



***CDM 1266 - Integrated Restorative Dental Sciences
Laboratory II***

I. Course Information

Course: CDM 1266 - Integrated Restorative Dental Sciences Laboratory II
Semester and Year: Winter 2021
Course Start and End Dates: 01/04/2021 - 04/25/2021
Course Reference Number: 31872
Semester Credit Hours: 4.0

II. Instructor Information

Professor: Stanley Louis Hack
Email: shack@nova.edu
Office Hours:
 Monday 8:30am - 12:00 pm
 Thursday 1:00 pm- 5:00pm

III. Class Schedule and Location

Day	Date	Time	Location	Building/Room
	01/04/2021 - 04/25/2021		Ft Lauderdale/Davie Campus	-

IV. Course Description

The IRDS I laboratory course is an integrated hands-on program and a continuation of the IRDS I laboratory course. It runs concurrently with the lecture component and includes objectives from the following disciplines: dental anatomy, fundamentals of occlusion, operative dentistry, dental biomaterials, cariology, and fixed prosthodontics. The IRDS course integrates the principles from these disciplines in order to prepare students for a comprehensive care competency based clinical curriculum.

V. Course Objectives / Learning Outcomes

Course Learning Outcomes

At the completion of this course and with the knowledge learned in the didactic portion, the student will be able to:

1. Recognize the vital importance of mastering the concepts of dental anatomy of the permanent and primary dentitions and understand its application to clinical dentistry.
2. Demonstrate the understanding and use of basic dental terminology.
3. Understand external and internal tooth morphology and function.
4. Identify each tooth type and recognize variations in tooth morphology.
5. Identify the morphology of the pulp space and root anatomy of each permanent tooth and be familiar with that of the primary dentition; diagram representative tooth types in the permanent dentition.

6. Reproduce a tooth with its corresponding contours in wax via wax-up or block carving techniques.
7. Reproduce in wax the relationship of each tooth type to its adjacent and opposing teeth and to related structures and be able to adjust a malocclusion into a normal and healthy scheme based on the fundamentals of form (anatomy) and function (occlusion).
8. Describe comparative anatomy of the permanent and primary dentitions.
9. Describe basic principles of adhesion of dental materials to enamel and dentin.
10. Identify the principals of tooth preparation for composite resin, amalgam glass ionomer (GI) and full crown restorations and apply those principles to perform laboratory preparations and restorations in correct occlusion.
11. Perform the various classes of cavity preparations for resin composite, glass ionomer and amalgam restorations.
12. Describe the mechanical and physical properties of the dental materials presented in the lecture course and utilized in the laboratory including: resin composite, amalgam, glass ionomer, alginate impression material, casting metals and gypsum products.
13. Demonstrate the proper techniques for the manipulation of the above stated materials for the restoration of teeth.
14. Employ proper safety procedures for all materials used in the laboratory including resin composite and amalgam dental restorations.
15. Visualize three-dimensional objects and will have improved visual and motor skills.

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:

Related Competencies (as defined by educational outcomes):

4. Graduates must be competent in health promotion and disease prevention, including caries management.
[CODA Predoctoral Standard 2-24(d)]

Formative Assessments - Daily Projects
Summative Assessments - IPPAs

6. Graduates must be competent in the restoration of teeth.
[CODA Predoctoral Standard 2-24(f)]

Formative Assessments - Daily Projects
Summative Assessments - IPPAs

26. Graduates must be competent in the use of critical thinking and problem-solving, including their use in the comprehensive care of patients, scientific inquiry and research methodology.
[CODA Predoctoral Standard 2-10]

Formative Assessments - Daily Projects
Summative Assessments - IPPAs

27. Graduates must demonstrate competence in the ability to self-assess, including the development of

professional competencies and the demonstration of professional values and capacities associated with self-directed, lifelong learning.
[CODA Predoctoral Standard 2-11]
Formative Assessments - Daily Projects
Summative Assessments - IPPAs

- 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

FK1-1: Apply knowledge of the structure and function of the normal cell and basic types of tissues comprising the human body. (Encompasses Gross and Head and Neck Anatomy, General and Oral Histology, Dental Anatomy, Occlusion, TMJ, etc.).

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.

FK3-2: 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.).

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.

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

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.

VI. Materials and Resources

Course Required Texts and Materials:

Required Texts:

Anusavice, Kenneth J. *Phillips' Science of Dental Materials, 12th Edition*. W.B. Saunders Company, 09/2012.

Dawson. *Functional Occlusion*. C.V. Mosby, 07/2006.

Hilton, Thomas J. *Summitt's Fundamentals of Operative Dentistry: A Contemporary Approach, 4th Edition*. Quintessence, 10/2013.

Kidd, Edwina. *Essentials of Dental Caries: The Disease and Its Management, 3rd Edition*. Oxford University Press, USA, 06/2005.

Rosenstiel, Stephen F., Martin F. Land, Junhei Fujimoto. *Contemporary Fixed Prosthodontics, 4th Edition*. C.V. Mosby, 06/2006.

Scheid, Rickne C.,. *Woelfel's Dental Anatomy, 9th Edition*. Wolters Kluwer Health, 02/2016.

Shillingburg, Herbert T. *Fundamentals of Tooth Preparation: For Cast Metal and Porcelain Restorations*. Quintessence Publishing (IL), 01/1987.

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 References:

IRDS Laboratory Course on Canvas

1. Lecture outlines
2. Laboratory outlines
3. Course syllabus and schedule

4. Concise Dental Anatomy and Morphology. James L. Fuller, Gerald E. Denehy, Thomas M. Shulein. 4th Edition. 2001. Unit #2. Pages: 23-38 (Library)

5. Okeson. *Management of Temporomandibular Disorders and Occlusion, 7th Edition*. Mosby, 052012.
 6. Nelson, Stanley J. *Wheeler's Dental Anatomy, Physiology and Occlusion*, 10th Edition. W.B. Saunders Company, 122014.
- 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:

IRDS II Winter 2021 Course Outline - Subject to Change(Oct 30)					
Week 1 – IRDS INTERGRATED RESTORATIVE DENTAL SCIENCES					
	Monday January 04	Tuesday January 05	Wednesday January 06	Thursday January 07	Friday January 08
8:00 AM		Lecture 8:10-9:00			
9:00 AM		Class II Amalgam Preparation (Dr. Galka)			
10:00 AM					
11:00 AM					
12:00 PM					
1:00 PM	Lab 1:00-5:00		Lab 1:00-5:00		
	GROUP A		GROUP B		

	Scenarios on "patient" TBA - followed by: Amalgam PREPARATIONS and Amalgam RESTORATIONS #3-OL, #31-O (Dr. Hack)		Scenarios on "patient" TBA - followed by: Amalgam PREPARATIONS and Amalgam RESTORATIONS #3-OL, #31-O (Dr. Hack)		
5:00 PM					
READING		Summitt et.al. Fundamentals of Operative Dentistry 4th ed- Chapter 11,			
CONTENT OUTLINE		Class II Amalgam Preparations			
Week 2 – IRDS INTERGRATED RESTORATIVE DENTAL SCIENCES					
	Monday January 11	Tuesday January 12	Wednesday January 13	Thursday January 14	Friday January 15
8:00 AM		Lecture 8:00-9:00			
		Pulpal Considerations for Restorative Dentistry (Dr. Seltzer)			
9:00 AM		Lecture 9:00-10:00			
		Anatomy of Primary Teeth, Comparative Anatomy of Primary vs. Permanent Teeth and Eruption (Dr. Galka)			
10:00 AM					
11:00 AM					
12:00 PM					
1:10 PM	Lab 1:00-5:00		Lab 1:00-5:00		
	GROUP A		GROUP B		

	19MO Preparation Demonstration (Dr. Pugliese and Dr. Hack)		19MO Preparation Demonstration (Dr. Pugliese and Dr. Hack)		
	Class II Amalgam Preparations: 19MO,31MO,4DO		Class II Amalgam Preparations: 19MO,31MO,4DO		
5:00 PM					
READING		Summitt et.al. Fundamentals of Operative Dentistry 4th ed. Chapter 6			
CONTENT OUTLINE		Pulpal Considerations for Restorative Dentistry			
READING		Summitt et.al. Fundamentals of Operative Dentistry 4th edition Chapter 12			
CONTENT OUTLINE		Anatomy of Primary Teeth, Comparative Anatomy of Primary vs. Permanent Teeth and Eruption			
Week 3 – IRDS INTERGRATED RESTORATIVE DENTAL SCIENCES					
	Monday January 18	Tuesday January 19	Wednesday January 20	Thursday January 21	Friday January 22
8:00 AM					
	UNIVERSITY HOLIDAY MLK	Lecture 8:10-9:00 Class V Amalgam Preparations (Dr. Pugliese)			
		Lecture 9:00-10:00			

		Class II Amalgam Restorations; Matrices (Dr. Shiffman)			
9:00 AM					
10:00 AM					
11:00 AM					
12:00 PM					
1:10 PM			Lab 1:00-5:00		
2:00 PM			Group A 1:00-3:00		
3:00 PM			Continue Class II Amalgam Preparations: 19MO,31MO,4DO		
4:00 PM			Group B 3:00-5:00		
			Continue Class II Amalgam Preparations: 19MO,31MO,4DO		
5:00 PM					
READING		Summitt et.al. Fundamentals of Operative Dentistry 4th edition Chapter 15			
CONTENT OUTLINE		Class V Amalgam Preparations			
READING		Summitt et.al. Fundamentals of Operative Dentistry 4th edition Chapter 12			
CONTENT OUTLINE		Class II Amalgam Restorations; Matrices			
Week4 – IRDS INTERGRATED RESTORATIVE DENTAL SCIENCES					
	Monday January 25	Tuesday January 26	Wednesday January 27	Thursday January 28	Friday January 29

8:00 AM		Lecture 8:10-100			
		Basics of Adhesion – Bonding agents (Dr. Thompson)			
9:00 AM					
10:00 AM					
11:00 AM					
12:00 PM					
1:10 PM					
2:00 PM	Group A		Group B		
3:00 PM	DEMO - CLASS II RESTORATION (Dr. Hack).		DEMO - CLASS II RESTORATION (Dr. Hack).		
4:00 PM	Class II Amalgam Restoration #19MO, #31MO, #4MO		Class II Amalgam Preparation and Restoration; Prepare Class II #30MO for amalgam; and restore #31 Class II MO Amalgam Preparation		
5:00 PM					
READING		Phillips' Science of Dental Materials, 12th Edition, chapter 13			
CONTENT OUTLINE		Basics of Adhesion - Bonding Agents			
Week5 – IRDS INTERGRATED RESTORATIVE DENTAL SCIENCES					
	Monday February 01	Tuesday February 02	Wednesday February 03	Thursday February 04	Friday February 05
8:00 AM		Lecture 8:10-100			

		WRITTEN EXAM 1			
9:00 AM					
10:00 AM					
11:00 AM					
12:00 PM					
1:10 PM	Simlab 1:00-5:00		Simlab 1:00-5:00		
	Group A 1:00-4:00		Group B 1:00-4:00		
	Mock IPPA 1		Mock IPPA 1		
	Class II Amalgam Preparation and Restoration; Prepare Class II #30MO for amalgam; and restore #31 Class II MO Amalgam Preparation		Class II Amalgam Preparation and Restoration; Prepare Class II #30MO for amalgam; and restore #31 Class II MO Amalgam Preparation		
4:00 PM	Prepare and restore Class V on #5B in Amalgam		Prepare and restore Class V on #5B in Amalgam		
5:00 PM					
READING					
CONTENT OUTLINE					
Week6 – IRDS INTERGRATED RESTORATIVE DENTAL SCIENCES					
	Monday February 08	Tuesday February 09	Wednesday February 10	Thursday February 11	Friday February 12
8:00 AM		Lecture 8:10-100			
		Basics of Adhesion			
		(Dr. Antonson)			
9:00 AM					
10:00 AM					
11:00 AM					
12:00 PM					

1:10 PM	Simlab 1:00-5:00		Simlab 1:00-5:00		
2:00 PM	GROUP A		GROUP B		
3:00 PM	IPPA 1		IPPA 1		
4:00 PM	Class II Amalgam Preparation and Restoration; Prepare Class II #30MO for amalgam; and restore #31 Class II MO Amalgam Preparation		Class II Amalgam Preparation and Restoration; Prepare Class II #30MO for amalgam; and restore #31 Class II MO Amalgam Preparation		
5:00 PM					
READING		Phillips' Science of Dental Materials, 12th Edition, chapter 13 and Summitt et.al. Fundamentals of Operative Dentistry 4th ed- Chapter 9			
CONTENT OUTLINE		Basics of Adhesion			
Week7- IRDS INTERGRATED RESTORATIVE DENTAL SCIENCES					
	Monday February 15	Tuesday February 16	Wednesday February 17	Thursday February 18	Friday February 19
8:00 AM		Lecture 8:10-10:00			
		Adhesion, Composite, Sealants, PRR, Class I Composite (Dr. Antonson)			

9:00 AM					
10:00 AM					
11:00 AM					
12:00 PM					
1:10 PM	Simlab 1:00-5:00		Simlab 1:00-5:00		
	GROUP A		GROUP B		
	Lecture in Simlab 1:10-2:00		Lecture in Simlab 1:10-2:00		
	Class III and Class V Composite (Dr. Galka)		Class III and Class V Composite (Dr. Galka)		
2:00 PM	Lecture in Simlab 2:00-3:00		Lecture in Simlab 2:00-3:00		
	Cervical Smooth Surface Lesions Non Carious Cervical Lesions (Dr. Antonelli)		Cervical Smooth Surface Lesions Non Carious Cervical Lesions (Dr. Antonelli)		
3:00 PM	Sealant and PRR Seal #18. Prepare #19 PRR and restore with Flowabl Resin(Dr Hack)		Sealant and PRR Seal #18. Prepare #19 PRR and restore with Flowabl Resin(Dr Hack)		
4:00 PM					
5:00 PM					
READING	Summitt et.al. Fundamentals of Operative Dentistry 4th edition Chapter 10 and 15	Summitt et.al. Fundamentals of Operative Dentistry 4th ed- Chapter 9	Summitt et.al. Fundamentals of Operative Dentistry 4th edition Chapter 10 and 15		
CONTENT OUTLINE	Class III and Class V Composite Preparations and Restorations	Adhesion, Composite, Sealants, PRR, C I I Composite	Class III and Class V Composite Preparations and Restorations		
READING	Summitt et.al. Fundamentals of Operative Dentistry 4th edition chapter15		Summitt et.al. Fundamentals of Operative Dentistry 4th edition chapter15		

CONTENT OUTLINE	Cervical Smooth Surface Lesions Non Carious Cervical Lesions		Cervical Smooth Surface Lesions Non Carious Cervical Lesions		
Week8– IRDS INTERGRATED RESTORATIVE DENTAL SCIENCES					
	Monday February 22	Tuesday February 23	Wednesday February 24	Thursday February 25	Friday February 26
8:00 AM		Lecture 8:10-9:00			
		WRITTEN EXAM 2			
9:00 AM					
10:00 AM					
11:00 AM					
12:00 PM					
1:10 PM	Simlab 1:00-5:00		Simlab 1:00-5:00		
	STEP by Step		STEP by Step		
2:00 PM	Class I preparation and restoration with composite (Dr Hack)		Class I preparation and restoration with composite (Dr Hack)		
3:00 PM					
4:00 PM					
5:00 PM					
READING					
CONTENT OUTLINE					
READING					
CONTENT OUTLINE					
Week 9– IRDS INTERGRATED RESTORATIVE DENTAL SCIENCES					
	Monday March 01	Tuesday March 02	Wednesday March 03	Thursday March 04	Friday March 05

8:00 AM	<h1>SPRING BREAK</h1>				
5:00 PM					
Week 10– IRDS INTERGRATED RESTORATIVE DENTAL SCIENCES					
	Monday March 08	Tuesday March 09	Wednesday March 10	Thursday March 11	Friday March 12
8:00 AM		Lecture 8:00-8:30			
		Curing Lights (Dr. Kilinc)			
9:00 AM		Lecture 8:30:10:00			
		Dental Composites (Dr. Thompson)			
10:00 AM					
11:00 AM					
12:00 PM					
1:10 PM	Simlab 1:00-5:00		Simlab 1:00-5:00		
	GROUP A		GROUP A		
	Begin Class III Preparations on MODUPRO #6DL, #9ML		Begin Class III Preparations on MODUPRO #6DL, #9ML		
2:00 PM					
3:00 PM	Restore Class III #6DL and #9ML		Restore Class III #6DL and #9ML		
4:00 PM					
5:00 PM					

READING		Phillips' Science of Dental Materials, 12th Edition, chapter 13			
CONTENT OUTLINE		Curing Lights			
READING		Phillips' Science of Dental Materials, 12th Edition, chapter 13			
CONTENT OUTLINE		Composite			
Week 11– IRDS INTERGRATED RESTORATIVE DENTAL SCIENCES					
	Monday March 15	Tuesday March 16	Wednesday March 17	Thursday March 18	Friday March 19
8:00 AM		Simlab 8:10-10:00		Lecture 8:10-9:00	
		GROUP A		Glass inomer (Dr Thompson)	
		Prepare and restore Class III #11ML		Lecture 9:00-9:30	
9:00 AM		Prepare Class III #6DL for IPPA 2		Review of Rubrics for Composite restorations (Dr Hack)	
		Simlab 10:10-12:00			
10:00 AM		GROUP B			
		Prepare and restore Class III #11ML			
11:00 AM		Prepare Class III #6DL for IPPA 2			
12:00 PM					
1:10 PM	GROUP A		GROUP A		
	Lecture in Simlab		Lecture in Simlab		
	Class IV restoration (Dr C Gonzales)		Class IV restoration (Dr C Gonzales)		
2:00 PM	Restore Class IV		Restore Class IV		

	Step-by-Step on Modupro (Dr C Gonzales)		Step-by-Step on Modupro (Dr C Gonzales)		
3:00 PM					
4:00 PM					
5:00 PM					
READING	Summitt et.al. Fundamentals of Operative Dentistry 4th edition chapter 10		Summitt et.al. Fundamentals of Operative Dentistry 4th edition chapter 10	Phillips' Science of Dental Materials, Ed. 12, ch.13	
CONTENT OUTLINE	Class IV		Class IV	Glass Ionomer	
Week 12 – IRDS INTERGRATED RESTORATIVE DENTAL SCIENCES					
	Monday March 22	Tuesday March 23	Wednesday March 24	Thursday March 25	Friday March 26
8:00 AM		Simlab 8:10-10:00		Lecture 8:10-10:00	
		GROUP A		WRITTEN EXAM 3	
		Prepare and restore Class III #11ML			
9:00 AM		Prepare Class III #6DL for IPPA 2			
10:00 AM		Simlab 10:10-12:00			
		GROUP B			
		Prepare and restore Class III #11ML			
11:00 AM		Prepare Class III #6DL for IPPA 2			
12:00 PM					
1:10 PM	Simlab 1:00-5:00		Simlab 1:00-5:00		
	GROUP A		GROUP A		
	Lecture in Simlab		Lecture in Simlab		
	Diastema Closure (Dr C Gonzales)		Diastema Closure (Dr C Gonzales)		

2:00 PM	Diastema Closure #8 and #9		Diastema Closure #8 and #9		
	Step-by-Step on Modupro (Dr C Gonzales)		Step-by-Step on Modupro (Dr C Gonzales)		
3:00 PM					
4:00 PM					
5:00 PM					
READING	Summitt et.al. Fundamentals of Operative Dentistry 4th ed. ch.10		Summitt et.al. Fundamentals of Operative Dentistry 4th ed. ch.10		
CONTENT OUTLINE	Diastema Closure		Diastema Closure		
Week 13 – IRDS INTERGRATED RESTORATIVE DENTAL SCIENCES					
	Monday March 29	Tuesday March 30	Wednesday March 31	Thursday April 01	Friday April 02
8:00 AM		Simlab 8:10-10:00		Lecture 8:10-9:15	
		Bases and Liners		Class II Resin Composites (Dr. Antonson)	
9:00 AM				Lecture 9:15-10:00	
				Cavity Preparation Outlines for Composites compared to Amalgam (Dr. Kilinc)	
10:00 AM		Simlab 10:10-12:00			
		GROUP B			
		Bases and Liners			
11:00 AM					
12:00 PM					
1:10 PM	Simlab 1:10 - 5:00		Simlab 1:10 - 5:00		
	GROUP A		GROUP A		

	IPPA 2 - Prepare Class III and Restore Class III on Modupro		IPPA 2 - Prepare Class III and Restore Class III on Modupro		
2:00 PM					
3:00 PM					
4:00 PM					
5:00 PM					
READING		Bases and Liners : Hands on Demo		Summitt et.al. Fundamentals of Operative Dentistry - 4th ed. Chapter 11	
CONTENT OUTLINE		Bases and Liners		Class II Resin Composites	
READING					
CONTENT OUTLINE				Cavity Preparation Outlines for Composites compared to Amalgam	
Week 14 – IRDS INTERGRATED RESTORATIVE DENTAL SCIENCES					
	Monday April 05	Tuesday April 06	Wednesday April 07	Thursday April 08	Friday April 09
8:00 AM		Lecture 8:10- 10:00		Lecture 8:10- 10:00	
		Introduction to Fixed Prosthodontics (Dr. Antonelli)		Principles of Tooth Preparations - All Metal Crowns (Dr Antonelli)	
10:00 AM		SIMLAB 10:- 12:00			

		Group B CLASS V Prepare #11B Class V and restore with Composite			
12:00 PM					
1:10 PM	Simlab 1:10 - 5:00		Simlab 1:10 - 5:00		
	GROUP A		GROUP B		
	STEP by STEP DEMO Class II Composite (Dr. Gonzales)		STEP by STEP DEMO Class II Composite (Dr. Gonzales)		
4:00 PM					
5:00 PM					
READING		Rosensteil et.al. Contemporary Fixed Prosthodontics 5th edition - chapter 7 & 8			
CONTENT OUTLINE		Introduction to Fixed Prosthodontics			
Week 15 – IRDS INTERGRATED RESTORATIVE DENTAL SCIENCES					
	Monday April 12	Tuesday April 13	Wednesday April 14	Thursday April 15	Friday April 16
8:00 AM		Lecture 8:10- 10:00		Lecture 8:10- 10:00	
		Periodontal Considerations in Fixed prosthodontics (Dr. Antonelli)		Core buildup of Vital Teeth - LuxaCore® (Dr. Antonelli)	
10:00 AM		SIMLAB 10:- 12:00			

		Group A CLASS V Prepare #11B Class V and restore with Composite			
12:00 PM					
1:10 PM	Simlab 1:10 - 5:00		Simlab 1:10 - 5:00		
	LECTURE GROUP A		LECTURE GROUP B		
	Principles of Tooth Preparations - All Metal Crowns (Dr Antonelli) (2hr lecture)		Principles of Tooth Preparations - All Metal Crowns (Dr Antonelli) (2hr lecture)		
3:00 PM	Prepare #30 FGC		Prepare #30 FGC		
4:00 PM					
5:00 PM					
READING	Rosensteil et.al. Contemporary Fixed Prosthodontics 4th edition - chapter 7 & 8		Rosensteil et.al. Contemporary Fixed Prosthodontics 4th edition - chapter 7 & 8		
CONTENT OUTLINE	Principles of Tooth Preparations - All Metal Crowns	Periodontal Considerations in Fixed prosthodontics	Principles of Tooth Preparations - All Metal Crowns		
FINAL EXAMS WEEK	Week 16 – IRDS INTERGRATED RESTORATIVE DENTAL SCIENCES				
	Monday April 19	Tuesday April 20	Wednesday April 21	Thursday April 22	Friday April 23
8:00 AM				Lecture 8:00- 10:00	
				WRITTEN EXAM 4	
10:00 AM					

12:00 PM					
1:10 PM	Simlab 1:10-5:00 GROUP A		Simlab 1:10-5:00 GROUP B		
	IPPA 3 and IPPA 4		IPPA 3 and IPPA 4		
	Class IV RESTORATION and Class II RESTORATION WITH COMPOSITE		Class IV RESTORATION and Class II RESTORATION WITH COMPOSITE		
3:00 PM					
4:00 PM					
5:00 PM					
READING					
CONTENT OUTLINE					
REMEDICATION CLASS II Amalgam Preparation for GROUP A and GROUP B - TO BE ADVISED of DATE					

Topic Outline:

See table above

“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

Rubrics for IRDS II

DIRECT PREPARATION EVALUATION RUBRIC (CLASS I AMALGAM)

START Check Faculty Signature						
All boxes above must be completed	GRADE CATEGORY					
	SATISFACTORY (S)				NEED	
ACCESS	A	Correct width			A	D
	B	Grooves followed correctly			B	G

	C	Marginal ridge preserved	C	M
			D	SI
DEPTH	Pulpal depth appropriate for case scenario (e.g. 2.0-2.5mm)		Pulpa	
			A	SI
			B	D
ENAMEL SURFACE + INTERNAL WALLS			1 or n	
	A	90 degree cavo-surface	A	90
	B	Smooth and clean	B	SI
	C	No bevels	C	N
WALL ORIENTATION + ENAMEL SUPPORT	A	Walls with 6 degree convergence (F-L)	A	D
	B	Marginal ridge walls parallel or divergent	B	D

Grades : 4 Categories

S = Satisfactory (92%)	N = N
Sx4 = 92%	Sx3 +
	Sx2 +
	Sx1 +
	Nx4 =

A successful completion of this remediation will result in a passing grade of 70%

An unsuccessful completion of this remediation will result in a grade of 60%

IRDS PREPARATION EVALUATION RUBRIC (CLASS II - Restore with AMALGAM) CDM

STARTCHECK - Faculty Signature	
All boxes above must be completed	GRADE CATEGORY
	SATISFACTORY (S)
ACCESS	A. Correct width
	B. Grooves followed correctly
	C. Contacts broken appropriately
	* clearance with adjacent tooth 0.2-0.3 mm
	* able to pass tine of explorer through all contacts (F, L, G)

S CURVE	Proper S Curve where needed	
DEPTH	A.	Initial pulpal depth (molar = 2.0-2.5mm)
	B.	Axial depth 1.0-1.5mm
	C.	Axial wall convex or straight
INTERNAL AND EXTERNAL WALLS AND CAVOSURFACES	A.	Smooth and clean
	B.	Axial -pulpal line angle rounded
	C.	90 degree cavosurface
	D.	NO bevels on cavosurface
WALL ORIENTATION	A.	Walls with 6 degree convergence
	B.	Wall next to uninvolved Marginal Ridge(MR) vertical or diver

Grades : 5 Categories	
S = Satisfactory (92%)	N = Needs improve
(5xS+) +5% will be added to the project Sx5 when it exceeds S in all categories = 97%	
Sx5 = 92%	Nx5 = 75%
Sx4 + Nx1 = 87%	
Sx3 + Nx2 = 84%	
Sx2 + Nx3 += 81%	(5xN-)
Sx1 + Nx4 = 78%	- 5% will be deducted = 70%

Class II COMPOSITE RESTORATION RUBRIC				
	Tooth # 30 - RUBBER DAM CORRECT			TOKEN #
	Grade			
	S		N	
Cavosurface	(i)	No excess at margin	(i)	Detectable excess
	(ii)	No Submarginations	(ii)	Detectable submargination
Restoration Surface	(i)	No pits	(i)	Detectable pits
	(ii)	Luster of composite	(ii)	Irregular surface
	(iii)	Voids	(iii)	Rough surface
			(iv)	Void on cavosurface
			(v)	Slight same or adjacent tooth damage
Anatomy				Deviations
	(i)	Correct occlusal contours	(i)	Occlusal Contours
	(ii)	Correct fossae/grooves	(ii)	Fossae/grooves
	(iii)	Correct Marginal ridges	(iii)	Marginal ridges
	(iv)	Correct Embrasures	(iv)	Embrasures
	(v)	Correct Contact	(v)	Contacts
No deductions	5 point deduction		10 point deduction	
for Matrix system	for matrix system and/or ergonomics		for matrix system	
Grades : 3 Categories : Operative - Preparations and Restorations				
S = Satisfactory (92%)			N = Needs improvement (75%)	
A successful completion of this remediation will result in a passing grade of 70%				
An unsuccessful completion of this remediation will result in a grade of 60%				

IRDS II - Rubric for CLASS III Composite PREPARATION		
Startcheck		
All boxes above must completed	GRADE CATEGORY	
	SATISFACTORY (S)	
ACCESS	A	Correct extension incisal-gingival (I-G) (2.0- 2.5mm)
	B	Correct location on tooth (just gingival to contact)

	C	Contacts broken appropriately
	(i)	Gingival contact broken - (0.2- 0.3mm=thickness of explorer)
	(ii)	Facial contact intact
	(iii)	Incisal contact maintained
Axial DEPTH	A	Standard axial depth
	(i)	1.0mm gingival
	(ii)	1.5mm incisal
	B	Axial wall follows external surface of tooth: convex or straight
INTERNAL and EXTERNAL WALLS		Smooth and Clean
	A	90 degree or slightly flared cavosurface (no hooks, no bevels)
	B	Facial wall follows facial contour of tooth
FACIAL EXTENSION		Correct extension towards facial = just past halfway through contact
Grades : 4 Categories		
S = Satisfactory (92%)	N = Needs improvement (75%)	U = Unsatisfactory = 60%
		Any grade of U will result in a failed re
A successful completion of this remediation will result in a passing grade of 70%		
An unsuccessful completion of this remediation will result in a grade of 60%		

Class III COMPOSITE RESTORATION RUBRIC							
START CHECK	Tooth #			TOKEN #		Gr	
	Grade						
	S		N		U		
Cavosurface	(i)	No excess at margin	(i)	Detectable excess	(i)	Gr	
	(ii)	No Submarginations	(ii)	Detectable submargination	(ii)	Gr	
			(iii)	Restoration and/or surrounding tooth overpolished	(iii)	Re grade	
Restoration Surface	(i)	No pits nor voids	(i)	Detectable pits	(i)	Gr	
	(ii)	Luster of composite	(ii)	Irregular surface	(ii)	Gr	
			(iii)	Rough surface	(iii)	Gr	
			(iv)	Void on cavosurface	(iv)	Gr	

		(v)	Slight same or adjacent tooth damage	(v)	M	
Anatomy			Deviations		Gr	
	(i)	Correct contours	(i)	Contours	(i)	Cc
	(ii)	Correct Line angles	(ii)	Line angles	(ii)	Li
	(iii)	Correct fossae	(iii)	Fossae	(iii)	Fo
	(iv)	Correct Marginal ridges	(iv)	Marginal ridges	(iv)	Me
	(v)	Correct Embrasures	(v)	Embrasures	(v)	Er
	(vi)	Correct Contacts	(vi)	Contacts	(vi)	Cc

No deductions	5 point deduction		10 point deduction		35
for Rubber dam nor for ergonomics	for rubber dam isolation and/or ergonomics		for rubber dam isolation		rul

No deductions	5 point deduction		10 point deduction		35
for Matrix system	for matrix system and/or		for matrix system		rul

Grades : 3 Categories : Operative - Preparations and Restorations

S = Satisfactory (92%)	N = Needs improvement (75%)	U
		O
		Rc

A successful completion of this remediation will result in a passing grade of 70%

An unsuccessful completion of this remediation will result in a grade of 60%

Class II AMALGAM RESTORATION RUBRIC

START CHECK	RUBBER DAM CORRECT			TOKEN
	Grade			
	S		N	
Cavosurface	(i)	No excess at margin	(i)	Detecta
	(ii)	No Submarginations	(ii)	Detectal
Restoration Surface	(i)	No pits	(i)	Detectal
	(ii)	Smoothness of satin finish	(ii)	Irregula
	(iii)	No shine	(iii)	Rough s
	(iv)	No voids	(iv)	Void on c
			(v)	tooth da
Anatomy				Deviatio

	(i)	Correct occlusal contours	(i)	Occlusal
	(iii)	Correct fossae/grooves	(iii)	Fossae/g
	(iv)	Correct Marginal ridges	(iv)	Margina
	(vi)	Correct Embrasures	(vi)	Embrasu
	(vii)	Correctly contoured proximal contacts	(vii)	Contacts

No deductions	5 point deduction		10 point
for Matrix system	for matrix system and/or ergonomics and/or rubber dam incorrect		for gross

Grades : 3 Categories : Operative - Preparations and Restorations

S = Satisfactory (92%)			N = Needs impr	
		Sx3 PLUS = 97		Sx2 + N:
		Sx3 = 92		Sx1 + N:
				Nx3 = 75

When a passing grade is achieved +3% will be added to project for Self-Assessment with high le

Class IV COMPOSITE RESTORATION RUBRIC

START CHECK	USE OF PUTTY MATRIX			TOKEN #
	Grade			
	S	N		
Cavosurface	(i)	No excess at margin	(i)	Detectable c
	(ii)	No Submarginations	(ii)	Detectable su
Restoration Surface	(i)	No pits nor voids	(i)	Detectable pi
	(ii)	Luster of composite	(ii)	Irregular surf
			(iii)	Rough surfac
			(iv)	Void on cavo
			(v)	Slight same o
Anatomy				Deviations
	(i)	Correct contours	(i)	Contours
	(ii)	Correct Line angles	(ii)	Line angles
	(iii)	Correct fossae	(iii)	Fossae
	(iv)	Correct Marginal ridges	(iv)	Marginal ridg

	(v)	Correct Cingulum	(v)	Cingulum
Contacts + Embrasures				Deviations
	(i)	Correct Embrasures	(i)	Embrasures
	(ii)	Correct Contacts	(ii)	Contacts
Ligatures (optional)	4 correctly placed ligatures - optional			
RUBBER DAM	Rubber Dam			Rubber Dam
Correct		Minor correction required for rubber dam = 5 point deduction		Severe corre
Grades : 4 Categories : Operative - Preparations and Restorations				
S = Satisfactory (92%)		N = Needs improvement (75%)	U = Unsatisfactory = 60%	
A successful completion of this remediation will result in a passing grade of 70%				
An unsuccessful completion of this remediation will result in a grade of 60%				

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 Policy:

- There will be 4 Individual Performance Assessment (IPPAs) exams equally weighted at 25% and they will contribute to 100% of the final IRDS II Lab grade.
- When an IPPA consists of more than one part, each part will count equally for that IPPA.
- There will be a point system at the discretion of the course director for level of agreement in student self-assessment and faculty assessment within each IPPA.
- Mastering the Class II amalgam preparation is an essential component of the course that must be passed. This IPPA will have separate remediation with a grade maximum of 70%.
- If an overall course failing grade is achieved, course remediation will be provided. This overall remediation will consist of Class II preparations for amalgam and composite materials but will not include restorations. The students will need to provide a number of practice preparations to the remediation faculty to be eligible to take the remediation exam. Successful remediation will result in grade maximum of 70% for the course.
- All IPPAs must be taken in order to pass the course. **Once an exam begins it must be completed during the allotted time period in order to achieve a passing grade.**
- **No** photographs can be taken of an IPPA exam before, during, or after the exam.
- Points may be deducted for not following directions during the IPPA. **If the procedure is done on the wrong tooth, the student will receive a failing grade for that IPPA exam.**
- All projects are due (completed and signed) the day BEFORE the respective IPPA or points may be deducted from the IPPA(per incomplete project) and/or overall course grade at the discretion of the course director.
- All daily projects must be completed to a “clinically acceptable” (satisfactory) level and signed by Faculty . Unsatisfactory performance on assignments may result in a grade reduction in the related IPPA, at the discretion of the course director.
- Laboratory attendance is **mandatory**. It is the responsibility of the student to ensure that their individual attendance is recorded by a faculty member at each laboratory session.
- **Pop Quizzes may be given; points may be added or subtracted from the overall course grade 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:

Numbers to be converted to Letter grade in accordance with NSU guidelines in table below

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.