

Lamar Institute of Technology  
Dental Hygiene Program

DHYG 1431

Course Syllabus

Fall 2021

Taught by:  
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**Pre-Clinical Dental Hygiene**

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## **DHYG 1431 PRE-CLINICAL DENTAL HYGIENE**

### **Course Description:**

Foundational knowledge for performing clinical skills on patients with emphasis on procedures and rationale for performing dental hygiene care. Introduction to ethical principles as they apply to dental hygiene care.

Credit Hours            4 hours

**Pre-Requisite:**        DHYG 1301 Orofacial Anatomy, Histology & Embryology

**Co-requisites:**        DHYG 1304 Dental Radiology, DHYG 1227 Preventive Dentistry

### **Course Goals:**

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

1. Explain the procedures and rationale for dental hygiene care. Dental hygiene care includes: assessment, treatment planning, preventive education and dental hygiene therapy.
2. Demonstrate basic dental hygiene instrumentation skills.
3. Demonstrate an understanding of the policies and procedures outlined in the Dental Hygiene Risk Management Manual.
4. Define ethical principles as they relate to dental hygiene care and identify those facts related to ethics and professionalism that will form the concepts necessary for developing a value system for your future practice.

**Class Meeting Times and Rooms:**

**Lecture** – Hybrid: Tuesday 9:45-10:35 a.m. MPC Room 112  
Thursday (ONLINE) Blackboard

**Lab** – Meeting place: MPC 131 Dental Hygiene Clinic  
Session A – Monday and Wednesday 8:00 to 12:00 a.m.  
Session B – Tuesday and Thursday 1:00 to 5:00 p.m.

Pre-operative procedures will be accomplished prior to the beginning of each pre-clinic lab session. Arrive early enough to prepare your unit.

**Course Instructor:** Lori Rogers RDH, BS / First Year Clinic Coordinator

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**Pre Clinic Instructors:**

Debbie Brown RDH MA

Danielle Davis RDH

Michelle DeMoss RDH MS

Lisa Harrell RDH BS

**Program/Course Policies:**

**1. Absenteeism**

In order to ensure the students in the dental hygiene program achieve the necessary didactic and clinical competencies outlined in the curriculum, it is necessary that the student complete all assigned lecture classes, clinical and laboratory hours. It is the responsibility of the student to attend class, clinic or lab. The instructor expects each student to be present at each session.

It is expected that students will appear to take their exams at the regularly scheduled examination time. Make-up examinations will be given only if the absence is due to illness (confirmed by a physicians' excuse), a death in the immediate family, or at the discretion of the instructor.

If students are unable to attend lecture, class, clinic or lab, it is mandatory that you call the appropriate instructor prior to the scheduled course time. An absence will be considered unexcused if the student fails to notify the course faculty prior to the start of class, clinic or lab. Attendance through Blackboard Collaborate is considered an absence. The instructor must be notified one hour prior to the start of class/lab if the student needs to attend through Blackboard Collaborate. The student is responsible for all missed material at the time of the absence. Extenuating circumstances will be taken into consideration 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 clinic.

#### Fall/Spring Semesters:

Dental hygiene students will be allowed two excused absences in any lecture, clinic or lab. Absences must be accompanied by a written excuse on the next class day. In the event that a student misses class, clinic or lab beyond the allowed absences, the following policy will be enforced:

2 absences = notification in Starfish

Beginning with the third absences, 2 points will be deducted from the final course grade for each absence thereafter.

Two (2) points will be deducted from the final course grade for each unexcused absence

#### Tardiness

Tardiness is disruptive to the instructor and the students in the classroom. A student is considered tardy if the student is not present at the start of class/clinic. It is expected that students will arrive on time for class, clinic or lab, and remain until dismissed by the instructor. Attendance at pre-clinic sessions is imperative and one student's absence or tardiness will affect other students in the class. All pre-op procedures should be completed by 8:00/1:00. If tardiness becomes an issue, the following policy will be enforced:

Tardy 1 time = notification in Starfish

Tardy 2 times is considered an unexcused absence. (See the definition of an unexcused absence.) If a student is more than 15 minutes late to any class period, it will be considered an unexcused absence.

Students should plan on attending classes, labs and clinic sessions as assigned throughout the semester. Family outings, vacation and personal business should be scheduled when school is not in session and will not be considered excuses for missing assignments, examinations, classes, labs or clinic time.

Please inform the instructor of any medical conditions which would require you to leave the clinic frequently. Medical conditions must be documented with a letter

from your physician. In cases of family or other emergencies which may require you to leave clinic early, please inform the instructor prior to clinic if possible.

\*Faculty has the authority to modify the above policies if it is determined there are unusual circumstances.

## **2. Examination and Quiz Policy:**

Examinations will be based on objectives, lecture notes, handouts, assigned readings, audiovisual material and class discussions. Major examinations will consist of multiple choice, true/false, matching, short answer, and case study questions. No questions will be allowed during exams.

Students are expected to complete examinations as scheduled. Make-up examinations will be given ONLY if the absence is due to illness (confirmed by a physicians' excuse), a death in the immediate family, or at the discretion of the Instructor. All make-up examinations must be taken within two (2) weeks from the scheduled exam date. All examinations will be kept on file by the Instructor. Students may have access to the examination by appointment during the Instructor's office hours. Exams may be reviewed up to two (2) weeks following the exam date. You may not copy, reproduce, distribute or publish any exam questions. A grade of "0" will be recorded for all assignments due on the day of absences unless prior arrangements have been made with the Instructor.

Respondus Lockdown Browser and Respondus Monitor will be used for examinations therefore, a webcam is required to take the test. The student is required to show the testing environment at the beginning of the exam to assure the instructor that it is clear of any study materials. Failure to do so will result in a 10-point exam grade deduction.

## **3. Mandatory Tutoring**

If a student receives a failing grade on any major exam, the student will be required to meet with the course instructor within 2 weeks of the the failed exam.

## **4. Academic Integrity**

It shall be considered a breach of academic integrity (cheating) to use or possess on your body any of the following devices during any examination unless it is required for that examination and approved by the instructor: cell phone, smart watch/watch phone,

laptop, tablet, electronic communication devices (including optical), and earphones connected to or used as electronic communication devices. It may also include the following: plagiarism, falsification and fabrication, abuse of academic materials, complicity in academic dishonesty, and personal misrepresentation.

Use of such devices during an examination will be considered academic dishonesty. The examination will be considered over and the student will receive a zero for the exam.

Students with special needs and/or medical emergencies or situations should communicate with their instructor regarding individual exceptions/provisions. It is the student's responsibility to communicate such needs to the instructor.

**5. Disabilities Statement.** The Americans with Disability Act of 1990 and Section 504, Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. LIT provides reasonable accommodations as defined in the Rehabilitation Act of 1973, Section 504 and the American with Disability Act of 1990, to students with a diagnosed disability. The Special Populations Office is located in the Eagles' Nest Room 129 and helps foster a supportive and inclusive educational environment by maintaining partnerships with faculty and staff, as well as promoting awareness among all members of the Lamar Institute of Technology community.

If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409) 839-2018 or visit the office in Student Services, Eagles' Nest Building. You may also visit the online resource at:

<https://www.lit.edu/student-success/special-populations>

## **6. Student Code of Conduct Statement**

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the *LIT Policies and Procedures*. The *LIT Policies and Procedures* may be accessed at <https://www.lit.edu/information/policies-and-procedures> or obtained in print upon request at the Student Services Office. Please note that the online version of the *LIT Policies and Procedures* supersedes all other versions of the same document.

## **7. Technical Requirements (for Blackboard)**

The latest technical requirements, including hardware, compatible browsers, operating systems, software, Java, etc. can be found online at: [https://help.blackboard.com/en-us/Learn/9.1\\_2014\\_04/Student/015\\_Browser\\_Support/015\\_Browser\\_Support\\_Policy](https://help.blackboard.com/en-us/Learn/9.1_2014_04/Student/015_Browser_Support/015_Browser_Support_Policy). A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of the online technology and resources.

**\*Electronic Devices:**

Electronic devices are a distraction and are not to be used during pre-clinic laboratory sessions. Tape recorders, iPods, games and cell phones will be turned off during these times. If you are expecting an emergency call inform the instructor prior to class, put your phone on vibrate.

- Texting is not allowed at any time during pre-clinic laboratory sessions.
- Any use of electronic devices during an examination will be considered academic dishonesty. The student will receive a zero on the exam and may be subject to dismissal from the program. Discuss any unusual or emergency situations with the instructor prior to the examination or quiz.

## **8. Leaving Class during Lecture**

You should be prepared to remain in class for the entire class period. Any personal business should be taken care of prior to or after class. If a medical problem exists or an emergency occurs please inform the instructor.

## **9. Starfish**

LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record student attendance, raise flags and kudos to express concern or give praise, and you can make an appointment with faculty and staff all through the Starfish home page. You can also login to Blackboard or My LIT and click on the Starfish link to view academic alerts and detailed information. It is the responsibility of the student to pay attention to these emails and information in Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at LIT. For more information click: <https://lit.edu/student-success/starfish>





10. Late Work. Assignments will not be accepted if submitted after the due date.

\*Faculty has the authority to modify the above policies if unusual circumstances mandate a change. Please refer to the Student Handbook for a complete listing of program policies.

**Teaching Methods:**

1. Lecture/Remote
2. Demonstration
3. Class discussion and case analysis
4. Laboratory exercises
5. Individual practice
6. Individual and group assignments
7. Internet assignments
8. Observation and feedback
9. One on one instruction

**Required Texts:**

1. Fundamentals of Periodontal Instrumentation & Advanced Root Instrumentation	<b>Eighth Edition</b>	<b>Jill Nield-Gehrig</b>	<b>LWW/ Wolters Kluwer</b>	<b>ISBN 9781496320209</b>
2. Patient Assessment Tutorials	<b>Fourth Edition</b>	<b>Jill Nield-Gehrig</b>	<b>LWW/ Wolters Kluwer</b>	<b>ISBN 9781496335005</b>
3. Clinical Practice of the Dental Hygienist LCCN2019917179	<b>Thirteenth Edition</b>	<b>Esther Wilkins</b>		

**Online Resources for textbooks**

\*Each student is required to have access to the online resources accompanying the above textbooks

\*Each student will register with **dentalcare.com** for online assignments

**Course Equipment, Supplies, Instruments and other Materials:**

The instruments and other supplies students are required to purchase for this course are listed in the Dental Hygiene Program Student Handbook available on the program's web page.

**Course Requirements:**

Lecture	
Internet Assignments	<ol style="list-style-type: none"> <li>1. The Intra and Extra oral Examinations</li> <li>2. Counseling and treating Bad Breath Patients</li> </ol>
Freshman Research Project Topic Assignment	<ol style="list-style-type: none"> <li>1. Attend a Library Orientation and learn how to use the electronic indices and databases and the interlibrary loan system.</li> <li>2. Freshman Research Project, Topic investigation</li> </ol>
Portfolio	<ol style="list-style-type: none"> <li>1. Set up a portfolio in Weebly</li> </ol>
Examinations	<ol style="list-style-type: none"> <li>1. Five lecture examinations + one Midterm lab practical exam</li> <li>2. One comprehensive final examination</li> <li>3. Dental Charting Exam</li> </ol>
Laboratory	
Skill Evaluations <i>(located in Fundamentals of Periodontal Instrumentation)</i>	<ol style="list-style-type: none"> <li>a. Position</li> <li>b. Positioning and Clock Position</li> <li>c. Instrument Grasp</li> <li>d. Mirror and Finger Rests in Anterior Sextants</li> <li>e. Mirror and Finger Rests in Mandibular Posterior Sextants</li> <li>f. Mirror and Finger Rests in Maxillary Posterior Sextants</li> <li>g. Movement and Orientation to the Tooth Surface</li> <li>h. Adaptation</li> <li>i. Instrumentation Strokes</li> <li>j. Basic Probing Technique</li> <li>k. Explorers</li> <li>l. Angulation and Calculus Removal</li> <li>m. Sickle Scalers</li> <li>n. Universal Curets</li> <li>o. Area-Specific Curets</li> <li>p. Rubber Cup Polishing</li> </ol>
Skill Checklists <i>(located in Patient Assessment Tutorials)</i>	<ol style="list-style-type: none"> <li>a. Medical History</li> <li>b. Pulse and Respiration</li> <li>c. Blood Pressure Assessment</li> <li>d. Head and Neck Examination</li> <li>e. Oral Examination</li> <li>f. Occlusion</li> <li>g. Gingival Description</li> </ol>

**Course Requirements, Continued**

Competency Evaluation (Lab Manual)	a. Pre and Post Operatory Procedures
Written laboratory examination	a. Midterm – Instrument Design and Classification
Patient assessment procedures	a. Medical Dental History b. Head and Neck Examination c. Intraoral Examination d. Periodontal Charting e. Dental charting f. Periodontal assessment
Treatment procedures	a. Calculus removal b. Stain removal c. Dental biofilm removal d. Fluoride application e. Instrument sharpening
Rotations	a. Sterilization (4 hours) b. Assisting (4 hours)
Laboratory Practical Examination	a. Final Skills Assessment

**Evaluation Criteria:**

1. Lecture

You will be required to complete all assignments, and examinations with a final overall average of 75% or greater.

- |    |                      |   |
|----|----------------------|---|
| a. | Grading Scale:       | A= 92-100                               |
|    |                      | B= 83-91                                |
|    |                      | C= 75-82                                |
|    |                      | D= 67-74                                |
|    |                      | F= 66 and below                         |
| b. | Grade Distribution:  |   |
|    | Exam Average         | 60%                                     |
|    | Dental Charting Exam | 10%                                     |
|    | Topic Investigation  | 10%                                     |
|    | Final Exam           | 20%                                     |
| c. | Portfolio            | Acceptable                              |
| d. | Community Service    | 3 hours of acceptable service completed |

2. Laboratory

- a. All Skill Evaluations and Checklists must be satisfactorily completed in order to progress to Introductory Clinic.
- b. Pre and Post Appointment Operatory Procedures Competency Evaluation must be successfully completed.
- c. Written Midterm Exam will be averaged with and carry the same weight as the lecture examinations. You will need to maintain a final average of 75% or more in combined lecture and laboratory grades and complete laboratory requirements in order to progress in the Dental Hygiene Program.
- d. The following assessment procedures will be completed:
  1. Medical/dental history
  2. Extra and intra oral examination
  3. Periodontal assessment
  4. Dental charting
- e. The following treatment procedures will be attempted:
  1. Calculus removal
  2. Stain removal
  3. Biofilm removal
  4. Fluoride treatment
- f. Successful completion of the final practical examination.
- g. Rotations through senior clinic (information in this syllabus)
  1. 4 hours learning how to prepare instruments and operate the sterilization equipment.
  2. 4 hours learning how the clinic functions and assisting the seniors.

**APPENDIX 1**  
**RESEARCH PROJECT**  
**INSTRUCTIONS FOR IDENTIFYING**  
**POTENTIAL TOPICS**

**Preparation for Choosing a Research Project Topic**

Your assignment is to identify 2 subjects for a research project. This project will culminate in an oral presentation to your peers at the end of the spring semester. You will be revising your presentation over the summer months to prepare to present it to members of the professional dental community in the fall. Students are encouraged to also consider presenting their research during Table Clinic Presentations at the annual SCADHA meeting in February. There is also an option to take your research project to the Texas ADA, TDHA meetings the following spring.

1. Identify 2 subjects you would enjoy researching and writing a detailed paper about.
  - The subjects must be narrow in focus not broad.
    - How periodontal disease affects cardiovascular health as opposed to periodontal disease.
  - You need to make sure there is enough easily obtainable information so you have a relatively broad base of knowledge to research.
  - Make sure there is information from unbiased sources available.
    - Companies that produce products always have research that proves their products work. You want to find information from sources unaffiliated with the company to confirm the companies test results
  - The information must be current, published no earlier than 2012.
  - The information **MUST NOT** come from consumer sources.
    - Ladies Home Journal is nice but it is not a professional source.
    - If you have any doubts as to whether your information is from an acceptable source **ASK** before you hand in the information. **YOU WILL NOT BE GIVEN CREDIT FOR CONSUMER INFORMATION.**
2. Identify 4 articles from professional peer reviewed sources (journals or internet) for **EACH** topic with a complete reference page entry according to the **APA** documentation system.
3. Hand in a copy of the most informative article you found for each topic.
4. I expect you to use both the internet and regular library resources for your information.

**What you will hand in:**

- A brief explanation of the topics you have chosen and why you think these would be useful to a practicing dental hygienist or DDS (Paragraph format about 100 to 150 words in length each).
- Four reference page entries, following the APA documentation style, for the journal or internet articles you have found for each topic.
- One printout or copy of the most informative article for each topic.

PRE-CLINICAL DENTAL HYGIENE DHYG 1431			
Research Topics			
LIT Competency	2. Assume responsibility for dental hygiene actions and care based on accepted scientific theories and research as well as the accepted standard of care. 4. Communicate effectively with individuals and groups from diverse populations both verbally and in writing.		
Student		Date	
Topics			
The student, in accordance with the standards set forth by the ADA and the Dental Hygiene Program, has demonstrated the following criteria.		Possible Points	Points Awarded
1	Submitted on time.	1	
2	Topic 1: Explanation of topic includes why the student chose the topic and why information on the topic is important or useful for a practicing dental hygienist or DDS	2	
	Topic 2: Explanation of topic includes why the student chose the topic and why information on the topic is important or useful for a practicing dental hygienist or DDS	2	
3	Topic 1: Student submits four (4) separate articles from peer reviewed journals or appropriate professional web sites	4	
	Topic 2: Student submits four (4) separate articles from peer reviewed journals or appropriate professional web sites	4	
4	Each reference page entry follows the APA format	4	
5	Submitted articles were published no earlier than 2011	4	
6	A copy of one article (the most informative) is submitted for each topic	2	
7	Written explanation has few (less than 3) grammatical errors	2	
Total Points		25	

**APPENDIX 2**  
**GRADE COMPUTATION SHEET**



GRADE COMPUTATION SHEET

Exam Average x .60 = \_\_\_\_\_  
Dental Charting Exam x .10 = \_\_\_\_\_  
Research Topic Investigation x .10 = \_\_\_\_\_  
Final Exam x .20 = \_\_\_\_\_  
  
Add total points \_\_\_\_\_  
  
Final Letter Grade \_\_\_\_\_

Grade Scale:                   A= 92-100  
                                      B= 83-91  
                                      C= 75-82\*  
                                      D= 67-74  
                                      F= 0-66

\* A minimum grade of 75 must be earned to progress in the program.