

## Student Course Document

COURSE CODE & TITLE:	DEN 2300 Principles of Dental Hygiene Care III DEN 2300L Clinical Practice III
TERM:	Fall 2016
COORDINATORS:	Maureen Archer, DDS – Course Coordinator Shantel Childs-Williams, RDH – Radiology Coordinator
INSTRUCTORS:	Seminar: Maureen Archer RDH, DDS (Day Section) Christine Macarelli MS, RDH (Evening Section) Clinic: Dental Hygiene Faculty
CONTACT INFORMATION:	Dr. M. Archer - <a href="mailto:marcher@citytech.cuny.edu">marcher@citytech.cuny.edu</a> Professor Macarelli - <a href="mailto:cmacarelli@citytech.cuny.edu">cmacarelli@citytech.cuny.edu</a> Professor Childs - <a href="mailto:schildswilliams@citytech.cuny.edu">schildswilliams@citytech.cuny.edu</a>
OFFICE HOURS:	Posted outside P201 and Blackboard
CLASS HOURS:	2 hours/week
LABORATORY HOURS:	12 hours/week in Dental Hygiene Clinic
CREDITS:	5
PREREQUISITES:	DEN 1200, DEN 1217, DEN 1218, BIO 3302
COREQUISITES:	DEN 2311, DEN 2318
REQUIRED TEXTBOOK:	Clinical Practice of the Dental Hygienist 12 <sup>th</sup> edition; Esther M. Wilkins; Lippincott; Williams & Williams
OPTIONAL SOURCES:	Nield-Gehrig: Fundamentals of Perio Instrumentation 7 <sup>th</sup> ed. Nield-Gehrig: Patient Assessment Tutorials, 2 <sup>nd</sup> ed.

**Course Description:** Advanced didactic material and clinical experience. The instructor serves as a group facilitator who assists the student in developing an appreciation for the concepts, topics and procedures related to the clinical experience and in integrating the material into the practice of clinical oral hygiene. DEN 2300 Seminar presents the didactic material, which correlates with the clinical experience, provided in DEN 2300L. The Clinical Faculty serve as group facilitators who assist the students in developing an awareness of and an appreciation for the concepts, topics, and procedures related to the Dental Hygiene profession.

How to email Faculty teaching in this course:

1. Go to the **Blackboard Lab** section (D228 for Day section ) & (E630 for Evening sections) associated with this course
2. Click on “tools” and find send e-mail
3. Select Single/select user and locate faculty members name; select it and write e-mail

### Evaluation Procedures

#### DEN 2300 Grading Scale:

##### DEN 2300 Course Grading Scale:

93-100.....A  
90-92.9.....A-  
87-89.9.....B+  
83-86.9.....B  
80-82.9.....B-  
77-79.9.....C+  
75-76.9.....C  
74.9-60.....D  
Below 59.9...F

#### Course Assessment Method:

As per the department guidelines, all the DEN clinical courses have 2 components. **Each component must be passed independently**, in DEN 2300 the passing grade for the Clinical Component (A) is a cumulative average of **75** & the passing grade for Seminar Component (B) is a cumulative exam average of **70**. This grading criterion is based upon the philosophy that a well-educated Dental hygienist must be able to apply didactic knowledge to clinical practice. Additionally, the DH National Board Examinations have a grading criterion in which 75 is the passing grade.

#### Calculation of the DEN 2300 Final Course Grade:

**Component A (Clinic)** – This component of the DEN 2300 course is designed to teach the clinical and radiology skills necessary to engage in patient treatment. Therefore, successful completion of this component of the course is a prerequisite for progression into the subsequent clinical dental hygiene courses.

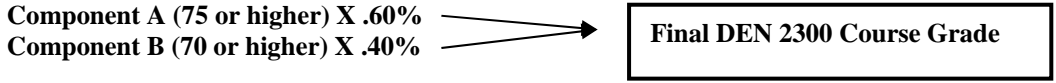
**Component B (Seminar)** - This component of the DEN 2300 course is designed to provide students with the opportunity to develop competency in the theory pertaining to fundamental knowledge of the Dental Hygiene Process of Care. Successful completion of this component of the course is a prerequisite for progression into the subsequent clinical dental hygiene courses.

**Calculation of the DEN 2300 final course grade:**

**Step 1:**

**Component A (numerical final grade) which must be a grade of 75 or higher to pass the DEN 1100 course**  
**Component B (numerical final grade) which must be a grade of 70 or higher to pass the DEN 1100 course**

**Step 2:**



<b>Component A (Clinical Component)</b>		<b>Component B (Didactic Component)</b>	
Average of Daily clinic grades	10%	1 <sup>st</sup> Exam	10%
Subgingival Calculus Detection test	10%	2 <sup>nd</sup> Exam	10%
Clinical Skills Exam	15%	3 <sup>rd</sup> Exam	10%
Radiology Skills	20%	Quizzes (3)	10%
Journal & Literature Response	5%	PBL case introduction	

**Course Policies:**

**a) Attendance policy:** attendance in the seminar and clinic is expected. In the event of an absence the student is responsible to obtain and learn the material presented. In this course, 1 absence is permitted in seminar and **in** the clinical component a **total of 2** clinical sessions. (1 PNP + 1 ABS or 2 ABS etc).

**b) Lateness policy:** as stated below “\*punctuality” is an important part of being a professional. Occasionally circumstances may occur which affect one from being on time. An occasional lateness is understood. The lateness policy for DEN clinical courses relates to students who are habitually or chronically late.

Students who are late for:

- 4 clinical sessions: (-1) point off their final course grade
- 5 to 7 clinical sessions: (-5) points off their final course grade
- 8 or more clinical sessions: (- 7) points off their final course grade

**c) Professionalism:** A profession is an occupation for which a person has a special education. Professionalism refers to a standard of conduct. Therefore, the Dental Hygiene Department, as per the student manual will take into consideration the following

when determining the final grade for Dental Hygiene courses:

- Rapport with instructors
- Peers & patients
- Punctuality (see above lateness policy)
- Grooming
- Proper care and use of equipment  
(damaged equipment will be reviewed with the chairperson and an equipment fee will incur)
- Ethical management and treatment of patients
- Adherence to established procedures
- Behaviors determined to be either unethical or unprofessional (stealing or cheating).

**-8 points will be deducted from the final grade for noncompliance with the above standards of professionalism & in the event that this point value deduction creates a grade below 75, the student will not be allowed to progress & will follow the DH course repeat policy in the student manual.**

**d) Examination Policies:**

**1) Dental Hygiene Department Policy on Retesting:**

Dental Hygiene Dept. Policy on Retesting: no student in any Dental Hygiene course will be retested in any examination for any reason. A failing grade on a quiz/examination will remain and be averaged with all other course grades.

**2) New York City College of Technology Policy on Academic Integrity:** Students and all others who work with information, ideas, texts, images, music, inventions, and other intellectual property owe their audience and sources accuracy and honesty in using, crediting and citing sources.

As a community of intellectual and professional workers, the College recognizes its responsibility for providing instruction in information literacy and academic integrity, offering models of good practice, and responding vigilantly and appropriately to infractions of academic integrity.

Accordingly, academic dishonesty is prohibited in The City University of New York and at New York City College of Technology and is punishable by penalties, including failing grades, suspension, and expulsion. The complete text of the College policy on Academic Integrity may be found in the catalog.

**3) DEN 2300 Examination Procedures:**

All students are:

- a) Expected to take the examination at the scheduled times
- b) In event of an unforeseen emergency, the student is to e-mail the instructor and upon returning to school provide medical or legal documentation to support the absence from the examination. Students who provide documentation deemed acceptable by the course instructor will be scheduled to take a “make-up” examination whose format may include ( essay, short answer questions).
- c) Students who arrive late to examinations, will not be given extended time and will be expected to complete the exam in the remaining scheduled exam time.
- d) Students who miss and do not provide acceptable documentation will have a score of Zero entered for that examination.
- e) Cheating: Penalty for a student observed cheating on a Den 2300 examination will be a zero grade for that test **plus** -8 points off the final grade for professionalism. Again if this results in a failing grade for the DEN 2300 course then **the student will not be allowed to progress & will follow the DH course repeat policy in the student manual.**

Clinical Skills Examinations: will be announced & given during the semester. The student will be responsible for providing an appropriate patient.

**Learning Experience:** This course will utilize several approaches to teaching including but not limited to BlackBoard, PowerPoint, group discussions, lecture and role play in order to accomplish the stated objectives.

## Course Requirements:

1. Students may enroll for this course if all required competencies for DEN 2300/2300L are met and are satisfactorily demonstrated (>75%) within the sixty days immediately preceding enrollment in this course. Passing DEN 1200/1200L in the semester immediately preceding this course will serve to satisfy this requirement.

If for any reason, there is a break in continuity of consecutive semester attendance, a separate evaluation process for competencies will be required and a student's enrollment will then only be permitted based upon space availability.

2. Assigned Readings - in text and references
3. Maintaining online journal and response to Literature review assignments
4. DH/Course Policies: Refer to the student manual.

5. Verification of:

- A. CPR
- B. Malpractice Insurance
- C. Annual Medical Examination

Verification must be submitted to Clinic Coordinator at orientation for DEN 2300. Students who do not comply will not be permitted to provide patient treatment in the clinic until they are in compliance.

6. Patient Treatment Procedures: The patient treatment procedures will be evaluated by faculty based upon the established department criteria (**stated in the student gradebooks**) during clinical sessions.
  - A. **Arestin Placement**: This year **2016-17**, each student with faculty support will assess and select **8** sites for placement of Arestin. The DH program and Orapharma (Arestin) will **provide 10 carpules /student free of charge**.

Students will:

1. Obtain informed consent and have the signed Arestin consent form placed in Dr. Archer's office mailbox
2. All Arestin sites must be placed by **12/14/16 and all re-evaluation** must be within **4 to 6 weeks of Arestin placement. Patients should be given a re-evaluation appointment the day the Arestin is place.**
3. Students who do not complete this requirement: will be given an "I" grade for DEN 2300. And therefore will not progress into DEN 2400 until the Arestin is placed.
4. Supervising Clinic Faculty will supervise the correct information is entered into the **Arestin Excel Spreadsheet** located on the computer desktop in **Clinic A.**
  - Find your name listed on the excel spreadsheet and enter the patient information requested
5. **Completing the Arestin Course requirement in DEN 2300:**
  - a) Arestin placed and evaluated during the DEN 2300 course, all information entered into the excel spreadsheet. After the re-evaluation visit, all students must write a paragraph about their experience using this Arestin product and submit it to Dr. Archer by email.
6. **Arestin Course requirement not completed in DEN 2300 options:**
  - a) Arestin placed by December 14, 2016 and re-evaluation planned for Feb 2017 in course DEN 2400. If patient fails to return Feb 2017, student will meet with Dr. Archer to discuss obtaining a new patient and starting the Arestin process again.
  - b) If you do not complete the Arestin requirement because you did not place it **or** your patient fails to return for re-evaluation, you will be given a grade of "I" in the DEN 2400 course until the Arestin required experience is completed.
  - c) In the event that you need to find another required patient because the first person did not return then we will supply Arestin only if there is product available.  
If Arestin is not available you will be required to pay \$45 dollars /carpule.

B. Dental Charting:

**In paper charts**, Initial visit chart the entire dentition;

Recall/Revisit: update as necessary.

**In electronic charts**, Initial visit chart the entire dentition; update as necessary

C. Caries Risk Assessment form: minimum of **2** patients who upon dental charting are identified as at risk for caries.  
The form will be completed prior to periodontal charting.

D. Fluorides: will be incorporated into treatment plans based upon assessment

E. Impressions: minimum of **3** patients & **3** acceptable complete sets.

F. Patients' Care: Students are required to keep an accurate, updated appointment log

Adult Patients:

Students are responsible for providing an adult patient for each clinical session.

Students are required to provide treatment for patients with varying degree of periodontal disease.

The following is the minimal criteria, which must be met in order to successfully complete DEN 2300:

- **3** cases completed on patients who have heavy calculus deposits and are classified as a Type I, Type II, or III periodontal classification.
- **8** cases completed on patients who have medium calculus deposits/stain & are classified as Type I, II or III periodontal classification.

G. Periodontal charting:

**In the paper chart** the initial exams on new patients, complete all information

requested & record probing depths of **4mm or greater** for all quadrants.

If the patient has recession (**clinical attachment loss**) **ALL** probing depths must be recorded on teeth with recession.

For **recall/recare** patients review the Gingival/ Mucogingival line & record probing depths of 4mm or greater for all quadrants.

**In the electronic chart**: In the electronic chart, at the initial and recall/recare visits all periodontal readings must be recorded. All depths should be recorded for each tooth

H. Prophy-jet : introduction & demonstration; 2 patients supra gingival air polishing

Patients must have 2 quadrants of stain **or** presently undergoing orthodontic treatment.

If a patient has 4 quadrants of heavy stain as determined by the Faculty, then 2 students may share this patient to fulfill the air polishing requirement. Students **may not** share an orthodontic patient.

I. Radiographs: a) **4 FMS**: 3 film based FMS and 1 FMS using digital exposure.

b) **6 BWS**:

- 2 series filmed based with BW tabs (First 2 BWs exposed in this course)

- 2 series filmed based with XCP device

- 2 series digitally exposure BWs

c) **3** digital Panoramic Radiographs (on clinic patients only)

d) see DEN 2300 radiology clinical component document for more information

J. Rubber Dam: minimum of 2 acceptable placements in conjunction with sealants application.

K. Sealants: minimum of 2 acceptable sealant placements on **permanent molars**.

L. Vital Signs: all patients treated as per the student manual guidelines

7. Assigned Patients: The clinic receptionist will try to schedule all patient appointments at least one week in advance. If a student does not wish to be assigned a patient on a specific date then it is the student's responsibility to inform the office manager of the date(s) and to verify that **DNA** (do not assign) is written in the appointment book. Once an appointment has been scheduled **only the clinic receptionist, after discussion with the coordinator** has the authority to re-assign that patient.

8. PNP & Assignments:

If a PNP occurs, the student is to speak to their supervising faculty member and discuss a clinic related activity to be done. The DEN 2300 Coordinator suggests that you seek fellow students; faculty or staff who may require dental radiographs or be willing to sit to have an alginate impression or sealant. A student may also be assigned by the group instructor to serve on Desk, Central Supply or as an assistant to a fellow student. Students **are required to remain in clinic for 2.5 hours & not permitted** to leave clinic without faculty permission.

	<b>Topic</b>	<b>Monday</b>	<b>Friday</b>
1	Biofilm and Oral Rinses	8/29/16	8/26/16
2	Cardiovascular Disease & Dental Considerations	9/12/16	9/2/16
3	Cardiovascular Disease & Dental Considerations continued	9/19/16	9/9/16
	CaMBRA_Caries Process & Prevention		9/16/16
4	Examination #1 Topics: Oral Rinses; Cardiac Disease; topics from clinic lessons Clinic Essentials ;GSK; Colgate presentation; Arestin	Examination # 1 <b>Monday September 26<sup>th</sup> 2016</b> 10 to 11:10 am	Examination # 1 <b>Friday September 23<sup>rd</sup> 2016</b> 12:15 to 1:30 pm
	CaMBRA_Caries Process & Prevention	9/26/16 (40 minute lecture)	9/23/16 (40 minute lecture)
5	CaMBRA_Caries Process & Prevention	10/6/16 (Thursday)	9/30/16
6	CaMBRA_Caries Process & Prevention	10/17/16	
	Dental Implants		10/7/16 (extend class by 20 minutes)
7	Dental Implants	10/24/16	
8	Dental Implants	10/31/16	10/21/16
9	Examination #2 Topics: Implants; CaMBRA; Colgate presentation information only related to Caries management; Fluorides (review all DEN 1200 notes) Air polishing	Examination # 2 <b>Monday November 7<sup>th</sup> 2016</b> 10 to 11:10 am	Examination # 2 <b>Friday October 28<sup>th</sup> 2016</b> 12:15 to 1:30 pm
	Hepatitis	11/7/16 (40 minute lecture)	10/28/16
10	Hepatitis completed	11/14/16	11/4/16
11	Problem based learning Cases	11/21/16	11/11/16
12	HIV overview and Dental Consideration's/ PEP	11/28/16	11/18/16
13	Cancer-Oral & Systemic- Dental Considerations	12/5/16	12/2/16
14	Cancer-Oral & Systemic- Dental Considerations	12/12/16 10 to 11:15 am	12/9/16
15	<b>All DEN 2300 Day Section Students</b> <b>Examination # 3_ Friday December 16<sup>th</sup> 2016</b> 12:30 to 1: 40 pm Topics: Hepatitis; HIV and Cancer; Panoramic Radiology Senior instrument kit; Mucogingival defects/Dental hygiene process of care		



## DEN 2300 Seminar & Clinical Course Objectives

### **Unit I- Oral Rinses- Discipline Knowledge**

- 1.1 Explain what a therapeutic rinse is (C.4)
- 1.2 Identify and describe the pharmacological categories of therapeutic rinses (C.4)
- 1.3 Describe the effectiveness of a rinse on an immature vs. a mature biofilm (C.4)
- 1.4 Assess which patients would benefit from a therapeutic rinse (PC.1) (PC.2) (PC.3) (PC.4)
- 1.5 Implement an oral care plan recommending an oral rinse for clinical patients (C.4) (PC.4)

#### **Gen ED SLO's:**

Critical Thinking  
Information Literacy  
Inquiry & Analysis

### **Unit II – Cardiovascular Disease- Discipline Knowledge**

- 2.1 Discuss and explain angina, myocardial infarction, congestive heart failure (PC.1)
- 2.2 Recognize risk factors associated with cardiovascular disease (HP.4) (PC.1)
- 2.3 Recognize and discuss the management of cardiac patients in the dental setting (PC.4)
- 2.4 Recognize and explain the management of possible medical emergencies associated with cardiovascular diseases (C.3) (PC.4)
- 2.5 Describe how this systemic condition will impact DH treatment plan (C.3) (C.4)
- 2.6 Identify which medications used in the management of cardiovascular disease may have an effect on the tissues of the oral cavity (PC.1)

#### **Gen ED SLO's:**

Critical Thinking  
Information Literacy  
Inquiry & Analysis

### **Unit III – Caries Process and Strategies & Prevention- Discipline Knowledge**

- 3.1 Explain the bacterial flora and plaque formation as it relates to the caries process (C.4)
- 3.2 Explain the Venn diagram and that caries is a multifactorial disease process (C.4)
- 3.3 Discuss and explain risk factors for caries development (HP.4) (PC.1)
- 3.4 Assess patients whose behaviors place them at risk for caries development (PC.1)
- 3.5 Explain the types of fluoride available for professional use and over the counter products (C.4)
- 3.6 Recognize and explain the rationale for sealant placement and patient selection criteria (C.4)
- 3.7 Customize an oral self-care plan for a caries active patient (PC.4)
- 3.8 Recognize and explain the prevention strategies a dental hygienist can recommend to reduce caries risk (PC.1) (PC.4)

#### **Gen ED SLO's:**

Critical Thinking  
Oral Communication  
Information Literacy  
Inquiry & Analysis

#### **Unit IV – Implants- Discipline Knowledge**

- 4.1 Explain the patient selection criteria for implants (C.4)
- 4.2 Explain the stages and sequencing of the of implant placement (C.4)
- 4.3 Discuss and explain to a patient the method of oral self-care to maintain implants (PC.3)(PC.4)
- 4.4 Discuss the etiologies of implant failure (C.4)
- 4.5 Describe the dental hygienist's role in implant maintenance (C.5)

##### **Gen ED SLO's:**

Critical Thinking  
Information Literacy  
Inquiry & Analysis

#### **Unit V– Hepatitis- Discipline Knowledge**

- 5.1 Explain the incidence, etiology and transmission of Viral Hepatitis (C.5)
- 5.2 Explain and apply effective principles of infection control for this bloodborne pathogen (HP.6)
- 5.3 Recognize how hepatitis may impact the dental hygiene treatment plan and the overall patient care (PC.1) (PC.3)
- 5.4 Based upon patient assessment obtain medical consultations as appropriate (PC.1)

##### **Gen ED SLO's:**

Critical Thinking  
Information Literacy  
Inquiry & Analysis

#### **Unit VI- HIV- Discipline Knowledge**

- 6.1 Discuss and explain HIV infection epidemiology; at risk populations (HP.4)
- 6.2 Explain HIV testing guidelines (C.4)
- 6.3 Recognize systemic and oral manifestations of Acute HIV infection (PC.1)
- 6.4 Recognize systemic and oral manifestations of AIDS (PC.1)
- 6.5 Recognize and explain the management of the HIV infected patient in the dental setting (C.5)
- 6.6 Describe how this systemic condition will impact on dental hygiene care (PC.1) (PC.3)

##### **Gen ED SLO's:**

Critical Thinking  
Information Literacy  
Inquiry & Analysis

#### **Unit VII – Oral Cancer- Discipline Knowledge**

- 7.1 Discuss and explain the incidence and risk factors for oral cancer (HP.4)
- 7.2 Discuss and explain the most frequent sites for oral cancer (PC.1)
- 7.3 Recognize and explain to patients the possible oral complications related to chemotherapy and radiation (PC.3)
- 7.4 Identify and discuss the proper sequencing of the dental health care team in the management of the cancer patient (PC.3)
- 7.5 Discuss and explain the oral self-care regimen for a patient with cancer (PC.4)

##### **Gen ED SLO's:**

Critical Thinking  
Oral communication  
Information Literacy  
Inquiry & Analysis

## Clinic:

### Panoramic Radiology- Discipline Knowledge

- 1.1 Describe the radiographic principles of the panoramic radiography (C.4)
- 1.2 Discuss the rationale for patient selection (C.3) (C.4)
- 1.3 Explain the possible technique or operation errors that may occur (C.4)
- 1.4 Identify the anatomic landmarks on a panoramic radiograph (C.4)
- 1.5 Identify the components of the panoramic machine(C.4)
- 1.6 Demonstrate how to position the patient for most diagnostic exposure (C.4)
- 1.7 Be able to store the image correctly in the e-chart (C.4)

#### Gen ED SLO's:

Critical Thinking  
Information Literacy  
Inquiry & Analysis

General Education Student Learning Outcomes: Information Literacy; Inquiry & Analysis; Integrative Learning

### Prophy –jet: - Discipline Knowledge

- 2.1 Be able to explain indications/contraindications for patient selection (C.4)
- 2.2 Explain the advantages/disadvantages (C.4)
- 2.3 Be able to identifying the components of equipment
- 2.4 Explain the mechanism of action of the air polishing system (C.4)
- 2.5 understand the proper usage & maintenance of the equipment (C.4)

#### Gen ED SLO's:

Critical Thinking  
Information Literacy  
Inquiry & Analysis

### Arestin:- Discipline Knowledge

- 3.1 Understand the patient selection criteria for Arestin placement
- 3.2 Be able the set up the syringe and properly insert the syringe into the periodontal pocket
- 3.3 Be able to explain the benefits of Arestin placement to the patient
- 3.4 Understand how to obtain informed consent from the patient for Arestin placement

#### Gen ED SLO's:

Critical Thinking  
Information Literacy  
Inquiry & Analysis