Midlands Technical College
Clinical Dental Hygiene I: DHG 161
Health Science Department – Dental Hygiene
Spring

Catalog Course Description  This course completes the basic instrumentation instruction; introduces polishing and anticaries therapies; presents periodontal health assessment and introduces the clinical setting for application of dental hygiene skills for patient care.

Prerequisite(s): DH 151
Credit Hours: 4  Total Credits 2  Lec Credits  __  Lab Contact Hrs

Departmental Website: www.midlandstech.edu/dental
D2L Brightspace Login Page: https://elearn.midlandstech.edu

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Class Schedule[s]:

Lecture: Monday and Wednesday

Lab: Weeks 1-10
Tuesday 9:30-11:25 AC331
Wednesday 2:15-4:10 AC334
OR
Tuesday & Thursday 12:15-2:10 AC331
Wednesday 10:10-12:05 AC334

Last 4 Weeks
Tuesday Thursday 7:45 – 10:45 A 331 or 334
OR
Tuesday & Thursday 1:15 - 4:15 A 331 or 334

Textbook(s):
2. Esther M. Wilkins, Clinical Practice of the Dental Hygienist.
5. Pickett and Terezhalmy, *Dental Drug Reference with Clinical Implications*.


**Course Objectives**  Upon completion of this course the student will be able to:

**LECTURE OBJECTIVES:**

1. Describe the correct exploring and probing technique.

2. Differentiate and explain the proper procedure for determining probing depth, attachment level, recession level, and mucogingival involvement.

3. Identify various types of tooth restorations and correctly chart them.

4. Describe the desirable characteristics of a manual toothbrush.

5. Describe and demonstrate correct care of the toothbrush.

6. Compare, contrast, and/or demonstrate the following methods of toothbrushing:
   A. Bass
   B. Modified Stillman's
   C. Charter's
   D. Fone's

7. State the classifications of products as evaluated by the Council on Dental Therapeutics.

8. Select oral hygiene adjuncts needed by the patient to improve his/her oral health, and correctly demonstrate their use to the patient.

9. Name the toothpastes currently approved by the Council on Dental Therapeutics and list basic components.

10. Discuss the use of mouthwash by the dental hygienist in a clinical setting or by the patient at home.

11. Describe the desirable properties (characteristics) of a disclosing agent.

12. List the uses for disclosing agents.

13. List the basic ingredients in mouthwashes, toothpaste, and disclosing agents including the purpose for each and give an example.

14. Compare and contrast the benefits of topical and systemic fluoride.

15. Discuss the different types of fluoride.
16. Classify scalers according to their shape, function and technique, which is employed in using them, differentiating between instruments.

17. Explain the rational for maintaining sharp instruments and demonstrate the sharpening technique.

18. Describe the etiology, clinical signs and treatment for acute gingival conditioning (NUG and periodontal abscess).

19. List and explain the techniques of polishing, including clinical implications and precautions.

20. Define and list terminal goals of polishing procedures.

21. Describe and/or demonstrate the traits of an effective patient educator.

22. Describe the evaluation procedures necessary to maintain a patient's oral health.

23. Define and list objectives of the oral prophylaxis.

24. Determine the frequency for care as well as the necessary procedures to maintain a patient’s oral health.

25. Demonstrate the possession of personal attributes of a caring, empathic, problem-solving individual by performing community service.

26. Understand the importance of considering cultural diversity.

27. Write a thorough Patient Dental Treatment Plan including the Dental Hygiene Treatment Plan.

28. Validate the dental hygienist’s role in modeling wellness by setting a personal wellness goal and tracking progress towards that goal during the semester.

29. Lay the foundation for participating in continuing professional education by attending the student dental hygiene meetings, at least one off campus dental professional meeting, and completing at least 1 CEU on-line.

**CLINIC OBJECTIVES:**

1. Demonstrate knowledge of professional responsibility in regard to personal appearance and cleanliness.

2. Demonstrate the procedures involved in maintaining the aseptic chain in the dental operatory.

3. Demonstrate the patient positioning, which will give optimum patient comfort and operator visibility, and demonstrate proper positioning on a laboratory partner in the clinical setting.

4. Sit and stand in a posture that will help prevent fatigue and maintain mental alertness.

5. List and/or prepare armamentarium for complete tray set-up.

6. Gather and record all information needed for a thoroughly, accurate medical and dental history.
7. Demonstrate proper use of a “Dental Drug Reference” and the PDR.

8. Use the dental mirror, light, and compressed air for optimum vision, reflection and retraction.

9. Perform, by visual inspection and tactile exploration with instruments and digital palpation, an oral inspection in the clinical setting.

10. Utilize the appropriate instruments, proper operator and client positioning, a systematic sequence of inspection and aseptic technique in the demonstration of an oral inspection.

11. Demonstrate and/or describe the steps involved in a systematic examination of the teeth.

12. Categorize and record deviations from normal occlusion such as malalignment of individual teeth, malrelations of groups of teeth, and abnormal facial profiles.

13. Select an appropriate disclosing agent for use during patient education.

14. Describe and/or demonstrate the steps involved in performing the plaque free score.

15. Identify areas in the mouth necessitating the use of auxiliary plaque control aids and correctly demonstrate their use.


17. Determine and demonstrate the most appropriate disease control method/methods for an individual patient.

18. Use the explorer in laboratory or clinical settings to detect and identify irregularities and carious lesions in tooth surfaces, calculus, and cementoenamel junction.

19. Describe and/or demonstrate the correct technique for probing.

20. Insert the periodontal probe using the proper angulation to accurately measure the depth of the sulcus and determine the sulcus outline.

21. Determine recession level, attachment level, and mucogingival involvement.

22. Record accurate PSR scores for patients.

23. Record on the charting form the appropriate details of the patient’s dentition and periodontium.

24. Demonstrate the principles of instrumentation including correct instrument grasp, establishment of secure fulcrum, proper hand motions, and correct stroke pressure, direction, length and use.

25. Select instruments in accordance with their use, taking into consideration the type of deposit, the accessibility of the deposit, the surface topography of the tooth, the characteristics of the free gingiva and the design of the instrument.
26. Demonstrate the ability to hold correctly, apply and activate the prophylaxis angle and handpiece while in clinic or laboratory partners, as well as, effectively demonstrate other auxiliary methods of polishing.

27. Clean and lubricate the prophylaxis angle and handpiece in order to maintain them in optimal working condition and prevent internal transmission of microorganisms.


29. Maintain proper patient records.

30. Take appropriate measures in the event of an emergency.

31. Demonstrate the proper sharpening technique.

32. Maintain sharp instruments.

Course Outcomes and Competencies:

- **Intended Course Outcome #1:**
  The dental hygiene student will be able to demonstrate knowledge about preventive measures for dental hygiene patients.

- **Course Competency (Performance Measure):**
  The dental hygiene student will be able to demonstrate knowledge of learning theory and disease prevention to effectively interact with a patient about different types of toothbrushes and toothbrushing methods, interdental care, and chemotherapeutic agents through satisfactory performance on the Preventive Measures portion of the First Year Competency Examination and related tests.

- **Measurement Instrument and Success Criteria:**
  Students will score at least 75% on the First Year Competency Examination on the section concerning Preventive Measures which includes knowledge of learning theory and disease prevention, types of toothbrushes and toothbrushing methods, interdental care, and chemotherapeutic agents.

  Furthermore, 80% of the students will earn at least an 8 on tests related to learning theory, disease prevention, types of toothbrushes and toothbrushing methods, interdental care and chemotherapeutic agents.

Course Attendance:

(REFER TO ADEP POLICY AND PROCEDURE MANUAL)

Punctual and regular attendance in all classes, laboratories, field trips and other school assignments is the obligation of every student.

1. **CLINIC COURSES:**
   Attendance at every class/lab and clinical session is expected. In the clinic/lab portion of these courses, you are permitted as many absences as the credits allotted for clinic/lab component. (This is computed at a 3:1 ratio) (Therefore for DHG 161, you are allowed absences from lecture and from clinic.)
2. **TARDIES:**

   Student is considered absent if they are not present when class begins.

**Please note:** You are responsible for all material and announcements presented, whether you are present or absent.

**Withdrawal**  Should the maximum allowable absences be exceeded prior to midterm, a "W" will be submitted to the registrar to be recorded on the student's transcript. Should the maximum allowable absences be exceeded after midterm, "W" will be submitted to the registrar if the student was passing the course at the time of withdrawal OR a "WF" will be submitted if the student was failing the course at the time of withdrawal.

**No Shows:** If you register for a course and decide not to attend for any reason, you must complete a drop form and process it through the student Records Office. You will not be automatically purged for non-attendance. If you do not submit a drop form, you will be responsible for course tuition and fees. By not officially dropping the course, you will incur a bill with the college that can only be addressed through the College's Finance Office. The college's refund policy and dates are posted each semester.

Effective Spring 2015, the Student Ombudsman's office will no longer be the initial point of contact for requesting No Shows to be processed. Students who incur a bill must contact the Finance Office.

**Administrative Drop Requests:**  student requesting an Administrative Drop resulting from medical event, death of family member, and other extenuating circumstances experienced while enrolled at Midlands Technical College should be directed to the Student Ombudsman's office. Our policy dictates a request must be made no later than 30 days after the affected term. Supporting documentation is required and must be received before the request can be processed. Once the request form is received along with supporting documentation, it takes approximately three weeks for processing. As a result of an approved Administrative Drop Request, the student may be granted a refund of tuition and fees.

**Military Withdrawal** According to College Procedure 3.10.1, students having to withdraw from college because of Military Deployment (active duty personnel) while enrolled must complete a withdrawal form and submit to the Records Office along with a copy of military orders.

**Disabilities Statement** The staff of Counseling and Career Services works to ensure that all educational programming and services are accessible to otherwise qualified students with disabilities. If you have a concern regarding the accessibility of websites, instructional materials, online courses and other electronic or information technology please contact Counseling and Career Services. It is the student's responsibility to self-disclose as a student with a disability and to request accommodations prior to beginning a program or course. Please contact the staff of Counseling and Career Services at 803-822-350 (AC) or 803-738-7636 (BC) or via email at disability@midlandstech.edu if you have any questions or concerns.

**D2L Brightspace Help:**

**Online Learning Support Help Desk:** Technical questions related to the operation and use of D2L Brightspace can be answered from our Support Help Desk. A response will be provided within one business day.

To login: use your MTC e-mail account username and password.
(Student Username Example: georgeasmith)
(Faculty Username Example: smithg)
**D2L Brightspace Assistance:** Technical questions related to the operation and use of D2L Brightspace can also be answered by leaving a voicemail at (803) 822-3561, or emailing D2LHelp@midlandstech.edu A response will be provided within one business day.

**MyMTC Help** For MyMTC log-in issues please call 803-738-7888.

**Academic Dishonesty** For more information about academic dishonesty, see the Academic Affairs Student Guidelines and Expectations attached.

If you are suspected of cheating, your instructor will inform you. You may explain or refute the allegation. If your instructor still thinks the charges are founded, you will be referred to the Office of the AVP, SDS. Documentation is submitted to the Office of the AVP, SDS, by the instructor. You will then meet with either Dr. Holloway or Mr. Hayden. After the meeting, you will receive a letter with the sanction grade of zero (0) and any other sanctions deemed appropriate. You have the right to file an appeal. Once the hearing and the notice of the right to appeal have been completed, the instructor will be notified to apply the sanction grade of zero (0).

**Course Requirements**

**A. COMPETENCY EXAMINATION:**
The exam will consists of 24 questions total – 2 questions from each subject listed. Subjects that will be included on the Competency Examination are as follows:

A. Pharmacology  
B. Periodontology  
C. Head and Neck Anatomy  
D. Infection Control  
E. Morphology/Histology  
F. Examination Procedures  
G. Instrumentation  
H. Deposits  
I. Disease Control  
J. Radiology  
K. Preventive Measures  
L. Medical Emergencies

The student has only one opportunity to pass this examination during their first year. Failure of this exam will result in a final grade of an “F” for DHG 161. Furthermore the student will not be allowed to continue in DHG 161. The student however may complete the other DHG course work with the exception of DHG 241 if desired.

Should student fail the competency exam, the student may submit written request to re-enter the program the next academic year. The approval of this re-entry request will be dependent on space availability and individual course results. 

Helpful review material for this exam is included Mosby's "Comprehensive Review of Dental Hygiene." Furthermore, individual instructors may give a review for a specific topic if approached by the students.

**B. CONTINUING EDUCATION CREDITS:**
Each student will be required to earn one (2) Continuing Education Units (CEU) during the semester. (One CEU will equal one hour of education.) One unit must be earned by attending CEU class. The second CEU credit must be earned by participating in an on-line CEU class.
C. **STUDENT PROFESSIONAL ORGANIZATION:**
   Attendance at 3 student professional organization meetings (MTC SDHA) is required.

D. **COMMUNITY/HUMAN SERVICE**
   Each student will perform minimum of **hours of community service** which is to be documented by the community served. The student will provide a form for the supervisor to check and then submit the form to the faculty. No more than 3 of these hours may be earned participating in MTC activities unless first approved by Ms. Muthig.

F. **CLINICAL OBSERVATION**
   Each student will be asked to observe second year student while they are in clinic with patients. The first year student will be given a "check-off" list to submit to the faculty. The student should arrive early to watch the second year student set-up his/her unit as well as stay after the appointment to watch the student close down his/her unit.

H. **WELLNESS PROGRAM**
   Each student will be required to establish "Wellness Goal" for this semester. You will need to submit to the faculty your goal as well as your objectives (your means to obtain the goal). Your Wellness Program needs to be monitored weekly and documented on the Wellness Form. The completed form will be turned in at the end of the semester as well as a paragraph explaining what you gained from this experience. This will be counted as an assignment grade.

I. **PROFESSIONAL DEVELOPMENT:**
   Refer to the MTC ADEP Policy and Procedure Manual.

**Course Grading:**

**EVALUATION AND GRADING**

1. Satisfactory completion of all assignments is required within the given time frame. **Any late assignment will have points deducted.** If any of the requirements for the course are not turned by the last day of classes a grade of “I” will be assigned and a PSCI given for “too little accomplished in given time frame” as stated in the ADEP Policy and Procedure Handbook.

2. A score of 80 is required for all clinical proficiencies before the student may advance to the next instrument. If a grade of 80 is not achieved, the student must retest and when successful will earn the grade of 80. A student may not take more than retakes on clinical proficiency.

3. A grade of 75 MUST be scored on all major examinations or tests. If grade of 7 is not achieved, the student must take retest scoring at least 75. Furthermore, for each re-test given, a Professional Standard Counseling Item will be issued with the appropriate points deducted from the Professionalism Grade. The score of the original test is maintained to be averaged in to the student's final grade.

5. A average of 75 o all tests for the semester must be maintained.

6. A passing grade of 7 must be scored o the final written examination Only one retest may be taken. The original exam grade, however, will be used to calculate the class average.
6. **Each student must have passing grade (75%) in both the lecture and the clinical/lab portion of the course** before averaging the grade in order to continue in the program. Even if the averaged grade is passing, the student must have a 75 in each section to be able to progress to the next DHG course. The average for each portion will be based on the percentage established in the course outline. If a student should fail either the lecture or clinical portion of the course, the course grade will be an "F".

7. **REMEDIATION:** Faculty will communicate individually with students deemed needing remediation and will provide additional supervision and learning experiences. Time is also available on Monday and Friday afternoons if needed. If students determine they would like more practice, they may also schedule additional clinical time by speaking with the faculty member.

**Grading Scale**

**Written:** (65%)
- Tests: 20%
- Assignments, Quizzes, Professionalism: 5%
- Final Exam: 20%
- Competency Examination: 20%

**Clinic:** (35%)
- Professionalism and Participation: 3%
- Practicals: 15%
- Patient Assessment Grades: 10%
- Assignments & Quizzes: 7%

**Grading Scale:**
- 92-100: A
- 84-91: B
- 75-83: C
- 75 and below: F

**Special Procedures:**
A. **PERFORMANCE STANDARD COUNSELING:**
   Refer to the MTC ADEP Policy and Procedure Manual.
B. **CLINIC:**
   Clinical labs are scheduled for a two or three hour periods of time. Students will work on student partners to learn the remaining of the instruments.

C. **CLINIC, PRECLINIC AND LAB ATTIRE**
   *(Refer to ADEP Policy & Procedure Manual)*
   Proper attire is required for all Clinics, Preclinics and Lectures.

D. **COURTESY CALL or NOTIFICATION**
   Courtesy notification (phone call, text, e-mail) is **required** if you are absent so your instructor will know. Also, if the absence occurs in clinic, it is important to allow enough time for the patient coordinator to reappoint your patient. You should also contact your patient to let them know that the appointment needs to be cancelled. The clinic numbers are:

822-3450 or 822-3439 or 822-3456
E. TESTING PROCEDURES:
   All book bags and purses will be placed in the front of the room during a test that is administered in the classroom. The student must also use # pencil (non-mechanical) for the test/quiz unless instructed otherwise by your faculty.

   This semester most of the tests will be administered in the MTC Assessment Center. The student will have approximately 7 days to complete the test. The dates are included in your course calendar. The Assessment Center is located in the Student Center Room 262.

F. DESIRE 2 LEARN:
   Students will need to check their Desire 2 Learn (D2L) account daily for updated class assignments or announcements. PowerPoint presentations for each class will be posted prior to class.

Classroom Rules/Other:
   Refer to the Midlands Technical College Student Handbook, Classroom Conduct as well as The Student Code for Midlands Technical College: Classroom Behavior.

   Therefore the class rules include:
   Be on time to class
   Be respectful of others
      No sleeping in class
      If you sleep for more than 10 minutes, the student will be counted tardy. If the student sleeps for more than ¼ of the class, the student will be marked absent.
      If the student habitually sleeps in class, the faculty can dismiss the student from class and the student will be counted absent.
      PSCI will be issued to the student
   Be prepared for class
   Practice phone etiquette
      All phones must be turned off or to vibrate during class. Phones are to be placed o the corner of your desk or in your book bag. Phones that are used during class will be confiscated by the faculty member and returned at the end of class.
      No phones are allowed in the clinic. All phones should be locked in the student’s locker.
      If extenuating circumstances exist, please see your faculty member prior to the start of class. Should a student violate this policy more than once, PSCI will be issued.

“Professionalism in the Use of Social Media”: MTC Health Science Policy Statement

   Health Science students are responsible for their actions on-line and may be dismissed from their program should the content posted breach rules of patient privacy/confidentiality or professional behavior.