



Dental Hygiene Program

COURSE SYLLABUS FALL 2025

Dental Materials (DNHY 3013)

Lecture & Lab (3 credit hours=2 hrs. lecture + 2 hrs. lab)

DAY/TIME:

Tuesday 1:00-4:00

PLACE:

Centennial Hall (CE), Room 103-A

Gaines Dental Hygiene Clinic (CE-146)/Dental Materials Lab (CE-143)

INSTRUCTOR:

Betsy Raines RDH, BSDH, MS

Office: CE 129

Phone: (940) 940-397-4480

D2L Email: betsy.raines@d2lmail.msutexas.edu

MSU Email: betsy.raines@msutexas.edu

OFFICE HOURS:

Wednesday 8:00-12:00

REQUIRED TEXTS:

- Dental Materials: Clinical Applications for Dental Assistants and Dental Hygienist 4th Edi., by W. Stephan Eakle, DDS, FADM and Kimberly G. Bastin, CDA, EFDA, CRDH, MS
- Wilkins' Clinical Practice of the Dental Hygienist, 14th Edi., by Linda D. Boyd, RDH, Rd, EdD and Lisa F. Mallonee, RDH, RD, LD, MPH

COURSE DESCRIPTION:

Study of the materials used in restorative dentistry and in various other specialty areas of dentistry to fabricate dental appliances and tooth restorations. This course includes lecture and laboratory components designed to help students develop an understanding of the composition, properties, structure, and manipulative variables of dental materials historically used in dentistry, as well as the most current materials available. Emphasis is placed on practical, clinical applications of materials; the dental hygienist's role in educating patients regarding these materials; and the techniques for placement of the materials in the oral cavity.

COURSE OBJECTIVES:

Upon completion of this course, the student will be able to:

- Differentiate between the various types of dental materials and their respective properties.
- Manipulate materials used in dentistry.
- Demonstrate knowledge of the correct terminology in dealing with dental materials.
- Make appropriate clinical judgements in the selection and use of dental materials and their subsequent reaction in the oral environment.
- Educate patients about dental procedures involving dental materials and the proper maintenance of oral health, restorations, and prostheses.
- Provide a variety of high-quality therapeutic and preventative services involving selection and manipulation of appropriate dental materials within the dental hygiene scope of practice.

LEARNING OBJECTIVES:

Learning objectives are related to textbook chapters and will be given for each class session.

COURSE EVALUATION:

• LECTURE REQUIREMENTS:

- 3 Exams will be given for this course over the material of each unit
- Assigned weekly Quizzes will be given over the reading assignments for that day's lecture
- You must log on to Dental Materials to complete homework assignments. All assignments must be submitted through D2L.
- DM Debate Assignment:
 - Students will be assigned a controversial dental material to prepare a research article debating the stance taken according to the prompt provided. The student will then present their evidence in a closing argument statement to the jury of peers. After jury deliberation, a vote will be cast on who presented their case most adequately to win the DM debate.
- Video Assignment
 - Students will be assigned a dental material and prepare a 1-2 minute video explaining the topic. Students will present the video to their classmates.

• LAB REQUIREMENTS:

- Skills videos are available in the Lab D2L course to be viewed prior to the assigned lab day.
- Satisfactory completion of skill competencies by the assigned due date listed in the calendar.
- **SKILL COMPETENCIES:** see attachments
 - Study Models (2-Pour & Trim)
 - Alginate Impressions (2-Mixing Alginate & Taking Impressions)
 - Disinfect Impression or Bite Registration (2-Impression & Bite)
 - Whitening Tray Fabrication (2- Fabrication & Clinical Procedures)
 - Sealant Application (1)
 - Applying Topical Fluoride (1)

GRADE COMPUTATION:

Lab Competencies (10)	25%
Exams (3)	45%
Weekly Quizzes (10)	10%
Homework Grades (10)	10%
Video Assignment	5%
Research Debate	5%
	100%

GRADING SCALE FOR ALL DENTAL HYGIENE:

A grade of "C" is required for the successful completion of this course.

A = 92 to 100

C = 75 to 82

B = 83 to 91

D = 65 to 74

(Constitutes Failure of Course in Dental Hygiene)

SYLLABUS CHANGE POLICY:

This syllabus is a guide for the course- not a "contract" – and is subject to change. Syllabus changes will be communicated via written revisions with a minimum of 48 hours notice before relevant changes take place. Please keep this syllabus as a reference. Students are responsible for this information and any changes to the syllabus as explained above. As the daily course schedule is subject to change, it should be understood that regardless of the date, whenever a new section of study is begun, the homework assignment will be due before the start of that class period.

RECORDING OF CLASS LECTURES:

Taping of class lectures will be permitted, but **ONLY** with the **PRIOR APPROVAL** of the instructor.

INSTRUCTIONAL METHODOLOGY: HYBRID COURSE

This course is a hybrid course with majority of the didactic/lecture component being delivered face-to-face with access to the D2L learning management system for assignment instructions, submitting assignments, and collaboration.

Students should note that hybrid education takes effective time management and study skills. It is your responsibility to have (or have access to) a working computer (with internet access) for this class due to the variety of teaching methods being used to meet the goals of this course. Computers are available in various buildings on campus, including the 3rd floor of Centennial Hall. The primary medium for communication and information is presented through D2L Learning Management System. Text readings; audiovisual aids to include clinical slides, PowerPoint presentations, videos, on line course and teaching models are used to support the delivery of course content.

All course materials will require the use of Microsoft. It is the responsibility of each student to submit any required assignments in Microsoft compatible formats. To download student access to Office 365 go to: <https://products.office.com/en-us/student?ms.officeurl=getoffice365>.

Review the Student Help Aids for D2L on the MSU Distance Education Resources Page available at <https://msutexas.edu/distance/how-to-student.php> &/or <https://www.youtube.com/channel/UCLsXtdOzKAFOCZjXav1aCRQ/search?query=learner>

Assignments are due by the due date, and personal computer technical difficulties will not be considered a reason for the instructor to allow students extra time to submit assignments, or discussion postings.

The laboratory component includes hands-on demonstrations and small group activities with student partners in the clinical setting.

CLASS ATTENDANCE:

Attendance is critical to achieving the maximum benefits of this course. Reviewing notes and the reading assignments without active participation in the course's clinical activities will not permit the student to adequately meet course objectives. Therefore, **MORE THAN 2 ABSENCES FOR ANY REASON WILL RESULT IN THE FINAL COURSE GRADE BEING LOWERED ONE FULL LETTER GRADE.**

Two (2) tardies will be the equivalent of 1 absence. Students are responsible for all material presented in the lecture as well as assigned reading. It is the student's responsibility to obtain any handouts or notes missed in class.

If students are unable to attend lecture class, clinic, or lab, it is **mandatory that you call the appropriate instructor prior to the scheduled class, clinic or lab time.** The student is responsible for all material missed at the time of absence. Extenuating circumstances will be taken into account to determine if the absence is excused. Extenuating circumstances might include but are not limited to funeral of immediate family member, maternity, hospitalization, etc. If the student has surgery, a debilitating injury, or an extended illness, a doctor's release will be required before returning to class, clinic, or lab.

PHONE USE:

- Cell phone use (texting or verbal) is extremely disruptive to your classmates and the faculty teaching your course.

Therefore, **the use of cell phones will not be tolerated, FOR ANY REASON.**

- If you utilize your cell phone it will be confiscated for the remainder of the scheduled day. Repeat offenders will be asked to leave the classroom and will be required to meet with the faculty and the chair of the Dental Hygiene Dept. In case of emergencies, please notify spouses, family, and friends to contact you via the program secretary at 397-4764.

ARTIFICIAL INTELLIGENCE USAGE POLICY

The use of generative Artificial Intelligence Tools (AI) that emulate human capabilities (eg: ChatGPT, Dall-e, Gamma, etc.) is permitted in this course for the following activities and **must be disclosed** (this includes all graded assignments and activities) in an explanatory appendix describing which tool

was used and how (including illustrations and editing). Remember, AI is a place to collaborate, not to outsource your assignment:

- Brainstorming and refining ideas
- Discovery of information on your topic
- Illustration of topic

However, the use of AI tools (mentioned above) are prohibited for:

- Case Study assignments
- Completion of homework assignments
- Making of final presentation project
- All written assignments

ETHICS AND PERSONAL VALUES:

The following is excerpted from Clinical Practice of the Dental Hygienist, 12th Ed, by Esther M. Wilkins, Chapter 1: ***“Each dental hygienist represents the entire profession to the patient being served. The dental hygienists expressed or demonstrated attitudes toward dentistry, dental hygiene, and other health professions, as well as toward health services and preventive measures, will affect the subsequent attitude of the patient toward other dental hygienists and dental hygiene care in general.”***

..... “A dental hygienist may be involved in a variety of moral, ethical, and legal situations as part of the daily routine.”

SOCIAL MEDIA:

DO NOT:

- Use any social media site related to Midwestern State University or the Dental Hygiene Dept./Program to harass, threaten, insult, defame or bully another person or entity; to violate any College policy; or to engage in any unlawful act, including but not limited to gambling, identity theft or other types of fraud.
- Post or store content that is obscene, pornographic, defamatory, racist, excessively violent, harassing, threatening, bullying, or otherwise objectionable or injurious.
- Post copyrighted content (such as text, video, graphics, or sound files) without permission from the holder of the copyright. Remember, even information that is widely available to the public (such as text, photographs, or other material posted on the Internet) may be subject to copyright restrictions that prohibit unauthorized duplication or dissemination.
- If posting special events for the Dental Hygiene Program or Gunn College, keeping in mind the above policy, please tag as: #GunnCollege #centennialhall #msu_texas_dental_hygiene_

SERVICES FOR STUDENTS WITH DISABILITIES

In accordance with Section 504 of the Federal Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, Midwestern State University endeavors to make reasonable accommodations to ensure equal opportunity for qualified persons with disabilities to participate in all educational, social, and recreational programs and activities. After notification of acceptance, students requiring accommodations should make application for such assistance through Disability Support Services, located in the Clark Student Center, Room 168, (940) 397-4140. Current documentation of a disability will be required in order to provide appropriate services, and each request will be individually reviewed. For more details, please go to [Disability Support Services](#)

SMOKING/TOBACCO POLICY

College policy strictly prohibits the use of tobacco products in any building owned or operated by MSU TEXAS. Adult students may smoke only in the outside designated-smoking areas at each location.

Alcohol and Drug Policy

To comply with the Drug Free Schools and Communities Act of 1989 and subsequent amendments, students and employees of Midwestern State are informed that strictly enforced policies are in place which prohibits the unlawful possession, use or distribution of any illicit drugs, including alcohol, on university property or as part of any university-sponsored activity. Students and employees are also subject to all applicable legal sanctions under local, state and federal law for any offenses involving illicit drugs on University property or at University-sponsored activities.

ACADEMIC DISHONESTY/Dental Hygiene Honor System:

All Dental Hygiene courses adhere to the MSU Code of Conduct. In particular, academic dishonesty, however small, creates a breach in academic integrity. A student's participation in this course comes with the expectation that his or her work will be completed in full observance of the MSU Code of Student Conduct. A student should consult the current Student Handbook for answers to any questions about the code.

Many components of dental hygiene courses are designed to be highly interactive with students helping each other learn. Students are encouraged to take full advantage of many resources available including course resources, Internet sites, other textbooks and journals, faculty, and peers when answering objectives. This interactive collegial learning environment is conducive to lifelong learning.

ACADEMIC DISHONESTY/Dental Hygiene Honor System cont.:

Cheating includes, but is not limited to, (1) use of any unauthorized assistance in taking quizzes, tests, or examinations; (2) dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or completing other assignments; or (3) the acquisition of tests or other academic materials belonging to the university faculty or staff without permission.

Plagiarism includes, but is not limited to, the use of, by paraphrase or direct quotation without correct citation in the text and on the reference list, the published or unpublished works of another person. Students may NOT submit papers and assignments that they have previously submitted for this or other courses. The use of materials generated by agencies engaged in "selling" term papers is also plagiarism. Students are encouraged to review the tutorials and suggested websites for more information about plagiarism.

Academic dishonesty (cheating, plagiarism, etc.) will not be tolerated in this class. Whenever a student is unsure of whether a particular situation will be interpreted as academic dishonesty, he/she should ask the instructor for clarification. If students are guilty of academic dishonesty, a grade of zero (0) will be given for the quiz, assignment, etc. Cases may also be referred to the Dean of Students for possible dismissal from the university.

PLEASE NOTE:

By enrolling in this course, the student expressly grants MSU a "limited right" in all intellectual property created by the student for the purpose of this course. The "limited right" shall include but shall not be limited to the right to reproduce the student's work product in order to verify originality and authenticity, and for educational purposes. Specifically, faculty may submit student papers and assignments to an external agency to verify originality and authenticity, and to detect for plagiarism.

MSU COHSHS STUDENT CONDUCT APPEALS COMMITTEE:

- Students who wish to appeal a grade should consult the Midwestern State University [MSU Catalog](#)
- When enrolled in the College of Health Sciences and Human Services (COHSHS), students are often assigned to community agencies, such as health care facilities, social service agencies, or athletic environments, as part of their academic process. During these experiences, the student is expected to behave in a manner required of professionals working in this environment. COHSHS students may also be required to successfully complete a licensing/certification process following graduation.
- As a result, students in these programs are often held to a different academic and/or behavioral standard than students in other MSU programs. For example, students may not be allowed to progress in a program if they have been unsuccessful (D or F) in a certain number of courses in the major. In these circumstances, COHSHS faculty and administration, all of whom have had similar professional experience, may make decisions which negatively impact students' programmatic progress.
- COHSHS students have a right to a review of decisions made by the program faculty, which prevent individuals from progressing in their program in a timely manner. However, those who participate in the review must understand the context of the professions involved. Therefore, issues concerning the professional conduct of students in the COHSHS will NOT be brought to the University Grade Committee, but to the COHSHS Student Conduct Appeals Committee. Specifically, the COHSHS Student Conduct Appeals Committee will review faculty decisions related to:
 - Student conduct in a clinical experience, internship, or other work-related environments that negatively impact the student's academic progress. This conduct may include behavior that is prohibited by licensing and/or professional standards or departmental policy.

- Student removal from a program because of a) professional conduct issues, or b) failure to maintain academic standards required specifically by the program*

SEE COHSHS WEBSITE FOR A COMPLETE COPY OF THIS POLICY

<http://hs2.mwsu.edu/pdf/COHSHS-Student-Appeals-Committee.pdf?LL=809>

CONCEALED CARRY RULES/POLICIES

For more information, refer to: [Campus Carry Rules and Policies](#)

ACTIVE SHOOTER

The safety and security of our campus are the responsibility of everyone in our community. For more information, visit [Safety / Emergency Procedures](#). Students are encouraged to watch the video entitled "[Run. Hide. Fight.](#)"