

**DH 85 Course Outline as of Spring 2001****CATALOG INFORMATION**

Dept and Nbr: DH 85

Title: ADV PERIO DEN HYG CARE

Full Title: Advanced Periodontal Dental Hygiene Care

Last Reviewed: 9/9/2024

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	2.00	Lecture Scheduled	2.00	17.5	Lecture Scheduled	35.00
Minimum	2.00	Lab Scheduled	0	17.5	Lab Scheduled	0
		Contact DHR	0		Contact DHR	0
		Contact Total	2.00		Contact Total	35.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 70.00

Total Student Learning Hours: 105.00

Title 5 Category: AA Degree Applicable

Grading: Grade Only

Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP

Also Listed As:

Formerly:

**Catalog Description:**

Study of advanced principles of clinical dental hygiene practice; including advanced principles of instrumentation, soft tissue (gingival) curettage, use of ultrasonic scalers, dental hygiene diagnosis, continued classification of the periodontal diseases, and dental hygiene treatment planning of periodontal patients. The principles of chemical and preventive therapy, and pharmacological therapies will be addressed, prevailing periodontal theories will be explored in the context of dental hygiene care on simulated patient presentations.

**Prerequisites/Corequisites:**

Course Completion of DH 79

**Recommended Preparation:****Limits on Enrollment:****Schedule of Classes Information:**

Description: Study of advanced principles of clinical dental hygiene practice; including advanced principles of instrumentation, soft tissue (gingival) curettage, use of ultrasonic scalers, dental hygiene diagnosis, continued classification of the periodontal diseases, and dental hygiene

treatment planning of periodontal patients. (Grade Only)

Prerequisites/Corequisites: Course Completion of DH 79

Recommended:

Limits on Enrollment:

Transfer Credit: CSU;

Repeatability: Two Repeats if Grade was D, F, NC, or NP

## **ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:**

<b>AS Degree:</b>	<b>Area</b>	Effective:	Inactive:
<b>CSU GE:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>IGETC:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>CSU Transfer:</b>	Transferable	Effective: Spring 2001	Inactive:
<b>UC Transfer:</b>		Effective:	Inactive:

**CID:**

**Certificate/Major Applicable:**

Certificate Applicable Course

## **COURSE CONTENT**

### **Outcomes and Objectives:**

1. Apply current clinical diagnostics to new situations used to identify the periodontal diseases.
2. Apply clinical diagnostic findings to formulate a dental hygiene assessment of the periodontal condition with simulated cases.
3. Formulate dental hygiene treatment plans for a variety of the periodontal diseases including preventive and therapeutic considerations; collaborative aspects of therapy; adjunct therapy; assessment of treatment outcomes; and maintenance using simulated cases.
4. Apply appropriate diagnostic criteria to classify the periodontal diseases using simulated cases.
5. Incorporate the prevailing theories about the etiology of the periodontal diseases into clinical communication, diagnostic judgments and clinical care. Compare and contrast conflicting theories regarding the etiology of the periodontal diseases. Analyze specificity theory and discuss how this theory affects periodontal diagnosis and therapy.
6. Incorporate and use the prevailing theories about periodontal disease progression in each of the known periodontal diseases. Compare and contrast chronic progressive theory to exacerbation/remission theory.
7. Discuss the burst theory and the rationale behind the theory. Understand how this theory is used in the application of periodontal assessments and therapy.
8. Describe the biologic basis for scaling and root planing. Use acquired knowledge in periodontal/dental hygiene treatment planning

- and in decisions about treatment modalities.
9. Anticipate post treatment complications and mediating factors to minimize these situations.
  10. Discuss the refocus of periodontal therapy from resective to regenerative.
  11. Discuss the renewed emphasis on preventive and maintenance phases of therapy.
  12. Describe advanced instrumentation skills and the relation of these skills to effective calculus detection and removal.
  13. Relate instrument design to technique and function.
  14. Discuss effective instrumentation procedures for all instruments, including those instruments introduced in this course.
  15. Identify a wide variety of instruments used in initial periodontal therapy and demonstrate when each instrument may or may not be indicated.
  16. Demonstrate on a typodont, alternative fulcrums which include intraoral finger-on finger rest, intraoral opposite-arch reinforced finger rest, extra oral fulcrums.
  17. Correlate root morphology and selection of specific instruments for adaptation in furcations and root concavities.
  18. Demonstrate an understanding and application of the differences of lateral pressure, fulcrum pressure, instrument adaptation and angulation between scaling, root planing and debridement procedures.
  19. Discuss the limitations of instrumentation. With simulated patients make accurate decisions when conditions exist which may limit nonsurgical approaches to treatment.
  20. Recognize individual patient situations when ultrasonic scaling would be most effective.
  21. State the indications and contraindications for ultrasonic instrumentation.
  22. Describe the advantages and disadvantages of ultrasonic scaling.
  23. Describe how the ultrasonic scaling instrument removes deposits.
  24. Demonstrate the correct principles of ultrasonic scaling to effectively remove stain, calculus and faulty overhanging restorations.
  25. Recognize the different types of ultrasonic/sonic devices currently available.
  26. Recognize the role (strengths and limitations of ultrasonic scaling in gingival curettage and root planing).
  27. Identify the performance criteria which describe equipment preparation, patient-operator positions, grasp, fulcrum, adaptation, stroke and technique evaluation associate with ultrasonic instrumentation.
  28. Describe research findings related to effectiveness, tissue response, tooth structure smoothness and safety precautions when ultrasonic instruments are used.
  29. Explain the rationale/justification for gingival curettage.
  30. Discuss effective treatment planning for gingival curettage procedures based on individual patient conditions.
  31. Identify when gingival curettage may or may not be indicated in periodontal therapy.

32. Discuss how the need for curettage and description of the procedure could be communicated to a patient.
33. Demonstrate correct chart entries for gingival curettage procedures including administration of local anesthesia.
34. Determine the need for curettage, accurately describe the anesthesia to be administered and describe the curettage procedure including the armamentarium to be used in simulated case studies.
35. Relate the basic principles of instrument sharpening to instrument design regardless of the technique being used.
36. Identify why instrument recontouring might be necessary to restore original instrument contour.
37. Recognize own skills and areas of needed improvement.
38. Discuss the prevailing theories related to root sensitivity.
39. Identify current products, their mechanisms of action and efficacy in treating root surfaces.
40. Identify various techniques in desensitization in clinical practice.
41. Demonstrate correct application of the most common desensitizing agents.
42. Recognize the difference between home application and office applied desensitizing agents.
43. Plan a treatment for desensitization appropriately by applying didactic information to clinical practice in simulated cases.
44. Explain efficacy of lasers on soft and hard tissue and the role of lasers in periodontics.
45. Describe the role of the dental hygienist in the maintenance of dental implants.

### **Topics and Scope:**

- A. Ultrasonics
- B. Soft tissue curettage
- C. Diagnostics - traditional and modern.
- D. Classification of the periodontal diseases.
  1. Gingival Diseases
  2. Diseases of the periodontal attachment
- E. Advanced principles of instrumentation
- F. Advanced principles of instrument sharpening.
- G. Instrument manufacture and design.
- H. Chemical therapeutics
  1. Antimicrobials (Chlorhexidine, oxygenating agents, etc.)
  2. Antimicrobial delivery systems (oral irrigation)
  3. Fluorides for root decay
  4. Fluorides and other products for root sensitivity
  5. Antibiotics
- I. Referral - the collaborative process, rationale, how to refer effectively, what to expect.
- J. New technologies
  1. Implants
  2. Lasers
  3. NSAIDS and tetracyclines as immunologically based therapy
  4. Regenerative procedures.

## Assignment:

Case Studies  
Research Paper

### Methods of Evaluation/Basis of Grade:

**Writing:** Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Reading reports, Lab reports, Term papers, Research paper

Writing  
5 - 40%

**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Homework problems, Quizzes, Exams, skills

Problem solving  
10 - 80%

**Skill Demonstrations:** All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Class performances, Field work, Performance exams

Skill Demonstrations  
5 - 35%

**Exams:** All forms of formal testing, other than skill performance exams.

Multiple choice, True/false, Matching items, Completion, fill in

Exams  
5 - 40%

**Other:** Includes any assessment tools that do not logically fit into the above categories.

Professionalism: Criteria used to evaluate on file

Other Category  
5 - 25%

### Representative Textbooks and Materials:

Dental Hygiene Theory & Practice. Darby, M. and Walsh, M. WB Saunders, Philadelphia, 1996

Periodontal Instrumentation, Pattison, A. and Pattison, G., Norwalk: Appleton and Lange, 1992

Clinical Practice of the Dental Hygienist 7th Ed.. Wilkins, E.M., Malvern: Williams & Wilkins, 1990.

SUPPLEMENTARY TEXTS: Medical Emergencies in the Dental Office, 4th Ed., St. Louis, CV Mosby, 1993