



## *CDM 2030 - Perio II*

### I. Course Information

**Course:** CDM 2030 - Perio II  
**Semester and Year:** Fall 2021  
**Course Start and End Dates:** 07/26/2021 - 12/12/2021  
**Course Reference Number:** 23977  
**Semester Credit Hours:** 1.0  
**Building and Room:** HPD-Assembly I Building - 2101TERY

### II. Instructor Information

**Professor:** Dr. John G. Virag DMD,MSD  
**Email:** [jvirag@nova.edu](mailto:jvirag@nova.edu)  
**Phone:** 954-262-1916  
**Office Hours:**

Day	Time	Location
T	1:00pm - 4:00pm	7348

By appointment via email  
[jvirag@nova.edu](mailto:jvirag@nova.edu)

**Office Hours:**  
 By appointment

### III. Class Schedule and Location

Day	Date	Time	Location	Building/Room
M	07/26/2021 - 08/30/2021	2:10 PM - 2:59 PM	Ft Lauderdale/Davie Campus	HPD-Assembly I Building-2101TERY
M	09/13/2021 - 12/06/2021	2:10 PM - 2:59 PM	Ft Lauderdale/Davie Campus	HPD-Assembly I Building-2101TERY

### IV. Course Description

The purpose of this course is to introduce the course participant to the concepts of clinical periodontics, specifically the acute inflammatory lesions, diagnostic procedures involved in their treatment, the development of a proper treatment plan and execution of treatment. In addition, the maintenance phase will be developed after active treatment is completed. This course is teaching the basics of diagnose and treatment of periodontal disease in clinic by introducing concepts of intra- and interdisciplinary collaboration.

## V. Course Objectives / Learning Outcomes

### Course Learning Outcomes

At the completion of this course, the student will be able to Choose, Describe, Develop, Compare, Plan and Evaluate periodontal concepts pertaining to:

1. Diagnosis and treatment of non plaque induced gingival disease and acute inflammatory gingival lesions: To provide the student with basic knowledge of the diagnosis and treatment of non plaque induced gingival diseases, lesions and acute inflammatory gingival lesions, i.e. bacterial, fungal and viral diseases including ANUG and periodontal abscess; the tissue changes occurring in such lesions and the rationale for treatment including the use of systemically administered drugs.
2. Gingival disease associated with AIDS: To provide the student with basic knowledge in the diagnosis and supportive treatment of gingival disease associated with AIDS.
3. Diagnosis, signs, and symptoms of aggressive forms of periodontal disease: To provide the student with knowledge on how to diagnose aggressive forms of periodontal disease with their treatment options.
4. Periodontal inter-relationships with systemic disease, occlusion, endodontic lesions and developmental deformities or conditions: To provide the student knowledge about periodontal diseases associated with systemic diseases, lesions of endodontic origin and the interplay of occlusion and the periodontium. Developmental deformities and conditions around teeth and the periodontium and their treatment would also be discussed.

**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: Midterm written examination  
Summative Assessment: Final written examination
  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 Assessment: Midterm written examination  
Summative Assessment: Final written examination
  9. Graduates must be competent in periodontal therapy.  
[CODA Standard 2-24(i)]  
Formative Assessment: Midterm written examination  
Summative Assessment: Final written examination
  11. Graduates must be competent in managing oral mucosal and osseous disorders.  
[CODA Predoctoral Standard 2-24(k)]  
Formative Assessment: Midterm written examination  
Summative Assessment: Final written examination
  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: Midterm examination  
Summative Assessment: Final written examination
- This refers to the same as the items in the CDM Competency Document; please see them listed below.

STATEMENTS FOR THE GENERAL DENTIST

**FK1: Apply knowledge of molecular, biochemical, cellular, and systems-level development, structure and function to the prevention, diagnosis, and management of oral disease and the promotion and maintenance of oral health.**

FK1-1: Apply knowledge of the structure and function of the normal cell and basic types of tissues comprising the human body, including development and structure of periodontal tissues structure and function of oral mucosa  
**FK2: Apply knowledge of physics and chemistry to explain normal biology**

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

**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.**

FK3-2: Apply knowledge of the principles of chemistry to understand the properties and performance of dental materials and their interaction with oral structures in health and disease. (Encompasses Dental Material Sciences, Biomaterials, etc.).

Select examples include:

- advantages and disadvantages of biomaterials used in dentistry
- compatibility of dental materials both with each other and with biologic systems
- substantivity and the adhesion chemicals, drugs, dental plaque, food, etc. to dental materials or to tissues in the mouth

**FK4: Apply knowledge of the principles of genetic, congenital and developmental diseases and conditions and their clinical features to understand patient risk in the prevention, diagnosis, and management of oral disease and the promotion and maintenance of oral health.**

FK4-1: Apply knowledge of genetic transmission of inherited diseases and their clinical features to inform diagnosis and the management of oral health.

FK4-2: Apply knowledge of congenital (non-inherited) diseases and developmental conditions and their clinical features to inform the provision of oral health care.

**FK5: Apply knowledge of the cellular and molecular bases of immune and nonimmune host defense mechanisms in the prevention, diagnosis, and management of oral disease and the promotion and maintenance of oral health.**

FK5-1: Apply knowledge of the function and dysfunction of the immune system, of the mechanisms for distinction between self and non-self (tolerance and immune surveillance) to the maintenance of health and autoimmunity, including

- the role of the immune system in the pathogenesis of periodontal disease

**FK6: Apply knowledge of general and disease-specific pathology to assess patient risk in the prevention, diagnosis, and management of oral disease and the promotion and maintenance of oral health.**

FK6-1: Apply knowledge of cellular responses to injury, the underlying etiology, biochemical and molecular alterations and natural history of disease, to assess therapeutic intervention.

FK6-2: Apply knowledge of the vascular and leukocyte responses of inflammation and their cellular and soluble mediators to understand the prevention, causation, treatment and resolution of tissue injury, including

- the role that arachidonic acid-derived mediators play in various steps of acute inflammation and how the inflammatory process can be moderated by use of specific inhibitors of these mediators (COX inhibitors, aspirin)
- benefits of neutralizing various immune mediators (e.g., anti-TNF in rheumatoid arthritis) in the context of specific diseases
- benefits of regulated functions of the inflammatory response (e.g., the elimination of infectious agents)

FK6-3: Explain the interplay of platelets, vascular endothelium, leukocytes, and coagulation factors in maintaining fluidity of blood, formation of thrombi, and causation of atherosclerosis as it relates to the management of oral health, including:

- implications of the administration of local anesthesia with epinephrine to a severely atherosclerotic patient
- evaluation of patients for oral surgical procedures

FK6-4: Explain the impact of systemic conditions on the treatment of dental patients. including

- joint replacement
- osteoporosis
- bacterial endocarditis
- diabetes
- AIDS

FK6-5: Explain the mechanisms, clinical features, and dental implications of the most commonly encountered metabolic systemic diseases, including

- Diabetes
- Hyper- and hypothyroidism

**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.**

FK7-1: Apply the principles of host–pathogen and pathogen–population interactions and knowledge of pathogen structure, transmission, natural history, and pathogenesis to the prevention, diagnosis, and treatment of infectious disease, including

- mechanisms by which bacteria increase their drug resistance susceptibility
- use of anti-virals in the treatment of Herpes simplex infection
- emergence of antibiotic resistant bacteria
- components the oral microflora
- components of and formation of dental plaque
- the role of specific bacterial groups in the production of periodontal disease
- the role of bacteria in production of dental caries, pulpal and periapical pathology

FK7-2: Apply the principles of epidemiology to achieving and maintaining the oral health of communities and individuals, including

- evaluate potential effectiveness of fluoride, varnishes, brushing, flossing, mouthwashes to prevent caries, periodontal disease and oral malodor
- evaluate patterns of health and disease to better manage community oral health
- apply the principles of universal precautions in preventing the transmission of infectious diseases

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

FK8-1: Apply knowledge of pathologic processes and basic principles of pharmacokinetics and pharmacodynamics for major classes of drugs and over the counter products to guide safe and effective treatment, including

- explain modes of action of the major classes of antimicrobial drugs
- apply therapeutic strategies help minimize or prevent drug resistance
- understand the use of multiple drugs with different mechanisms of action for cancer chemotherapy

- Explain how conventional drug therapies could have side effects that impact on systemic conditions (i.e. the use of bisphosphonates and mandibular bone metabolism, the use of anti HIV protease inhibitors and caries incidence)

FK8-2: Select optimal drug therapy for oral conditions based on an understanding of pertinent research, relevant dental literature, and regulatory processes, including

- explain the limitations of the claims for therapeutic efficacy and safety as reported by oral product/pharmaceutical manufacturers

**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.**

FK9-1: Apply principles of sociology, psychology, and ethics in making decisions regarding the management of oral health care for culturally diverse populations of patients, including

- understand patient responses to treatment recommendations based on beliefs associated with cultural or ethnic background
- assess community-based interventions for prevention of oral disease

**FK10: Apply quantitative knowledge, critical thinking, and informatics tools in the prevention, diagnosis, and management of oral disease and the promotion and maintenance of oral health.**

FK10-2: Apply the principles and logic of epidemiology and the analysis of statistical data in the evaluation of oral disease risk, etiology, and prognosis, including

- understand the relative risk and attributable risk as useful guides to clinical and public oral health decision making with regard to caries, periodontal disease and oral cancer prevention
- understand the ability of a diagnostic test to discriminate between high and low risk of disease given the prevalence of the disease

## VI. Materials and Resources

**Course Required Texts and Materials:**

**Bibliography:**

**Required Texts:**

*Carranza's Clinical Periodontology*

Primary author: Newman M

Secondary authors: Takei H, Klokkevold P

Publishing House: W. B. Saunders

City, Country: Philadelphia, USA

Edition: 13<sup>th</sup>

Published: 2019

**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:**

**Supplemental Readings:**

Clinical Periodontology and Implant Dentistry, 6th edition, WILEY Blackwell, Vol. I & II  
Materials distributed during the semester on canvas, prior to or after the lecture being presented.

- 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:**

Refer to Assignments below

**Topic Outline:**

Refer to Assignments below,

**“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**

**Lectures in person or via Zoom.**

**Testing via ExamSoft.**

## IX. Assignments

**Description of Assignments, Point Value and Rubrics**

Date	Title	Assignments: Carranza 13thedition	Content Outline Lectures: DR. Virag
Aug 2	Periodontal Charting: CAL	Lecture materials: Canvas posts	Periodontal charting; Calculated attachment levels; muco-ginigival /attached gingiva
Aug 09	Diagnosis I Staging Part 1	Carranza pages:55-80;342-351; (352-364,AGG) Canvas references	AAP New Classification scheme components deriving a diagnosis stage a grade
Aug 16	Diagnosis II Staging Part 2	Articles posted in Canvas	Components of Staging chronic Periodontal Disease
Aug 23	Diagnosis Grading Part 1	See above	Components of grading chronic Periodontal Disease
Aug 30	Diagnosis Grading Part 2	See above	Components of grading Periodontal Disease

Sept 6	LABOR DAY	NO CLASS	No Class
Sept 13	Treatment planning and Prognosis of chronic periodontal disease	Carranza pages: 413-425 Canvas posts	Miller evidence based molar prognosis and Kwok/Caton prognosis designations
Sept 20	Midterm Examination	2:10-3:00 pm	
Sept 27	Case base problems	Lecture Materials	
Oct 4	Periodontal Reevaluation	Carranza pages: 506-530 Canvas posts	Treatment outcomes assessment; specialty referral protocols and guidelines
Oct 11	NUG/Acute	Carranza pages: 493-497 268-276 361-364 Canvas posts	Acute periodontal conditions including Periodontal abscesses
Oct 18	Perio systemic diseases	Carranza pages:208-236; 365-373 442-456 Canvas posts	Review of Systemic Disease impact on periodontal condition and how classify via the new classification scheme
Oct 25	Perio /Endo lesions	Carranza pages: 498-505 Canvas posts	Determining the etiology of Perio/Endo lesions and deriving a treatment plan; sequencing of treatment
Nov 1	Non-Plaque Gingivitis	Carranza pages: 256-267 Canvas posts	Desquamative Gingivitis, Hormones, fungal, viral manifestations of periodontal conditions
Nov 8	Case Base Problem Solving	Lecture materials	Diagnosis, treatment plan, prognosis assembly from sample cases
Nov15 Nov 22	Catch up and Review		
Nov 29	Final Examination		2:10:3:00 P.M.

## 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:**

The final grade is calculated from an average of the Midterm Examination (40%) and the Final Examination (60%) The Final Examination is Cumulative regarding material. Questions for either examination include, multiple choice, true/false, photo/drawing identification, essay, and short answer.

Patient Case Based questions are emphasized.

Remediation at the discretion of the Course Director

**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:**

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%202020%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](mailto:agalka@nova.edu) with a cc to [cdmservices@nova.edu](mailto: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](mailto: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](http://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](mailto:laura.bennett@nova.edu) or 954-262-7858.