



CDM 1357 - Case Based Integrated Restorative Sciences III

I. Course Information

Course: CDM 1357 - Case Based Integrated Restorative Sciences III
Semester and Year: Summer I 2021
Course Start and End Dates: 05/03/2021 - 07/25/2021
Course Reference Number: 50197
Semester Credit Hours: 3.0

II. Instructor Information

Professor: Jeffrey Shiffman
Email: jshiffman@nova.edu
Office Hours:
 Office room #7376 - Thursday afternoons and by appointment.

III. Class Schedule and Location

Day	Date	Time	Location	Building/Room
M	05/03/2021 - 07/21/2021	1:10 PM - 5:00 PM	Ft Lauderdale/Davie Campus	-

IV. Course Description

The summer IRDS Course is a continuation of the Fall and Winter IRDS Courses. Course content from Dental Anatomy, Fundamentals of Occlusion, Operative Dentistry, Dental Biomaterials, Cariology, Prosthodontics, and Record Keeping have been integrated into a case based course utilizing knowledge and critical thinking skills obtained in the Fall and Winter Semesters.

V. Course Objectives / Learning Outcomes

Course Learning Outcomes

"At the completion of this course, the student will be able to:

1. Understand and know basic principles of adhesion of dental materials to enamel and dentin.
2. Understand and know the principles of tooth preparation for composite resins and amalgam restorations
3. Use critical thinking skills to access restorative needs of patients and be able to complete the necessary procedures
4. Demonstrate limited use of the axiUm dental software program as used in all CDM clinics.
5. Demonstrate ability to complete patient notes on electronic health record form
6. Demonstrate ability to chart dental findings on EHR odontogram

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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:

6. Graduates must be competent in the restoration of teeth.

Formative-daily lab projects; Summative-IPPA & Case-based practicals
[CODA Predoctoral Standard 2-24(f)]

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.

Formative-daily lab projects; Summative-IPPA & Case-based practicals
[CODA Predoctoral Standard 2-10]

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.

Formative-daily lab projects; Summative-IPPA & Case-based practicals
[CODA Predoctoral Standard 2-10]

- 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.

FK1-7: Apply knowledge of biological systems and their interactions to explain how the human body functions in health and disease. (Encompasses Physiology, General and Systems Pathology, etc.).

FK1-8: Apply knowledge of the principles of feedback control to explain how specific homeostatic systems maintain the internal environment and how perturbations in these systems may impact oral health. (Encompasses in Physiology, Systems Pathology, Oral Medicine, Pharmacology, etc.).

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.).

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

FK8-2: Select optimal drug therapy for oral conditions based on an understanding of pertinent research, relevant dental literature, and regulatory processes. (Encompasses Clinical and Applied Pharmacology, Public Health Policy, Evidence Based Dentistry, Biomedical Research, etc.).

VI. Materials and Resources

Course Required Texts and Materials:

Contemporary Fixed Prosthodontics, 5th Edition. Rosenstiel ISBN: 978-0-323-08011-8

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:

1. Lecture outlines from IRDS I and II
 2. Laboratory outlines
 3. Course Syllabus
- 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:

Lab	Date	Topic	Lecturer	Location	
		IRDS III – Case Based Integrated Restorative Dental Sciences (Schedule and format subject to change)			
	05-03-21	Quadrant Sequencing – Direct and Indirect Restorations	Dr. Shiffman	Zoom	Meeting ID: 967 6900 0878
1	05-05-21 A/B	Full crown preparation #8 (D2752)	Dr. Antonelli Reading assignment: <i>Rosenthal, Chapter 9</i>	Sim Lab	Meeting ID: TBD
2	05-10-21 A/B	Fabrication of Crown Provisional #8	Dr. Antonelli Reading assignment: <i>Rosenthal, Chapter 9</i>	Sim Lab	Meeting ID: TBD
3	05-12-21 A/B	Case 1: Tooth #8 ML (D2331), Tooth #5 MO (D2392)	Dr. Shiffman	Sim Lab	
4	05-17-21 A/B	Case 2: Tooth #30 MOD (D2393), Tooth #29 B (D2391), Tooth #28 MO (D2392)	Dr. Shiffman	Sim Lab	
5	05-19-21 A/B	Case 3: Tooth #23 DL (D2331), Tooth #24 MDLB	Dr. Shiffman	Sim Lab	Tooth #24 wear due to over contoured opposing tooth
	05-24-21 05-26-21	SUMMER BREAK	SUMMER BREAK	SUMMER BREAK	
6	06-07-21 A/B	Case 4: Tooth #14 MO (D2392), Tooth #14 DOL (D2393)	Dr. Shiffman	Sim Lab	

7	06-09-21 A/B	Case 5: Tooth #11 DL (D2331), Tooth #11 F (D2330), Tooth #12 DO (D2392)	Dr. Shiffman	Sim Lab	
8	06-14-21 A	IPPA Mdterm (Mock Boards Class III) *Group B Zoom lecture: Onlay preparation	Dr. Shiffman	Sim Lab	Meeting ID: TBD
9	06-16-21 B	IPPA Mdterm (Mock Boards Class III) *Group A Zoom lecture: Onlay preparation	Dr. Shiffman	Sim Lab	Meeting ID: TBD
10	06-21-21 A/B	Case 6: Tooth #9 MLF (D2335), Tooth #11 ML (D2331)	Dr. Shiffman	Sim Lab	Tooth #9 multishade w/ filtek supreme shade selector wheel
11	06-23-21 A/B	Onlay preparation: MODB #30 (D2543)	Dr. Antonelli Reading assignment: <i>Rosenthal, Chapter 9</i>	Sim Lab	Meeting ID: TBD
12	06-28-21 A/B	Fabrication of Provisional Restorations	Dr. Antonelli	Sim Lab	
13	06-30-21 A/B	Case 7: Tooth #19 MODB (D2393), Tooth #21 O (D2391)	Dr. Shiffman	Sim Lab	Tooth #19 complex prep w/ MB cusp reduction for core buildup (no restoration)
14	07-07-21 A/B	Case 8: Tooth #3 MO (D2392), Tooth #4 DO (D2392)	Dr. Shiffman	Sim Lab	
15	07-12-21 B	IPPA FINAL (Mock Boards Class II)	Dr. Shiffman	Sim Lab	
16	07-14-21 A	IPPA FINAL (Mock Boards Class II)	Dr. Shiffman	Sim Lab	
	07-19-21	Remediation / Make up (TBD)	Dr. Shiffman	Sim Lab	

Topic Outline:

Please refer to course schedule.

“Important note – Please note that due to the current Coronavirus pandemic, course schedules and course activities may be modified now and in future.

Faculty and students are responsible for keeping apprised of these changes and adjusting their schedules accordingly.”

VIII. Instructional Methods

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

Lectures will be held via Zoom.

Hands on exercises and practical exams will be held in the simulation laboratory.

Netiquette, Professionalism and Telepresence

- As Telehealth has become essential in delivering health care, we ask that you maintain the appropriate telepresence as you would in any professional setting during the Zoom presentations.
- Despite the virtual format, students must be as present as possible by not engaging in other activities available on their electronic device used for Zoom access.
- Please be sure to have your electronic device on a firm surface and you are sitting in chair with adequate support for your core.
- Each student's camera must remain on for the duration lectures to promote active participation.
- Students are expected to be engaged and offer their insight, questions, or comments when appropriate.

IX. Assignments

Description of Assignments, Point Value and Rubrics

Each laboratory session the student will be assigned specific restorative procedures to be completed within a set time limit.

Grading Rubric Definitions

Preparation

Satisfactory	Needs Improvement	Unsatisfactory
NO bevels on cavosurface margins	Wall orientation slightly over-divergent or overconvergent	Presence of friable enamel (lack of dentin support)
NO friable enamel	Slightly rough walls	Presence of hooks, lips
Complete removal of caries (infected dentin)	Slight overpreparation that does not compromise pulpal health	Overprepared tooth, compromising pulpal health
Proper depth	Slight under-preparation that can be corrected	No or very inadequate clearance
Proper wall orientation	Slight deviation from ideal clearance	Gross caries left behind
Contacts broken appropriately	Difficulty in caries identification	Difficulty identifying inadequate depth (very shallow preparation for the restorative material)
Smooth walls	Uneven walls	Very excessive clearance
Grooves followed correctly	Pulpal axial line angle sharp	
Pulpal axial line angle rounded	Cavosurface margin in occlusal contact area	

Restoration:

Satisfactory	Needs Improvement	Unsatisfactory
No excess or submargination	Rough surface	Gross Excess, submargination, voids
Adequate proximal contact	Detectable pits	Same or adjacent tooth damage
Ideal occlusal contacts	Light or very heavy proximal contact	Open proximal contact
Smooth surface finish	Flat or over-contoured occlusal anatomy	Restoration bonded to the adjacent tooth
Correct Anatomy (marginal ridge, fossae, embrasure)	Small excess that can be corrected with further finishing	No occlusion
Line angles and restoration length matches /mirrors adjacent and/or contralateral	Lacks embrasures, line angles that can be fixed with further finishing	Gross anatomy errors that would require extensive add-on or remake
	Difficulty identifying improper occlusal contacts	Rubberdam or wedge remnants

STUDENT: COMPLETE ALL INFORMATION BELOW (PLEASE PRINT)

Restorative RVU Exercises Class II () Class III ()		TYPODONT	STUDENT NAME:
DATE	TOOTH	SURFACE	RESTORATIVE MATERIAL

FACULTY: COMPLETE ALL INFORMATION BELOW (PLEASE PRINT)

INITIALS	FACULTY NAME	DATE	Examiner Signature	FINAL GRADE
START TIME	END TIME			

PREPARATION	S or N or U	S or N or U	COMMENTS	
Criteria	Student Grade	Faculty Grade	Student	Faculty
Access Enamel surface, preparation walls smooth				
Depth (pulpal and axial)				
Wall Orientation including Enamel Support				

RESTORATION	S or N or U	S or N or U	COMMENTS	
Criteria	Student Grade	Faculty Grade	Student	Faculty
Cavosurface (excess, submargination)				
Restoration Surface				
Anatomy				
Isolation and Matrix				

S = Satisfactory (91%)	N = Needs improvement (75%)	U = Unsatisfactory (60%)
GRADES		
Grade S in all criteria 91%		Grade S x7 plus Grade N x1 89%
Grade N in all criteria 75%		Grade S x6 plus Grade N x2 87%
Grade U in any criteria = 60% for IPPA		Grade S x5 plus Grade N x3 85%
		Grade S x4 plus Grade N x4 83%
		Grade S x3 plus Grade N x5 81%
		Grade S x2 plus Grade N x6 79%
		Grade S x1 plus Grade N x7 77%

Faculty Examiners: Only IRDS faculty examiners mentioned above can grade the exams.
 All grades are final. Grades less than 75% will receive a failing grade.
 Please contact Drs. Shiffman, Hack or Killinc with any questions.

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:

- 50% Laboratory projects daily grades
- 50% Practical exams (average of practical exams)

Laboratory project rubrics will be distributed for each of the assignments prior to the lab date.

Practical exams that will be graded as:

- S (95%)
- N (75%)
- U (60%)

A minimum grade of 70% must be achieved in order to pass the course.

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:

Pass/Fail

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 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

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.