



Dental Materials Lecture/Lab

MSU Dental Hygiene Program

DNHY 3013.101 & 3013.11-A

FALL 2026

COURSE INSTRUCTOR:

Jill Young, M.Ed., BSDH, RDH

Office: Centennial Hall, Room 125

Phone: (940) 397-4738

OFFICE HOURS:

Monday 1:00-4:00 pm

Wednesday 2:30pm-5:00 pm

Thursday 1:00pm-4:00 pm

Friday 9:00 - 11:00 by appointment only

COURSE TIME & PLACE:

Tuesdays 1:00-4:00 pm

Lecture Centennial Hall, Room 103-A

Gaines Dental Hygiene Clinic/Lab, Room 146/143

TUTORING ASSISTANCE

Open door policy or make an appointment with me for a specific time period.

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.

REQUIRED TEXTS & INSTRUCTIONAL MATERIALS:

- *Dental Materials: Clinical Applications for Dental Assistants and Dental Hygienist 4th Edition*, by Hatrick & Eakle
- *Wilkins Clinical Practice of the Dental Hygienist 14th Edition*, by Boyd & Mallonee
- 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. Download student access to Office 365 go to: <https://products.office.com/en-us/student?ms.officeurl=getoffice365>
- Students must have access to D2L Learning Platform

METHOD OF INSTRUCTION: HYBRID COURSE

Students should note that hybrid education takes effective time management and study skills. This course is a hybrid course that includes student participation through group

discussion and hands on clinical instruction, along with access to the D2L learning management system for assignment instructions, submitting assignments, and collaboration through the D2L platform for a hybrid learning experience. Students should note that hybrid education takes effective time management and study skills. Each student is expected to be familiar with this program as it provides the primary source of communication regarding assignments, examination materials, and general course information.

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.

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>.

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

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

STUDENT LEARNING OUTCOMES:

Through reading and note assignments, students will learn the objectives related to textbook chapters and topics that are provided for each class session.

OVERALL COURSE OBJECTIVES:

Through lectures, individual and group discussion, reading assignments, and lab exercises, the students should be able to: Upon completion of the dental materials curriculum, the student will be able to:

1. Applies principles of professional and ethical behavior when providing all dental hygiene services.
2. Educate the patient about dental procedures involving dental materials and the proper maintenance of restorations and prostheses.
3. Provide a variety of high- quality therapeutic and preventive services involving selection and manipulation of appropriate dental materials within the dental hygiene scope of practice.
4. Make appropriate clinical judgements in the selection and use of dental materials and their subsequent reaction in the oral environment.
5. Educate patients on the materials selected and any subsequent changes needed in oral hygiene to maintain optimal oral health.
6. Effectively collaborate inter-professionally within the scope of dental hygiene practice involving the selection and manipulation of dental materials.
7. Demonstrate successful application of dental materials and procedures on typodonts, extracted teeth, and in the clinical laboratory setting on fellow students that may benefit from material criteria.

COURSE EVALUATION:

Written Exams:

- Three (3) written examinations, will be given for this course. Changes to the total number of tests may be made as needed at the discretion of the instructor. Each written exam may be comprehensive from the first-class session, with the greatest emphasis placed on the new material presented since the previous exam.

Students missing an exam due to illness will be allowed to make up the exam on the day of their return to school. No grade higher than a 90 will be given for make-up examinations. Students will be allowed to make up only one (1) exam per semester. This does not include the Final Exam or weekly quizzes.

Quizzes:

- At the beginning of each lecture session there will be a short quiz pertaining to the reading assignment. The quizzes will be 10-20 multiple-choice, and fill in the blank questions. Weekly quizzes are worth 20% of your final grade, however if the student is prepared, the quiz should only take 10-15 minutes to complete. Please make every effort to arrive on time, you will not be allowed extra time to complete the quiz if you are late for class.

Homework Assignments:

- A variety of homework assignments will be found in D2L or via Dentalcare.com website. NOTE: you must go through the assignment number provided to gain credit for the Dentalcare.com assignments. See all HW credit rubric for extra assignment participation.
- Due dates and assignment numbers can be found on the assignment calendar.

Debate Project

- Students will be assigned a controversial dental material/dental therapy to prepare a debate style presentation of their stance either for or against the use of the material/therapy. The student will then present their evidence in a closing argument statement to their jury of peers (cohort). After the jury deliberation, the student that presented their case most adequately, will win the material/therapy debate.

Franken Mouth: Base & Wax Project

- Students will prepare an edentulous base, manipulate a wax base, and utilize the selected teeth from Dental Anatomy, to build a "Frankenmouth". Students will then work in pairs to prepare a name and life story for their "Frankenmouth" describing how the restorative dentition came to be. Ex: Frank had a soda-pop habit and exhibits decay on his mandibular first molars.

Laboratory Exercises

- Laboratory grading will be based on proficiency achieved through application and manipulation of various dental materials.
- The following procedures are taught to clinical competency:
 - Taking a maxillary and mandibular alginate impression
 - Fabrication of a bleaching tray
 - Placement of pit and fissure sealants
- The following procedures are taught to laboratory competency:
 - Placement of a temporary restoration
 - Mixture of temporary cement
 - Placement of fluoride

Late Work

Failure to turn in required graded assignments will result in a grade of zero for that

assignment & for the final grade computation.

Final Course Computation

- **Lecture & Lab:**

Table 1: Points allocated to each assignment

Assignments	Points
Examinations	30%
Quizzes	20%
Homework Grades	25%
Lab Exercises:	25%
Total Points	100%

- **Grading Scale For All Dental Hygiene:**

Table 2: Total points for final grade

Grade	Points
A	92-100
B	83-91
C	75-82
D	65-74 (Constitutes Failure of Course in Dental Hygiene)
F	0-74 (Constitutes Failure of Course in Dental Hygiene)

Student must achieve a minimum of a "C" grade to successfully complete the course in accordance with program policies.

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.

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.

INCLEMENT WEATHER

In the event of inclement weather, please check D2L for updates to class responsibilities and calendar.

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):
 - 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

RECORDING OF CLASS LECTURES:

Taping of class lectures will be permitted, but **ONLY** with the **PRIOR APPROVAL** of the instructor. When it is feasible and appropriate, students may record classes to accommodate disabilities under the Americans with Disabilities Act, with prior approval of Disability Support Services. Such recordings may not be uploaded to the internet or otherwise shared, transmitted, or published.

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.

SOCIAL MEDIA:

DO NOT:

- 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_

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.”

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.
- 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.
- Refer to [Office of Student Conduct](#)

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.

College Policies

MSU COHSHS STUDENT CONDUCT APPEALS COMMITTEE:

- All Midwestern State University (MSU) students may legitimately appeal a course grade if 1) the student has not been evaluated according to the same criteria as his or her classmates, or 2) an error has been made in grading and/or posting (MSU Student Handbook, p. 37). In addition, the Office of the Dean of Students has the responsibility to enforce standards of conduct for students as outlined in the MSU Student Handbook (p. 70-80).
- 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>

THE AMERICANS WITH DISABILITIES ACT:

Midwestern State University does not discriminate on the basis of an individual's disability and complies with Section 504 and the Americans with Disabilities Act in its admission, accessibility, and employment of individuals in programs and activities. MSU provides academic accommodations and auxiliary aids to individuals with disabilities, as defined by law, who are otherwise qualified to meet academic employment requirements. For assistance call (940) 397-4618 or (940) 397- 4515. It is the student's responsibility to declare any disabilities. After declaration, preferably at the beginning of each semester, the student needs to contact individual instructors to determine any reasonable accommodations that may be required.

Campus Carry:

Effective August 1, 2016, the Campus Carry law (Senate Bill 11) allows those licensed individuals to carry a concealed handgun in buildings on public university campuses, except in locations the University establishes has prohibited. The new Constitutional Carry law does not change this process. Concealed carry still requires a License to Carry permit, and openly carrying handguns is not allowed on college campuses. For more information, visit [Campus Carry](#). 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. Each of us has an obligation to be prepared to appropriately respond to threats to our campus, such as an active aggressor. Please review the information provided by MSU Police Department regarding the options and strategies we can all use to stay safe during difficult situations. For more information, visit [Safety / Emergency Procedures](#). Students are encouraged to watch the video entitled "Run. Hide. Fight." Which may be electronically accessed via the University police department's webpage: "[Run. Hide. Fight.](#)"

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 Student Wellness Center, (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](#).

Emergency Aid Resources for Basic Needs:

Unexpected life circumstances can affect anyone. If you are experiencing challenges meeting basic needs—such as housing, utilities, food, transportation, healthcare, technology, textbooks or other life necessities, resources may be available to help. Visit the [Student Emergency Support and Resources webpage](#) to learn more, and explore emergency support opportunities through MSU and how to access them. For additional information, please contact the Office of Student Affairs: Clark Student Center #108, (940) 397-7500, student.affairs@mstutexas.edu.

Pregnant And Parenting Students

To support the academic success of pregnant and parenting students and students with pregnancy related conditions, the University offers reasonable modifications based on the student's particular needs. Any student who is pregnant or parenting a child up to age 18 or has conditions related to pregnancy, may contact MSU's designated [Pregnancy and Parenting Liaison](#) to discuss support available through the University.

Obligation To Report Sex Discrimination Under State And Federal Law

Midwestern State University is committed to providing and strengthening an educational, working, and living environment where students, faculty, staff, and visitors are free from sex discrimination of any kind. State and federal law require University employees to report sex discrimination and sexual misconduct to the University's Office of Title IX. As a faculty member, I am required to report to the Title IX Coordinator any allegations, personally observed behavior, or other direct or indirect knowledge of conduct that reasonably may constitute sex discrimination or sexual misconduct, which includes sexual assault, sexual harassment, dating violence, or stalking, involving a student or employee. After a report is made, the office of Title IX will reach out to the affected student or employee in an effort to connect such person(s) with resources and options in addressing the allegations made in the report. You are also encouraged to report any incidents to the office of Title IX. You may do so by contacting:

Laura Hetrick

Title IX Coordinator

Sunwatcher Village Clubhouse

940-397-4213

laura.hetrick@mstutexas.edu

You may also file an online report 24/7 at https://cm.maxient.com/reportingform.php?MSUTexas&layout_id=6

Should you wish to visit with someone about your experience in confidence, you may contact the MSU Counseling Center at 940-397-4618. For more information on the University's policy on Title IX or sexual misconduct, please visit <https://mstutexas.edu/titleix/>