COURSE DESCRIPTION

This course is a laboratory course introducing advanced digital radiographic techniques, the intraoral camera, periodontal probing and dental charting software and other clinical assessment tools. These skills will enhance the student’s ability to interpret intraoral conditions that will enable them to provide comprehensive patient treatment.

COURSE RATIONALE

This course introduces the fundamentals of advanced radiographic and clinical assessment tools to the student. Through the introduction of these advanced tools the student will be prepared to utilize new dental technologies in the workplace.

MDC LEARNING OUTCOMES

This course provides intentional learning experiences for the following Miami Dade College Learning Outcomes:

- Communication
- Social Responsibility
- Numbers / Data
- Ethical issues
- Critical Thinking
- Computer / Technology Usage
- Information Literacy
- Aesthetic / Creative Activities
- Cultural / Global Perspective
- Environmental Responsibility

CREDITS

One (1)

DAYS/HOURS

<table>
<thead>
<tr>
<th>Days</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>Mondays</td>
<td>1:00 pm – 2:50 pm</td>
<td>Clinic A</td>
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<td></td>
<td>3:00 pm – 4:50 pm</td>
<td>Clinic B</td>
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<tr>
<td>Tuesdays</td>
<td>1:00 pm – 2:50 pm</td>
<td>Clinic E</td>
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<tr>
<td></td>
<td>3:00 pm – 4:50 pm</td>
<td>Clinic F</td>
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<tr>
<td>Wednesdays</td>
<td>1:00 pm – 2:50 pm</td>
<td>Clinic C</td>
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<td>3:00 pm – 4:50 pm</td>
<td>Clinic D</td>
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<tr>
<td>Thursdays</td>
<td>1:00 pm – 2:50 pm</td>
<td>Clinic G</td>
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<tr>
<td></td>
<td>3:00 pm – 4:50 pm</td>
<td>Clinic H</td>
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COORDINATOR INFORMATION

LaKisha Moss  Office: 2253  Phone: 305-237-4274  e- mail: lmoss@mdc.edu
BlackBerry Messenger pin - 20FDCF2F

OFFICE HOURS

See your course instructor to arrange a mutually convenient time for an appointment.

STUDENT RESPONSIBILITIES

1. It is the responsibility of the student to complete all course pre and co-
   requisites.
2. It is the responsibility of the student to adhere to the Department of Dental
   Hygiene’s Affective Objectives.
3. It is the responsibility of the student to secure all make up work.
4. Miami Dade College complies with the American with Disabilities Act and
   Section 504 of the Rehabilitation act. Students with documented disabilities
   should contact the Campus ACCESS office for information on appropriate
   policies and procedures for obtaining assistance. No retroactive
   accommodations can be provided. The ACCESS office is located in room #
   1345-1 at 305 237-4048. Additional information can be obtained at
   www.mdc.edu/medical/studentservices/access. It is the student’s responsibility
   to notify the instructor during the first week of the semester to discuss
   accommodations that will be provided.

METHODOLOGY

Laboratory sessions providing demonstrations and practical applications of various
concepts and techniques on advanced radiographic and clinical assessment tools.

TEXTBOOK

Department of Dental Hygiene, Clinic Manual, 2009

EVALUATIONS METHODS

At the end of each module, students will complete a performance evaluation demonstrating
proficiency and knowledge of the technological tool.

COURSE REQUIREMENTS AND EVALUATION

- Olympus Dine Digital Camera Performance Exam 20%
- Softdent Charting Software Performance Exam 20%
- Schick Intraoral Camera Performance Exam 20%
- Digital Radiography Performance Exam 20%
- Air Polishing Performance Exam 100%
In accordance with program policy, letter grades will be assigned as follows:

- A = 100-90
- B = 89-80
- C = 79-75
- F = below 75

**ATTENDANCE**

Students are expected to attend all class sessions. Students are expected to call the instructor in the event of an absence. Students will be expected to make up any class sessions that are missed.

<table>
<thead>
<tr>
<th>WEEK OF:</th>
<th>COURSE CONTENT</th>
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</table>
| May 10   | Module 1
        | Digital Radiography |
| May 17   | Pages 115 – 117
        | Digital Radiography Continued |
| May 24   | Performance Exam - Digital Radiography |
| May 31   | Air Polisher |
| June 7   | Module 2
        | Air Polisher Continued |
| June 14  | Pages 10 – 12
        | Performance Exam – Air Polisher |
| June 21  | Module 3
        | Digital Extraoral Camera |
| June 28  | Pages 201 – 204
        | Performance Exam – Digital Extraoral Camera |
| July 5   | Module 4
        | Softdent Charting Software |
| July 12  | Pages 222 - 224
        | Performance Exam – Softdent Charting |
| July 19  | Module 5
        | Digital Intraoral Camera |
| July 26  | Pages 205 – 206
        | Performance Exam – Digital Intraoral Camera |

**Monday, May 31th No School** That week: Monday/Wednesday class will be on Wed. June 2nd
Tuesday/Thursday class will be on Tues. June 1st
COURSE COMPETENCIES

Competency 1  The student will demonstrate the knowledge, comprehension and application of using the air polisher by:

1. Explaining the purpose for utilizing the air polisher.
2. Properly assembling the air polisher according to manufacturer directions.
3. Properly preparing patient for procedure.
4. Appropriately disassembling the air polisher according to manufacturer directions.
5. Demonstrating the proper infection control protocol for the air polisher.

Competency 2  The student will demonstrate the knowledge, comprehension and application of a digital imaging system using the Schick CDR unit to provide a radiographic series by:

1. Defining Charged-Coupled Device (CDR).
2. Identifying the components of the Schick CDR unit.
3. Demonstrating the proper infection control protocol for digital radiography.
4. Demonstrating the proper placement of the barrier sensor using the Rinn XCP equipment.
5. Operating the x-ray control panel using the appropriate exposure.
6. Identifying the menu commands for CDR for Windows.
7. Identifying the functions of the CDR command functions.
8. Demonstrating the operating procedures for CDR for Windows, including the following operations:
   a. Managing files
   b. Selecting a series
   c. Editing data
   d. Saving data
   e. Printing data
9. Demonstrate taking a bitewing series on DXXTR.

Competency 3  The student will demonstrate the knowledge, comprehension, and application of obtaining a photographic record of the patient’s oral health condition using a digital camera by:

1. Explaining the purpose of using a digital camera.
2. Demonstrating the proper infection control protocol for the digital camera.
3. Locating and describing the purpose of the components of the digital camera.
4. Identifying the various oral views.
5. Describing the patient, retractor, mirror and camera lens position for each view.
6. Selecting the correct power setting, mirror, retractor and patient position for each view described. Exposing a photograph which meets the acceptable standards for a pre-selected view.
7. Downloading a photograph into a shared folder in Windows.
8. Naming the file and saving it.
9. Deleting the photograph from camera.
Competency 4  The student will demonstrate the knowledge, comprehension and application of obtaining a photographic record of the patient’s oral health status using the Schick Intraoral Camera by:

1. Explaining the purpose of using an intraoral camera.
2. Demonstrating the proper infection control protocol for an intraoral camera.
3. Locating and describing the purpose of the components of the Schick Intraoral camera.
4. Accessing the New Video Series from the computer menu.
5. Viewing, focusing, freezing, and capturing an image electronically.
6. Zooming and adjusting the brightness and contrast of the image.
7. Saving the data.

Competency 5  The student will demonstrate the knowledge, comprehension and application of documenting periodontal and dental charting data electronically using the SoftDent periodontal and dental charting software application by:

1. Explaining the purpose of the SoftDent Charting software application.
2. Accessing the application from the Windows desktop.
3. Accessing the periodontal and restorative data for adult and pediatric patients.
4. Selecting the Medical button in the patients information screen to determine if a medical alert exits for a patient of record.
5. Entering personal information for a new patient.
6. Saving the new patient data to the database.
8. Switching between the charting and periodontal modes.
9. Editing data.
10. Saving data.
11. Printing full and periodontal charts.

Competency 6  The student will demonstrate the knowledge, and comprehension of the advantages in sending electronic images to the patient’s dentist or dental health care facility by:

1. Creating, printing and storing radiographic data using the CDR for Windows software.
2. Creating, printing and storing intraoral data using the Schick Intraoral Camera.