

I. Course Information

Course: CDM 2260 - Fixed Prosthodontics Lecture II Semester and Year: Winter 2021 Course Start and End Dates: 01/04/2021 - 04/25/2021 Course Reference Number: 31903 Semester Credit Hours: 1.0 Building and Room: Online Venue - CANVAS

II. Instructor Information

Professor: John R Antonelli Email: antonell@nova.edu Office Hours: Office hours by appointment.

III. Class Schedule and Location

Day	Date	Time	Location	Building/Room
	01/04/2021 - 04/25/2021		Programs On- line	Online Venue- CANVAS
R	01/07/2021 - 02/25/2021	10:10 AM - 10:59 AM	Programs On- line	-

IV. Course Description

This lecture course presents the theory and principles of fixed prosthodontics and its role in the overall treatment of the patient. This course, in conjunction with the laboratory course, provides a foundation for students to use the knowledge and techniques needed in clinical applications.

V. Course Objectives / Learning Outcomes

Course Learning Outcomes

At the completion of this course, the student will be able to: 1. Develop knowledge of the indications and contraindications for selecting a specific restorative modality for the restoration of individual teeth, including: diagnosis, prognosis, treatment planning, and treatment for indirect restorative and fixed prosthodontic procedures. 2. Develop knowledge of the preparation of teeth for indirect restorations, including appropriate tooth reduction parameters and finish line designs. 3. Develop knowledge of the rationale for and fabrication of provisional restorations, and multiple techniques for fabricating, contouring, fitting, and polishing of biologically, esthetically and functionally sound provisional restorations. 4. Develop knowledge for making and assessing preliminary and final impressions. 5. Develop knowledge of the

materials used in the prevention,

of oral health.

STATEMENTS FOR THE GENERAL DENTIST

methods and instruments used for obtaining interocclusal records, and articulating diagnostic and working casts. 7. Develop knowledge for fabricating porcelain--metal restorations, including: preparing teeth; making impressions; designing and fabricating working casts, wax substructure designs for porcelain bearing surfaces; and, selectively adjusting occlusion. 8. Develop knowledge in the utilization of provisional cements for luting provisional restorations to teeth. 9. Develop knowledge in the application of dental materials, including impression materials, waxes, acrylics, alloys, ceramics, and polishing materials.

<u>COLLEGE OF DENTAL MEDICINE COMPETENCY STATEMENTS Faculty Note: Use the most updated</u> 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:

<u>Related Competencies in which students will be assessed and by the following assessment</u> <u>methods</u>

4. Graduates must be competent in health promotion and disease prevention, including caries management (CODA 2-24d) Formative: Quizzes; Summative: final written examination (comprehensive)

6. Graduates must be competent in the restoration of teeth (CODA. 2-24f). Formative: Quizzes; Summative: final written examination (comprehensive)

 Graduates must be competent in communicating and managing dental laboratory procedures in support of patient care (CODA 2-24g). Formative: Quizzes; Summative: final written examination (comprehensive)
Graduates must be competent in the replacement of teeth including fixed, removable and implant prosthodontic therapies (CODA 2-24h). Formative: Quizzes; Summative: final written examination (comprehensive)

15. Graduates must be competent in the evaluation of the outcomes of treatment, recall strategies, and prognosis. [CODA Predoctoral Standard 2-24(o)] Formative: Quizzes; Summative: final written examination (comprehensive)

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 2-10). Formative: Quizzes; Summative: final written examination (comprehensive)

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, life-long learning (CODA 2-11). Formative: Quizzes; Summative: final written examination (comprehensive)

28. Graduates must be competent to access, critically appraise, apply, and communicate scientific and lay literature as it relates to providing evidence-based patient care (CODA 2-22). Formative: Quizzes; Summative: final written examination (comprehensive)

- This refers to the same as the items in the CDM Competency Document; please see them listed below.

FOUNDATION KNOWLEDGE

FK1-1: Apply knowledge to 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.).

FK 1-7: 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.). FK 3: 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

FK 1: 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

maintenance of oral health.

etc.).

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.).

FK7: Apply knowledge of the biology of microorganisms in physiology and pathology in the prevention, diagnosis, and management of oral disease and the promotion and maintenance of oral health. FK7-2: Apply the principles of epidemiology to achieving and maintaining the oral health of communities and individuals (Encompasses Epidemiology, Public Health, Preventive Medicine, Preventive Dentistry,

VI. Materials and Resources

Course Required Texts and Materials: Required Textbook: ContemporaryFixed Prosthodontics 5thEdition Rosenstiel,Land and Fujimoto Mosby ISBN978-0-323-08011-8 (hardcover)

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 Readings:

- 1. Lecture handouts (may include additional articles from the dental literature)
- 2. Functional Occlusion: From TMJ to Smile Design, Peter E. Dawson, Mosby. 2007. ISBN 13: 978-0-323-03371-8 and 10: 0-323-03371-7
- Management of Temporomandibular Disorders and Occlusion, Seventh Edition, Okeson Mosby, 2013. ISBN 978-0-323-08220-4

- 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:

Academic Ca	lendar 2020-21		
Session #	Date	Topic <u>Assignment</u>	Content Outline
1	Nov 12	Framework R: 521-530; 713-734	Fabricate prov restoration 3-X-5
		Design for FPDs	
		Dr. Antonelli	
2	Nov 19	Fabricating Block Review article 5	Fabricate block prov # 20
		Prov Restorations	
		Dr. Antonelli	
3	Jan 7, 2021	Rest of Endo R: 278-315	Bond fiber post & create core build-up
		Treated Teeth 1	
		Dr. Antonelli	
4	Jan 14	Rest of Endo R: 278-315 (review)	Fabricate acrylic pattern for cast metal post
		Treated Teeth 2	
		Dr. Antonelli	
5	Jan 21	Polycarbonate R: 404-409; 425-429	Prep # 9 for all-ceramic crown; provisionalize with
		& Revotek LC	polycarbonate crown & Revotek LC
		Provisional	
		Crowns	
		Dr. S. Siegel	
6	Jan 28	Sequencing in the R: 70-90	Provisionalize #s 19-X-21
		Prosthodontic Treatment	
		Plan	
-	D 1 4	Dr. S. Siegel	
7	Feb 4	The Solder Index R: 713-734; 453- 455	Section any provisional FPD and connect and realign
0	E-1 11	Dr. Antonelli	sections intraorally to make an acrylic-plaster solder index
8	Feb 11	Selective Occlusal R: 92-98	Fabricate vacuum stent to provisionalize 29-X-31. Prepart
		A djustment	#s 29 & 31 for a 3-unit FPD
0	E-1 10	Dr. Antonelli	Duranisiana lina #1 20 X 21
9	Feb 18	Occlusion 2020-21	Provisionalize #s 29-X-31
		Dr. Antonelli	
10	Feb 25	FINAL WRITTEN EXAM	FINAL PRACTICAL EXAM
10	1 00 23		

R: Contemporary Fixed Prosthodontics, Rosenstiel et al. 5th Edition.

Publication # 1: Antonelli J, Hottel TL, Siegel SC, Darnell L. "The Acrylic Transfer Coping Technique for Making Accurate Interocclusal Records." *J Tenn Dent Assoc* 91(2):17-23.

Publication # 2: Goodacre CJ, Campagni WV, Aquilino SA. "Tooth Preparations for complete crowns: An art form based on scientific principles." *The J Prosthet Dent* 85(4):363-376.

Publication # 3: Ishikiriama A et al. (1981). "Influence of some factors on the fit of cemented crowns." *The Journal of Prosthetic Dentistry* 45(4):400-404. Publication # 4: Antonelli J, Hottel TL, Siegel SC, Brandt R, and Silva G. "The occlusal guard: a simplified technique for fabrication and equilibration." *Gen*

Generated: 11/1/2021

Dent 61(3):49-54.

Publication # 5: Patras M et al. (2012). "Management of Provisional Restorations' Deficiencies: A Literature Review." *J Esthet Restor Dent* 24:26-39. **Publication # 6:** Antonelli J, Hottel TL, Siegel SC, Romer MA. "A resin acrylic and plaster solder index for realigning an ill-fitting fixed partial denture framework." *Gen Dent* 57(6):637-643.

Topic Outline:

Important: Due to the current Covid-19 pandemic, course schedules and course activities may be modified now and in the future. Faculty and students are responsible for keeping apprised of these changes and adjusting their schedules accordingly.

The lecture course should expand the students' knowledge of fixed partial dental prostheses (FPDP) should by exploring framework designs of FPDPs and the parameters of pontic designs. Additional techniques for fabricating provisional FPDPs will be presented to prepare students for the trials that they will encounter when they transition into our predoctoral clinics. The restoration of endodontically treated teeth will be discussed in great detail, including the importance of ferrule and ferrule effect. Students will receive detailed instruction about restoring endodontically treated teeth; they will use acrylic simulations of anterior and posterior teeth to fabricate acrylic post patterns for custom, cast metal posts, bonded fiber posts and composite core build-ups. Students will receive detailed instructions about restoring prepared teeth with polycarbonate prefabricated crowns and with light-cured composites. Students will be introduced to the concept of sequencing prosthodontics in the comprehensive care treatment plan. Depending on availability of CAD/CAM faculty, one-half-session could be devoted to demonstrating for students how provisional restorations are milled with CAD/CAM technology. Students should gain hands-on experience with cementation of provisional crowns, based on current literature. Finally, the importance of making evidence-based decisions will be stressed throughout all fixed prosthodontics courses.

"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

See Academic Calendar posted in Canvas

Completion of homework projects during sim lab hours is expected of students. Homework assignments are listed in the academic calendar. Homework must be completed by the due date specified in the Project Completion Booklet. Failure to complete assignments in a timely manner will result in point deductions and students quickly falling behind in the work.

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:

LECTURE-CDM-2260

Quizzes......65 % Final exam(comprehensive)....35 %

Students are responsible for all information presented in lectures. A quiz might be announced or unannounced, and several might be given throughout the semester in either the lecture room, online or in the simulation laboratory. Quizzes could be based on the reading assignments in the required textbook; previous and/or current lecture materials; assigned articles in the dental literature, and; assigned laboratory projects. Required readings are listed in the current Fixed Prosthodontics Academic Calendar, posted in Canvas. A grade of zero will be given for any missed quiz - make-up quizzes are not provided for any reason. Students will receive the grade zero for a final examination not taken because of an unexcused absence or lateness (lateness is defined as arriving for an examination <u>after</u> a student has already completed that examination and left the examination venue). Missed final examinations resulting from excused absences may be taken at a later time only if the following rules are observed: (1) the student must notify the course director by email within 48 hours of returning to NSU-CDM, and (2) the student must present qualifying written proof of an excused absence. The format of a make-up final examination will be at the discretion of the course director; formats could include a short research project (suitable for PowerPoint presentation to the director) or essay-type questions, etc. A student with an excused absence who fails to comply with rules (1) and (2) will forfeit his/her opportunity to make up a missed final examination and will receive the grade zero. Five points will be deducted from a final examination or quiz grade when a student fails to provide his/her name, I.D. number, and/or exam version on a ScanTron score sheet. Any student who fails to log into a Canvas-posted examination during the date and time period specified by the course director will receive the grade zero, with no opportunity for a make-up examination or quiz. When calculating final course grades, the course director might decide to drop the lowest quiz grade if at least six quizzes were provided; however, the grade zero for a missed quiz will not be dropped when grades are calculated.

Any appearance of inappropriate behavior or cheating during any examination of any kind, or inappropriate behavior during any laboratory session during which time projects are completed will not be tolerated—the student risks receiving the grade zero for that examination, assignment, or project as well as referral to the Dean of Academic Affairs, etc.

Students are responsible for all materials from lectures, assigned readings, and laboratory applications. Information in the required textbook and/or supplemental readings should take precedence over outright contradictory or significantly different information conveyed in lectures and/or laboratory sessions.

Course Final Grade Mode for the course (Pass/Fail, PR/NPR or Letter Grade). For a

continuum course, please specify the grade mode for <u>each</u> semester. Grade Mode:

Final course grade will be a numerical grade (0-100) that will be converted on the transcript to a letter grade (based on the rubric below).

Course Grading Scale				
Letter Grade	GPA	Equivalence		
Α	4	93 to 100		
A-	3.75	90 to < 93		
B+	3.5	86 to < 90		
В	3	83 to < 86		
В-	2.75	80 to < 83		
C+	2.5	76 to < 80		
С	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%20a 2020%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 PolicyPlease 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 COVIDlike 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 7if 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%20 2020%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%20 2020%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 <u>www.nova.edu.title-ix</u>. 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 <u>laura.bennett@nova.edu</u> or 954-262-7858.