



CDM 3011 - Oral and Maxillofacial Diagnosis III

I. Course Information

Course: CDM 3011 - Oral and Maxillofacial Diagnosis III
Semester and Year: Winter 2021
Course Start and End Dates: 01/04/2021 - 04/25/2021
Course Reference Number: 31878
Semester Credit Hours: 1.0

II. Instructor Information

Professor: Dr. Lynn W Solomon
Email: lsolomon1@nova.edu
Phone: 954-262-7382
Office Hours: By appointment
Office Hours:
 By Appointment

III. Class Schedule and Location

Day	Date	Time	Location	Building/Room
W	01/06/2021 - 04/21/2021	10:10 AM - 11:00 AM	Ft Lauderdale/Davie Campus	-

IV. Course Description

Oral and Maxillofacial Diagnosis III (Oral and Maxillofacial Pathology) is a didactic lecture oriented course, continuation of Oral Diagnosis II, which consists of 12 one hour lecture, 4 clinical pathology conferences and two examinations. The course focuses in etiology, clinical, radiographic and histologic manifestations, as well as prognosis and treatment, of mainly radiographic entities involving the head and neck. Differential diagnosis will be emphasized. A large component of this course is design as case related learning. Several Clinical Pathology Conferences (CPC) are part of this course. Actual cases, most of them from Nova Southeastern University, Radiology and Oral Surgery Clinic, are discussed, as if the patient is at the dental chair. After knowing the chief complaint and medical history, the students discuss the clinical presentation of the lesion, and they “request” radiographs and/or laboratory tests. Then clinical and radiographic manifestations and laboratory tests results are consolidated in order to obtain a differential diagnosis. Differential diagnosis is always emphasized, treatment and prognosis are also discussed, giving clinical relevance to the course. The students should apply the knowledge acquired in, Radiology, General Pathology, Pharmacology, Oral Surgery and Oral Pathology. The CPC constitute a way of self-assessment and the students need to apply critical thinking to “resolve” the cases. Most of the cases studied during the CPCs are evaluated during the mid and final tests. The tests are based on clinical cases and the answers should follow the same way of thinking of the CPCs. To facilitate learning of radiographic lesions of the jaws and to make easier the radiographic diagnosis, and interactive radiology flow chart with

exercises is an important part of this course. The variety of maxillofacial lesions with radiographic manifestations makes imperative the use of a flow chart in order to facilitate the process of arriving to a differential radiographic diagnosis. Examples of each radiographic appearance and case illustrations are posted in Blackboard, for the students to expand their understanding of radiographic manifestations and facilitate to reach a logical diagnosis. With this interactive process, the students reach a diagnosis easier than before and enjoy the activity as well. It is user friendly and effective.

V. Course Objectives / Learning Outcomes

Course Learning Outcomes

Achieving competency, motivation and confidence in the diagnosis of oral diseases is designed by successfully completing the Oral and Maxillofacial Pathology (CDM 3011) course. At the completion of this course, students will be able to:

- 1.1 Develop a comprehensive knowledge of the oral diseases, mainly radiographic conditions, including etiology, pathogenesis, diagnosis, prognosis and treatment.
- 1.2 Recognize oral manifestations of systemic disease.
- 1.3 Recognize the clinical pathologic and radiographic changes in tissues.
- 1.4 Interpret clinical and radiographic signs and symptoms and develop appropriate differential diagnoses.
- 1.5 Describe the diagnostic histopathology of diseases with radiographic appearance involving the head and neck.
- 1.6 Understand the therapeutic approach of specific oral diseases
- 1.7 Be able to make a differential diagnosis of the maxillofacial diseases with radiographic manifestations.

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)] (Summative – midterm & final examinations) (Summative – midterm & final examinations)
2. Graduates must be competent in screening and risk assessment for head and neck cancer. [CODA Predoctoral Standard 2-24(b)] (Summative – midterm & final examinations)
3. Graduates must be competent in recognizing the complexity of patient treatment and identifying when referral is indicated. [CODA Predoctoral Standard 2-24(c)] (Summative – midterm & final examinations)
11. Graduates must be competent in managing oral mucosal and osseous disorders. [CODA Predoctoral Standard 2-24(k)] (Summative – midterm & final examinations)
15. Graduates must be competent in the evaluation of the outcomes of treatment, recall strategies, and prognosis. [CODA Predoctoral Standard 2-24(o)] (Summative – midterm & final examinations)
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] (Summative – midterm & final examinations)
19. Graduates must be competent in the application of biomedical science knowledge in the delivery of patient care. [CODA Predoctoral Standard 2-15] (Summative – midterm & final examinations)
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] (Summative – midterm & final examinations)

25. Graduates must be competent in the application of the principles of ethical decision making and professional responsibility. [CODA Predoctoral Standard 2-21] (Summative – midterm & final examinations)

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] (Summative – midterm & final examinations)

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

VI. Materials and Resources

Course Required Texts and Materials:

Required Texts-

Oral and Maxillofacial Pathology

Resource Type: Book

Authors: Neville, B. W., Damm, D. D., Allen C. M., Chi, A. C.

Elsevier, 4th Ed 2016

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:

CDM 3011 - Course Schedule and Topic Outline - Winter 2021				
Date	Class #	Lecture #	Course Materials	Topic / Content Outline
1/6	1	1	N/A	Radiographic Abnormalities: Description & interpretation
1/13	2	2	Neville Appendix Part 4 Radiographic pathology	Radiolucent lesions 1 Unilocular: A. Pericoronal Hyperplastic dental follicle, Dentigerous cyst, Eruption cyst, Odontogenic keratocyst, Orthokeratinized odontogenic cyst, Ameloblastoma (unicystic), Ameloblastic fibroma Unilocular: B. Periapical Periapical granuloma / cyst, Cemento-osseous dysplasia, Periapical scar
1/20	3	3	Neville Appendix Part 4 Radiographic pathology	Radiolucent lesions 2 Unilocular: C. Other locations Developing tooth bud, Lateral radicular cyst, Nasopalatine duct cyst, Lateral periodontal cyst, Residual cyst, Odontogenic keratocyst, Central giant cell lesion, Stafne bone defect, Cemento-osseous dysplasia, Central ossifying fibroma, Ameloblastoma, Buccal bifurcation cyst, [Other odontogenic cysts & tumors – covered in lectures 4 & 8]
1/27	4	4	Neville Appendix Part 4 Radiographic pathology	Radiolucent lesions 3 D. Multilocular Odontogenic keratocyst, Ameloblastoma, Central giant cell lesion, Ameloblastic fibroma, Odontogenic myxoma, Central odontogenic fibroma, Calcifying epithelial odontogenic tumor, Orthokeratinized odontogenic cyst, Lateral periodontal cyst (botryoid type), Calcifying odontogenic cyst, Central hemangioma / AV malformation, Aneurysmal bone cyst
2/3	5	5	Neville Appendix Part 4 Radiographic pathology	Radiolucent lesions 4 E. Poorly defined or ragged borders Periapical granuloma / cyst, Focal osteoporotic marrow defect, Osteomyelitis, MRONJ, Simple bone cyst, Metastatic tumors, Osteoradionecrosis, Primary intraosseous carcinomas, Sarcomas: Osteosarcoma, Chondrosarcoma, Ewing sarcoma, [Multiple myeloma – covered in lecture 6]
2/10	6	6	Neville Appendix Part 4 Radiographic pathology	Radiolucent lesions 5 F. Multifocal or generalized Cemento-osseous dysplasia, Nevoid basal cell carcinoma syndrome, Multiple myeloma, Cherubism, Hyperparathyroidism, Langerhans cell histiocytosis

2/17	7	7	Neville Appendix Part 4 Radiographic pathology Lectures 1-6	Radiopacities 1 G. Well-demarcated borders Torus or exostosis, Retained root tip, Idiopathic osteosclerosis, Pseudocyst of the maxillary sinus, Condensing osteitis, Odontoma (compound / complex), Cemento-osseous dysplasia, [Soft tissue radiopacity superimposed on bone - covered in lecture 11], Intraosseous foreign body, Osteoma, Enamel pearl, Osteoblastoma/ osteoid osteoma, Cementoblastoma
2/24	8	8	Neville Appendix Part 4 Radiographic pathology	Radiopacities 2 H. Poorly demarcated borders Cemento-osseous dysplasia, MRONJ, Condensing osteitis, Sclerosing osteomyelitis, Fibrous dysplasia, Paget disease of bone, Proliferative periostitis, Osteosarcoma / Chondrosarcoma
3/3	Spring Break			
3/10	9	Midterm exam	Lectures 1-6	
3/17	10	9	Neville Appendix Part 4 Radiographic pathology	Radiopacities 3 I. Multifocal or generalized Florid cemento-osseous dysplasia, MRONJ, Idiopathic osteosclerosis, Paget disease of bone, Gardner syndrome, Polyostotic fibrous dysplasia, Osteopetrosis
3/24	11	10	Neville Appendix Part 4 Radiographic pathology	Mixed RL / RO lesions 1 J. Well-demarcated borders Developing tooth, Cemento-osseous dysplasia, Odontoma, Central ossifying fibroma, Ameloblastic fibroodontoma, Adenomatoid odontogenic tumor, Calcifying epithelial odontogenic tumor, Calcifying odontogenic cyst, Osteoblastoma/osteoid osteoma, Cementoblastoma K. Poorly demarcated borders MRONJ, Osteomyelitis, Metastatic carcinoma, Osteosarcoma/chondrosarcoma
3/31	12	11	Neville Appendix Part 4 Radiographic pathology	Mixed RL / RO lesions 2 L. Multifocal or generalized Florid cemento-osseous dysplasia, MRONJ, Paget disease of bone Unique radiographic appearances M. "Ground glass" Fibrous dysplasia, Hyperparathyroidism N. "Cotton wool" Cemento-osseous dysplasia, Paget disease of bone, Gardner syndrome, Gigantiform cementoma O. "Sunburst" Osteosarcoma, Intraosseous hemangioma P. "Onion-skin" Proliferative periostitis, Ewing sarcoma, Langerhans cell histiocytosis

4/7	13	12	Neville Appendix Part 4 Radiographic pathology	Q. Soft Tissue Radiopacities Amalgam tattoo, Other foreign bodies, Sialolith, Tonsillooliths, Phlebolith, Calcified lymph nodes, Osseous & cartilaginous choristomas, Calcinosis cutis, Myositis ossificans
4/14	14	Final exam	Lectures 7-12	

“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

There are two written examinations, a midterm and a final. Each consists of 50 multiple choice questions. Each question is worth 2 points, for a total of 100 points / exam.

No questions will be answered by exam proctors. If there is a typo, numbering issue, duplicated question, etc. it will be dealt with after the test at the discretion of the course director. Challenges to exam questions must be submitted by email to the course director within 24 hours after the examination has been given.

Students with an unexcused absence will receive a grade of zero for that test. Students with an excused absence will not receive a grade higher than 70 on their make-up exam. The format of the make-up exam, i.e. multiple choice questions, oral examination or written essay, is at the discretion of the course director. Students who must remediate the course for any reason will have a written essay test.

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:

Passing grade: 70% grade will be converted to letter grade using conversion chart below.

Midterm 50%

Final 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:

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 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

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.