



CDM 1156 - Integrated Restorative Dental Sciences Lab 1

I. Course Information

Course: CDM 1156 - Integrated Restorative Dental Sciences Lab 1
Semester and Year: Fall 2021
Course Start and End Dates: 07/26/2021 - 12/12/2021
Course Reference Number: 23954
Semester Credit Hours: 4.0

II. Instructor Information

Professor: Stanley Louis Hack
Email: shack@nova.edu
Office Hours:
 Mondays 8:30am to 1:00pm
 Thursdays 8:30am to 5:00pm

III. Class Schedule and Location

Day	Date	Time	Location	Building/Room
	07/26/2021 - 12/12/2021		Ft Lauderdale/Davie Campus	-

IV. Course Description

The IRDS I laboratory course is an integrated hands-on program, which runs concurrently with the lecture component and includes objectives from the following disciplines: dental anatomy, fundamentals of occlusion, dental biomaterials, cariology, and operative dentistry. This course presents the anatomical and functional differences of teeth, how they relate to each other and the application of this knowledge to various phases of dentistry. It presents the characteristics differentiating each tooth and the variations that can occur from one patient to the next. The course will introduce concepts of anatomy and normal function of the stomatognathic system. Utilization of wax carving and add-on techniques are introduced. With an understanding of the role of caries risk assessment in restorative decisions and knowledge of the mechanical and physical properties of the dental materials, students will learn principles of cavity preparation, material selection and proper use of amalgam, alginate and gypsum. The IRDS I laboratory course integrates the principles from these disciplines in order to prepare students for a comprehensive care competency based clinical curriculum. Emphasis will be placed on teaching students how to develop the fine psychomotor skills that are necessary to practice dentistry.

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 dental anatomy concepts of the permanent dentition 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. Diagram and recognize each tooth type and understand variations in tooth morphology.
 5. Recognize the morphology of the pulp space and root anatomy of each permanent tooth.
 6. Reproduce a tooth with its corresponding contours in wax via wax-up or block carving techniques.
 7. Reproduce in wax the relationship of teeth to 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. Identify the principals of tooth preparation for Class I amalgam restorations and apply those principles to perform laboratory preparations and restorations in correct occlusion.
 9. Restore Class I amalgam preparations with amalgam as the restorative material.
 10. Describe the mechanical and physical properties of the dental materials presented in the lecture course and utilized in the laboratory including: wax, amalgam, alginate impression materials and gypsum products.
 11. Demonstrate proper techniques for manipulation of amalgam for the restoration of teeth.
 12. Employ proper safety procedures for alginate, gypsum and amalgam dental restorations.
 13. 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.

[CODA Predoctoral Standard 2-23(d)]

Formative Assessments - Project assessments (Daily)

Summative Assessments - IPPAs

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

[CODA Predoctoral Standard 2-23(f)]

Formative Assessments - Project assessments (Daily)

Summative Assessments - IPPAs

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]

Formative Assessments - Multiple written exams

Summative Assessments - Cumulative Final Exam

26. Graduates must be competent in the use of critical thinking and problem-solving, including their use in the comprehensive care of patients, scientific inquiry and research methodology.

[CODA Predoctoral Standard 2-9]

Formative Assessments - Project assessments (Daily)

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 - Project assessments (Daily)

- 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

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. 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. FK7: Apply knowledge of the biology of microorganisms in physiology and pathology in the prevention, diagnosis, and management of oral disease and the promotion and maintenance of oral health. 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. FK10: Apply quantitative knowledge, critical thinking, and informatics tools in the prevention, diagnosis, and management of oral disease and the promotion and maintenance of oral health.

VI. Materials and Resources

Course Required Texts and Materials:

<u>Required Texts:</u>				
Anusavice, Kenneth J. <i>Phillips' Science of Dental Materials, 12th Edition</i> . W.B. Saunders Company, 092012.				
Hilton, Thomas J. <i>Summitt's Fundamentals of Operative Dentistry: A Contemporary Approach, 4th Edition</i> . Quintessence, 10/2013.				
Kidd, Edwina. <i>Essentials of Dental Caries: The Disease and Its Management, 3rd Edition</i> . Oxford University Press, USA, 062005				
Scheid, Rickne. <i>Woelfels Dental Anatomy, 9th Edition</i> . Wolters Kluwer Health, 02/2016.				
6. Dawson, Peter E. <i>Functional Occlusion</i> . C.V. Mosby, 072006.				
7. Okeson. <i>Management of Temporomandibular Disorders and Occlusion, 7th Edition</i> . Mosby, 052012.				

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 Course Blackboard

1. Lecture outlines
2. Laboratory outlines
3. Course syllabus and schedule
4. eHuman[®] 3D Interactive Tooth Atlas Version 7.0.4 Brown & Herbranson Imaging

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

6. Dawson, Peter E. *Functional Occlusion*. C.V. Mosby, 072006.

7. Nelson, Stanley J. *Wheeler's Dental Anatomy, Physiology and Occlusion*, 9th Edition. W.B. Saunders Company, 042009.

8. Okeson. *Management of Temporomandibular Disorders and Occlusion*, 7th Edition. Mosby, 052012.

- 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:

Date	Lecture (CDM 1155)	Laboratory (CDM 1156)
		Attendance at all Laboratory sessions is MANDATORY
Monday August 02	Welcome To IRDS (Dr. Kilinc and Dr. Hack)	Instruments, Boley Gauge, graph paper and wax exercise (Drs. Pugliese and Hack)
	Introduction to Dental Anatomy - Dentition Periods, Terminology, Numbering Systems, Tooth Tissues and Landmarks (Dr. Galka)	3:30 - 5:00 Block and Carve Lecture (Dr Kilinc)
		Lecture Block and Carve Video (Dr. Pugliese)
Tuesday August 03	Review Syllabi, CANVAS (Dr. Hack)	
	Maxillary Central Incisor + Drawings Demo (Dr. Quinton)	
Wednesday August 04		Begin Block and carve #8
Thursday August 05		Complete Block and Carve #8 and hand-in project (if completed)

Friday August 06	Introduction to Dental Biomaterials and Structure of Materials (Dr. Thompson)	
Monday August 09	Physical Properties of Solids (Dr. Thompson)	Demo : Waxup #9 on Kilgore typodont (Dr Pugliese) Waxup #9 on Kilgore
Tuesday August 10	Maxillary Lateral Incisor- Comparison to Maxillary Central Incisor (Dr. Hack)	Complete Waxup #9 on Kilgore
Wednesday August 11		Begin and complete waxup #7 on Kilgore
Thursday August 12	Mandibular Central and Lateral Incisors (Dr. Pugliese)	
Friday August 13	Maxillary and Mandibular Canines (Dr. Galka)	
Monday August 16	IRDS WRITTEN EXAM 1 (biomaterials, dental anatomy)	Complete Waxup #11 on Kilgore
Tuesday August 17	Mechanical Behavior of Materials 1 and 2 (Dr. Thompson)	
Wednesday August 18		Complete Waxup #6 on Kilgore
Thursday August 19		Waxup #27 on Kilgore
Friday August 20	Biomaterials - Wax (Dr. Thompson)	
Monday August 23	Rubrics (Dr Hack)	Lab 1:10-3:00 GROUP B
	Gypsum (Dr. Thompson)	Anterior Tooth ID Exercises (Drs. Pugliese and Hack)
		Lab 3:00- 5:00 GROUP A
		Anterior Tooth ID Exercises (Drs. Pugliese and Hack)
Tuesday August 24		MOCK IPPA 1
		Waxup #8 on Kilgore
Wednesday August 25	Lab 1:10-3:00 Group A Anterior Tooth ID Written Exam 2 (in Simlab as part of lecture course)	
	Lab 3:00 - 5:00 Group B Anterior Tooth ID Written Exam 2 (in Simlab as part of lecture course)	
Thursday August 26		Waxup #24 on Kilgore

Friday August 27	Introduction to Cariology and Dental Caries (Dr. Kilinc)	
Monday August 30	Maxillary First and Second Premolars (Dr. Quinton)	waxup # 5 on Kilgore (Dr. Pugliese)
Tuesday August 31	Lecture in Simlab 8:10-9:00	complete #5 waxup
	Mandibular First and Second Premolars (Dr. Hack)	
Wednesday September 01		IPPA 1
		Waxup #8 on Kilgore
Thursday September 02	Mandibular First and Second Molars (Dr. Galka)	
Friday September 03	Dental Caries and Treatment Modalities (Dr. Kilinc)	
Tuesday September 07	Maxillary First and Second Molars (Dr. Galka)	
	Introduction to occlusion (Basic concepts and terminology) (Dr. Mosquera)	
Wednesday September 08		Waxup #28 on Kilgore
Thursday September 09	Alginates (Dr. Kilinc)	
	Masticatory system anatomy and TMJ (Dr. Mosquera)	
Friday September 10	Diagnostic Aids in Caries Detection (Dr. Kilinc)	
Monday September 13	Articulators, Facebow, VDO/VDR, Jaw Relations (Dr. Mosquera)	Group A
		Articulator Assembly and Mounting of provided casts for Wax-ups (Dr. Mosquera)
Tuesday September 14		Use of Laboratory Handpiece and Motor (Dr Mosquera)
Wednesday September 15		GROUP B
		Articulator Assembly and Mounting of provided casts for Wax-ups (Dr. Mosquera)

Thursday September 16	Mandibular Positions and Movements and Determinants of Occlusal Morphology (Dr. Mosquera)	
Friday September 17		Position of Teeth and their Relationship to Adjacent Teeth & Supporting Structures (Dr. Hack)
Monday September 20	Occlusal contacts and Dental arches classification, occlusal schemes (Dr. Mosquera)	Begin PKT waxup #5 on Casts in Occlusion (Dr. Mosquera)
Tuesday September 21	Saliva and its Role in Caries Management (Dr. Kilinc)	Continue PKT waxup #5 on Casts in Occlusion (Dr. Mosquera)
Wednesday September 22		Complete PKT waxup #5 on Casts in Occlusion (Dr. Mosquera)
		Begin PKT waxup #20 on casts in occlusion (Dr Mosquera)
Thursday September 23		Continue PKT waxup #20 on Casts in Occlusion (Dr. Mosquera)
Friday September 24	ICDAS / ICCMS (Dr. Galka)	
Monday September 27	Periodontal Considerations in Cariology and Microbiata (Dr. Kilinc)	GROUP A
	The Role of Nutrition and Diet in Cariology (Dr. Kilinc)	Alginate Impressions, duplicate casts (Dr. Mosquera)
Tuesday September 28		GROUP A
		Complete PKT Wax up #20 on Casts in occlusion
Wednesday September 29		GROUP B
		Alginate Impressions, duplicate casts (Dr. Mosquera)
Thursday September 30		GROUP B
		Complete PKT Wax up #20 on Casts in occlusion
Friday October 01	Clinical Use of Pharmaceuticals in Caries Management (Dr. Kilinc)	
Monday October 04	Caries Risk Assessment CAMBRA (Dr. Kodish)	IPPA 2
	Lecture 9-10 AM Dr. Kilinc Preventive Dentistry: Rx writing;	Wax up #5 or #12 on Kilgore Typodont
Tuesday October 05	The use of SDF (Silver Diamine Fluoride) in Caries Management (Dr. Judith Chin)	

	Anterior and Posterior Root Anatomy and Pulp Space (Dr. Seltzer)	
Wednesday October 06		Begin PKT waxup #30 on casts in occlusion (Dr Mosquera)
Thursday October 07		Complete PKT waxup #30 on casts in occlusion (Dr Mosquera)
Friday October 08	Preventive Treatment Modalities in Caries Management (Dr. Kilinc)	
Monday October 11	Review - Lobes, Line Angles, Embrasures, Contacts, Angulation, Pulp, Cariology (Dr. Galka)	GROUP A
		Mounting Exercise (Dr. Mosquera)
Tuesday October 12	Review on CARIOLOGY (Dr. Kilinc)	
	Lecture 9:00-10:00 Review on OCCLUSION (Dr. Mosquera)	
Wednesday October 13		GROUP B
		Mounting Exercise (Dr. Mosquera)
Thursday October 14		
Monday October 18	WRITTEN EXAM 3	Complete waxup #14 on Casts in occlusion
Tuesday October 19		GROUP A
		Complete PKT Wax up #14 on Casts in occlusion (Dr. Mosquera)
Wednesday October 20		Waxup Molar #30 on Kilgore (PEG # LR 62A)
Thursday October 21		GROUP B
		Complete PKT Wax up #14 on Casts in occlusion (Dr. Mosquera)
Monday October 25	Lecture 8:00-10:00 Introduction to Scanning (Digital Impression) (Dr. Kilinc)	IPPA 3
	Digital waxup (Dr. Kilinc)	Wax up mandibular molar on Kilgore Typodont
Tuesday October 26		GROUP B
		Cariology Lab

Wednesday October 27		Mock IPPA 4
		Wax up Maxillary Molar on Casts in OCCLUSION
Thursday October 28		GROUP A
		Cariology Lab
Monday November 01	Written Exam 4	GROUP A
		Hands on Scanning Practice scanning and review of anatomical structure and occlusion (Dr. Kilinc)
Tuesday November 02	Occlusal Trauma (Dr. Mosquera)	
	Ergonomics (Dr. Brodie)	
Wednesday November 03		GROUP B
		Hands on Scanning Practice scanning and review of anatomical structure and occlusion (Dr. Kilinc)
Thursday November 04	Dental Anomalies (Dr. Ison)	
	Pulpal Considerations for Restorative Dentistry (Dr. Seltzer)	
Monday November 08	Lecture 8:10-9:30 Introduction to Operative Dentistry and to Minimally Invasive Dentistry (Dr. Kilinc)	IPPA 4
		Wax up Maxillary Molar on Casts in OCCLUSION
Tuesday November 09		Instruments and Handpiece Maintenance; Adjustment of Simlab head and chair positioning (Dr. Pugliese and Dr. Hack) Demonstration ELECTRIC HANDPIECES
		Learn A Prep (Dr Hack)

Wednesday November 10		Posterior Tooth Identification Exercises for Written Exam 5 (Dr. Pugliese and Dr. Hack)
		Two Groups
Thursday November 11	Lecture in Simlab - Rubber Dam (Dr. Douglas Rolfe)	Placing rubber dam
Monday November 15	Basics of Adhesion (Dr. Antonson)	RESIN INFILTRATION (Dr Kilinc)
		Sealant #31
Tuesday November 16	Basics of Adhesion – Bonding agents (Dr. Thompson)	
Wednesday November 17		Prepare #20 PRR and restore with Flowable Resin(Dr Hack)
		Demo: Restore #19O with composite (Dr Hack)
		Begin Class I Preparations #19, # 18
Thursday November 18		Complete #19-O and #18-O restoration with composite
Monday November 22	Curing Lights (Dr. Kilinc)	Written Exam 5
	Dental Composites (Dr. Thompson)	Posterior Tooth Identification 2 groups
Tuesday November 23		Place Rubber dam. Prepare #14 O and OL and Restore with composite
Wednesday November 24		Continue restore #14 O and OL
FINAL EXAMS WEEK		
Monday November 29		

Topic Outline:

Refer to 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. 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

NA

IX. Assignments

Description of Assignments, Point Value and Rubrics

3 Rubrics will be utilized for the four IPPAs:

The anterior tooth waxup - IPPA 1

The posterior tooth waxup - IPPA 2 and IPPA 3

The posterior tooth waxup in occlusion - IPPA4

DENTAL ANATOMY - IRDS I - CDM 1156				
Start check		Student Token #		
Date	TOOTH #	Final Grade		
ANTERIOR Wax-Up	Exam Criteria Sheet			
CONTACT AREAS and EMBRASURES	Mesial Contact	Embrasures		
(position/contour)	Wide, Narrow : Occ-Ging, Fac-Ling	Improperly contoured		
1. Incisal view	(Interproximal space)	F, L, O and G		
2. Facial / Lingual views	(Loss of proximal convexity, "ear muff")			
	Excessive/Light/Open			
	Malpositioned			
	Distal Contact	Embrasures		
	Wide, Narrow : Occ-Ging, Fac-Ling	Improperly contoured		
	(Interproximal space)	F, L, O and G		
	(Loss of proximal convexity, "ear muff")			
	Excessive/Light/Open			
	Malpositioned			
		S N U		
ARCH ALIGNMENT	Incisal edge is in proper position in arch			
	Incisal edge width F-L	Incisal edge width M-D		

1. Occlusal view	Incisal edge has proper curvature			
2. Facial / Lingual views	Incisal view - slopes correct			
3. Proximal view	Lingual view - slopes correct			
	Facial view - slopes correct			
		S	N	U
FACIAL and LINGUAL CONTOURS AND LINE ANGLES	Facial Contour - Over / Under contoured	Lingual Contour - Over / Under contoured		
1. Incisal view	Mesial-Incisal line angles Malpositioned or poorly defined	Distal-Incisal line angles Malpositioned or poorly defined		
2. Facial / Lingual views	Facial line angles definition	Lingual line angles definition		
	Occlusal outline - Incorrect shape			
		S	N	U
PROXIMAL VIEW				
Facial /Lingual Height of Contour	Facial and Lingual Height of Contour - Malpositioned or Over / Under contoured			
Facial / Lingual profiles	Facial profile - Over/ Under contoured			
	Lingual profile - Over/Under contoured			
		S	N	U
NEATNESS and FINISH	Anatomical Features - Incorrect, over/ under contoured, missing, deep, shallow			
	Finish: Rough, irregular, dull, not ending at finish line, debris and excess wax on typodont, grossly unfinished wax			
		S	N	U
IRDS Grade Values for Rubrics S = 91% N = 75% U = 60% (Grade can range between 60 - 50% with quantity)				
S = Satisfactory	N = Needs Improvement	U = Unsatisfactory		
Sx5 =91		S (Satisfactory) in every category		
Sx4 + Nx1 =88		S in 4 categories; N in one category		
Sx3 + Nx2 =85		S in 3 categories; N in 2 categories		
Sx2 + Nx3 =82		S in 2 categories; N in 3 categories		
Sx1 + Nx4 =79		S in 1 category; N in 4 categories		

Nx5 =	75	Needs improvement in all categories		
Barely acceptable Nx5 =	5 (minus)	Barely acceptable in all 5 categories		
U in any category =	60	Grade for the entire project		
S or N + Ux2 or Ux3 or Ux4 =	55	A total of 2, 3 or 4 Unsatisfactory categories		
Ux5 =	50	The work is unsatisfactory in every category		
When a passing grade is achieved +3% will be added to project for Self-Assessment with high level of agreement with faculty assessment				
DENTAL ANATOMY - IRDS I - CDM 1156				
Student Token #	Start check			
Date	TOOTH #	Final Grade		
POSTERIOR Wax-Up	Exam Criteria Sheet			
CONTACT AREAS and EMBRASURES	Mesial Contact	Embrasures		
(position/contour)	Wide, Narrow : Occ-Ging, Fac-Ling	Improperly contoured		
1. Incisal view	Interproximal space)	F, L, O and G		
2. Facial / Lingual views	(Loss of proximal convexity, "ear muff")			
	Excessive/Light/Open			
	Malpositioned			
	Distal Contact	Embrasures		
	Wide, Narrow- Occ-Ging, Fac-Ling	Improperly contoured		
	Interproximal space)	F, L, O and G		
	(Loss of proximal convexity, "ear muff")			
	Excessive/Light/Open			
	Malpositioned			
		S	N	U
ARCH ALIGNMENT, CUSP HEIGHT and	Occlusal table:	Wide or narrow		
SLOPES	Tooth not in correct arch alignment			

1. Occlusal view	Cusp tips not in correct locations			
2. Facial / Lingual views	Inclines of triangular ridges steep or shallow			
3. Proximal view	FACIAL CUSP(S) - shape	LINGUAL CUSP(S) - shape		
	FACIAL CUSP(S) - height	LINGUAL CUSP(S) - height		
	FACIAL CUSP(S) - slopes	LINGUAL CUSP(S) - slopes		
		S N U		
FACIAL and LINGUAL CONTOURS AND LINE ANGLES				
1.Occlusal view	Facial Contour - Over / Under contoured			
2. Facial and Lingual views	MF DF Line Angles - Malpositioned or poorly defined			
	Lingual Contour - Over / Under contoured			
	MF DF Line Angles - Malpositioned or poorly defined			
	Occlusal outline - shape correct			
		S N U		
PROXIMAL VIEW				
Facial /Lingual Height of Contour	Facial and Lingual Height of Contour - Malpositioned or Over / Under contoured			
Facial / Lingual profiles	Facial profile - Over/ Under contoured			
	Lingual profile - Over/Under contoured			
		S N U		
OCCLUSAL ANATOMY NEATNESS and FINISH	Anatomical Features- Incorrect, over/ under contoured, missing, deep, shallow			
	Grooves	Triangular ridges		
	Fossa	Marginal ridges		
		Transverse Ridge and/or oblique ridge		
	Finish: Rough, irregular, dull, not ending at finish line, debris and excess wax on typodont, grossly unfinished wax			
		S N U		
IRDS Grade Values for Rubrics S = 91% N = 75% U = 60% (Grade can range between 60 - 50% with quantity)				

S = Satisfactory	N = Needs Improvement	U = Unsatisfactory		
Sx5 = 91		S (Satisfactory) in every category		
Sx4 + Nx1 = 88		S in 4 categories; N in one category		
Sx3 + Nx2 = 85		S in 3 categories; N in 2 categories		
Sx2 + Nx3 = 82		S in 2 categories; N in 3 categories		
Sx1 + Nx4 = 79		S in 1 category; N in 4 categories		
Nx5 = 75		Needs improvement in all categories		
Barely acceptable Nx5 = 5 (minus)		Barely acceptable in all 5 categories		
U in any category = 60		Grade for the entire project		
S or N + Ux2 or Ux3 or Ux4 = 55		A total of 2, 3 or 4 Unsatisfactory categories		
Ux5 = 50		The work is unsatisfactory in every category		
When a passing grade is achieved +3% will be added to project for Self-Assessment with high level of agreement with faculty assessment				
DENTAL ANATOMY - IRDS I - CDM 1156				
Student Token #	Start check			
Date	TOOTH #			
Posterior Wax-Up	Exam Criteria Sheet - OCCLUSION			
CONTACT AREAS and EMBRASURES	Mesial Contact			
(position/contour)	Wide, Narrow : Occ-Ging, Fac-Ling	Student Grade		
1.Occlusal view	Interproximal space)			
2. Facial / Lingual views	(Loss of proximal convexity, "ear muff")	S	N	U
	Excessive/Light/Open			
	Malpositioned	Faculty Grade		
	Embrasures			
	Improperly contoured - F, L, O and G	S	N	U
CONTACT AREAS and EMBRASURES	Distal Contact			
(position/contour)	Wide, Narrow : Occ-Ging, Fac-Ling	Student Grade		
1.Occlusal view	Interproximal space)			
2. Facial / Lingual views	(Loss of proximal convexity, "ear muff")	S	N	U
	Excessive/Light/Open			
	Malpositioned	Faculty Grade		
	Embrasures			
	Improperly contoured - F, L, O and G	S	N	U

ARCH ALIGNMENT, CUSP HEIGHT and SLOPES	Occlusal table: Wide Narrow	Student Grade		
	Tooth not in proper arch alignment, cusp tips not in proper position			
1. Occlusal view	Inclines of triangular ridges- steep, shallow	S	N	U
2. Facial / Lingual views		Faculty Grade		
3. Proximal view	Facial Cusp(s) - Incorrect shape, height, slopes			
	Lingual Cusp(s) - Incorrect shape, height, slopes	S	N	U
FACIAL and LINGUAL CONTOURS, LINE ANGLES, OCCLUSAL OUTLINE	Facial Contour	Student Grade		
1. Occlusal view	Over / Under contoured			
2. Facial / Lingual views	MF DF Line Angles- Malpositioned or poorly defined	S	N	U
	Lingual Contour			
	Over / Under contoured	Faculty Grade		
	ML DL Line Angles- Malpositioned or poorly defined			
3. PROXIMAL VIEW	Occlusal outline - Incorrect shape	S	N	U
Facial /Lingual Height of Contour	Facial Height of Contour - Malpositioned or Over / Under contoured	Student Grade		
Facial / Lingual profiles	Lingual Height of Contour - Malpositioned or Over / Under contoured	S	N	U
	Facial profile - Over/ Under contoured	Faculty Grade		
	Lingual profile - Over/Under contoured	S	N	U
OCCLUSAL ANATOMY NEATNESS and FINISH	Anatomical Features - Incorrect, over/ under contoured, missing, deep, shallow	Student Grade		
	Grooves, Triangular ridges, Fossa, Marginal ridges	S	N	U
	Finish: Rough, irregular, dull, not ending at finish line, debris and excess wax on typodont, grossly unfinished wax	Faculty Grade	S	N
OCCLUSION	Cusp 2 Marginal Ridge: Both centric cusps /central fossa/ marginal ridges			
Occlusal Contacts:	OR	Student Grade		
Please circle ONE:	Cusp 2 Fossa: Both centric cusps /central fossa/ triangular fossae			
Cusp 2 Marginal Ridge	S = 4 or 5 occlusal contacts (2 must be centric cusps)	S	N	U
OR	N= 3 or 2 Occlusal Contacts (1 must be centric cusp)			
Cusp 2 Fossa	N minus 5 = 70 = Single occlusal contact	Faculty Grade		

	U = HYPO-OCCLUSION: No occlusal contacts OR			
	U = HYPER-OCCLUSION: Fracture (Centric, Protrusive, Lateral Excursion)	S	N	U
IRDS Grade Values for Rubrics S = Satisfactory N = Needs Improvement U = Unsatisfactory				
S = 91% N = 75% U = 60% (Grade can range between 60 - 50% with quantity)				
Sx7 =	91 Satisfactory in every category			
Excellence in all categories	5 (extra)			
Sx6 + Nx1 =	88 S in 6 categories; N in 1 category			
Sx5 + Nx2 =	86 S in 5 categories; N in 2 categories			
Sx4 + Nx3 =	84 S in 4 categories; N in 3 categories			
Sx3 + Nx4 =	82 S in 3 categories; N in 4 categories			
Sx2 + Nx5 =	80 S in 2 categories; N in 5 categories			
Sx1 + Nx6 =	78 S in 1 category; N in 6 categories			
Nx5 =	75 Needs improvement in all categories			
Just acceptable Nx5	5 (minus) Barely acceptable in all 5 categories			
U in any category =	60 Overall grade for the project			
S or N + Ux2 or Ux3 or Ux4 or Ux5 =	55 Total of 2, 3, 4 or 5 Unsatisfactory categories			
Ux6 or Ux7 =	50 The work is unsatisfactory in 6 or 7 categories			
When a passing grade is achieved +3% will be added to project for Self-Assessment with high level of agreement with faculty assessment				

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:

Grading Policy:

- There will be 4 Independent Preclinical Performance Assessments (IPPAs) equally weighted. They will contribute to 100% of the final IRDS I Lab grade.
- The Grading Rubrics will be based on the following numerical guide:
S = Satisfactory (91%) N = Needs Improvement (75%) U = Unsatisfactory (60%)

+ 3% will be added to an IPPA grade for a high level of agreement between student self-assessment and faculty assessment.

In order to pass the class, students must achieve an overall laboratory average of 70% or

greater. (There will be no remediation for a failed IPPA; it will be calculated in the final grade.)

- When the average of the 4 IPPAs is less than 70% a remediation will be necessary. A maximum grade of 70% will be awarded for a successful remediation. This grade of 70% will then be the grade achieved for the course.
- A failed remediation will receive a grade of 60% and will be reported as a Course Failure
- All IPPAs must be taken in order to pass the course. **Once an IPPA is started, the project must be turned in to be graded.**
- Points may be deducted for not following directions during the IPPA. **(If the procedure is done on the wrong tooth, the student will receive an automatic failure and a grade of 60% for that IPPA exam).**
- It is the students' responsibility to obtain a daily evaluation grade from their faculty, during the lab session. Projects need to be completed to a satisfactory level.
- All projects related to a given IPPA, as determined by the course director, must be completed BEFORE the respective IPPA or students will not be deemed eligible to take the IPPA on the scheduled date.
- In the event of an IPPA taken late, (except in the cases of excused absences), a maximum grade of 75% can be obtained for that IPPA.
- All daily projects, worksheets, and anatomic drawings must be completed to a satisfactory evaluation in order to pass the course. Projects that may initially receive a grade that is unsatisfactory will need to be improved to a satisfactory outcome.
- It is the students' responsibility to get their project signed by the Faculty instructors during every laboratory session.
- It is the students' responsibility to get their attendance recorded during each laboratory session. Signatures will not be given for attendance **after** the laboratory session
- In addition to quality of projects, unsatisfactory performance in the area of preparedness, organization, use of personal protective equipment, and ergonomics may result in a grade penalty, at the discretion of the course director.
- Points for self-assessment cannot be added to a failed IPPA or a failed laboratory grade in order to elevate either to a passing grade.
- Unsuccessful attempts during daily projects and/or IPPAs may require additional projects to be completed to a satisfactory level at the discretion of the course director.

Course Final Grade Mode for the course (Pass/Fail, PR/NPR or Letter Grade). For a continuum course, please specify the grade mode for each semester.

Grade Mode:

Letter Grade

Course Grading Scale

Letter Grade	GPA	Equivalence
A	4	93 to 100
A-	3.75	90 to < 93
B+	3.5	86 to < 90
B	3	83 to < 86
B-	2.75	80 to < 83
C+	2.5	76 to < 80
C	2	70 to < 76
F	0	<70

XI. Course Policies

COURSE ATTENDANCE REQUIREMENTS, REMEDIATION POLICY, ALL CDM POLICIES

Attendance Policy : Please refer to appropriate pages of the NSU-CDM 2020-2021 Student Handbook.

Link to the handbook:

<https://liverootnova.sharepoint.com/dentmed/Active%20Docs/Policies%20and%20Procedures/Pre%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.