and treatment outcomes.	304 Dental Hygiene Concepts	Activity
	305 Dental Hygiene Concepts Lab	Daily summative/formative grade
	315 Medical Emergencies	Quiz, exam
	345 Disease Prevention Strategies	Quiz, exam
	350 Periodontics	Activity, exam
	380 Pain Management	Exam
	385 Clinical Dental Hygiene I	Daily summative/formative grade
	420 Pharmacology	Quiz, exam, case study
	430 Clinical Dental Hygiene II	Daily summative/formative grade
	440 General and Oral Pathology	Case study, exam
PC.4 Identify patients at risk for a medical emergency, and manage the patient care in a manner that prevents an emergency.		
	305 Dental Hygiene Concepts Lab	Daily summative/formative grade
	315 Medical Emergencies	Exam, case scenarios
	365 Dental Radiology Lab	Daily summative/formative grade
	380 Pain Management	Exam, discussion
	385 Clinical Dental Hygiene I	Daily summative/formative grade
	420 Pharmacology	Quiz, exam
	430 Clinical Dental Hygiene II	Daily summative/formative grade
490 Clinical Dental Hygiene III	Daily summative/formative grade	
<i>Patient Care (PC) – Dental Hygiene Diagnosis</i>		
PC.5 Use patient assessment data, diagnostic technologies, and critical decision making skills to determine a dental hygiene diagnosis, a	304 Dental Hygiene Concepts	Activity, quiz
	305 Dental Hygiene Concepts Lab	Daily summative/formative grade
	350 Periodontics	Activity, exam
	360 Dental Radiology II	Activity
	365 Dental Radiology Lab	Daily summative/formative grade

component of the dental diagnosis, to reach conclusions about the patient's dental hygiene care needs.	385 Clinical Dental Hygiene I	Daily summative/formative grade
	430 Clinical Dental Hygiene II	Daily summative/formative grade, case study
	440 General and Oral Pathology	Case study, exam
	490 Clinical Dental Hygiene III	Daily summative/formative grade, case study
<i>Patient Care (PC) – Planning</i>		
PC.6 Utilize reflective judgment in developing a comprehensive patient dental hygiene care plan.	304 Dental Hygiene Concepts	Quiz, activity
	305 Dental Hygiene Concepts Lab	Daily summative/formative grade
	345 Disease Prevention Strategies	Quiz, activity
	350 Periodontics	Activity, exam
	365 Dental Radiology Lab	Assignment, activities
	385 Clinical Dental Hygiene I	Daily summative/formative grade
	430 Clinical Dental Hygiene II	Daily summative/formative grade, case study
	490 Clinical Dental Hygiene III	Daily summative/formative grade, case study
PC.7 Collaborate with the patient and other health professionals as indicated to formulate a comprehensive dental hygiene care plan that is patient-centered and based on the best scientific evidence and professional judgment.	304 Dental Hygiene Concepts	Quiz, activity
	305 Dental Hygiene Concepts Lab	Daily summative/formative grade
	345 Disease Prevention Strategies	Activity
	385 Clinical Dental Hygiene I	Daily summative/formative grade
	430 Clinical Dental Hygiene II	Daily summative/formative grade, case study
	490 Clinical Dental Hygiene III	Daily summative/formative grade, case study
	495 Practice Management	Quiz, assignment, case study
PC.8 Make referrals to professional colleagues and other health care professionals as indicated in the patient care plan.		
	305 Dental Hygiene Concepts Lab	Daily summative/formative grade
	385 Clinical Dental Hygiene I	Daily summative/formative grade
	430 Clinical Dental Hygiene II	Daily summative/formative grade
	490 Clinical Dental Hygiene III	Daily summative/formative grade
PC.9 Obtain the patient's informed consent based on a thorough case presentation.		
	430 Clinical Dental Hygiene II	Daily summative/formative grade, case study
	490 Clinical Dental Hygiene III	Daily summative/formative grade, case study
<i>Patient Care (PC) - Implementation</i>		
PC.10 Provide specialized treatment that includes educational, preventive, and therapeutic services designed to achieve and maintain oral health. Partner with the patient in achieving oral health goals.	304 Dental Hygiene Concepts	Activity, quiz
	305 Dental Hygiene Concepts Lab	Competency, Daily summative/formative grade
	345 Disease Prevention Strategies	Assignment
	380 Pain Management	Activity
	385 Clinical Dental Hygiene I	Daily summative/formative grade
	430 Clinical Dental Hygiene II	Daily summative/formative grade, case study
	490 Clinical Dental Hygiene III	Daily summative/formative grade
<i>Patient Care (PC) - Evaluation</i>		
PC.11 Evaluate the effectiveness of the provided services, and modify care plans as needed.		
	345 Disease Prevention Strategies	Assignment
	350 Periodontics	Assignment, exam
	385 Clinical Dental Hygiene I	Daily summative/formative grade
	430 Clinical Dental Hygiene II	Daily summative/formative grade, case study
	490 Clinical Dental Hygiene III	Daily summative/formative grade, case study
PC.12 Determine the outcomes of dental hygiene interventions using indices, instruments, examination	304 Dental Hygiene Concepts	Activity
	305 Dental Hygiene Concepts Lab	Daily summative/formative grade
	345 Disease Prevention Strategies	Assignment, quiz
	385 Clinical Dental Hygiene I	Daily summative/formative grade

techniques, and patient self-reports as specified in patient goals.	430 Clinical Dental Hygiene II	Daily summative/formative grade, case study
	490 Clinical Dental Hygiene III	Daily summative/formative grade, case study
PC.13 Compare actual outcomes to expected outcomes, reevaluating goals, diagnoses, and services when expected outcomes are not achieved.	345 Disease Prevention Strategies	Assignment
	385 Clinical Dental Hygiene I	Daily summative/formative grade
	430 Clinical Dental Hygiene II	Daily summative/formative grade, case study
	490 Clinical Dental Hygiene III	Daily summative/formative grade, case study
<i>Professional Growth and Development (PGD)</i>		
PGD.1 Pursue career opportunities within health care, industry, education, research, and other roles as they evolve for the dental hygienist.	302 Fundamentals of Dental Hygiene (Lec)	Assignment
	435 Ethics and Jurisprudence	Assignment, activity, quiz
	450 Advanced Periodontics	Assignment, exam
	495 Practice Management	Portfolio capstone, activity, quiz
PGD.2 Develop practice management and marketing strategies to be used in the delivery of oral health care.	400 Community Dental Health Education	Assignment
	435 Ethics and Jurisprudence	Assignment, activity, quiz
	495 Practice Management	Portfolio capstone, activity, quiz
PGD.3 Access professional and social networks to pursue professional goals.	400 Community Dental Health Education	Assignment-MDHA
	435 Ethics and Jurisprudence	Assignment-Lobby Day, activity, quiz
	495 Practice Management	Portfolio capstone, activity, quiz

BSDH Course Catalog Descriptions

DH 302 Fundamentals of Dental Hygiene

Fundamentals of Dental Hygiene is an introduction to the Dental Hygiene Process of Care with an emphasis on professionalism, infection control, patient assessment processes, and basic instrumentation skills. Three lecture hours per week. Prerequisite: Acceptance into the dental hygiene program. Co-requisite DH 303.

DH 303 Fundamentals of Dental Hygiene Lab

Within the Fundamentals of Dental Hygiene Laboratory, students will practice the delivery of the Dental Hygiene Process of Care. The primary emphasis is on professionalism, infection control, patient assessment processes, disease prevention, and basic instrumentation skills. The dental hygiene student will have an opportunity to develop skills through practice on manikins and student partners in the laboratory-clinical setting. Two, three-hour labs per week. Prerequisite: Acceptance into the dental hygiene program. Co-requisite: DH 302.

DH 304 Dental Hygiene Concepts

Dental Hygiene Concepts is a continuation of DH 301, a continuation of basic concepts, principles, and procedures of preventive and therapeutic oral health services used in the dental hygiene process of care. Two one-hour lectures per week. Prerequisite: DH 302. Co-requisite: DH 305.

DH 305 Dental Hygiene Concepts Lab

Dental Hygiene Concepts Lab is the laboratory component of DH 310. Students will perform clinical application of instrumentation theory and skills while learning to provide comprehensive patient care. This course will culminate with a student/patient experience. Two 3-hour labs per week. Prerequisite: DH: 302 and DH 303. Co-requisite: DH 304.

DH 315 Medical Emergencies

Medical Emergencies includes instruction in the recognition, prevention, and management of medical emergencies common in the dental office. One lecture hour per week. Prerequisite: DH 302.

DH 324 Dental Materials

Dental Materials is the study of the physical and chemical properties of biomaterials, as well as the application and manipulation of these materials as related to preventive dentistry. Lecture information covers identification, recognition, and charting of dental restorations. Two lecture hours per week. Prerequisite: Acceptance into the dental hygiene program. Co-requisite: DH 325 Dental Materials Lab.

DH 325 Dental Materials Lab

Dental Materials Lab is the laboratory component of DH 324 where the student will practice pre-clinical manipulation of a variety of dental materials. Students will learn to identify and chart dental restorations, take alginate impressions, produce plaster study models, and manipulate other biomaterials within the scope of preventative and restorative dentistry. Prerequisite: Acceptance into the dental hygiene program. Co-requisite: DH 324 Dental Materials lecture.

DH 330 Head and Neck Anatomy

Head and Neck Anatomy is the comprehensive study of characteristics of normal and abnormal dental, head and neck anatomy, and its relationship to tooth development, eruption, and health. This course prepares students to apply detailed knowledge regarding oral anatomy to planning, implementation, assessment, and evaluation of patient care. Two hours lecture per week. Prerequisite: Acceptance into the dental hygiene program.

DH 335 Oral Histology and Embryology

Oral Histology and Embryology is designed as a study of the gross and microscopic development of the teeth, supportive structures of the teeth, and embryology and anatomy of the head and neck region. One one-hour lecture and one two-hour lab per week. Prerequisite: Acceptance into the dental hygiene program.

DH 345 Disease Prevention Strategies

Disease Prevention Strategies includes current theories and concepts of disease prevention, health promotion, communication, and behavior modification for the dental hygienist to apply when providing total patient care. Two-hours lecture per week. Prerequisite: DH 302. Clinical applications for this course will be implemented in DH 385, DH 430, and DH 490.

DH 350 Periodontics

Periodontics is the specialty of dentistry that encompasses the biological and clinical aspects of diseases affecting the supporting structures of the teeth. The role of the dental hygienist as a periodontal co-therapist in the prevention, diagnosis, and treatment of periodontitis is emphasized. Three hours of lecture per week. Prerequisite: DH 302.

DH 355 Dental Radiology I

Dental Radiology I is the introduction to the theory and principles of radiation physics; the biological effects of radiation; and the health and safety procedures for the clinician and the patient. Two hours lecture per week. Prerequisite: Acceptance into the dental hygiene program.

DH 360 Dental Radiology II

Dental Radiology II is the continued study of the principles of radiation health and safety, with focus on selection of appropriate radiographic surveys; best practices in application of radiographic techniques; infection control; and principles of interpretation. Two hours of lecture per week. Prerequisite: DH 355. Co-requisite course: DH 365.

DH 365 Dental Radiology Lab

Dental Radiology Lab is the practical component of DH 360. Application of the principles of radiology in the study of the teeth and their surrounding structures is emphasized as students practice the art and science of recording images of the deep structures of the body utilizing manikins and student/patients. Two hours of lab per week. Prerequisite: DH 355. Co-requisite: DH 360.

DH 370 Dental Hygiene Care for Special Needs Patients

Dental Hygiene Care for Special Needs Patients is the study of the psychosocial, physical, and oral issues of patients with diverse and special needs. Emphasis is on the successful dental hygiene care, clinical management, and treatment outcomes for pediatric and geriatric patients, medically compromised patients, and patients with disabilities. One-hour lecture per week. Prerequisite: DH 302.

DH 380 Pain Management

Pain Management is designed to prepare the dental hygiene student with the theory necessary to appropriately develop and carry out treatment plans for the management and control of pain, as well as to successfully administer local anesthesia and nitrous oxide/oxygen analgesia when providing dental hygiene services. Two hours of lecture per week. Prerequisite: DH 304 and DH 305. Co-requisite: DH 385.

DH 385 Clinical Dental Hygiene I

Clinical Dental Hygiene I is the introduction to the clinical practice of dental hygiene in a controlled environment. Prerequisites: DH 303, DH 305, and CPR certification. Co-requisite: DH 380. Twelve to 16 hours of clinical labs per week with thirty-two hours of lab used for clinical application of DH 380. Prerequisite: DH 305

DH 400 Community Dental Health Education

Community Dental Health Education prepares students to promote oral health and prevent oral disease in a community. The course also exposes students to the community-based role of the dental hygienist by allowing them to manage access to care issues within underserved populations. Three hours lecture per week with approximately 25-30 hours of field work during the semester. Prerequisite: DH 370.

DH 401 Community Dental Hygiene Education Practicum

In the Community Dental Hygiene Education Practicum, students have the opportunity to participate in a variety of community dental health education programs and service learning activities where they will apply learned theories and skills of communication while providing dental health education. One hour of lecture per week and approximately 25-30 hours of field work during the semester. Prerequisite: DH 400.

DH 420 Pharmacology

Pharmacology is a fundamental biomedical science course designed to present foundational principles of drug actions and characteristics of major drug groups, with special emphasis on drugs affecting oral health and drugs used in dentistry. Topics include; sources of drugs, methods of drug administration, drug classification, dosage, therapeutic action of common medications, common side effects, and drug interactions. Three hours lecture per week. Prerequisites: DH 302 and DH 304.

DH 430 Clinical Dental Hygiene II

Clinical Dental Hygiene II is the continuation of DH 385 in which students experience development of skills necessary for clinical practice of dental hygiene in a controlled environment. Diverse population experiences are enriched through a variety of rotations. Twelve to 16-hours clinical labs per week. Prerequisite: DH 385. Co-requisite: DH 435.

DH 435 Survey of Dental Hygiene

Ethics and Jurisprudence includes the study of the laws governing the practice of dentistry and dental hygiene, the ethical principles which guide professionalism, and continued development of an understanding between research and theory development. Two lecture hours per week. Prerequisite: DH 302.

DH 440 General and Oral Pathology

General pathology includes an overview and review of basic disease processes, inflammation, immunology, and wound healing. Oral pathology emphasizes recognition of oral diseases based on clinical signs and symptoms, and radiographic manifestations. Three hours of lecture per week. Prerequisite: DH 335.

DH 450 Advanced Periodontics

Advanced Periodontics is a continuation of DH 350 Periodontics. Lecture information includes the acquisition of knowledge and skills necessary for the continual development of clinical skills required to provide the full scope of care permitted by state practice acts as well as evidence-based periodontal therapies. Two hours of lecture per week. Prerequisite: DH 350.

DH 490 Clinical Dental Hygiene III

Clinical Dental Hygiene III is a continuation of DH 430, Clinical Dental Hygiene II. Students will gain clinical experience in advanced clinical procedures in preparation for transitioning to private dental hygiene practice. Sixteen-hours of clinical labs per week. Prerequisite: DH 430. Co-requisite: DH 495.

DH 495 Practice Management

Practice management explores career planning, legal practice, practice management, and the roles and responsibilities of the dental hygienist as a member of an oral health care delivery team. Two hours of lecture per week. Prerequisite: DH 435.

Dental Hygiene Program Outcomes Assessment Plan Matrix

Program Goals >	Time of Year Conducted	Time of Year Presented	Goal # 1. Education reflecting best practices	Goal # 2. Preparation for community service	Goal # 3. life-long learning	Benchmark	Actual
Measurement Tool Number and Title							
Grades	Year round	Year round	*	*	CEU ; research	90%	90%
Research papers/case studies	Year round	Year round	*	*	*	6 courses	6
Patient Survey	March	April	*	*		95 % positive	98.7% pos
Employer rating surveys	Oct.by 5 yrs	Dec of Same yr.	*	*	*	95% compliance	< 10%
Pre/post Risk Assessment	Aug/Oct/Jan	Aug/Dec/Apr	*	*	*	60/95/93%	92%
Pre/post Infection control	Aug/Oct/Jan	Dec/Apr	*	*	*	60/95/93%	94%
Quality Assurance Fall, Spring, summer	March, Sept,	November		*		Pass	Pass
Quality A Record review	October	November		*		98% accuracy	93%
Quality A. External Audit	October	November		*		98% accuracy	95%
Instructor Evals by Students	Midterms	November		*	*	95% positive	87%*
Instructor Evals by Chair	Oct. & November	April/May	*	*	*	95% positive	97%
Student survey of Clinic I	July	July	*	*	*	95% good-exc.	80%*
Student survey of Clinic II	December	December	*	*	*	95% good-exc.	88%*
Student survey of Clinic III	April	April	*	*		95% good-exc.	98%
Extramural rotation survey	Dec/April	Dec/Apr	*	*		90% positive	91%
Preclinic midterm	October	October	*	*		90% pass	89%
Preclinic final	April	April	*	*		100%	95%*
Individual Competencies	All Fall/Spring	Dec/Apr	*	*	*	100%	98%
Pre/Post Med. Emergencies	January	Jan/Apr/July	*	*	*	60/95/90	73%
Pre/post Medical Errors	January	January		*	*	60/95/90	95%
Student Clinic Self-evaluation	March	March		*		Self-Pass	Self-Pass
Midterm Interpretation	October/Mar	Oct/March	*	*	*	100%	89%
Final Interpretation	Dec/April	Dec/Apr	*	*	*	100%	90%
Case Based	November	November	*	*	*	75% raw	83%
DHNBE	March or April	May	*	*	*	100% pass	97%
Graduate Exit Survey	April	April	*	*	*	100% positive	98%
State Board Examination	May	July		*		Self-pass	Self-pass

Dental Hygiene Program Outcomes Assessment Plan Matrix

Annual Outcomes Assessment Faculty Meetings

August:

Week before classes begin

Presentations on:

1. State/National Board Examination
2. Graduation Evaluations of Clinical Experience
3. Employer Survey
4. Student Clinical Self-Evaluation Survey*

Changes on focus of instruction for Fall DH 290 Clinical Dental Hygiene II

1. Determine areas of strengths and weakness from results of surveys and evaluations
2. Recommend instructional methods for improving students' clinical performance.
3. Make changes to evaluation system for syllabi and clinic evaluation forms
4. Record findings for review at end of the year Outcomes Assessment Workshop

September:

1. Random selection of patient records for evaluation by faculty answering Quality Assurance Record Review
2. Presentation on student performance on Pretest and Post test of Risk Assessment and Infection Control Seminars*

October: Midterm

Presentations on:

1. Dental Hygiene Process of Care - Midterm grades*
2. Overall results of Instructor Evaluations (completed by students)*
3. Patient Survey of Care in MSSU Dental Hygiene Clinic*

Meetings:

1. Random selection of patient records for evaluation by faculty answering Quality Assurance Record Review
- 2.

Changes on focus of Instruction for remainder of Fall Clinic II DH 290

1. Determine areas of strengths and weakness from results of DPTE*
2. Recommend instructional methods for improving students' clinical performance.
3. Make changes to evaluation system for the remainder of the semester
4. Record findings for review at end of the year Outcomes Assessment Workshop
5. Determination of students in need of remediation

Dental Hygiene Program Outcomes Assessment Plan Matrix

<u>November:</u>	Meetings	<ol style="list-style-type: none">1. Results of surveys discussed by faculty3. Record findings for review at end of the year Outcomes Assessment Workshop4. Presentation on student performance on Post tests of Risk Assessment and Infection Control Seminars*
<u>December:</u>	Finals week Presentations on:	<ol style="list-style-type: none">1. Dental Hygiene Process of Care Evaluation Grid - Final Grades*2. Preclinic Final Grades from Instrumentation Competencies*3. Presentation of student grades from all dental hygiene courses*4. Record findings for review at end of the year Outcomes Assessment Workshop
January:	First week of classes:	<ol style="list-style-type: none">1. Presentation on comparison of results of student performance on pretest/post test risk/assessment *2. Student Evaluations of Clinical Experience*
March:	Midterm Presentations on:	<ol style="list-style-type: none">1. Dental Hygiene Process of Care Evaluation Grid - Midterm grades*2. Overall results of Instructor Evaluations (completed by students)*3. Determine students in need of remediation3. Record findings for review at end of the year Outcomes Assessment Workshop
April:	Second Week Presentations on	<ol style="list-style-type: none">2. External Audit of Quality Assurance and Standard of Care based on results for Quality Assurance Survey by dental professionals from the community who conduct the evaluation of patient records.3. Written report from external audit of infection control in the clinic.
May:	First week before Summer classes begin	<ol style="list-style-type: none">1. Evaluation of student performance on Dental Hygiene National Board Examination2. Minutes and reports from Annual Outcomes Assessment Meetings from the past school year3. Overview of areas of strengths and weakness presentations, the past year meetings4. Curriculum workshop conducted over two days, with changes implemented as a result of Annual Outcomes Assessment Meetings

Missouri Southern State University Dental Health Program

Curriculum Management Plan

In order to meet the changing needs of the programs, this curriculum management plan will serve to guide the faculty in the implementation of changes to the curriculum on an annual basis.

Part I An “Outcomes Assessment” meeting will occur in the month of April every year. The entire faculty will attend the meeting and be presented with a report on the data analysis of the outcomes of all the surveys and competencies conducted in the past year. All faculty members will make suggestions for basic changes to the curriculum to improve weaknesses in the program(s) noted in the outcomes assessment.

Part II Each faculty member will conduct a self-evaluation of each course they teach using the “Instructor Self-Evaluation Report” which includes a comparison with course content requirements stated in the ADEA Compendium of DH Curriculum Guidelines.

Part III A “Curriculum Workshop” will be held at the May Retreat meeting after the “Outcomes Assessment” meeting. At the workshop, the course leader for each course will provide a presentation on their course material, teaching methodology, and rationale for content and sequencing. Questions from the group will be asked of each course presenter based on outcomes assessments, “Instructor Self-Evaluation Report” and content as compared to the ADEA Compendium of DH Curriculum Guidelines. To review the entire curriculum content, a “Curriculum Matrix” of the topics included each week per semester is used for the review during the meeting.

Part IV A “Curriculum Meeting” will be held with all Dental Health Programs selected faculty and faculty from the institution who teach general education/biomedical science courses to Dental Health Programs’ students. A discussion will take place with regards to the program needs. Sharing of course syllabi and learning outcomes will lead to a plan for student success.

MSSU Dental Hygiene Department Curriculum Management Protocol

The intent of this established Curriculum Management Protocol for the MSSU Dental Hygiene Department is to provide guidelines and standardization for a systematic review of each dental hygiene course at regularly scheduled intervals. All faculty and appropriate administration have the opportunity to provide input and participate in discussion related to each course.

Responsibilities of Course Instructor:

1. Provide a copy of the course syllabus, course information, and outline of course topics for all participants.
1. Lead the discussion for his/her course.
2. Disclose information accurately, openly, and in the spirit of collaboration.
3. Make agreed upon course changes.

Discussion for the analysis of each course includes:

1. Appropriate syllabus format.
2. Accuracy of course description.
3. Measurability and inclusion of pertinent information in course objectives.
4. Accuracy of course-to-competencies for graduation, and course-to-CODA standards.
5. Inclusion of appropriate and relevant course topics.
6. Identification of absent course topics.
7. Cross-reference of sequencing of course topics with other courses.
8. Textbook, i.e., current, appropriateness, availability, rental vs. purchase.
9. Library References, i.e., current, appropriateness, availability.
10. Appropriateness of procedures and methods of presentation of course information.
11. Appropriateness and fairness of course evaluations.
12. Inclusion of Dental Hygiene Department grading scale with notification that student must complete course with a "C" or better to remain in the Dental Hygiene Program.
13. Inclusion of ADA statement.
14. Inclusion of Academic Integrity Statement.
15. Appropriateness of other course information.

**Missouri Southern State University
Dental Health Programs
Curriculum Management Plan**

Course Instructor: Review and Self-Evaluation Form

Please evaluate the items on this form as they relate to your course. Evaluate your course content as it compares to the “*ADEA Compendium Curriculum Guidelines*”.

For each course, each faculty member in the program should have the following available prior to the scheduled “Curriculum Workshop”: course syllabi, handouts, examinations, this self-evaluation report, and grade distributions. If each course instructor compiles a binder containing these materials for each course they teach, this will expedite the process.

Course Number and Name:

Course Instructor:

Semester:

Year:

Self-evaluate by responding to the following:

	YES	NO
Course syllabus follows recommended format and content	_____	_____
Course content complete and current according to: “ <i>ADEA Compendium Curriculum Guidelines</i> ”	_____	_____
New information included	_____	_____
Content and teaching methods support goals/objectives	_____	_____
Handouts: current and appropriate	_____	_____
Exams: reflect content in critical thinking format	_____	_____
Class activities: appropriate	_____	_____
Out of class activities	_____	_____
Use of technology: web access, ppt., blackboard	_____	_____
Course objectives linked to program competencies	_____	_____
Course grade requirements clearly stated with deadlines	_____	_____
Adequate amount of time allotted for delivery of information	_____	_____
Appropriate sequencing with other courses	_____	_____
Builds on previous information from other courses	_____	_____
No redundancy within course or other courses	_____	_____
Course grade distribution	_____	_____
Evaluation methods are objective	_____	_____
Course requires students to inquire into current literature	_____	_____
Student course evaluations	_____	_____
Other outcomes (State and national board exams.)	_____	_____

The following changes are being recommended by the Course Instructor for modification:

- _____ Course syllabus
- _____ Course content
- _____ Teaching methods
- _____ Evaluation methods
- _____ Requirements
- _____ Other

Briefly describe changes:

_____ **Course sequence in the curriculum:**

_____ **Course content and sequence:**

_____ **Other**

Comments relative to outcomes or student evaluations:

Signature of Course Instructor: _____
Instructor's Signature *Date*



Missouri's Dental Hygiene Workforce-2015

Dental hygiene is the science and practice of the recognition, treatment, and prevention of oral diseases.³ Dental hygienists primarily remove calcified deposits from above and below the gum line, examine patients for signs of oral disease, and provide other forms of preventative dental care while working in a complementary partnership with dentists.⁵ In Missouri, dental hygienists receive licensure through the Department of Insurance, Financial Institutions, and Professional Registration, Dental Board. As a part of the licensing process, licensees are required to provide the general demographic information from which this analysis is based. Information on licensees is current as of 5/20/2015 and was obtained through the publicly reported records of the Missouri Dental Board.

Dental hygienists must obtain an associate's or bachelor's degree from an institution accredited by the Commission on Dental Accreditation (CODA).² Degree programs generally require between 84 (associate) and 118 (bachelor) credit hours. Education courses entail an average of 2,932 clock hours, including 659 supervised pre-clinical and clinical dental hygiene instruction. The candidate must then successfully complete the written National Board Dental Hygiene Exam, a clinical exam, and a jurisprudence test on Missouri laws to obtain a license as a Missouri dental hygienist.¹

*There are 8 accredited dental hygiene programs with 10 sites in Missouri:¹

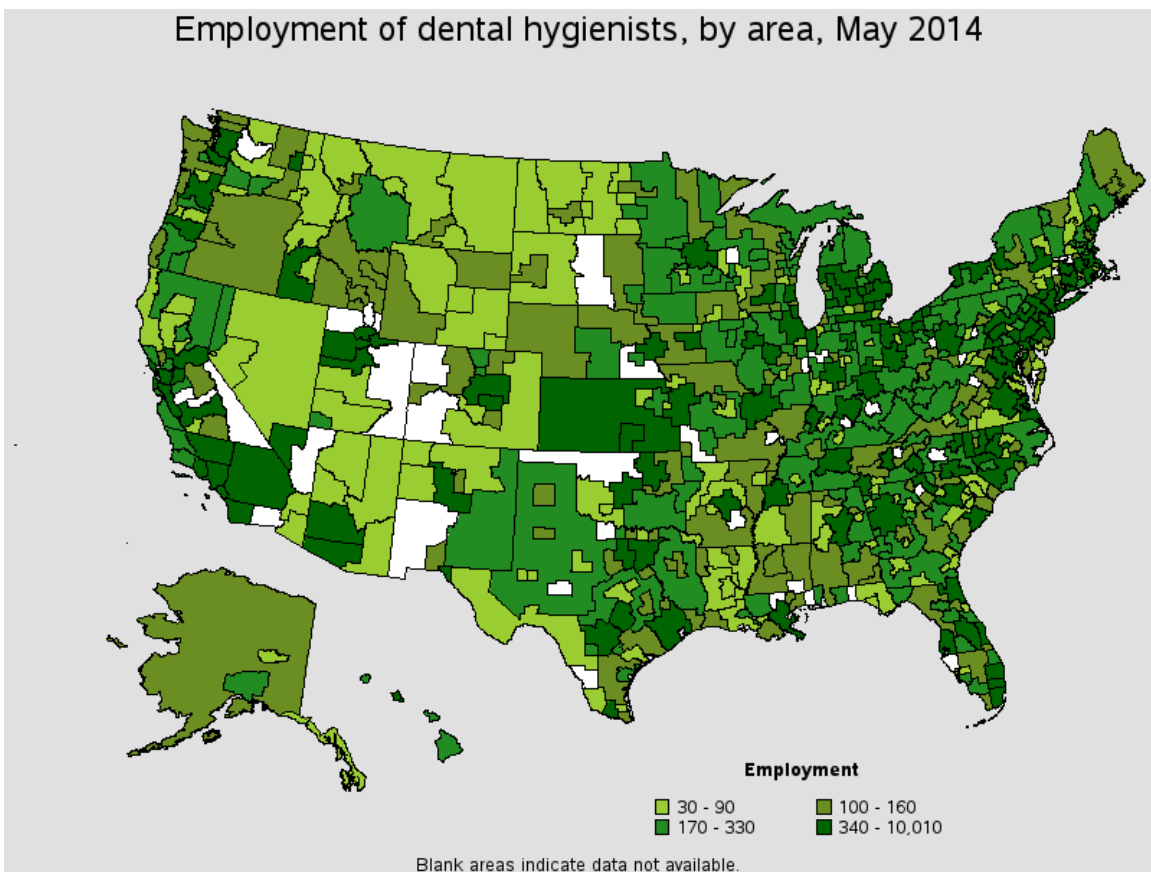
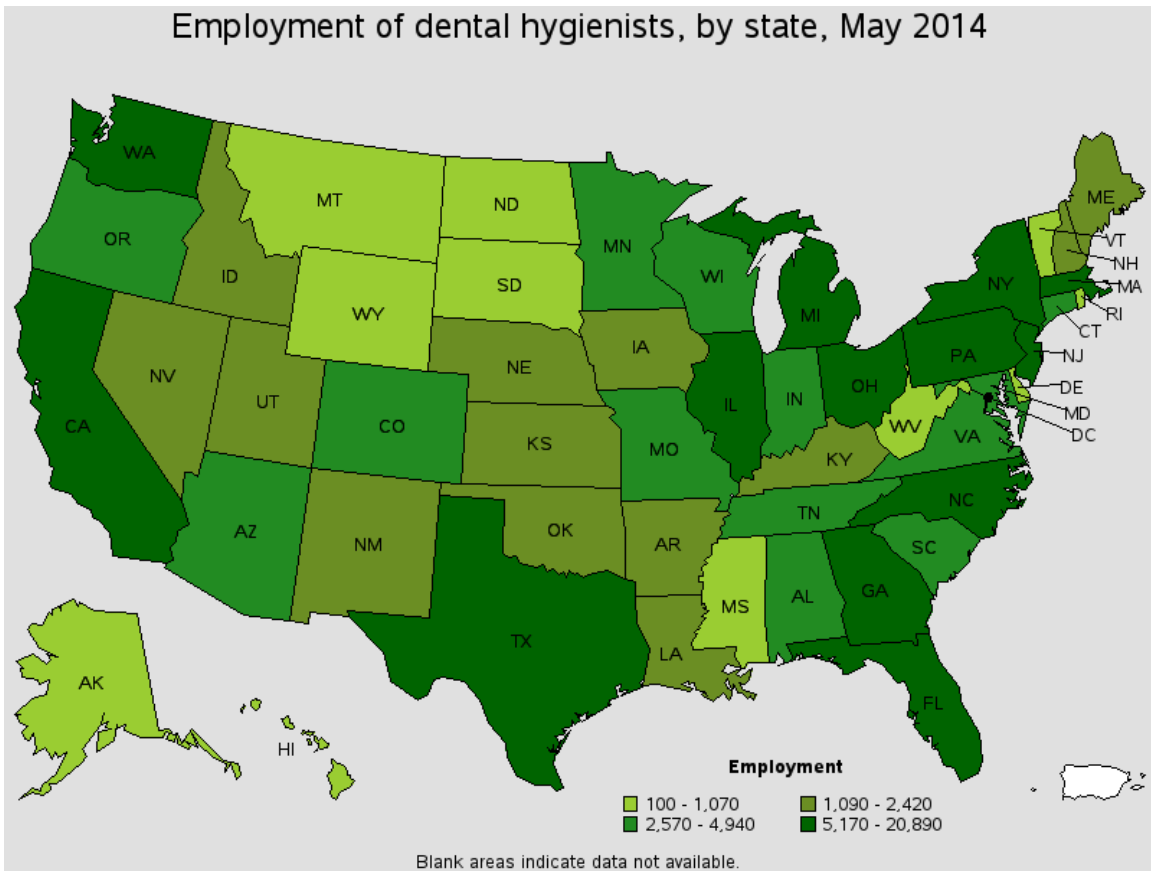
• Concorde Career Colleges, Inc.,	Kansas City	21students
• University of Missouri	Kansas City	30 students
• North Central Missouri College/ Hillyard Technical College	St. Joseph	12 students
• Ozark Technical Community College	Springfield	18 students
• Saint Louis Community College-Forest Park	St. Louis	32 students
• Missouri College	St. Louis	30 students
• State Fair Community College	Sedalia	10 students
• Missouri Southern State University	Joplin	30 students
	Rolla	10 students
	Sikeston	10 students

Overall

There are 3,711 hygienists licensed by the State of Missouri. Of these, 2,875 list a current Missouri address. Kansas and Illinois continue to be the most frequently listed as an out-of-state contact address. Since the 2014 assessment, overall licensure figures have not changed significantly (3,707 in 2014) however, the number of Missouri contact addresses has increased slightly by 1.3% (2,837 in 2014) while both Kansas (350 in 2014 vs. 333 in 2015) and Illinois (303 in 2014 vs. 293 in 2015) contacts have decreased. This change may be attributed to Missouri offering higher wages: Missouri, \$68,900; Kansas, \$64,310; Illinois, \$61,110.^{6,7,13} Missouri currently has a population to dental hygienist ratio of 2,109:1.¹⁴

*Numbers are current as of 2015

In comparison with the rest of the United States, Missouri employs a lower number of dental hygienists than the majority of states (Figure 1). Nationally, metropolitan (urban) areas have higher relative rates of dental hygienists with southern California having the highest rate (Figure 2).



Figures 1 and 2. Bureau of Labor Statistics ⁴

Expansion of the Profession

The expansion of the dental hygiene profession within Missouri is demonstrated by two factors: the annual number of new licensees and the overall number of licensees in a year. Although not as significant as previous years, there continues to be an increase in the number of dental hygienists licensed in Missouri per year. In State Fiscal Year (SFY) 1999 Missouri licensed a total of 2,261 hygienists as compared with 3,711 in SFY 2014 (Figure 4).¹³ In calendar year 2003 there were 119 new dental hygiene licenses given by Missouri. This number increased over 50% by the year 2014 to 248 licenses (Figure 5). Although the numbers are significantly higher than 2003, there was a 6.25% decline in the number of new Missouri licensees between 2013 and 2014 (16 licenses). As of 5/12/2015, there were 72 new Missouri licensees.

According to Bureau of Labor Statistics, employment of dental hygienists is projected to grow by 33% by the year 2022, significantly faster than the average for all occupations. This can be partially attributed to the growing body of research linking general health and oral health.⁵

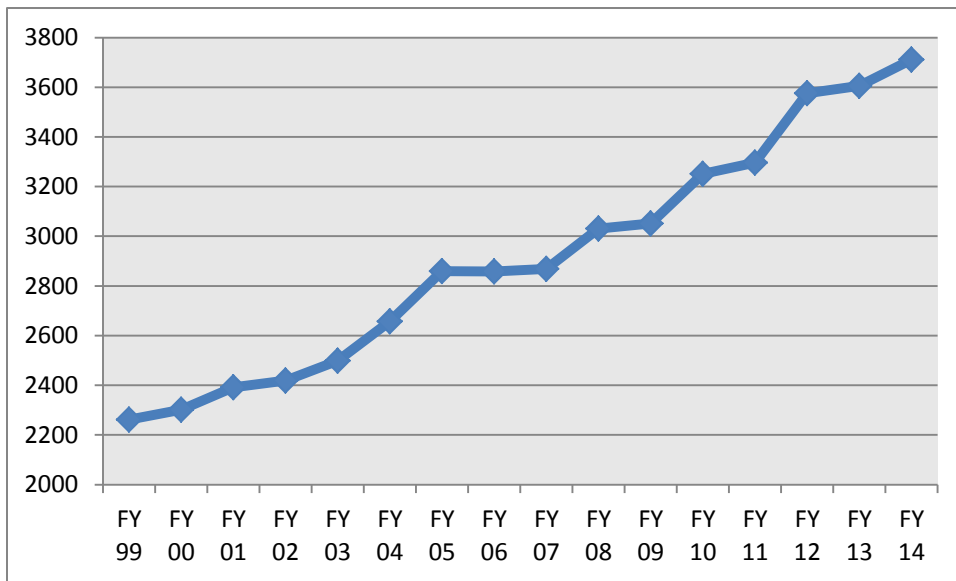


Figure 4. Number of Total Dental Hygiene Licensees by Fiscal Year⁵

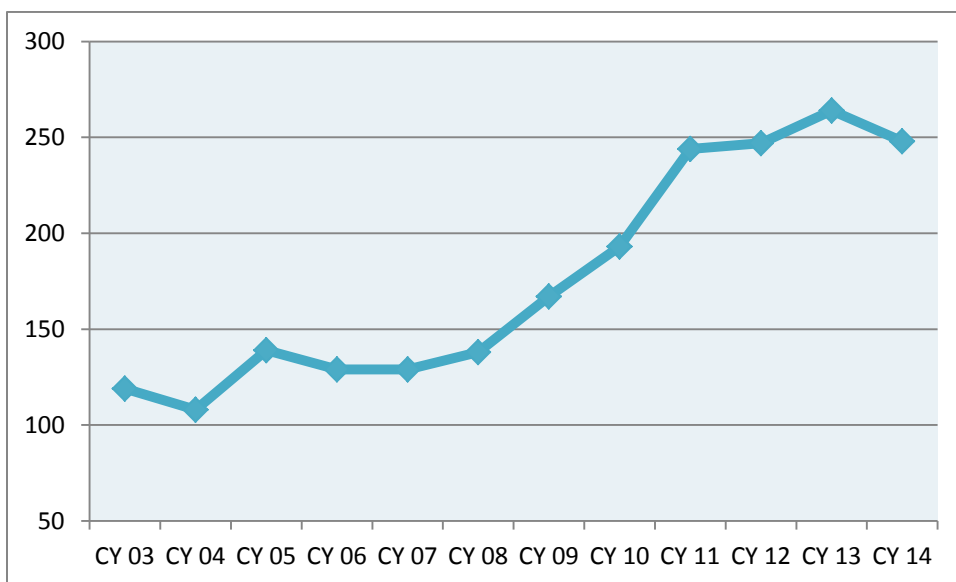


Figure 5. Number of New Dental Hygienists by Calendar Year⁵

Looking at the number of years of licensure in Missouri shows a fairly linear decrease in total licensees as the number of years of licensure increases, with the most pronounced decrease in total licensees occurring between the <5 years and 5-9 years groups (Figure 6).¹³

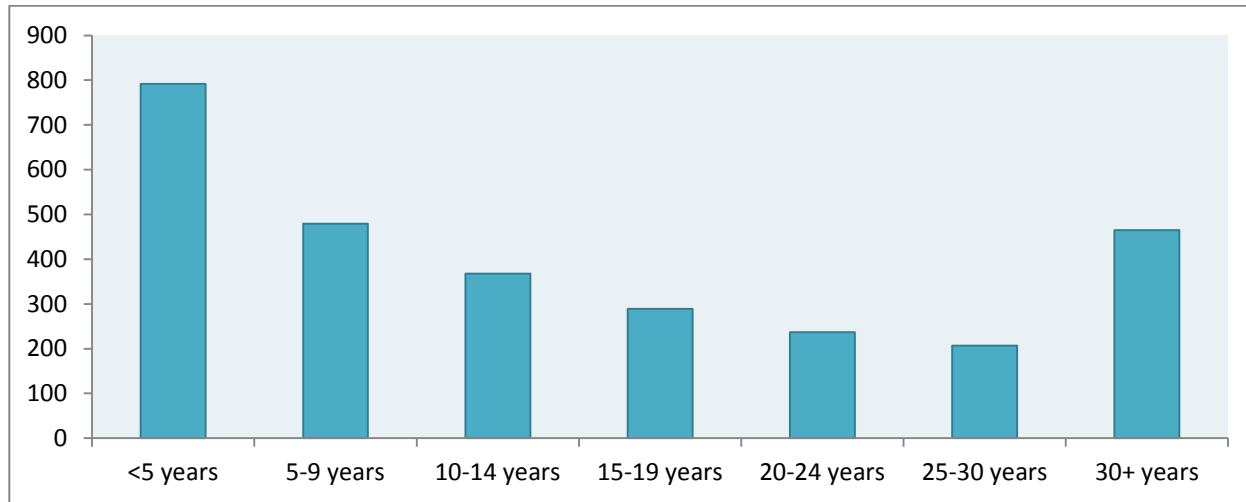


Figure 6. Total Years of Experience of Current Dental Hygiene Licensees in Missouri¹³

Permits

Of the varying types of permits that a hygienist can obtain in Missouri, infiltration anesthesia, block anesthesia, and nitrous oxide (N₂O), 88.5% have obtained either one or a combination of multiple permits (Figure 7). The most widely held permit is for infiltration/block/N₂O (68.8% of total permits).¹³

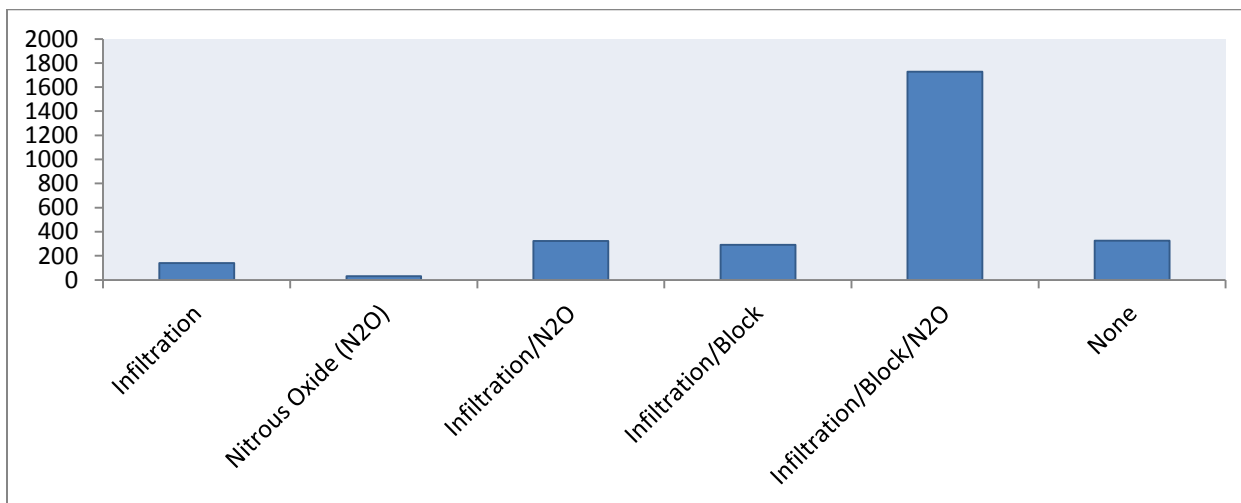


Figure 7. Dental Hygiene Permits¹³

Income

Nationally, the annual median income for dental hygienists in 2012 was \$70,210 and more than half of those employed worked part time.⁵ The average annual salary for hygienists in Missouri in 2012 was \$68,900.³ Average annual salaries for Kansas (\$64,310) and Illinois (\$61,110) are lower compared with Missouri, which may explain the increase in resident dental hygienists in Missouri (Figure 8).^{6,7} The top paying area as of 2014 was the District of Columbia with an annual mean salary of \$95,570.³ Metropolitan regions, both nationally and in Missouri continue to be the top paying areas for this occupation (Figures 10 and 11).⁴

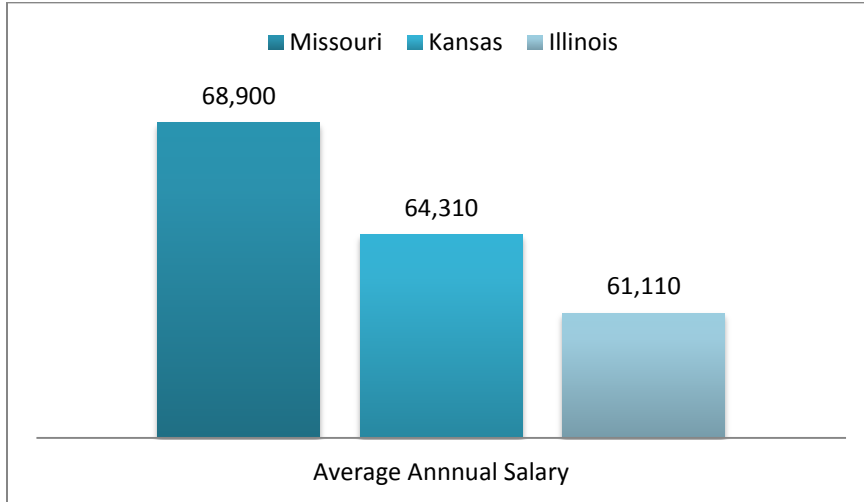


Figure 8. Average Annual Salary for Dental Hygienists, Missouri Compared with Surrounding States⁴

Compared to all other professions in Missouri dental hygienists were earning a significantly higher annual income, as of 2010 (Figure 9).⁸

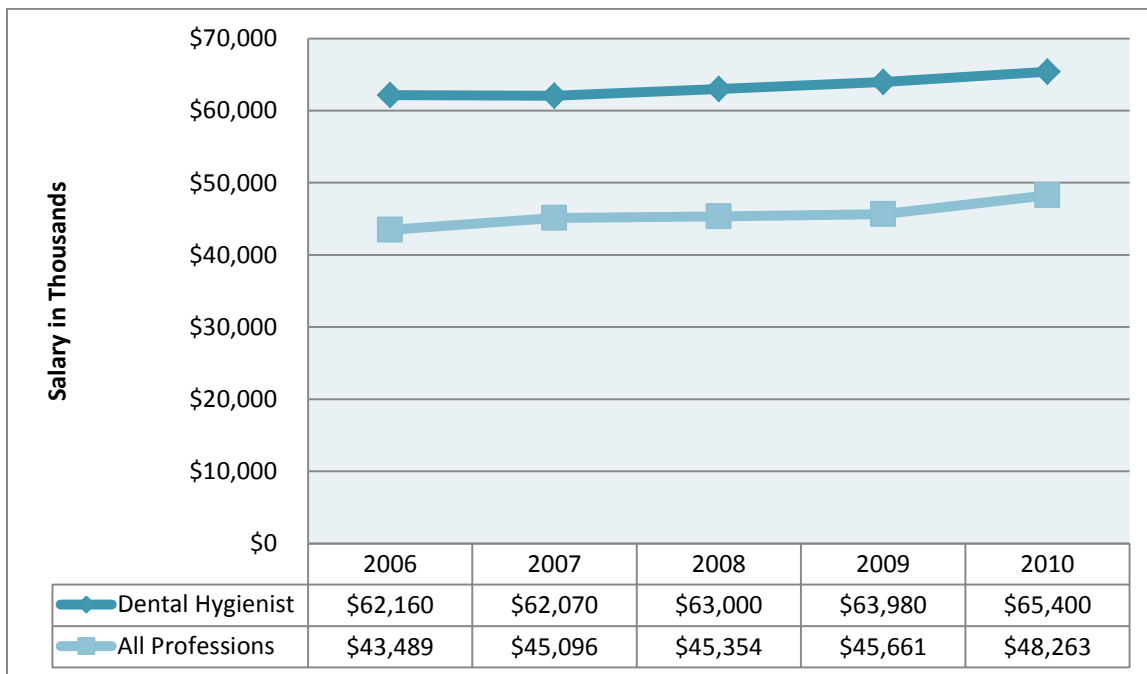


Figure 9. Dental Hygienists Salaries compared with all Professions in Missouri⁸

Annual mean wage of dental hygienists, by state, May 2014

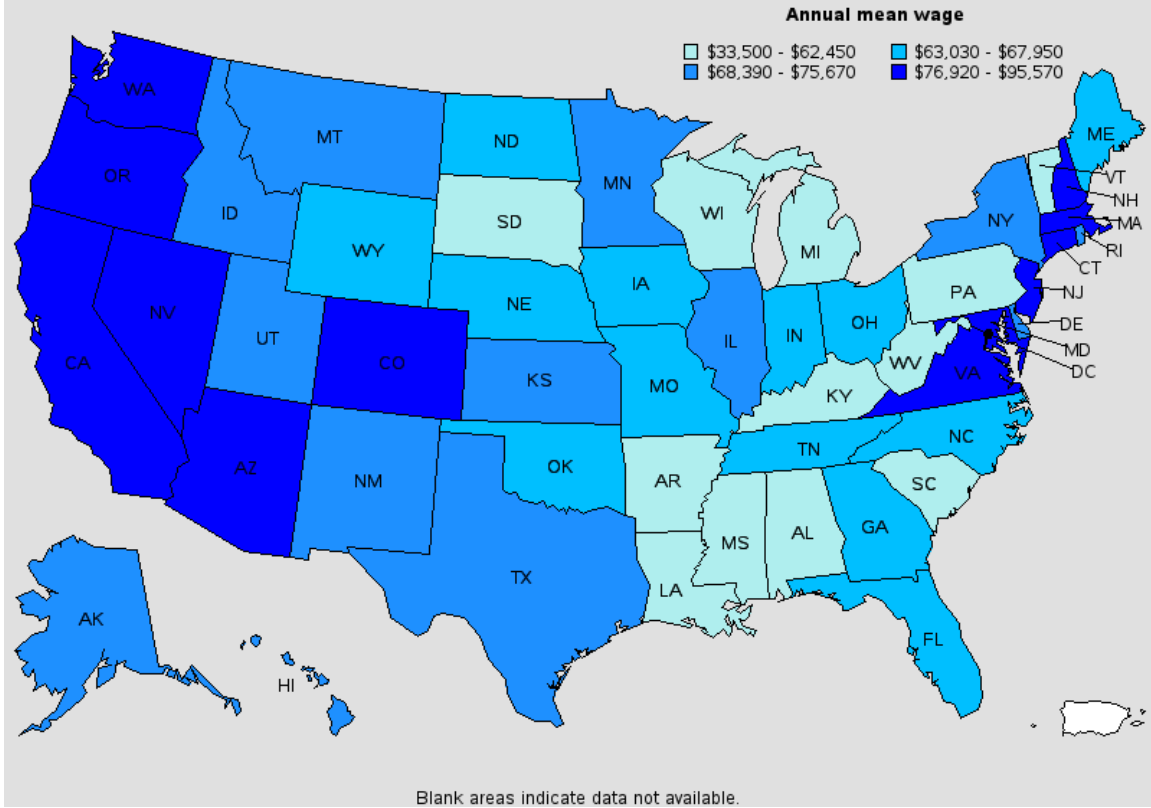


Figure 10. Bureau of Labor Statistics ⁴

Annual mean wage of dental hygienists, by area, May 2014

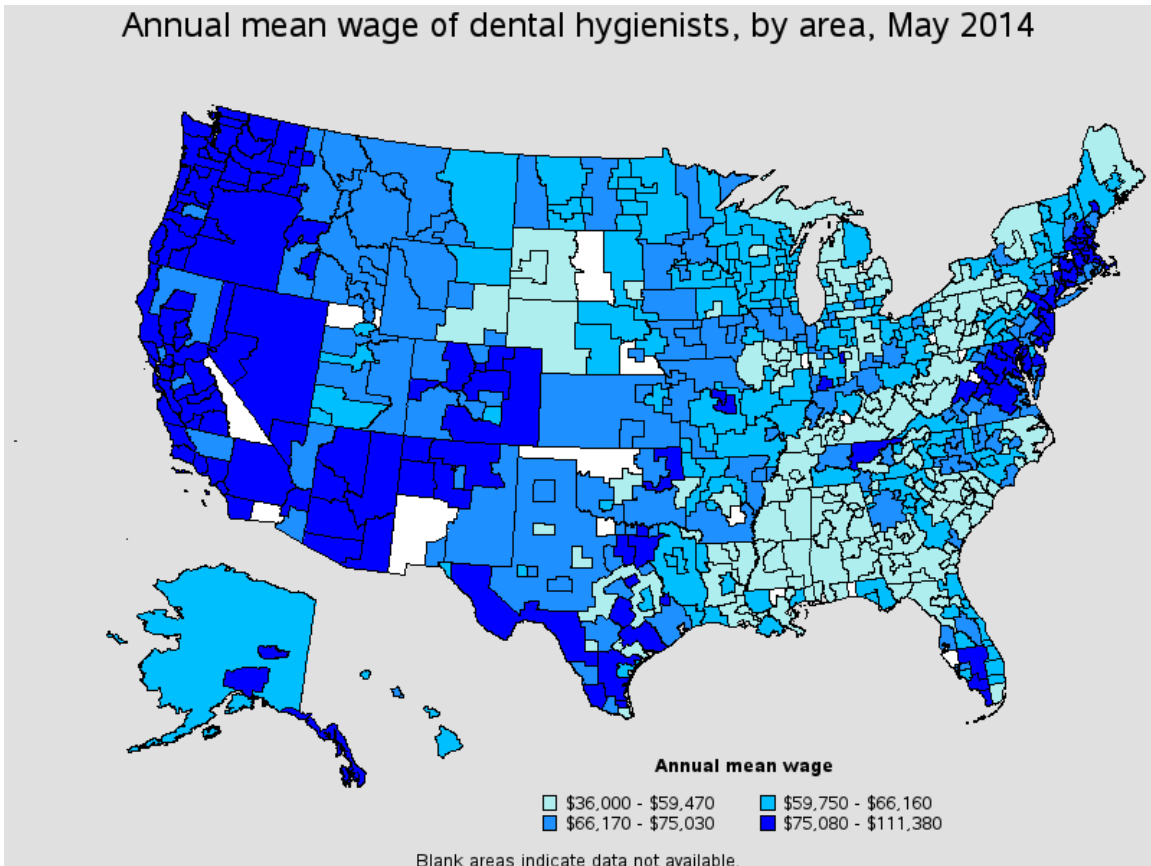


Figure 11. Bureau of Labor Statistics ⁴

Dental Assistants Compared to Dental Hygienists

Dental hygienists often work with dental assistants. Dental assistants provide patient care, take x-rays, schedule appointments and assist with recordkeeping. Formal education requirements vary by state. Missouri does not require education or training requirements unless the dental assistant assists in administering and monitoring nitrous oxide analgesia. An Expanded-Functions Dental Assistant permit is available through the Missouri Dental Board.⁹

Nationally, as of 2012, the median annual wage for dental assistants was \$34,500, less than half of the median annual dental hygienist salary. The annual mean wage in Missouri is comparable at \$33,740 (Figure 12). Seventy-five percent of dental assistants work full-time.¹⁰ Employment of dental assistants is projected to grow as much as 25% by the year 2022 (Figure 13). There is no licensee data on dental assistants in Missouri due to the fact that licensing is not a requirement for employment.⁹

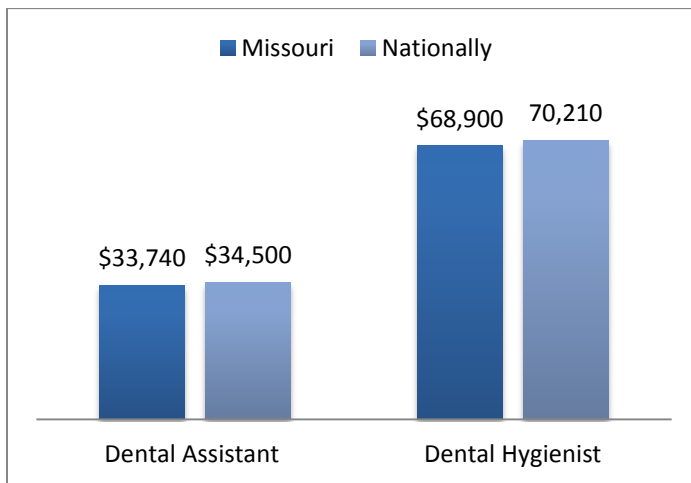


Figure 12. Mean Annual Salary of Dental Assistants compared with Dental Hygienists^{4,9}

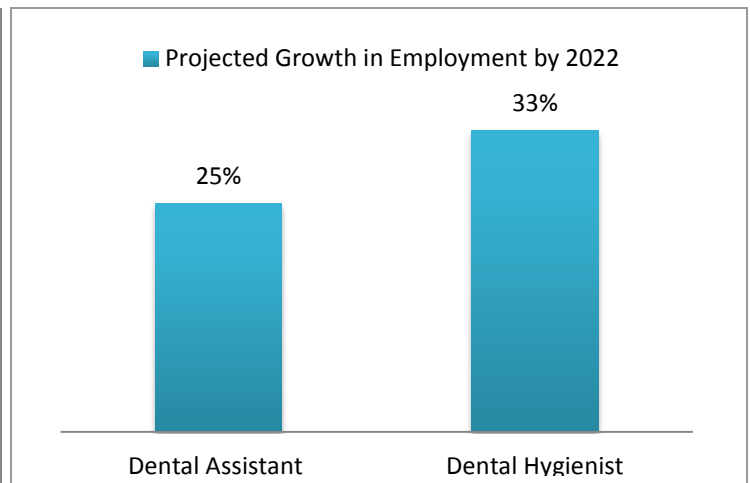


Figure 13. Projected Growth of Employment for Dental Assistants compared with Dental Hygienists⁵

¹ American Dental Hygienists' Association. 2015 Facts about 2015 Missouri Dental Hygienists.

² American Dental Hygienists' Association. *Education and Careers*. Licensure. Accessed May 2015 at <http://www.adha.org/licensure>.

³ American Dental Hygienists' Association. *Standards for Clinical Dental Hygiene Practice*, March 10, 2008.

⁴ Bureau of Labor Statistics. *Occupational Employment and Wages*, May 2014. Dental Hygienists. Accessed May 2015 at <http://www.bls.gov/oes/current/oes292021.htm#st>.

⁵ Bureau of Labor Statistics. *Occupational Outlook Handbook*. Dental Hygienists. Accessed May 2015 at <http://www.bls.gov/ooh/healthcare/dental-hygienists.htm#tab-1>.

⁶ Career Index. Dental Hygienist Schools in Illinois. Accessed June 2015 at <http://www.educationnews.org/career-index/dental-hygienist-schools-in-illinois/>.

⁷ Career Index. Dental Hygienist Schools in Kansas. Accessed June 2015 at <http://www.educationnews.org/career-index/dental-hygienist-schools-in-kansas/>.

⁸ Career Index. Dental Hygienist Schools in Missouri. Accessed May 2015 at <http://www.educationnews.org/career-index/dental-hygienist-schools-in-missouri/>.

⁹ Dental Assisting National Board, Inc. *Missouri State Requirements*. Accessed May 2015 at <http://www.danb.org/en/Meet-State-Requirements/State-Specific-Information/Missouri.aspx>.

¹⁰ Dental Career Guide. *Dental Assistant Salary*. Accessed May 2015 at <http://www.dentalcareerguide.com/dental-assistant/dental-assistant-salary.html>.

¹¹ Missouri Dental Hygienists' Association. *Dental Hygiene Programs Located in Missouri*. Accessed June 2015 at <http://www.mdha.org/dentalhygieneprograms.html>.

¹² Missouri Department of Health and Senior Services. Office of Primary Care and Rural Health. *Health in Rural Missouri Biennial Report 2012-2013*.

¹³ Missouri Department of Health and Senior Services. Office of Primary Care and Rural Health. *Missouri's Dental Hygiene Workforce- 2014*. Accessed at <http://health.mo.gov/living/families/primarycare/pdf/DentalHygieneWorkforceAnalysis2014.pdf>.

¹⁴ U.S. Census Bureau. *State and County Quick Facts*, 2015. Accessed May 2015 at <http://quickfacts.census.gov/qfd/states/29000.html>.

**MSSU DENTAL HYGIENE PROGRAM
EMPLOYER SURVEY**

The purpose of this survey is to help the MSSU dental hygiene faculty evaluate the program's success in preparing graduates to function as competent dental hygienists. Compiled data from all returned surveys will be used to evaluate program quality; data from individual surveys will be held in strict confidence. The dental hygiene faculty requests that this survey be completed by the graduate's immediate supervisor.

BACKGROUND INFORMATION

Length of employment at time of this evaluation: _____ years and _____ months

Circle One: Graduate Completed degree 2016 or 2017

INSTRUCTIONS: Consider each item separately and rate it independently of all others. Check the rating that indicates the extent to which you agree with each statement. Please do not skip any rating.

5 = strongly agree 4 = generally agree 3 = neutral (acceptable) 2 = generally disagree 1 = strongly disagree

NOTE:

Please provide detailed comments for any item rated below 3.

I. Knowledge Base

- | | | | | | | | | | | |
|--|---|--------------------------|---|--------------------------|---|--------------------------|---|--------------------------|---|--------------------------|
| a. Has a solid professional base | 5 | <input type="checkbox"/> | 4 | <input type="checkbox"/> | 3 | <input type="checkbox"/> | 2 | <input type="checkbox"/> | 1 | <input type="checkbox"/> |
| b. Has solid general medical knowledge base | 5 | <input type="checkbox"/> | 4 | <input type="checkbox"/> | 3 | <input type="checkbox"/> | 2 | <input type="checkbox"/> | 1 | <input type="checkbox"/> |
| c. Accurately interprets clinical information | 5 | <input type="checkbox"/> | 4 | <input type="checkbox"/> | 3 | <input type="checkbox"/> | 2 | <input type="checkbox"/> | 1 | <input type="checkbox"/> |
| d. Recommends appropriate treatment based upon patient assessment findings | 5 | <input type="checkbox"/> | 4 | <input type="checkbox"/> | 3 | <input type="checkbox"/> | 2 | <input type="checkbox"/> | 1 | <input type="checkbox"/> |
| e. Makes sound clinical judgments | 5 | <input type="checkbox"/> | 4 | <input type="checkbox"/> | 3 | <input type="checkbox"/> | 2 | <input type="checkbox"/> | 1 | <input type="checkbox"/> |

Comments:

II. Clinical Proficiency

- | | | | | | | | | | | |
|--|---|--------------------------|---|--------------------------|---|--------------------------|---|--------------------------|---|--------------------------|
| a. Is proficient in the clinical skills required for the job | 5 | <input type="checkbox"/> | 4 | <input type="checkbox"/> | 3 | <input type="checkbox"/> | 2 | <input type="checkbox"/> | 1 | <input type="checkbox"/> |
| b. Can efficiently perform a patient assessment | 5 | <input type="checkbox"/> | 4 | <input type="checkbox"/> | 3 | <input type="checkbox"/> | 2 | <input type="checkbox"/> | 1 | <input type="checkbox"/> |
| c. Competently performs therapeutic procedures required on the job | 5 | <input type="checkbox"/> | 4 | <input type="checkbox"/> | 3 | <input type="checkbox"/> | 2 | <input type="checkbox"/> | 1 | <input type="checkbox"/> |

Comments:

III. Behavioral Skills

- a. Has effective oral communication skills 5 4 3 2 1
- b. Has effective written communication skills 5 4 3 2 1
- c. Behaves in an ethical and professional manner 5 4 3 2 1
- d. Functions effectively as a member of the dental office team 5 4 3 2 1
- e. Works effectively with supervisory personnel 5 4 3 2 1
- f. Is self-directed and responsible for his/her own actions 5 4 3 2 1
- g. Arrives to work prepared and on time 5 4 3 2 1
- h. Contributes to a positive environment in the office 5 4 3 2 1
- i. Displays respect for beliefs and values of all persons regardless of cultural background, religion, age or lifestyle. 5 4 3 2 1

Comments:

5= excellent 4 = above average 3 = average 2 = below average 1 = poor

IV. OVERALL RATING OF THE GRADUATE 5 4 3 2 1

Additional comments:

Date:

OPTIONAL INFORMATION:

Rater name:

E-mail:

Phone number

Thank you for your input and time!

STUDENT EXIT SURVEY

1. The student orientation as a method of providing you with an understanding of the program competencies, rules and requirements for successfully completing the program.

Outstanding Very Good Good Fair Poor

2. The sequence of the courses in the curriculum with regard to the building of new knowledge and skills upon knowledge and skills learned in previous courses.

Outstanding Very Good Good Fair Poor

3. The didactic and clinical courses preparation you received for the National Dental Hygiene Board Examination.

Outstanding Very Good Good Fair Poor

4. The didactic and clinical courses preparation you received for the State Board Examination.

Outstanding Very Good Good Fair Poor

5. The didactic and clinical courses preparation you received to use critical thinking skills to make judgments and appropriate decisions for problem solving.

Outstanding Very Good Good Fair Poor

6. The didactic and clinical courses preparation you received to conduct a critical review of current scientific literature to plan and provide patient care that is evidenced based.

Outstanding Very Good Good Fair Poor

7. The didactic and clinical courses preparation you received to apply ethical reasoning in all aspects of the dental hygiene process of care.

Outstanding Very Good Good Fair Poor

8. Conducting patient medical histories and risk assessment.

Outstanding Very Good Good Fair Poor

9. Using data collected from patient assessment, ability to plan for evidenced based, patient centered comprehensive care.

Outstanding Very Good Good Fair Poor

10. Taking and evaluating patient vital signs.

Outstanding Very Good Good Fair Poor

STUDENT EXIT SURVEY

11. Extraoral and Intraoral Assessments.

Outstanding Very Good Good Fair Poor

12. Occlusal assessments that include Angles classification, overjet/overbite, and all deviations.

Outstanding Very Good Good Fair Poor

13. Periodontal assessment that include gingival descriptions, periodontal pocket measurements, CAL, furcation involvements and periodontal disease.

Outstanding Very Good Good Fair Poor

14. Knowledge and skills in taking, processing and interpreting all types of radiographs used in dentistry, utilizing manual as well as state of the art digital/computerized systems.

Outstanding Very Good Good Fair Poor

15. Charting of all decayed, missing and restored or replaced teeth, rotations and deviations.

Outstanding Very Good Good Fair Poor

16. Assessment of soft deposits, stains and supragingival and sub gingival hard deposits.

Outstanding Very Good Good Fair Poor

17. Providing patient education by prioritizing on individual patient needs for oral self-care, lifestyle changes and providing supportive treatment such as coronal polishing, sealants, chemo agents, desensitizing products and professional fluoride treatments.

Outstanding Very Good Good Fair Poor

18. The ability to assess plan, implement and evaluate community-based oral health programs.

Outstanding Very Good Good Fair Poor

19. Choosing and accurately administering appropriate pain control medicaments as determined by clinicians judgment of patient need.

Outstanding Very Good Good Fair Poor

20. Effectively performing scaling and debridement techniques using both power scaling and hand scaling techniques with mild to severe periodontal disease conditions.

Outstanding Very Good Good Fair Poor

STUDENT EXIT SURVEY

21. Accurately assessing patients response to treatment and plans for additional care to achieve optimal oral health for the patient.

Outstanding Very Good Good Fair Poor

22. Following all guidelines for providing quality care and documenting records appropriately to demonstrate compliance with quality assurance guidelines.

Outstanding Very Good Good Fair Poor

23. Knowledge and skills to enable you to be compliant with the Code of Ethics as it applies to clinical performance, including attitude, behaviors, appearance, punctuality, time management, infection control, patient safety and discretion, rules and regulations.

Outstanding Very Good Good Fair Poor

24. Preparation for managing medical emergencies that occur in dental offices and clinical settings, and knowledge of how to set up a medical emergency cart and protocol for team management of medical emergencies.

Outstanding Very Good Good Fair Poor

25. The remediation system utilized by the program to assist students will the development of clinical skills is:

Outstanding Very Good Good Fair Poor

26. Overall how would you rate the MSSU Dental Hygiene program.

Outstanding Very Good Good Fair Poor