



CDM 1110 - Dental Microbiology

I. Course Information

Course: CDM 1110 - Dental Microbiology
Semester and Year: Fall 2021
Course Start and End Dates: 07/26/2021 - 12/12/2021
Course Reference Number: 23941
Semester Credit Hours: 3.0
Building and Room: HPD-Assembly I Building - 2104FINK

II. Instructor Information

Professor: Algevis P Wrench PhD
Email: awrench@nova.edu
Phone: (954) 262-1345
Office Hours: By appointment.
Office Hours:
<http://www.calendly.com/drwrench/>

Virology and Mycology Professor
Joshua M. Costin, Ph.D.
 Assistant Professor, Microbiology – Medical Education
 E-Mail: jcostin@nova.edu
 Ph: 954-262-1369
 Terry Bldg., Room # 1369
 Office Hours: By appointment - <https://www.calendly.com/jcostin>

III. Class Schedule and Location

Day	Date	Time	Location	Building/Room
M	07/26/2021 - 08/30/2021	11:10 AM - 11:59 AM	Ft Lauderdale/Davie Campus	HPD- Assembly I Building- 2104FINK
W	07/28/2021 - 08/04/2021	11:10 AM - 11:59 AM	Ft Lauderdale/Davie Campus	HPD- Assembly I Building- 2106JONA
T	08/03/2021 - 10/05/2021	4:10 PM - 4:59 PM	Ft Lauderdale/Davie Campus	HPD- Assembly I Building- 2104FINK

W	08/11/2021 - 10/06/2021	11:10 AM - 11:59 AM	Ft Lauderdale/Davie Campus	HPD-Assembly I Building-2107AUDA
R	09/02/2021 - 09/02/2021	3:10 PM - 4:20 PM	Ft Lauderdale/Davie Campus	HPD-Assembly I Building-2100STEL
R	09/02/2021 - 09/02/2021	3:10 PM - 4:59 PM	Ft Lauderdale/Davie Campus	HPD-Assembly I Building-2104FINK
R	09/09/2021 - 10/07/2021	3:10 PM - 5:00 PM	Ft Lauderdale/Davie Campus	HPD-Assembly I Building-2109MELN
M	09/13/2021 - 10/04/2021	11:10 AM - 11:59 AM	Ft Lauderdale/Davie Campus	HPD-Assembly I Building-2104FINK
R	09/23/2021 - 09/23/2021	3:10 PM - 4:20 PM	Ft Lauderdale/Davie Campus	HPD-Assembly I Building-2100STEL
R	10/21/2021 - 10/21/2021	3:10 PM - 4:40 PM	Ft Lauderdale/Davie Campus	HPD-Assembly I Building-2100STEL

IV. Course Description

This course covers the nature of infectious microorganisms with emphasis on medical aspects of diseases of the oral cavity. Oral ecology and normal flora of the oral cavity are also emphasized. Topics covered are bacteriology, virology, and mycology.

V. Course Objectives / Learning Outcomes

Course Learning Outcomes

1. describe the microbial ecology of the oral cavity, including acquisition of the oral microflora.
2. identify the bacterial genera of the oral cavity.
3. compare and contrast microbial pathogens of the oral cavity with respect to morphology and pathogenesis.
4. describe the evolution of oral biofilms and development of dental caries and periodontal disease.
5. identify the major pathogens associated with infections of the organ systems of the human body.

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: Class participation and group discussion; Summative: Multiple-choice exam
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: Class participation and group discussion; Summative: Multiple-choice exam
4. Graduates must be competent in health promotion and disease prevention, including caries management. [CODA Predoctoral Standard 2-24(d)] Formative: Class participation and group discussion; Summative: Multiple-choice exam
11. Graduates must be competent in managing oral mucosal and osseous disorders. [CODA Predoctoral Standard 2-24(k)] Formative: Class participation and group discussion; Summative: Multiple-choice 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: Class participation and group discussion; Summative: Multiple-choice 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: Class participation and group discussion; Summative: Multiple-choice 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: Class participation and group discussion; Summative: Multiple-choice 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: Class participation and group discussion; Summative: Multiple-choice 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

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.
- FK7-2: Apply the principles of epidemiology to achieving and maintaining the oral health of communities and individuals.
- FK7-3: Apply the principles of symbiosis (commensalisms, mutualism, and parasitism) to the maintenance of oral health and prevention of disease.

VI. Materials and Resources

Course Required Texts and Materials:

Essential Microbiology for Dentistry, Fifth edition, 2018. L.P. Samaranayake. Churchill-Livingstone-Elsevier.

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).

- 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:

Lecture and Examination Schedule*:

Date	Time	Subject [Session Number]	Instructor
Mon, Aug 2	11:10-12:00 PM	Course Intro & Bacterial Morphology and Taxonomy [1]	Dr. Wrench
Tue, Aug 3	4:10-5:00 PM	Bacterial Physiology and Metabolism [2]	Dr. Wrench
Wed, Aug 4	11:10-12:00 PM	Bacterial Genetics [3]	Dr. Wrench
Thur, Aug 5	3:10-5:00 PM	Bacterial Pathogenesis and Diagnosis [4]	Dr. Wrench
Mon, Aug 9	11:10-12:00 PM	Epidemiology/Infection Control [5]	Dr. Wrench
Tue, Aug 10	4:10-5:00 PM	Chemotherapy/Antibiotics [6]	Dr. Wrench
Wed, Aug 11	11:10-12:00 PM	Staphylococci [7]	Dr. Wrench
Thur, Aug 12	3:10-5:00 PM	Streptococci and <i>Enterococcus</i> [8]	Dr. Wrench
Mon, Aug 16	11:10-12:00 PM	Lactobacilli, <i>Bacilli</i> , <i>Corynebacterium</i> , <i>Propionibacterium</i> [9]	Dr. Wrench
Tue, Aug 17	4:10-5:00 PM	<i>Mycobacteria</i> , <i>Nocardia</i> , <i>Actinomycetaceae</i> , [10]	Dr. Wrench
Wed, Aug 18	11:10-12:00 PM	<i>Clostridia</i> , <i>Tannerella</i> , <i>Porphyromonas</i> , and <i>Prevotella</i> , [11]	Dr. Wrench
Thur, Aug 19	3:10-5:00 PM	<i>Legionella</i> , <i>Pseudomonas</i> , <i>Chlamydia</i> , Mycoplasmas [12]	Dr. Wrench
Mon, Aug 23	11:10-12:00 PM	<i>Enterobacteriaceae</i> [13]	Dr. Wrench
Tue, Aug 24	4:10-5:00 PM	<i>Campylobacter</i> , <i>Vibrio</i> , Spirochetes [14]	Dr. Wrench
Wed, Aug 25	11:10-12:00 PM	<i>Fusobacterium</i> , <i>Neisseria</i> , <i>Veillonella</i> , and <i>Aggregatibacter</i> [15]	Dr. Wrench
Thur, Aug 26	3:10-5:00 PM	Diseases affecting the respiratory and cardiovascular tracts [16] Exam 1 Review	Dr. Wrench
Mon, Aug 30	11:10-12:00 PM	Diseases affecting the gastrointestinal tract and nervous system [17]	Dr. Wrench
Tue, Aug 31	4:10-5:00 PM	Diseases affecting the genitourinary systems and skin [18]	Dr. Wrench
Wed, Sept 1	11:10-12:00 PM	Normal Flora and Oral Ecology [19] Adherence, Acquisition and Colonization of Oral Bacteria [20]	Dr. Wrench
Thur, Sept 2	3:10-4:20 PM	Exam I- Bacteriology I Lectures 1-12 Steele Aud.	
Mon, Sept 6		Labor Day	Dr. Wrench
Tue, Sept 7	4:10-5:00 PM	Biofilms [21]	Dr. Wrench
Wed, Sept 8	11:10-12:00 PM	Dental Caries [22]	Dr. Wrench
Thur, Sept 9	3:10-5:00 PM	Periodontal Diseases [23] Clinical Correlation: Aggressive Periodontitis	Dr. Wrench Dr. Bronstein
Mon, Sept 13	11:10-12:00 PM	Dentoalveolar and Oral Mucosal Infections [24]	Dr. Wrench

Tue, Sept 14	4:10-5:00 PM	Viral Structure and Classification [1]	Dr. Costin
Wed, Sept 15		No Class	
Thur, Sept 16	3:10-5:00 PM	Viral Replication [2] Viral Pathogenesis [3]	Dr. Costin
Mon, Sept 20	11:10-12:00 PM	Viral Diagnosis [4]	Dr. Costin
Tue, Sept 21	4:10-5:00 PM	Viral Chemotherapy [5] Oral Viral & Fungal Infections	Dr. Costin Dr. Solomon
Wed, Sept 22	11:10-12:00 PM	Viral Infections I [6]	Dr. Costin
Thur, Sept 23	3:10-4:20 PM	Exam II - Bacteriology II Lectures 13-24 Steele Aud.	
Mon, Sept 27	11:10-12:00 PM	Viral Infections II [7]	Dr. Costin
Tue, Sept 28	4:10-5:00 PM	Viral Infections III [8]	Dr. Costin
Wed, Sept 29	11:10-12:00 PM	Viral Infections IV [9]	Dr. Costin
Thur, Sept 30	3:10-5:00 PM	Viral Infections V [10] Viral Infections VI [11]	Dr. Costin
Mon, Oct 4	11:10-12:00 PM	Viral Infections VII [12]	Dr. Costin
Tue, Oct 5	4:10-5:00 PM	Introduction to Mycology [1] CDM 1110 Course Integration: Viral and Fungal Oral Pathology	Dr. Costin Dr. Ison
Wed, Oct 6	11:10-12:00 PM	Mycology Infections I [2]	Dr. Costin
Thur, Oct 7	3:10-5:00 PM	Mycology Infections II & III [3,4]	Dr. Costin
Thur, Oct 21	3:10-4:40 PM	Exam III – Virology/Mycology Steele Aud.	

*Subject to change due to COVID-19 public health measures.

Topic Outline:

Learning Objectives

Section I: Basic Bacteriology

1. Describe the morphology of bacterial cells and the functions of each structure.
2. Identify the major antigens of bacterial structures.
3. Understand the phenotypic and genotypic basis for the taxonomic classification of bacteria.
4. Recognize the physiological requirements for bacterial growth and cultivation.
5. Distinguish the metabolic pathways of bacteria which are obligate aerobes, obligate anaerobes, and facultative anaerobes.
6. Illustrate the ways in which bacteria acquire and transmit genetic information and comprehend the clinical implications of these phenomena.
7. Identify bacterial factors involved in the pathogenic process.
8. Recognize the variables involved in the epidemiology of bacterial diseases.
9. Explain the laboratory tests used in the diagnosis of bacterial infections.
10. State the methods used in the different sterilization and disinfection processes.

11. Describe the antibacterial activity of antibiotics, including sites of activity and spectrum.
12. Discuss the mechanism involved in bacterial resistance to penicillins and other antimicrobials.

Section II: Pathogenic Bacteriology

1. List the taxonomic names, disease names, and common characteristics of the pathogenic and opportunistically pathogenic bacteria.
2. State the reservoirs, geographical distribution, and mode of transmission by which humans acquire pathogenic bacteria.
3. Identify unique or distinguishing characteristics of the pathogenic bacteria.
4. Describe the bacterial pathogenesis of plaque, caries, and periodontal disease.
5. Describe the bacterial pathogenesis of dento-alveolar and.
6. Recall the laboratory tests used in the diagnosis of specific bacterial diseases.
7. Determine the appropriate treatment for each bacterial disease.
8. Identify, when appropriate, prophylactic immunization in bacterial diseases.

These objectives are for infections caused by the following genera/family/groups of bacteria, and/or involvement of normal flora in the disease process.

Gram(+) Cocci/bacilli, Gram(-) Cocci/bacilli, Staphylococci, Streptococci, *Enterococcus*, Lactobacilli, *Corynebacterium*, *Propionibacterium*, Mycobacteria, Actinomycetaceae, Clostridia, Black Pigmenting Bacteria (*Bacteroides*, *Porphyromonas*, *Prevotella*, *Tannerella*), *Fusobacterium*, *Neisseria*, *Veillonella*, *Aggregatibacter*, Enterobacteriaceae (*Escherichia*, *Klebsiella*, *Enterobacter*, *Serratia*, *Citrobacter*, *Proteus*, *Salmonella*, *Shigella*), *Campylobacter*, *Vibrio*, Spirochetes, *Legionella*, *Pseudomonas*, *Chlamydia*, *Mycoplasma*.

Section III: Clinical Bacteriology

1. Identify the major microbial pathogens, epidemiology, diseases, diagnosis and treatment associated with infections of all organ systems of the human body.
2. Identify major groups of bacteria comprising the normal flora of the human body and describe the ecological roles they play.
3. Describe oral habitats for bacteria.
4. Describe factors in the oral cavity that affecting microbial colonization and growth.
5. Describe the ecological succession of oral bacteria including biofilm formation.
6. State host and bacterial factors involved in bacterial adherence in the oral cavity.
7. Describe the bacterial climax community.
8. Explain the concepts of host-parasite interactions.
9. Describe the clinical manifestations, pathogenicity and etiology of dental caries.
10. Describe the clinical manifestations, pathogenicity and etiology of periodontal diseases.
11. Describe the clinical manifestations and etiology of dentoalveolar and oral mucosal infections.

Section IV: Basic Virology

1. Recognize the basic characteristics of viruses and the structural and compositional elements used in viral classification.
2. Identify the characteristics of viruses used for classification.
3. Describe the basic strategies used by viruses to replicate.
4. Explain the methods viruses use to alter their genetics.
5. State the morphological changes seen in cells following infection with viruses.
6. Compare the antiviral mechanisms of drugs used to treat viral infections.
7. Describe vaccines that are used to prevent viral infections.
8. Indicate the basic types of pathogenic changes in tissue following viral infection.
9. Describe the methods used to identify viral infections.

Section V: Pathogenic Virology

1. State the taxonomic and common names of pathogenic viruses and give their distribution, source of infection, and mode of transmission.
2. Relate the pathogenic conditions to the clinical symptoms associated with each viral disease.

These objectives are for infections caused by the following genera of viruses.

Alphapapillomavirus, Mastadenovirus, Simplexvirus, Varicellovirus, Cytomegalovirus, Roseolavirus, Lymphocryptovirus, Hepacivirus, Orthohepadnavirus, Hepatovirus, Enterovirus, Alphainfluenzavirus, Betainfluenzavirus, Gammmainfluenzavirus, Orthorubulavirus, Morbillivirus, Orthopneumovirus, Rotavirus, Rubivirus, Lentivirus, Rhadinovirus, Alphacoronavirus, Betacoronavirus

Section VI: Mycology

1. List the taxonomic and disease names of each fungal infection.
2. State the reservoirs, distribution, and mode of transmission of each mycotic disease.
3. Relate the pathogenic conditions to the clinical symptoms associated with each mycotic disease.
4. Explain the type of immunity that develops after infections with each pathogen.
5. Describe the diagnostic characteristics of each type of fungal infection.
6. Recall the treatment for each of the mycoses.

These objectives are for infections caused by the following genera of fungi:

Candida, Blastomyces, Histoplasma, Rhizopus, Mucor, Cryptococcus, Malassezia, Microsporium, Trichophyton, Epidermophyton, Aspergillus, and Coccidioides.

“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. Assignments

Description of Assignments, Point Value and Rubrics

Independent Assignments: Additional readings may be added at any point in the course.

IX. 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:

Grading Procedure:

Evaluation of student performance is determined based on three examinations. Examinations cover lecture presentations, lecture handouts posted in Canvas, and assigned reading material. The two bacteriology examinations contain 40 multiple choice type questions. The virology/mycology examination contains 50 multiple choice type questions. Students will have 70 minutes for the bacteriology examinations and 90 minutes for the virology/mycology examination. Grades will be posted 2-5 days after the examination.

Distribution of Points:

<u>Evaluation</u>	<u>Points</u>
Examination I (Bacteriology I)	40
Examination II (Bacteriology II)	40
Examination III (Virology/Mycology)	<u>50</u>
Total Points	130

Passing grade is 91/130 = 70%

Course grades will be determined using the following table as stated in the 2021-2022 NSU-CDM Predoctoral Student Handbook.

XI. Course Policies

Syllabus

Syllabus is subject to change.

Examination Policies and Procedures*

***Subject to change due to COVID-19 public health measures.**

Please refer to the appropriate pages of the 2021-2022 NSU-CDM Predoctoral Student Handbook. Students are required to take each examination at the assigned time. Students who enter the room after the announced start of an examination may not be allowed to take the test. Students will only be permitted to take an examination or quiz if no student has already left the examination/quiz location(s). In this situation, the student(s) must finish the examination at the same designated time as the rest of the class and is not provided with additional time.

Examinations will be delivered electronically via ExamSoft™. Students are required to arrive with their iPads® appropriately configured to take the exam (**charged and with the exam already downloaded**). Students will be able to download the exam at least 24 hours **prior** to any exam.

All personal items (including but not limited to backpacks, bookbags, purses, laptop computers, notebooks, papers, pens, pencils, cell phones, watches, pagers, calculators, PDA's, iPad® accessories and charger, pen/pencil cases, hats, and hoods) are to be left at the front of the auditorium/test area OR outside of the test area entirely during all examinations and must not be accessed during the test. All other items must be placed away from the test area.

Students will be able to use scratch paper and pen/pencil during the exam. Only paper and pen/pencil distributed by the faculty or staff member may be used. **Students must clearly write the date, name, and sign the provided scratch paper.** At the end of the examination, students must **turn in the scratch paper** to the proctors before leaving the exam room. **Avoiding doing so will result in a penalty of five points off on the exam.**

During the examination, proctors will **not** be allowed to answer student's questions.

Student must remain seated until their exam is submitted, and the ExamSoft "green screen" is displayed. Students will check out of the exam by showing the ExamSoft "green screen" to the proctors.

Students are not permitted to challenge examinations, quizzes, or specific examination or quiz questions.

A post-examination review may be individually scheduled at the discretion of the instructor.

Students will be reported to the College of Dental Medicine's Office of Academic Affairs and the Student Progress Committee if these policies are not followed.

Make-up Examinations:

Students are expected to take all examinations at their originally scheduled times. When an examination is missed, it is the responsibility of the student to contact the College of Dental Medicine's Office of Academic Affairs for granting of excused absences. Additionally, the student must communicate the absence to the course director. Granting of an excused absence is at the discretion of the Associate Dean for Academic Affairs per CDM policies, documentation, and process. Whenever possible, this should be done prior to the original schedule examination.

If a student does not take an examination at its scheduled time, then the student will be required to take a make-up examination. This also includes if the exam is missed due to the student not having the requirements to take the exam (see section on examination policies and procedures). Students who have an **excused** absence will be allowed a make-up test to be given within 12 business days following the date of the missed examination. Students who have an **unexcused** absence from an examination will **not** be given a make-up examination and will result in a grade of 0 (zero) for the missed examination. Make-up examinations will consist of **short answer/essay questions**. The date, time, and location of all make-up examinations will be determined by the course director.

Remediation Policy:

Please refer to appropriate pages of the 2021-2022 NSU-CDM Predoctoral Student Handbook or the most current version.

Attendance Policy:

Mandatory attendance for this course is required.

Granting of excused absence from lectures is at the discretion of the Associate Dean for Academic Affairs per CDM policies, documentation, and process.

Please refer to appropriate pages of the 2021-2022 NSU-CDM Predoctoral Student Handbook.

Course and Instructor Evaluation

Evaluation by the students of the course and instructors shall be carried out at the end of the course. The results will be presented to the Academic Curriculum Committee.

NSU Class Recording Policy

Class content throughout this course may be recorded in accordance to 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 students'

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 disclosures 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.

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

X. 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 clinicweeks. • 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

XI. 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.