MASTER OF SCIENCE IN DENTAL HYGIENE

Information Guide

DIVISION OF DENTAL HYGIENE SCHOOL OF DENTISTRY UNIVERSITY OF MINNESOTA

2019
MASTER OF SCIENCE IN DENTAL HYGIENE

Program Description:

The Master of Science in Dental Hygiene professional program provides dental hygienists who wish to pursue a graduate program with a choice of two tracks: management and dental hygiene education.

Program Overview:

The Master of Science in Dental Hygiene program prepares leaders in the profession for careers in academia, the healthcare industry and research.

Courses in the management track provide students with the knowledge and skills necessary for positions in healthcare organizations such as sales representatives and managers of marketing and professional relations divisions, managers of large dental clinics, practice management consulting, and entrepreneurship. This track is offered online, however, there are on-campus courses for students who prefer face-to-face.

Courses in the dental hygiene education track provide students with the knowledge and skills to teach didactic, clinic, and laboratory courses in dental hygiene programs; conduct research; and assume administrative positions. This track is offered online. One two-week on-campus visit is required the first Summer semester of the program.

Core Curriculum (11 cr.): Students in both the Management and Dental Hygiene Education Tracks take the following core courses:

- DH 5401 Research Methods in Health Sciences (3 cr.)
- DH 5407 Instructional Strategies for Effective Teaching (2 cr.)
- DH 5411 Administrative Leadership and Professional Development (2 cr.)
- DH 5421 Grantwriting (1 cr.)
- Epsy 5261 Introduction to Statistical Methods (3 cr.)

MANAGEMENT TRACK CURRICULUM:

Required Curriculum: (9 cr.):

- MBA 6030 Financial Accounting (3 cr.)
- MBA 6210 Marketing Management (3 cr.)
- MBA 6220 Operations Management (3 cr.)
Plan A (16 cr.):
- DH 8777 Masters Thesis (10 cr.)
- MBA Elective(s) (6 cr.)

Plan C (18 cr.):
- DH 5201 Management Internship (5 cr.)
- DH 5203 Capstone Project (3 cr.)
- MBA Elective(s) (10 cr.)

Electives Curriculum: Chosen from the following courses (not an inclusive list): See Carlson School of Management for more course offerings.
- ENTR 6020 Business Formation (4 cr.)
- MBA 6300 Strategic Management (3 cr.)
- MILI 6235 Pharmaceutical Industry: Business and Policy (2 cr.)
- MKTG 6051 Marketing Research (4 cr.)
- MILI 6562 Information Technology in Healthcare (2 cr.)
- MILI The Healthcare Marketplace (2 cr.)
- HRIR 8031 Staff Training and Development (4 cr.)

Required: Thesis or Internship and Capstone: Students complete either: 1) a research study and thesis with additional MBA elective courses equaling six credits; or 2) an internship and capstone project with additional MBA elective courses equaling ten credits.

DENTAL HYGIENE EDUCATION TRACK

Required Curriculum: (12 cr.)
- DH 5403 The Discipline of Dental Hygiene (2 cr.)
- DH 5405 Curriculum and Course Development (2 cr.)
- DH 5409 Dental Hygiene Clinic Administration (2 cr.)
- DH 5413 Dental Hygiene Supervised Clinical Student Teaching (4 cr.)
- DH 5415 Dental Hygiene Supervised Didactic Student Teaching (2 cr.)

Required Thesis (10 cr.):
• DH 8773  Thesis I: Literature Review I  (2 cr.)
• DH 8775  Thesis II: Study Methodology  (3 cr.)
• DH 8776  Thesis III: Implementation & Data Analysis  (2 cr.)
• DH 8779  Thesis IV: Dissemination  (3 cr.)

Proposal Approval and Final Oral Examination:

• Thesis Proposal Approval
• Final Oral Examination

ADMISSIONS:

Materials must be submitted by May 1, 2019 for the class beginning Fall (September) semester 2019.

ADMISSION REQUIREMENTS:

• Completion of a baccalaureate or associate degree in dental hygiene from an accredited U.S. institution or foreign equivalent. If the applicant has graduated from an associate degree dental hygiene program, s/he must also have a baccalaureate degree from an accredited U.S. institution.
• Applicants who have not completed an undergraduate statistics course must do so prior to matriculation or prior to taking the required statistics course.
• Minimum of a 3.0 grade point average.
• Management Track Only: Applicants must take either the Graduate Management Assessment Test (GMAT) with a minimum score of 500 required OR the Graduate Record Examinations (GRE) with a minimum quantitative score of 153 and a minimum verbal of 150.

Application:

• Applications for Fall 2019 admissions are due May 1, 2019.
  Applicants apply online via the University of Minnesota Graduate School. Link to application can be found at: https://www.grad.umn.edu/admissions/applicationinstructions
• Upon acceptance a $95.00 non-refundable placement fee is required.

Application materials:

• Computer generated essay to include short and long term goals and an explanation of why an advanced degree is of interest and why he/she merits serious consideration
• Current resume including dental hygiene clinical practice and/or management experience.
• Three letters of reference from persons qualified to evaluate the applicant’s recent work and potential for success in professional graduate program.
Official transcripts of all previous/current academic work from all institutions
Copies of dental hygiene license CPR level C certification and immunization status will also be required upon matriculation
A phone interview with members of the MSDH Admissions and Progression Committee may be requested.

Financial Aid:

- Federal financial aid loans are available.

Tuition/Fees:

**Tuition**: Tuition and Fees for 2018-19 are as follows:

- $934.00 per credit
- Education track is 33 credits; Management track is 36-38 credits
- *Please note that all MSDH students pay **resident** tuition rates.

**Fees:**

- Dental Hygiene/School of Dentistry Fee: Approximately $205.00

*Please go to www.onestop.umn.edu for a complete listing of University fees.

**CORE COURSE DESCRIPTIONS**

Core Curriculum: (11 credits) Students in both the management and dental hygiene education tracks will participate in the following four core courses.

- **DH 5401 Research Methods in Health Sciences** (3 cr.) Develop skills in the scientific method and analysis of research findings; emphasis placed on types of research, problem selection, hypothesis writing, research planning and design, data collection and measuring techniques, analysis and interpretation of data, ethics in research and writing the research proposal.
- **DH 5407 Instructional Strategies for Effective Teaching** (2 cr.) Application of principles of learning, learning styles, teaching styles, and instructional strategies; using a variety of instructional strategies.
- **DH 5411 Administrative Leadership and Professional Development** (2 cr.) Application of leadership theory and models of administrative roles in education, healthcare, research and corporate settings. Study of education and organization culture, strategic planning, human resource management and grantsmanship. Emphasis on professional development and advancement.
- **DH 5421 Grantwriting** (1 cr.) Application of the grantwriting process including successful
elements of a grant application; writing an application; grant review process and critiquing a grant.

- **Epsy 5261 Introductory Statistical Methods** (3 cr.) Application of statistical concepts/procedures. Graphs, numerical summaries. Normal distribution, correlation/regression analyses, probability, statistical inferences for one or two samples. Hypothesis tests, Chi-square tests. Conceptual understanding/application of statistics.

**CURRICULUM**

**Management Track:** In addition to the above core courses, management track students will complete the following required courses.

- **MBA 6030 Financial Accounting** (3 cr.) Basic principles of financial accounting involving the consecution/interpretation of corporate financial statements.
- **MBA 6210 Marketing Management** (3 cr.) Management of marketing function; understanding the basic foundational marketing concepts and skills in strategy development and planning of operational and strategic levels pertaining to product offering decisions, distribution channels, pricing and communication.
- **MBA 6220 Operations Management** (3 cr.) Introduction to fundamental operations, management principles and concepts. The course takes a strategic view of operations in both a manufacturing and service context and stresses linkages to other functional areas. Many of the cases in the course take an international perspective.

**Electives** (8-13 cr.): more elective courses can be found at www.csom.umn.edu/mba:

- **ENTR 6020 Business Formation** (4 cr.)
- **MBA 6300 Strategic Management** (3 cr.)
- **MGMT 6004 Negotiation Strategies** (2 cr.)
- **IDSC 6040 Information Technology Management** (2 cr.)

**Management Track Elective Course Descriptions** (not an inclusive list)

- **ENTR 6020 Business Formation (4 credits)** This course focuses on issues that are important at the launch and development of a business from concept development through business entry, either as a startup or through an acquisition. It covers opportunity identification and evaluation entry strategy, competitive analysis and business planning, forecasting and budgeting from a “blank slate,” resource markets and resource assembly, and problems/opportunities from concept stage through establishment of a viable business.

- **MBA 6300 Strategic Management (3 credits)** Introduction to the concepts and techniques used to create and implement a sense of corporate direction; choices about products and markets that involve the integration of different functional areas; positioning a business to increase returns for shareholders and stakeholders; the skills involved in identifying issues, evaluating options, and implementing business plans.
• **MGMT 6004 (2 credits)** Art/science of securing agreements between two or more parties who are interdependent and seek to maximize their own outcomes. Individual, group, organizational behavior. Theory/process of negotiations applied to problems faced by managers/professionals.

• **IDSC 6040 (2 credits)** Management of information systems, information technology (IT) in global organization. Strategic uses of IT. Alignment of IT, organizational strategy, internet/Web technologies, e-commerce customer services. Integration of e-business applications, interorganizational systems, systems implementation. Management of information as resource. Lecture, case analysis, classroom discussion.

**CURRICULUM**

**Education Track:** (22 cr.) In addition to the core curriculum courses described on page 5, dental hygiene education track students will participate in the following courses:

• **DH 5403 The Discipline of Dental Hygiene** (2 cr.) will ensure that students’ dental hygiene practice is grounded in science and guided by research evidence; etiology, prevention, and treatment related to dental caries, periodontal diseases, oral cancer and other conditions; and, advances in technology.

• **DH 5405 Curriculum and Course Development** (2 cr.) will prepare students for curriculum and course development and management, competency-based education and outcomes assessment, and the role of accreditation in dental hygiene education. Students will develop a competency-based dental hygiene curriculum and a dental hygiene course.

• **DH 5409 Dental Hygiene Clinic Administration** (2 cr.) will prepare students for the administration of a dental hygiene clinic and the development of dental hygiene clinic courses, policies and procedures, evaluation mechanisms including OSCEs and standardized patients, and case-based instruction.

• **DH 5413 Dental Hygiene Supervised Clinical Student Teaching** (4 cr.) will prepare students to teach psychomotor skills in a clinic setting; observation and participation in selected supervised teaching experiences.

• **DH 5415 Dental Hygiene Supervised Didactic Student Teaching** (2 cr.) Observation and participation in supervised teaching experience in dental hygiene education under faculty mentorship.

• **DH 8773, 8775, 8776, 8779 Thesis Credits** (10 cr.) Directed research toward completion of thesis. Students will complete 10 thesis credits and a research project under the supervision of an advisor and examining committee, write, and defend a thesis in a final oral examination. Students will be required to submit a manuscript based on their theses, approved by the students’ advisors, as one or more manuscripts into refereed journal, and submit a poster presentation abstract to be presented at a professional meeting. A final oral examination covering the thesis will be administered at the end of the students’ academic program, registration for thesis and satisfactory completion of all course work. The final oral examination will be administered by the student’s thesis committee.
REQUIRED THESIS

DH 8773 Thesis I: Literature Review
This course is the first in a series of courses focused on the development of an original research project for the thesis. The purpose of this course is to provide students with the knowledge and skills to successfully review the literature on a chosen research topic, develop a research question, and write a focused review of the literature review.

DH 8775 Thesis II: Study Methodology
This course is the second in a series of five courses designed to assist the student in conducting a thesis research project. The focus of this course is the completion of a research proposal that will serve as a roadmap for carrying out the proposed research. Students will complete CITI training.

DH 8776 Thesis III: Implementation and Data Analysis
This course is third in a series of five courses culminating in a written thesis. The focus of this course is implementing the research, data management and analysis.

DH 8779 Thesis IV: Dissemination
The final course in the thesis course series focuses on completion of the written thesis, oral defense and preparation of a publishable manuscript.

FOR MORE INFORMATION

School of Dentistry Website
http://www.dentistry.umn.edu

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612-626-3412
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### MSDH CURRICULUM EDUCATION TRACK (online)

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<th>Fall Semester</th>
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<td>The Discipline of Dental Hygiene (2 cr.)</td>
<td>Research Methods in Health Science (3 cr.) (CORE)</td>
<td>Supervised Clinical Student Teaching (4 cr.)</td>
<td>Instructional Strategies for Effective Teaching (2 cr.) (CORE)</td>
<td>Didactic Student Teaching (2 cr.)</td>
<td>Administrative Leadership and Professional Development (2 cr.) (CORE)</td>
<td>Grant-writing (1 cr.) (CORE)</td>
<td>Independent Study: Continuation of Thesis Work (Optional)</td>
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<td>Introduction to Statistical Methods (3 cr.) (CORE)</td>
<td>Curriculum and Course Development (2 cr.)</td>
<td>Dental Hygiene Clinic Administration (2 cr.)</td>
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# MSDH CURRICULUM DENTAL HYGIENE MANAGEMENT (online)

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<td>EPSY 5261 Introduction to Statistics and Measurement (3 cr.)</td>
<td>MBA 6220 Operations Management (3 cr.) DH 5401 Research Methods in Health Science (3 cr.) (Core)</td>
<td>DH 5413 Administrative Leadership and Professional Development (2 cr.) (Core)</td>
<td>MBA 6210 Marketing Management (3 cr.) DH 5407 Instructional Strategies (2 cr.) (Core)</td>
<td>MBA Elective(s) (2-4 cr.) DH 5421 Grantwriting (1 cr.) (Core)</td>
<td>DH 5203 Capstone Project (3 cr.) DH 5201 Management Internship (5 cr.) OR DH 8779 Thesis (10 cr.)</td>
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