

MARTIN COMMUNITY COLLEGE
COURSE SYLLABUS
Semester/Year: Spring 2011

COURSE NUMBER: DEN 104 (5W1)

INSTRUCTOR: Lynn Overman
OFFICE NO: Building 4, Room 23B

COURSE TITLE: Dental Health

OFFICE/VIRTUAL HOURS: M-8-10, 11-2, T-OJT, W-8-2, Thur-OJT, Fri- 8-11, 12-1

CREDIT HOURS: 3

CONTACT HRS/WK: 4 (2 Class, 2 Lab)

PHONE NO: 252-789-0298

PREREQUISITES: DEN 101, DEN 111, ENG 090, MAT 070, RED 090

FAX: 252-792-0826

COREQUISITES: DEN 106

E-MAIL: loverman@martincc.edu

COURSE DESCRIPTION:

This course covers the study of preventive dentistry to prepare dental assisting students for the role of dental health educator. Topics include etiology of dental diseases, preventive procedures, and patient education theory and practice. Upon completion, students should be able to demonstrate proficiency in patient counseling and oral health instruction in private practice or public health settings.

PROGRAM LEARNING OUTCOMES:

1. Demonstrate appropriate dental assisting techniques and skills for assisting in a dental office.
2. Perform with accuracy clinical examinations and radiographic and laboratory procedures using appropriate chairside procedures and infection control.
3. Explain chairside procedures, infection control protocol, and radiographic procedures.

COURSE LEARNING OUTCOMES:

1. Explain the etiology and impact of dental diseases.
2. Explain and demonstrate preventive strategies.
3. Plan effective patient oral health education programs.

LEARNING OBJECTIVES LECTURE:

Upon completion of this course the student will be able to demonstrate proficiency in these preventive dentistry topics:	WEEK ALLOCATED	TOTAL TIME ALLOCATED
1. Identify the levels of preventive dentistry and describe effects of dental plaque.	Weeks 1, 2	
2. Explain the carious process.	Week 3	
3. Explain the periodontal disease process and the role of dental plaque.	Week 4	
4. Explain the importance of dental sealants.	Week 5	
5. Determine appropriate self care oral hygiene techniques and products.	Weeks 6-8	
6. Recognize the importance of fluoride in water and topical treatments.	Week 9	
7. Recognize causes and implications of oral cancer, trauma, and tobacco use.	Weeks 10-12	
8. Provide advice to patients on nutrition, diet and the impact of sugar on oral health.	Weeks 13 & 14	
9. Describe dental health education theories and promotion and public health dental concepts; recall highlights of treating special populations.	Weeks 15 & 16	

LEARNING OBJECTIVES LABORATORY:

Upon completion of this course the student will be able to demonstrate proficiency in these clinical dental assisting procedures:	WEEK ALLOCATED	TOTAL TIME ALLOCATED
1. Trim study models to prepare students for use of models in case presentation and education.	Weeks 1-4	
2. Apply dental sealants on selected tooth surfaces.	Week 5	
3. Demonstrate use of toothbrushes and other oral physiotherapy aids.	Weeks 6-8	
4. Apply various types of topical fluoride treatments.	Week 9	
5. Demonstrate oral cancer screening techniques, review tobacco cessation aids, and remove stain with coronal polishing.	Weeks 10-12	
6. Provide nutritional counseling and diet recommendations for optimal oral health.	Weeks 13 & 14	
7. Prepare dental health educational presentations.	Week 15, 16	

LEARNING EXPERIENCES EVALUATION/COMPETENCY PROCEDURE

1. The student submits a Learning Experience Report (see addendum A) after completing each learning experience.
2. The student and Dental Assistant Director review each learning experience report to assess the student's knowledge level.
3. The Dental Assistant Director documents the student's knowledge level using a 1-4 scale (see Evaluation Scale below).
4. The student demonstrates the learning experience to show proficiency level to the Dental Assistant Director.
5. The Dental Assistant Director documents the student's proficiency on the 1-4 scale.
6. The student and Dental Assistant Director sign and date the learning experience evaluation form using ink.

LEARNING EXPERIENCE EVALUATION/COMPETENCY SCALE

- 1 Student demonstrates excellent knowledge and skills and can teach other students
- 2 Student demonstrates excellent knowledge and skills
- 3 Student demonstrates expected knowledge and skills
- 4 Student fails to demonstrates expected knowledge and skills

ASSESSMENT INSTRUMENTS:

- Learning Experience Reports and other written assignments
- Formal and informal observations by the Dental Assistant Director
- Group and individual demonstrations and/or presentations
- Group and individual discussion and work sheets
- Attendance, assignments, and other records

REQUIRED TEXTBOOKS: Harris, N. & Garcia-Godoy, F. (2003) *Primary preventive dentistry*. Upper Saddle River, NJ: Pearson Prentice Hall.

SUPPLEMENTAL RESOURCES: DEN 102 Course Pack compiled by Instructor

LEARNING/TEACHING METHODS:

1. Lecture
2. Class discussion

3. Slides
4. Proficiencies
5. Assigned Reading
6. Outside Reading Assignments

ASSESSMENTS/METHODS OF EVALUATION:

- | | |
|--|-----|
| 1. Tests | 40% |
| 2. Quizzes, Homework, Outside Reading Assignments | 10% |
| 3. Final Exam | 10% |
| 4. Lab Proficiencies | 30% |
| 5. Class participation/ Professionalism/ Bulletin Boards | 10% |

GRADING POLICY:

100-93	A
92-85	B
84-77	C
76-70	D
69-below	F

COURSE OUTLINE:

**DENTAL HEALTH EDUCATION
UNIT CONTENT
ETIOLOGY OF DENTAL DISEASES**

ETIOLOGY OF DENTAL DISEASES

- A. Plaque
 1. Formation
 2. Detection
 3. Removal

- B. Calculus
 1. Composition
 2. Detection
 3. Methods of removal

**DENTAL HEALTH EDUCATION
SPECIFIC OBJECTIVES
ETIOLOGY OF DENTAL DISEASES**

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

1. Discuss why it is essential for the dental health educator to have thorough knowledge of the cause of dental disease.
2. Name bacteria keenly responsible for the cause of dental decay and periodontitis.
3. Explain the four factors and their role in the development of dental disease
4. Describe the disease process beginning with the acquired pellicle.
5. List and describe the significance of the systemic and iatrogenic factors that influence the development of periodontitis.

**DENTAL HEALTH EDUCATION
UNIT CONTENT**

PREVENTION OF DENTAL DISEASE

Preventive of Dental Disease

- A. Preventive treatment planning
 - 1. Assessment of oral health needs
 - 2. Home care instruction
- B. Basic oral physiotherapy aids
 - 1. Toothbrushing
 - 2. Dentifrices
 - 3. Dental floss
 - 4. Disclosing agents
- C. Auxiliary oral physiotherapy
 - 1. Flossing aids
 - 2. Oral irrigators
 - 3. Mechanical toothbrushes
 - 4. Mouth rinses
 - 5. Miscellaneous aids
- D. Sealants
 - 1. Indications/contraindications
 - 2. Composition of material
- E. Selective coronal polishing
 - 1. Legal aspects
 - 2. Indications/contraindications
 - 3. polishing agents
 - 4. Extrinsic/intrinsic stains
 - 5. Desensitizing agents
- F. Fluoride
 - 1. Systemic
 - 2. Topical

Outline of Instruction:

This schedule is tentative and subject to change at the instructor's discretion.

Week 1	Chapter 1	Introduction to Primary Preventive Dentistry
Week 2	Chapter 2	Dental Plaque
Week 3	Chapter 3	Cariious Lesions
Week 4	Chapter 4	Periodontal Diseases
Week 5	Chapter 13	Dental Sealants
Week 6	Chapter 8	Toothbrushes and Toothbrushing Methods
Week 7	Chapter 9	Dentifrices, Mouthrinses, and Chewing Gums
Week 8	Chapter 10	Self-Care Measures to Supplement Toothbrushing
Week 9	Chapters 11& 12	Community Water Fluoridation & Topical Fluoride Therapy
Week 10	Chapter 18	Tobacco Cessation
Week 11	Chapter 5	Oral Cancer
Week 12	Chapters 6 & 19	Dental Trauma & Athletic Mouthguards
Week 13	Chapter 14	Nutrition, Diet, and Associated Oral Conditions

Week 14	Chapter 15	Sugar and Other Sweeteners
Week 15	Chapters 17 & 21	Health Education and Promotion Theories & Public Health Programs
Week 16	Chapters 23 & 25	Pediatrics & Geriatrics
		Final Exam

STUDENT ATTENDANCE POLICY:

Attendance is required at all lecture and lab sessions. The absentee policy in the Dental Department is different from the general college policy. Absences cannot exceed 10% of the total lecture hours nor 10% of the total lab hours. Therefore, if absences exceed 10% in either portion of the course, the student will be dropped from the course and must immediately withdraw from the dental assisting program. It is the student's responsibility to keep a personal record of his/her absence status.

Absences cannot be made up; however, it is the student's responsibility to make up all work missed, obtain any handouts given and learn of any announce future assignments or test. If an absence results in a missed test, a make-up test will be given to the student on the first day of return to school. Failure to take the missed test upon the first day of return to school will result in a ten-point reduction of the test grade.

If a lab session is missed, the missed lab procedure(s) must be made up at a time decided by the instructor. If the session requires the use of a student lab partners, the student making up the lab is responsible for getting a partner to work with during this make-up time.

Three tardies will equal one absence. If a student misses 15 minutes or more of a lecture or lab hour, it will be counted as an absence.

Request for Excused Absences for Religious Observances

In compliance with G.S. 115D-5, MCC policy permits a student to be excused, with the opportunity to make-up any test or other missed work, a minimum of two excused absences per academic year for religious observances required by the student's faith. The policy limits the excused absences to a maximum of two days per academic year.

Students who wish to be excused for a Religious Observance required by their faith must complete and submit a request form to the instructor(s) prior to the census date of each class. The Request for Excused Absences for Religious Observances form can be picked up from Student services. This does not supersede the college-wide attendance policy as outline in the college catalog or syllabus, with the exception of a reasonable accommodation for the make-up of missed course work.

COURSE POLICIES:

Academic Integrity Statement

See MCC Dental Assisting Student Handbook for the MCC Code of Dental Assisting Policy. Any student caught violating this Code (i.e. cheating, plagiarizing, or other dishonorable acts), in academic work is subject to dismissal from the program or disciplinary action.

Conduct:

Behavior and appearance at all times in classroom and laboratory should be those of a professional.

Conferences:

Students are welcome to meet with the instructor during a scheduled appointment time to discuss their academic performance or seek additional help.

Safety:

Students must follow safety requirements. Students who ignore or violate safety requirements will be subject to discipline, which may include dismissal from the course.

Students are required to wear the following for safety reasons during the clinic session and rotations:

- a. safety glasses
- b. masks
- c. gloves
- d. dosimeter (if available)
- e. scrubs
- f. lab coat or disposable gown

EXPOSURE POLICY:

In event of an occupational exposure to blood borne pathogens, the student will immediately report the incident to the affiliating dentist during clinical rotations. The student or affiliating dentist or staff **MUST** immediately report the incident to the Dental Assisting faculty at 252-792-1521 ext. 299. The Dental Assisting faculty will follow ASHA standards in counseling the exposed individual regarding their rights and will complete required documentation and follow-up. The complete Post-Exposure Protocol may be found in the Infection Control Manual, 2000.

See your Dental Assisting Handbook for additional information

Note: The information in this syllabus is, to the best of my knowledge, correct and complete. However, changes may be necessary and so this is not a contract and is not “written in stone”. The instructor reserves the right to make changes and it is your responsibility to keep up with those changes.

If you cannot reach your instructor, you may contact Dr. Phyllis Broughton, Dean of Academic Affairs and Student Services at 252-789-0246 or 252-789-0247 by phone, pbroughton@martincc.edu by e-mail, or in person at her office in Building 2, Room 33.

Access the Martin Community College Career Catalog for policies and curriculum requirements, please go online to www.martincc.edu.

If you have a need for a disability-related accommodation, please notify the Student Services counselor at (252) 789-0293.

**Martin Community College
Dental Health Education DEN 104**

Student: _____

Instructor: _____

Date: _____

PROFICIENCY: Light-Cured Pit and Fissure Sealants
ARMAMENTARIUM

Cotton Rolls (Holders Optional)	Dri-Angles
Appropriate barriers	Dappen dish with pumice
Mouth Mirror	Explorer
Floss	Articulating paper and holder
Light curing unit with shield	Air/water syringe tips
Saliva ejector	2x2 Gauze
UltraSeal XT Plus Kit	HVE Tip
Cotton pliers	Handpiece with burs

Learning Experience Evaluation/Competency:
(Completed by the Dental Assistant Director)

Evaluation Scale:

- 1 Student demonstrates excellent knowledge and skills and can teach other students
- 2 Student demonstrates excellent knowledge and skills
- 3 Student demonstrates expected knowledge and skills
- 4 Student fails to demonstrates expected knowledge and skills

PROCEDURE	Knowledge Level (Rating 1-4)	Demonstration (Rating 1-4)
1. Assemble armamentarium.		
2. Seat the patient.		
3. Explain the procedure to the patient.		
4. Perform thorough prophylaxis on the surface(s) to be sealed using a prophylaxis cup or brush and pumice.		
5. Rinse thoroughly with water and use explorer to ensure surface is free of all debris.		
6. Isolate teeth to be sealed using cotton rolls and Dri-Angle.		
7. Dry teeth with compressed air for approximately 15		

seconds.		
8. With appropriate applicator, apply etching gel (tooth conditioner) using a gentle wiping motion to the entire occlusal surface (15 seconds for Ultraseal XT Plus (check manufacturer's instructions).		
9. While evacuating, rinse thoroughly with water for 15 seconds.		
10. Re-isolate the teeth with dry cotton rolls and new Dri-Aangles.		

PROCEDURE	Knowledge Level (Rating 1-4)	Demonstration (Rating 1-4)
11. Dry tooth for 10-15 seconds.		
12. Inspect tooth for dull, chalky, and frosted surface. (Repeat etching for 10 seconds if surface does not appear chalky. Then, wash, dry, and re-isolate.) Place Prime-Dri for 5 seconds and gently blow-dry with A/W tip.		
13. Using an applicator, apply sealant to tooth surface with a smooth, continuous stroke. Apply sealant along length of fissure and halfway up inclined planes. Do not apply in excess or allow sealant to flow into contact area.		
14. Cure the sealant with the polymerization light held 1-2 mm from the tooth for 20 seconds. An amber shield should be used to protect the eyes.		
15. After the sealant has set, examine the entire surface for hardness and voids by moving an explorer lightly over area.		
16. Remove isolation materials. Rinse the patient's mouth again.		
17. Check occlusion for any high spots. Verbally inform instructor, if sealant is high.		
18. Use a damp cotton rolls or 2x2 gauze square to remove any excess film or blue marks.		
19. Clean work area.		
20. Follow all safety guidelines.		
21. Student demonstrates professionalism throughout procedure.		
22. Professional Responsibilities:		
a. Punctuality		
b. Appearance		
c. Communication		
d. Attitude		

Signature:

Student: _____ Date: _____

Dental Assistant Director: _____ Date: _____