



CDM 2050 - Endodontics – Basic Principles and Formative Concepts

I. Course Information

Course: CDM 2050 - Endodontics – Basic Principles and Formative Concepts
Semester and Year: Fall 2021
Course Start and End Dates: 07/26/2021 - 12/12/2021
Course Reference Number: 23981
Semester Credit Hours: 1.0
Building and Room: HPD-Assembly I Building - 2101TERY

II. Instructor Information

Professor: Carmen Bonilla
Email: mbonilla1@nova.edu
Office Hours:

Day	Time	Location
MTRF	9:00am - 5:00pm	7326

Office Hours:
M,T,T,F 8:30 AM TO 5:00 PM by Appointment only

III. Class Schedule and Location

Day	Date	Time	Location	Building/Room
F	07/30/2021 - 12/10/2021	10:10 AM - 10:59 AM	Ft Lauderdale/Davie Campus	HPD-Assembly I Building-2101TERY

IV. Course Description

This course is an introduction to the theory and practice of Endodontics. It presents the fundamental principles of the treatment of pulpal and periradicular disease. Along with the Preclinical Endodontics Technique course, the student is prepared to provide clinical Endodontic treatment.

V. Course Objectives / Learning Outcomes

Course Learning Outcomes

- 1: To learn the rationale of endodontic therapy.
- 2: To learn the basic endodontic techniques and become familiar with the materials and instruments used in endodontic procedures.
- 3: Use critical thinking and problem solving related to the endodontic care of patients.

COLLEGE OF DENTAL MEDICINE COMPETENCY STATEMENTS Faculty Note: Use the most updated version of the CDM Predoctoral Competency document to select the corresponding competencies for this course. Be sure to select the number of the competency statement and the verbatim competency statement as it appears on the competency document. For each competency indicate the type of assessment (formative or summative) that will be employed to measure the attainment of the competency

Core Competencies:

1. Graduates must be competent in patient assessment, diagnosis, comprehensive treatment planning, prognosis, and informed consent. **[CODA Predoctoral Standard 2-24(a)]**

Formative Assessment: Quizzes and Mid Term Exam

Summative Assessment: Final Exam.

5. Graduates must be competent in local anesthesia, and pain and anxiety control, including consideration of the impact of prescribing practices and substance use disorder. **[CODA Predoctoral Standard 2-24(e)]**

Formative Assessment: Quizzes and Mid Term Exam

Summative Assessment: Final Exam.

10. Graduates must be competent in pulpal therapy. **[CODA Predoctoral Standard 2-24(j)]**

Formative Assessment: Quizzes and Mid Term Exam

Summative Assessment: Final Exam.

13. Graduates must be competent in dental emergencies. **[CODA Predoctoral Standard 2-24(m)]**

Formative Assessment: Quizzes and Mid Term Exam

Summative Assessment: Final Exam.

15. Graduates must be competent in the evaluation of the outcomes of treatment, recall strategies, and prognosis. **[CODA Predoctoral Standard 2-24(o)]**

Formative Assessment: Quizzes and Mid Term Exam

Summative Assessment: Final Exam.

16. Graduates must be competent in providing oral health care within the scope of general dentistry to patients in all stages of life. **[CODA Predoctoral Standard 2-23]**

Formative Assessment: Quizzes and Mid Term Exam

Summative Assessment: Final Exam.

19. Graduates must be competent in the application of biomedical science knowledge in the delivery of patient care. **[CODA Predoctoral Standard 2-15]**

Formative Assessment: Quizzes and Mid Term Exam

Summative Assessment: Final Exam.

21. Graduates must be competent in managing a diverse patient population and have the interpersonal and communications skills to function successfully in a multicultural work environment. **[CODA Predoctoral Standard 2-17]**

Formative Assessment: Quizzes and Mid Term Exam

Summative Assessment: Final Exam.

24. Graduates must be competent in communicating and collaborating with other members of the health care team to facilitate the provision of health care. **[CODA Predoctoral Standard 2-20]**

Formative Assessment: Quizzes and Mid Term Exam

Summative Assessment: Final Exam.

25. Graduates must be competent in the application of the principles of ethical decision making and professional responsibility. **[CODA Predoctoral Standard 2-21]**

Formative Assessment: Quizzes and Mid Term Exam

Summative Assessment: Final Exam.

26. Graduates must be competent in the use of critical thinking and problem-solving, including their use in the comprehensive care of patients, scientific inquiry and research methodology. [CODA Predoctoral Standard 2-10]

Formative Assessment: Quizzes and Mid Term Exam

Summative Assessment: Final Exam.

- This refers to the same as the items in the CDM Competency Document; please see them listed below.

FOUNDATION KNOWLEDGE

STATEMENTS FOR THE GENERAL DENTIST

FK3: Apply knowledge of physics and chemistry to explain the characteristics and use of technologies and materials used in the prevention, diagnosis, and management of oral disease and the promotion and maintenance of oral health.

Foundation Knowledge disciplines covered by FK-3 include: Basic Radiology, Dental Material Sciences, Biomaterials, Biophysics, etc.

Clinical Science areas where FK3 may have relevance include: Prosthodontics, Restorative Dentistry, Oral Diagnostics, Applied Biomaterials, Preventive Dentistry, Laser-Assisted Dentistry, Applied Pharmacology, Radiology, Implant Dentistry, Endodontics, Esthetic Dentistry, Cosmetic Dentistry, Radiation Oncology, Oral Oncology, etc.

VI. Materials and Resources

Course Required Texts and Materials:

- Cohen's Pathways of the Pulp, **Louis Berman, Kenneth Hargreaves, Elsevier 12th Ed**

Faculty Note: Please indicate the textbooks that are **required** for the class and if available, a hyperlink to the textbook. Also, indicate if there are articles or links to **required readings** that are required for the class *and* the site where the articles are available for the student (such as: Canvas, library, database).

Course Supplemental Materials:

Handouts that may be given to the class on Canvas

- Supplemental, Recommended, Optional, NOT required.

The access to all instructional resources included in this course, such as, lectures, handouts, manuals, PowerPoint presentations, videos, photographs, pictures, articles and web links is limited to students who are enrolled in the course and is not for public distribution. The use of these instructional resources is exclusively for non-commercial and non-profit educational use. Students are recommended to download the instructional resources provided in the course, UNLESS, the course director instructs NOT to download specific files. We recommend that all students download, save, and keep the instructional materials from all the courses. These instructional resources will be very helpful references as you progress from year to year in the program.

VII. Course Schedule and Topic Outline

Course Schedule:

Sumer -Fall 2021	Title	Reading Assignment	Lecturer
7 May	Endodontic instruments, materials, and devices Endodontic pretreatment and isolation	Endodontic Manual 2021	Dr. Manjarrés
14 May	Interpretation of Radiographs and CBCT	Chapter 2 pp34-73	Dr. Bonilla
21 May	Access cavity in anterior teeth	Chapter 7 pp192-235	Dr. Gutmann
22 May-6 Jun	Semester Break		
11 Jun	Access cavity preparation in posterior teeth	Chapter 7 pp192-235	Dr. Gutmann
18 Jun	Root canal preparation with reciprocating files	Chapter 8 pp 236-259	Dr. Bonilla
25 Jun	Disinfection of the root canal system (Irrigation / Intracanal medication)	Chapter 8 258-293	Dr. Manjarres
2Jul	Obturation of the root canal system: Gutta-Core obturation technique	Chapter 9	Dr. Gutmann
8 Jul	Obturation of the root canal system: Warm Vertical Compaction technique	Chapter 9	Dr. Zeim
15 Jul	Evaluation of Outcomes	Chapter 7	Dr. Bonilla
23 Jul 7:40am – 8:40am	Midterm Exam	Exam Soft	Steele Auditorium
30 Jul	No class		
6Aug	Perforations: Prevention and Management Managing Iatrogenic Endodontic Events	Chapter20	Dr. Seltzer
13 Aug			
20 Aug	Endodontic Treatment Planning	Chapter 5 pp139-161	Dr. Manjarres
27 Aug	Endodontic Diagnostic Terminology	Chapter 2	Dr. Zeim
TBA	REVIEW		Dr. Seltzer

TBA	Final Examination	Exam Soft	Room TBA
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Lecture 11:10am - 12:00pm. Lectures will move to Thursdays 7:50am - 8:40am starts July 2, 2021

Lectures will be given on Zoom for the Summer term and Fall semester TBA

Textbook: Cohen's Pathways of the Pulp, **Louis Berman, Kenneth Hargreaves, Elsevier 12th Ed**

Topic Outline:

refer to course schedule

“Important note – Please note that due to the current Coronavirus pandemic, course schedules and course activities may be modified now and in future. Faculty and students are responsible for keeping apprised of these changes and adjusting their schedules accordingly.”

VIII. Instructional Methods

In this section of the syllabus you will find information about any course (instructional, assessment, assignments, benchmarks and/or clinical) modifications that were added to the course as a result of COVID-19

The Covid Pandemic necessitated the implementation of Zoom lectures as opposed to lectures given "Face to face". "Face to face " lectures maybe implemented in the future.

IX. Assignments

Description of Assignments, Point Value and Rubrics

Reading assignments are listed in the attached course lecture schedule.

X. Grading Criteria

Provide a List of all the graded work in the course (Assessments, Class Activities, Classwork and Assignments) with Point or Percentage Values, or required Completion item.

Grading Scale:

Quizzes (Multiple choice):	25%
Mid-Term (Multiple choice):	25%
Final (Multiple choice/cumulative):	50%
	100%

Course Final Grade Mode for the course (Pass/Fail, PR/NPR or Letter Grade). For a continuum course, please specify the grade mode for each semester.

Grade Mode:

All Quizzes may be given anytime during the scheduled class. No make up quizzes will be given. If a quiz is missed the student will receive a grade of zero for the missed quiz. If the quiz is missed because of an excused absence the quiz grade will be calculated based on the quizzes taken.

Final Grade: is Letter Grade.

All Quizzes and Exams will be administered through Exam Soft.

The summer grade will be PR or NPR. The final course grade in December will be a letter grade.

Course Grading Scale

Letter Grade	GPA	Equivalence
A	4	93 to 100
A-	3.75	90 to < 93
B+	3.5	86 to < 90
B	3	83 to < 86
B-	2.75	80 to < 83
C+	2.5	76 to < 80
C	2	70 to < 76
F	0	<70

XI. Course Policies

COURSE ATTENDANCE REQUIREMENTS, REMEDIATION POLICY, ALL CDM POLICIES

Attendance Policy : Please refer to appropriate pages of the NSU-CDM 2020-2021 Student Handbook.

Link to the handbook:

<https://liverootnova.sharepoint.com/dentmed/Active%20Docs/Policies%20and%20Procedures/Pre%20a2020%20CDM%20PreDoctoral%20Student%20Handbook.pdf?wa=wsignin1.0>

Remediation Policy: Please refer to appropriate pages of the NSU-CDM 2020-2021 Student Handbook.

“Successful completion of each CDM course requires compliance with the CDM Code of Behavioral Conduct.”

CDM College Attendance Policy Please note that, the Office of Admissions, Student Affairs and Services manages excused absences including sick days, mission trips, dental meetings, externships, interviews, family events, and other personal leave time, etc. and all student absences will continue to be tracked in axiUm. (Please refer to NSU Wide Religious Holidays Policy in the Student Handbook.) • Planned excused absences: please fill out the appropriate paperwork, with backup documentation (e.g. physician’s note), and submit on the online portal for the Office of Student Services prior to the scheduled absence, so that we can approve the leave time, and help you map out a plan to make up the work. It is the student’s responsibility to inform the course director for any courses you will be missing, your team leader for any clinic sessions that will be missed and/or the Coordinator of Extramural Programs (Dr. Mairelina Godoy), etc. of your planned absence(s). • Unplanned excused absences: please email Dr. Galka at agalka@nova.edu with a cc to cdmservices@nova.edu to report that you will be out, the reason for your absence and to also let us know if you plan to return to school the following day. You should also email the course director for any courses you will be missing, Dr. Mairelina Godoy mg1189@nova.edu for any rotations you will be missing and/or your team leader for any clinic sessions scheduled for that day. You must continue to email us daily to keep us updated if you will be out additional days and you can submit your SREA form together with backup documentation when you know the date you will return to school. • The student will be responsible for making up all missed rotations, all material presented in lectures, all laboratory projects, all written and practical examinations (including OSCEs) and must fulfill all didactic and clinical responsibilities as outlined in the individual course syllabi. Also, please review the attendance policy in the individual course syllabi. • Please do not schedule externships or interviews when you are scheduled for an examination or rotation. • Remember, it is your responsibility to reach out to our office for any unexcused absences to see if these fall under excused absences and/or to see how the unexcused absence will be managed. Also, please contact Dr. Mairelina Godoy directly to arrange makeup of any and all missed rotations, which will take place during optional clinic weeks. • Every student will be able to take 1 Personal Day/per Semester (3 Personal Days/Academic Year) with NO BACKUP DOCUMENTATION REQUIRED, provided the day(s) are not taken when you are scheduled for a rotation, written examination, practical/competency examination, OSCE or taken directly before/after a school holiday, etc. These absences will be managed through our office and designated as excused absences, provided our office is notified by email in advance or on the day of the absence. (Please indicate in the email if you will be using a personal day and designate D-1, D-2, D-3 or D-4 student.) For any additional absences to the 1 Personal Day/per semester, or in the event that you will be missing a written examination, a preclinical or clinical practical/competency examination, including an OSCE, or rotation, backup documentation WILL be required. Again, it is the student’s responsibility to notify all course directors, team leaders, and/or the Coordinator of Extramural Programs, etc. affected by your absence(s). Please check your individual schedule before requesting a personal day, to be sure that you will not be missing a rotation or an exam. A personal day will be recorded as a full day. (Half days cannot be requested.) A personal day must be requested on or before the day in question and cannot be used retroactively. **COVID-19 Protocol (subject to change)** 1. NO STUDENT IS TO COME TO SCHOOL SICK- if you do not feel right- please do NOT come to school. Email Dr. Galka- Assistant Dean for Admissions, Student Affairs and Services (agalka@nova.edu) 2. If a student has had direct/close contact with someone who has been infected with COVID-19 or is experiencing COVID-like symptoms- immediately self- isolate/quarantine. Email Dr. Galka and Dr. Schweizer- Director Infection Prevention Programs (schweize@nova.edu). a. Direct Exposure/ Asymptomatic: test on day 7- if negative test result- can come back after 10 days : if NO test- quarantine 14 days b. Symptomatic (with or without Direct Exposure): test immediately and then again on day 7- if negative test result on day 7- can come back after 10 days : NO test- quarantine 14 days and must be symptom-free for 72 hours 3. If a student tests positive for COVID-19: remain self-isolated. To return to school: student needs to have 2 consecutive negative test results in a row (at least 24 hours apart). 4. Students who are in quarantine, need to contact both Dr. Galka and Dr. Hernandez (marher@nova.edu) to determine if they can participate in online courses during this time

XII. University Policies

Academic Integrity: Cheating or inappropriate behavior during any written examination, quiz, any assignment, any project; plagiarism of any work(s), or other unethical behavior will not be tolerated; the student risks receiving a grade of zero (0) for said examination, quiz, assignment, project and may be referred to the Associate Dean for Academic Affairs and the Student Progress Committee. Please refer to appropriate pages of the NSU-CDM 2020-2021 Student Handbook. and the NSU Student Handbook located at

<https://liverootnova.sharepoint.com/dentmed/Active%20Docs/Policies%20and%20Procedures/Pre%20and%202020%20CDM%20PreDoctoral%20Student%20Handbook.pdf?wa=wsignin1.0> .

Plagiarism Policy: All assignments, exams, works, patient care - written, laboratory, oral, clinical must be done as the independent work of each individual student. Plagiarism, copying or sharing the work of another or altering documentation to reflect something is your own work that is not; reflect false attendance, are considered serious offences that will not be tolerated. THESE ACTIONS WILL BE CONSIDERED IN VIOLATION OF THE UNIVERSITY AND THE CDM CODE OF BEHAVIORAL CONDUCT AND WILL BE REFERRED FOR APPROPRIATE ACTION. Students who need assistance in their learning goals should communicate with the appropriate NSU-CDM course director and/or faculty. Please refer to appropriate pages of the NSU and the CDM 2020-2021 Student Handbook. Following a link to the NSU Student Handbook

<https://liverootnova.sharepoint.com/dentmed/Active%20Docs/Policies%20and%20Procedures/Pre%20and%202020%20CDM%20PreDoctoral%20Student%20Handbook.pdf?wa=wsignin1.0>

University Policy

Class content throughout this course may be recorded in accordance with the NSU Class Recording Policy. If class content is recorded, these recordings will be made available to students registered for this course as a supplement to the classroom experience. Recordings will be made available to all students who were registered to attend the live offering of the class, regardless of a student's section or discipline, or whether the student is participating in the course online. If recordings are intended to be accessible to students or third parties who were not registered for the live offering of the class, students' personally identifiable information will be removed or redacted from the recording, unless (1) their written consent to such disclosure was previously provided, or (2) the disclosure is permissible in accordance with the Family Educational Rights and Privacy Act ("FERPA").

Students are prohibited from recording audio or video, or taking photographs in classrooms (including online classes) without prior permission from the instructor or pursuant to an approved disability accommodation, and from reproducing, sharing, or disseminating classroom recordings to individuals outside of this course.

Students found engaging in such conduct will be in breach of the Student Code of Conduct and subject to disciplinary action.

Title IX/Sexual Misconduct: Sexual violence and sexual harassment are contrary to our core values and have no place at Nova Southeastern University. In accordance with Title IX and other laws, NSU prohibits discrimination, including sex-based discrimination and discrimination towards pregnant/parenting students. If you or someone you know experience(s) sexual violence and/or sexual harassment, there are resources and options available. To learn more or to report an incident, please visit the NSU Title IX website at www.nova.edu/title-ix. Please be aware that as an instructor, I am not a confidential resource, and I will need to report any incidents of sexual misconduct to the NSU Title IX Coordinator. You can also contact Laura Bennett, NSU's Title IX Coordinator directly at laura.bennett@nova.edu or 954-262-7858.