

**University of Nevada Las Vegas
School of Dental Medicine**

Course Syllabus

DEN 7122 – Foundations in Fixed Prosthodontics Lecture

Credit Hours: 1

Contact Hours: 14

1) GENERAL INFORMATION

- a. Department: Clinical Sciences
- b. Designation: Pre-Clinical
- c. Type: Required
- d. Day and Time Course Offered: Wednesdays, 8am-9am
- e. Location(s) of Class: UNLV SDM SimLab

2) COURSE DESCRIPTION

This course is designed to present foundational information and skill development in contemporary fixed prosthodontics. The basic principles and philosophies of restoring and replacing teeth using fixed cast, ceramo-metal and all ceramic restorations will be introduced. The examination, treatment planning and preparation of teeth will be emphasized. The use of appropriate dental materials, impression techniques, model and die fabrication and temporization techniques will be presented.

- a. **Prerequisites** : DS I standing or at the discretion of the course director

3) LEARNING RESOURCES

- a. Required texts
 1. Fundamentals of Fixed Prosthodontics, 4th Edition
Resource Type: Vital Source – Book
Primary Author: Shillingburg
 2. Fundamentals of Tooth Preparations for Cast Metal and Porcelain Restorations
Resource Type: Vital Source – Book
Primary Author: Shillingburg
 3. Restorative Dental Materials, 11th Edition
Resource Type: Vital Source – Book

Primary Author: Craig

4. Contemporary Fixed Prosthodontics, 4th Edition
Resource Type: Vital Source – Book
Primary Author: Rosenstiel
5. Esthetics of Anterior Fixed Prosthodontics
Resource Type: Vital Source – Book
Primary Author: Chiche
6. Phillips' Science of Dental Materials, 11th Edition
Resource Type: Vital Source – Book
Primary Author: Anusavice

b. Other

1. Materials posted on WebCT, SharePoint, etc. by course director to supplement other resources.
2. Lecture materials
Power point presentations
Lecture information not addressed by power point presentations

4) PARTICIPATING FACULTY

5) COURSE GOALS AND OBJECTIVES

The student will gain knowledge and experience in contemporary fixed prosthodontics.

OBJECTIVES:

- understand the basic principles and philosophies of restoring and replacing teeth using fixed restorations
- understand the principles of resistance, retention, draw and path of insertion
- learn to examine, treatment plan and prepare teeth for the placement of single crowns
- learn to prepare all metal, ceramo-metal and all ceramic crowns with appropriate margins, finish lines and convergence angles
- understand the uses of dental materials commonly associated with fixed prosthodontics
- understand the rationale and techniques in fixed prosthetic temporization
- learn the basic laboratory (non clinical) techniques associated with fixed prosthodontics

OUTCOMES:

At the conclusion of this course, the student should be able to:

- prepare teeth (posterior) for all metal (cast) crowns
- prepare teeth (anterior and posterior) for ceramo-metal crowns

- prepare teeth (anterior and posterior) for all ceramic (porcelain) crowns
- produce an accurate final impression utilizing polyvinylsiloxane (or other) impression material
- construct a clinically acceptable temporary restoration using bisacryl or acrylic material
- employ die stone(s) and other gypsum products to produce accurate dies and models for articulation
- accurately trim dies

6) SDM COMPETENCIES ADDRESSED/SUPPORTED

1. *Develop principles of ethical reasoning and professional responsibility as they pertain to the academic environment, patient care, practice management and research.*
2. *Demonstrate self-assessment, critical thinking and problem solving skills related to the comprehensive care of patients*
3. *Promote oral and systemic health of patients within private practice and within the community*
4. *Assess, diagnose and perform treatment planning for individual patients of all ages*
5. *Treat or manage periodontal and peri-implant tissues*
6. *Restore defective teeth to form, function and acceptable esthetics*
7. *Replace missing teeth to form, function and acceptable esthetics*
9. *Treat or manage oral mucosal, bone and temporomandibular disorders*
11. *Diagnose and manage malocclusion and occlusal disorders*

7) EVALUATION

- a. Grading Scale for written exams:
 - A = 90-100
 - B = 80-89.999
 - C = 70-79.999
 - F = < 70

Three tests will be given, each counting 1/3 of total grade.
- b. **Posting Grades:** Quiz and exam grades are posted to WebCT at the first convenient opportunity following the quiz or exam. Final grades are sent to main campus for posting.
- c. The UNLV SDM Student Handbook, III: UNLV School of Dental Medicine Student Code of Professional Responsibilities and Appendices outline the professional behavior expected of students attending UNLV SDM. Failure to act in a professional manner, as determined by faculty, may affect a course grade. Unprofessional conduct may result in failure of course.

8) COURSE SCHEDULE (INSTRUCTIONAL SESSIONS)

MAY

May 10, 2017

- 1.) **INTRODUCTION** [45]
CROWNS: BASIC PRINCIPLES (lecture)
Reading List:
REF 1: Chap. 1, 2
REF 2: Chap. 1, 6, 9, 10
REF 3: Chap. 3, 4, 5, 6, 7
Christensen article –WebCT
- 2.) **“BLUE TOOTH”** (lecture) [15]
(review Power Point)
- 3.) **“BLUE TOOTH”** Prep 19 and 30 [90/90]
(lab exercise)
Self Assess/Faculty Assess

May 17, 2017

- 1.) **CEREC** (lecture) [60]
Reading List:
VIDEOS, Dr. Hurlbut Faculty Page
- 2.) **CEREC** (lab demo/exercise) [180]

May 24, 2017

- CROWNS: ALL METAL, ALL CERAMIC,
CERAMOMETAL (lecture)
Reading list:
REF 1: Chap. 4, 13, 14, 15
REF 2: Chap. 10, 23, 24
REF 3: Chap. 8, 9, 11
- 1.) **IMPRESSION** (lecture) [20]
Reading list:
REF 2: Chap. 17
REF 3: Chap. 14
 - 2.) **TEMPORIZATION** (lecture) [20]
Reading List:
REF 2: Chap. 15
REF 3: Chap. 15
 - 3.) **LAB Rx/LAB PPROCEDURES/
CROWN FABRICATION** (lecture) [20]
Reading List:

REF 3: Chap. 16

4.) CEMENTATION (lecture) [20]

Reading List:

REF 2: Chap. 21

REF 3: Chap. 30

May 31, 2017

1.) ALL METAL (lecture) [20]

Reading List:

REF 1: Chap. 2, 3, 4

REF 2: Chap. 9, 10

REF 3: Chap. 7, 8

2.) ALL METAL (lab exercise) [180]

Prep 3 and 14 (1 1/2 hour each)

Self-assess/Faculty assess

JUNE

June 7, 2017

1.) ALL METAL (lab exercise) [240]

Prep 19 and 30 (1 ½ hour each)

Self Assess/Faculty Assess

June 14, 2017

PRACTICAL I ALL METAL (1 ½ hour)

30 ALL METAL

*** Turn in Typodont, labelled,
with completed self-assess form.**

**Be sure to place appropriate ID
on ALL paperwork***

TEST I (1 hour)

June 16, 2017 @1 PM

Remediation Session (SimLab)

June 21, 2017

1.) ALL CERAMIC (lecture) [20]

Reading List:

REF 1: Chap. 15

REF 2: Chap. 23

REF 3: Chap. 11

- 2.) **ALL CERAMIC** (lab exercise) [180]
 Prep #'s 8, 11 (1 ½ hr each)
Self Assess/Faculty Assess

June 23, 2017 @1 PM

Practical I Remediation (SimLab)

June 28, 2017

- 1.) **PORCELAIN and COLOR** (lecture) [20]

Reading List:

REF 2: Chap. 22

REF 3: Chap. 23, 29

- 2.) **ALL CERAMIC** (lab exercise) [180]

Prep #'s 19, 22 (1 ½ hr each)

Self Assess/Faculty Assess

JULY

July 5, 2017

- 1.) **DIGITAL WORKFLOW** (lecture) [60]

Reading List:

- 2.) **DIGITAL WORKFLOW** (lab) [180]

July 12, 2017

PRACTICAL II ALL CERAMIC (1 ½ hour)

8 ALL CERAMIC

***Turn in Typodont, labelled,
 with completed self-assess form.
 Be sure to place appropriate ID
 on ALL paperwork***

TEST II (1 hour)

July 14, 2017 @ 1PM

Remediation Session (SimLab)

July 19, 2017

- 1.) **CERAMOMETAL** (lecture) [20]

Reading List:

REF 1: Chap. 13, 14

REF 2: Chap. 24

REF 3: Chap. 24

2.) PREPARATION PROBLEMS and COMPLICATIONS (lecture) [20]

Reading List:

REF 1: Chap. 16, 17

REF 2: Chap. 4, 6, 9

REF 3: Chap. 3, 31

3.) CERAMOMETAL (lab exercise) [180]

Prep 6, 9 (1 1/2 hr each)

Self Assess/Faculty Assess

July 21, 2017 @1PM

Practical II Remediation (SimLab)

July 26, 2017

1.) ALTERNATE PREPARATIONS (lecture) [20]

Reading List:

REF 1: Chap. 16, 17

REF 2: Chap. 10, 13, 14

REF 3: Chap. 5

2.) CERAMOMETAL (lab exercise) [180]

Prep 14, 20 (1 ½ hour each)

Self Assess/Faculty Assess

AUGUST

August 2, 2017

TEST III (1 hour)

PRACTICE SESSION

August 9, 2017

PRACTICAL III CERAMOMETAL (1 ½ hours)

9 CERAMOMETAL

***Turn in Typodont, labelled, with completed self-assess form. Be sure to place appropriate ID on ALL paperwork.**

9) SPECIFIC CLASS POLICIES AND PROCEDURES

DEN 7122 and DEN 7137 syllabi may be changed at any time at the discretion of the course directors. Changes will be announced either in class or by email. Any changes, modifications, alterations or considerations of the content, lecture/lab and/or testing/practical schedule(s) are strictly the purview of and will be determined by the course director(s). Any pertaining policies in the UNLV SDM Student Handbook will be utilized for guidance in resolving any questions or conflicts.

a. Attendance Policy

- Attendance is mandatory and each unexcused absence will result in a 5 point reduction in the final course grade. Attendance will be determined by vacancies at assigned desks and will be kept by the course director(s) with input from the bench instructors.
- **IT IS THE RESPONSIBILITY OF THE STUDENT TO CONSULT WITH THE COURSE DIRECTOR(S) REGARDING ABSENCE FROM CLASS.**
- Students will also comply with SDM attendance and absence policies as outlined in the UNLV SDM Student Handbook.
- Activities missed during any absence (approved or unapproved) may be made up **ONLY** at the discretion and convenience of the course director(s).

b. Other Class Specific Policies

LECTURE and SIMLAB CONFORMANCE

- Students will abide by and adhere to the Standards of Professional and Social Behavior and Academic Honesty.
- Students will abide by and adhere to any and all applicable policies outlined In the UNLV SDM Student Handbook.
- Students will abide by the standards of dress and grooming as outlined in Section 3 in the UNLV SDM Student Hand book. There will be NO EXCEPTIONS to these standards of appropriate dress and appearance while in the SimLab and during this course. Scrubs are required for all lectures, examinations and projects pertaining to this course. Additionally, poorly fitting scrubs or inappropriate coverage (i.e., exposed ankles, midriff/back areas, etc.) or inappropriate undergarments or soiled or dirty scrubs will be cause for dismissal from that days lecture/lab. A failing grade for that days course work will be assessed.
- Failure to abide by any course, SDM or UNLV policies may result in dismissal from class and lab exercises and may result in a “0” or failure for the course activities, assignments, quizzes and/or exams for that day.
- Failure to abide by the **Honor Code** will result in incident reporting to the Academic and Student Honor Code committees for disciplinary action.

c. REMEDIATION

1. Any remediation will follow the established policies put forth in the UNLV SDM Student Handbook.
2. Remediation is not guaranteed and will be determined by and will be at the discretion of the course director(s).
3. **Remediation of written exams** is possible for **no more than two** of the total number given, **not including the final written examination.** (Stated differently, **the final written examination is not** remediable.) Remediation is not required, and is solely the student's choice. Only one attempt per remediation will be permitted, and it will count toward the two remediations permitted, whether the result is a pass or a failure. Remediation will **only** be **at the discretion and convenience of the course director(s).** **The maximum grade with successful remediation is 70%.**

10) UNIVERSITY-WIDE POLICIES & PROCEDURES:

Academic Misconduct—(Please note that this is addressed in the 2016-2017 SDM Student Manual.) Academic integrity is a legitimate concern for every member of the campus community; all share in upholding the fundamental values of honesty, trust, respect, fairness, responsibility and professionalism. By choosing to join the UNLV community, students accept the expectations of the Student Academic Misconduct Policy and are encouraged when faced with choices to always take the ethical path. Students enrolling in UNLV assume the obligation to conduct themselves in a manner compatible with UNLV's function as an educational institution. An example of academic misconduct is plagiarism. Plagiarism is using the words or ideas of another, from the Internet or any source, without proper citation of the sources. See the *Student Academic Misconduct Policy* (approved December 9, 2005) located at: <https://www.unlv.edu/studentconduct/student-conduct>.

Copyright—The University requires all members of the University Community to familiarize themselves **with** and to follow copyright and fair use requirements. **You are individually and solely responsible for violations of copyright and fair use laws. The university will neither protect nor defend you nor assume any responsibility for employee or student violations of fair use laws.** Violations of copyright laws could subject you to federal and state civil penalties and criminal liability, as well as disciplinary action under University policies. Additional information can be found at: <http://www.unlv.edu/provost/copyright>.

Disability Resource Center (DRC)—The UNLV Disability Resource Center (SSC-A 143, <http://drc.unlv.edu/>, 702-895-0866) provides resources for students with disabilities. If you feel that you have a disability, please make an appointment with a Disabilities Specialist at the DRC to discuss what options may be available to you. If you are

registered with the UNLV Disability Resource Center, bring your Academic Accommodation Plan from the DRC to the instructor during office hours so that you may work together to develop strategies for implementing the accommodations to meet both your needs and the requirements of the course. Any information you provide is private and will be treated as such. To maintain the confidentiality of your request, please do not approach the instructor in front of others to discuss your accommodation needs.

Religious Holidays Policy—Any student missing class quizzes, examinations, or any other class or lab work because of observance of religious holidays shall be given an opportunity during that semester to make up missed work. The make-up will apply to the religious holiday absence only. It shall be the responsibility of the student to notify the **instructor within the first 14 calendar days of the course for fall and spring courses (excepting modular courses), or within the first 7 calendar days of the course for summer and modular courses**, of his or her intention to participate in religious holidays which do not fall on state holidays or periods of class recess. For additional information, please visit: <http://catalog.unlv.edu/content.php?catoid=6&navoid=531>.

Incomplete Grades—The grade of I—Incomplete—can be granted when a student has satisfactorily completed three-fourths of course work for that semester/session but for reason(s) beyond the student’s control, and acceptable to the instructor, cannot complete the last part of the course, and the instructor believes that the student can finish the course without repeating it. The incomplete work must be made up before the end of the following regular semester for undergraduate courses. Graduate students receiving “I” grades in 500-, 600-, or 700-level courses have up to one calendar year to complete the work, at the discretion of the instructor. If course requirements are not completed within the time indicated, a grade of F will be recorded and the GPA will be adjusted accordingly. Students who are fulfilling an Incomplete do not register for the course but make individual arrangements with the instructor who assigned the I grade.

Tutoring and Coaching—Peer tutoring is available through the Office of Student Affairs at no cost. Please fill out the appropriate forms which can be picked up there. If need be, a referral can be made from Student Affairs to the Academic Success Center, CAP, or DRC on the main campus.

UNLV Writing Center—One-on-one or small group assistance with writing is available free of charge to UNLV students at the Writing Center, located in CDC-3-301. Although walk-in consultations are sometimes available, students with appointments will receive priority assistance. Appointments may be made in person or by calling 702-895-3908. The student’s Rebel ID Card, a copy of the assignment (if possible), and two copies of any writing to be reviewed are requested for the consultation. More information can be found at: <http://writingcenter.unlv.edu/>.

R

Rebelmail—By policy, faculty and staff should e-mail students’ Rebelmail accounts only.

Rebelmail is UNLV's official e-mail system for students. It is one of the primary ways students receive official university communication such as information about deadlines, major campus events, and announcements. All UNLV students receive a Rebelmail account after they have been admitted to the university. Students' e-mail prefixes are listed on class rosters. The suffix is always @unlv.nevada.edu. Emailing within WebCampus is acceptable but not a reliable way of communicating with your instructors at SDM. **Please note that SDM does not rely on Rebelmail. SDM has its own email system and is used as the primary means of communication between faculty and staff with the students.**

Falsification of Documents or Other Information -The UNLV Student Conduct Code and the UNLV School of Dental Medicine prohibits the forgery and falsification of any documents or records. This includes, but is not limited to, the forging, altering, misusing, providing or causing any false information to be entered on ANY University or School of Dental Medicine PRINTED OR ELECTRONIC documents, records (including patient records), or identification cards. The falsification of data, improper assignment of authorship of school work or other scholarly activity, claiming another person's work as one's own, unprofessional manipulation of experiments or of research procedures, or misappropriation of research funds will not be tolerated. Commission of any act of forgery or falsification as described will result in disciplinary action and sanctions as stated in the School of Dental Medicine Honor Code.

SDM E-Mail - By policy, faculty and staff should only e-mail students SDMail accounts. SDMail is the UNLV School of Dental Medicine official e-mail system for students. It is the one of the primary ways students receive official university communication. All UNLV SDM students receive an SDMail account after admission to SDM. As a reminder, sending information by e-mail should be done in an appropriate and professional manner.

Consensual Relationships - UNLV prohibits romantic or sexual relationships between members of the university community when one of the individuals involved has direct professional influence or direct authority over the other. For further information, go to <http://hr.unlv.edu/Policy/consensual.html> .

Transparency in Learning and Teaching—The University encourages application of the transparency method of constructing assignments for student success. Please see these two links for further information:

<https://www.unlv.edu/provost/teachingandlearning>;

<https://www.unlv.edu/provost/transparency>