



CDM 3621 - Clinical Endodontic Practice I

I. Course Information

Course: CDM 3621 - Clinical Endodontic Practice I
Semester and Year: Fall 2021
Course Start and End Dates: 07/26/2021 - 12/12/2021
Course Reference Number: 24097
Semester Credit Hours: 1.0

II. Instructor Information

Professor: Vivian Manjarres Levermann
Email: manjarre@nova.edu
Office Hours:
 MTTTF from 8:30 am to 5:00pm. Office # 7339 by appointment.

III. Class Schedule and Location

Day	Date	Time	Location	Building/Room
	07/26/2021 - 12/12/2021		Ft Lauderdale/Davie Campus	-

IV. Course Description

This is the introduction of clinical endodontics to the third year dental student. The student will diagnose patients with pulpal problems and perform uncomplicated endodontic procedures on anterior and premolar teeth. In addition to the application of endodontic techniques and principles learned in the second year endodontic courses, this course will serve to reinforce the patient management principles previously taught.

V. Course Objectives / Learning Outcomes

Course Learning Outcomes

1. Diagnose patients with pulpal pathology;
2. Provide emergency endodontic care;
3. Integrate endodontics into the overall patient treatment plan;
4. Evaluate the restorability, and type of restoration necessary to restore endodontically treated teeth;
5. Understand and recognize the contra-indications to endodontic therapy;
6. Understand the concept of case selection;
7. Demonstrate proper documentation;
- 8- Implement appropriate anesthesia techniques;
- 9- Demonstrate effective patient management.

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 assessments: daily grades*

3. Graduates must be competent in recognizing the complexity of patient treatment and identifying when referral is indicated.

[CODA Predoctoral Standard 2-24(c)]

**formative assessments: daily grades*

5. Graduates must be competent in local anesthesia, and pain and anxiety control, including consideration of the impact of prescribing practices and substance abuse disorder.

[CODA Predoctoral Standard 2-24(e)]

**formative assessments: daily grades*

10. Graduates must be competent in pulpal therapy.

[CODA Predoctoral Standard 2-24(j)]

**formative assessment daily grades, a. summative assessment -plastic molar project*

13. Graduates must be competent in dental emergencies.

[CODA Predoctoral Standard 2-24(m)]

**formative assessments: daily grades*

15. Graduates must be competent in the evaluation of the outcomes of treatment, recall strategies, and prognosis.

[CODA Predoctoral Standard 2-24(o)]

**formative assessments: daily grades*

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 assessments: daily grades*

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 assessments: daily grades*

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 assessments: daily grades*

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

**formative assessments: daily grades*

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 assessments: daily grades*

27. Graduates must demonstrate competence in the ability to self-assess, including the development of professional competencies and the demonstration of professional values and capacities associated with self-directed, lifelong learning.

[CODA Predoctoral Standard 2-11]

**formative assessments: daily grades*

- 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

FK1-3: Apply knowledge of the mechanisms of intra and intercellular communications and their role in health and disease.

Select examples include:

- mechanism of neurotransmitter and hormone signaling – i.e., pain, hormones like of insulin, thyroxin, neurotransmitters like acetylcholine, adrenaline, etc., through their cell surface receptor
- role of second messengers in muscle contraction (with implications on myofascial pain), cardiostimulation (with implications for local anesthesia), in glycogen breakdown in the liver (with implications to diabetes and nutrition), of stimulation of bone growth and breakdown (with implications for understanding implant behavior), etc.
- role of intra and intercellular signaling during osteointegration of implants
- role of cell signaling in sensitivity to drugs or bacterial toxins

FK7: Apply knowledge of the biology of microorganisms in physiology and pathology in the prevention, diagnosis, and management of oral disease and the promotion and maintenance of oral health.

Foundation Knowledge disciplines covered by FK7 include: Microbiology, Virology, Parasitology, Mycology, Oral Epidemiology, Oral Public Health, Statistics, etc.

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Clinical Science areas where FK7 may have relevance include: Cariology, Periodontology, Oral Pathology, Oral Malodor, Oral Medicine, Oral Diagnostics, Diagnosis and Treatment Planning, History and Physical Examination, Endodontics, Emergency Care, Oral Radiology, Oral and Maxillofacial Surgery, Applied Pharmacology, Applied Epidemiology, Preventive Dentistry, Community Dentistry, etc.

FK8: Apply knowledge of pharmacology in the prevention, diagnosis, and management of oral disease and the promotion and maintenance of oral health.

Foundation Knowledge disciplines covered by FK8 include: Basic and Applied Pharmacology, Biomedical Research, Evidence Based Dentistry, Public Health Policy, etc.

Clinical Science areas where FK8 may have relevance include: Clinical Pharmacology, Cariology, Periodontology, Endodontics, Oral and Maxillofacial Surgery, Pediatric Dentistry, Preventive Dentistry, Applied Epidemiology, Community Dentistry, etc. FK9: Apply knowledge of sociology, psychology, ethics and other behavioral

sciences in the prevention, diagnosis, and management of oral disease and the promotion and maintenance of oral health.

Foundation Knowledge disciplines covered by FK9 include: Sociology, Psychology, Philosophy and Ethics, Cultural Competence, Ergonomics, Applied Nutrition, Communication Skills, Emotional Intelligence and other Behavioral Sciences, etc.

Clinical Science areas where FK9 may have relevance include: all major clinical disciplines where patient interaction is anticipated including Speech Therapy and Clinical Nutrition, Nicotine Replacement Therapy, and Practice Management including Access to Care and Patient Education and Compliance.

VI. Materials and Resources

Course Required Texts and Materials:

1. Cohen's Pathways of the Pulp, Louis Berman, Kenneth Hargreaves, Elsevier 12th Ed
2. NSU Department of Endodontics (2021) Manual of Preclinical Endodontic Technique

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:

none

- 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:

Course Days/Time 2021: Mon, Fri from 9:00 am to 12:00 pm and from 1:00 pm to 5:00 pm.
Tues, Weds, Thurs, 9:00 am to 12:00 pm, 1:00 pm to 4:00 pm.
Tues, Weds 4:30 pm to 7:30pm

Topic Outline:

Students will be attending endodontic clinic one on one by appointment.

“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

Student benchmarks will be based on the number of endodontically treated teeth.

IX. Assignments

Description of Assignments, Point Value and Rubrics

Laboratory assignments: initiating and completing endodontic therapy on one plastic maxillary molar and on one plastic mandibular molar.

Clinical assignment: 3 hrs Assisting in the Post Graduate Endodontic Clinic. at least one completed root canal treatment.

Assisting forms are to be scanned and submitted on canvas.

The paper copy is to be submitted to the endodontic administrative assistant. Students are advised to keep a copy for your records.

D3 PLASTIC MOLARS GRADING FORM

Student Assessment

STUDENT NAME :

Mandibular Molar Access:

Working Length _____
Master Cone Fit _____
5mm down pack _____
Backfill _____

Completed Case: Pass/Fail (Please Circle)

Maxillary Molar Access:

Working Length _____
Master Cone Fit _____
5mm down pack _____
Backfill _____

Completed Case: Pass/Fail (Please Circle)

FACULTY NAME AND SIGNATURE

Date: _____

STUDENT' s **comments:** _____

S	Satisfactory 80-100
N	Needs improvement 70-79
U	Unsatisfactory Automatic Failure 60

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:

Evaluation Criteria/Methods

1. Students are advised and encouraged to endodontically treat at **least 1 single or double rooted**, uncomplicated tooth in the clinic by their third year.
2. Third-year dental students are required to demonstrate clinical endodontic competency by initiating and completing endodontic therapy on one plastic maxillary molar and on one plastic mandibular molar. The student is encouraged to treat these teeth mounted in a typodont, under a dental dam. Copies of the completed grading form and self-assessment form must be maintained in the portfolio. Additionally, copies of these forms must be uploaded in Canvas. These projects must be satisfactorily completed, evaluated by the Endodontic Predoctoral Director, or a designated endodontic full-time faculty member, and the forms submitted to Canvas by **March 30, 2022**. Additionally, each third-year student is required to assist in the Post Graduate Endodontic Clinic. The student will have the appropriate form signed by the Endodontic Post Graduate Student. Each student must assist for a minimum of three consecutive hours. Assisting forms are to be scanned and **submitted on canvas**. Students are advised to keep a copy for their records.
3. If a student believes that he/she has demonstrated sufficient skill and knowledge, and has completed at least three endodontically treated teeth by their 4th year, a Clinical Competency may be challenged. The student is required to Endodontically treat a clinical case with no assistance. A clinically acceptable result must be obtained in order for the student to pass this competency assessment. Again, a copy of the grading form is maintained in the portfolio. Students are not encouraged to challenge this competency during the D3 year. It is expected that the student will challenge the Oral and Clinical Competency during the D4 year. Upon completion of sufficient clinical cases as well as the Oral and Clinical Competencies, the student may present his/her portfolio to the Predoctoral Director or other designated endodontic faculty. The Predoctoral Director or designated endodontic full-time faculty along with the student will review the portfolio. If after review, the Predoctoral Director or designated endodontic full-time faculty agrees that the student has demonstrated competency, additional predoctoral clinical cases or exercises will not be necessary. If however, the Predoctoral Director does not accept the portfolio, it may be necessary for the student to complete additional clinical cases or exercises. If the student does not agree with the Predoctoral Director, he/she may challenge the Predoctoral Director's decision. The Chair of the Department of Endodontics will then review the portfolio and decide if the student has demonstrated competency or not.
4. The student must also develop a portfolio up to the end of their 4th year that consists of records pertaining to all clinical endodontic cases, completed or not, as well as copies of any laboratory, or Oral Competency Assessments that may be taken in the future. This information must contain the 3 last digits of the patient's chart number, but must not contain any other identifier. (patient's name, address, insurance, etc) This information is maintained in the aforementioned portfolio. Additionally, copies of all records, grading forms, and radiographs that may pertain to any cases that the student may complete in an outside clinic rotation must also be maintained in the portfolio. **This portfolio must not be copied or leave the dental school building.**

Clinical grading shall be as follows:

- 1 The endodontic treatment on plastic teeth will be graded pass /fail
2. The grading for clinical cases will be:

S= Satisfactory 100
 N= Needs Improvement 80
 U=Unsatisfactory (automatic failure for procedure) 60

3. To receive a grade of “PR” at the conclusion of the fall semester, the student must have either completed the plastic molar project or assisted in the postgraduate clinic for a minimum of three hours. After completing the aforementioned assisting, the student is responsible for having the Endodontic Assisting Form filled out and signed by the Post Graduate Endodontic Resident, The Resident being assisted will sign the form at the conclusion of the clinic period. The student will make a copy of the form and upload it in Canvas. It is recommended that students keep the original and add it in his/her portfolio. If the student has not assisted, nor satisfactorily completed the plastic molar project they will be given an NPR at the completion of the fall semester.

Assisting forms are to be scanned and submitted on canvas.

4. To receive a grade of “pass” at the conclusion of the D3 year, the student must have satisfactorily completed the two plastic molars and completed their post-graduate assisting. Additionally, if the student has successfully completed one clinical case and has completed the aforementioned exercises, they will earn a high pass (PH) If the student has neither completed the two plastic molar nor assisted as required, the student will be given a failing grade, regardless of whether clinical cases have been completed. Both the plastic molars and the postgraduate assisting must be completed in order to receive a “Pass” grade.

5. Assisting forms are to be scanned and **submitted on canvas**. Students are advised to keep a copy for their records.

6. Once you have completed 1clinical case, additional cases may be given to the D-4 students as requirements for graduation. Case distribution will be at the discretion of the Clinical Director. Criteria include and not limited to: number of teeth treated, availability, case selection, and complexity.

Minimum number of experiences prior to challenging ICPA	Type of Competency Exam	Due Date
0	Laboratory	March 30, 2022

7. The student cannot pass the course without passing any /all independent summative competency assessments

Clinical assignment:3 hrs Assisting in the Post Graduate Endodontic Clinic. At least one completed root canal treatment. COMPLETION ITEM

Laboratory assignments: initiating and completing endodontic therapy on one plastic maxillary molar and on one plastic mandibular molar.

Maxillary molar 50%
 Mandibular molar 50%
 Total 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:

Final course grade for winter will be Pass/Fail, High Pass

Course grade for summer semester will be PR

Course grade for the fall semester will be PR or NPR

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 hours3. 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.