



A. GENERAL INFORMATION:

Program:	Dental Hygiene
Course:	Prosthodontics
Course Number:	111-315-AB
Day(s) and Time:	Lecture: Monday, 8:30-10:30 Lab: Tuesday 8:30-11:30 or 13:30-16:30
Classroom Number:	SE-222
Ponderation:	2-3-2
Credits:	2 1/3 credits
Competencies:	Intermediate competency: 00LL, 00LN, 00LP towards the mastery of the competency 00LM
Pre-Requisite:	All first year dental hygiene courses
Semester:	Fall 2016
Teacher:	Nancy Graham Lepine
Office, Telephone, Email:	SE-214, 514-457-6610 (5800) or MIO
Office Hours:	As posted or by appointment

Note: This course uses chemicals as part of its normal teaching practices. If any student has experienced allergic reactions in the past to any particular chemical or chemicals, she/he must inform the instructor. In the event that a student experiences an allergic reaction in the lab, she/he should report to Health Services

B. INTRODUCTION:

This course will provide the student with the opportunity of learning the theory behind why certain products are used in dentistry. Topics that will be discussed are the physical conditions of the oral environment, the physical properties of dental materials, gypsum products, impression materials, restorative and prosthodontic materials, cements, waxes, varnishes, preventive products, periodontal packs, abrasives including dentifrices, acrylic & plastics, implants. There is also a significant practical component that allows for skill development in handling various materials.

In this course the student will be able to perform procedures related to the use of various dental materials, students will perform these tasks in a laboratory setting on a manikin and a peer. This is an intermediary step to the terminal competency ***perform procedures related to prosthodontics***, 00LM, which will be terminal in Clinic II. The following program competencies are introduced in this course:

00LL *Perform a selective polishing.*

00LM *Perform procedures related to prosthodontics.*

00LN *Contribute to orthodontic treatments.*

00LP *Perform restorative dentistry.*

A detailed profile of the course outcome is summarized in section C: Course Objectives.

This course incorporates evidence-based practice: an approach where clinical expertise is blended with the highest quality research while taking into account the client's needs and preferences. The students will use evidence-based practice in all aspects of the course.

The **Comprehensive Assessment (CA)** requires graduating students to demonstrate the integration of acquired competencies within the Dental Hygiene program. In order to graduate, the student is required to successfully complete the fifteen elements of the CA during the fifth and sixth semesters.

D. EVALUATION:

Section 1: Theory 50%	Value	Ministerial Objectives
Quiz #1 (week 6)	5%	1, 2
Quiz #2 (week 11)	10%	1, 2
Prosthodontic Glossary Assignment (week 12)	10%	1, 2
Laboratory Visit Report* (week 14)	5%	1, 2
Final Exam (Comprehensive) – Exam Week	20%	1, 2
Section 2: Laboratory Application 50%		
Perfect Set (week 3)	5%	3
Study Model # 1 (week 10)	5%	3
Study Model # 2 (week 12)	10%	3
In-lab production Study Model #3 (week 14 or 15)	20%	3
Whitening Trays (week 14 or 15)	5%	3
Athletic Mouthguard (week 16)	5%	3

*** Students are required to visit a dental laboratory, observe the work of a dental technician and write a report. This is to be done in the student's own time (i.e. not during any lecture or laboratory scheduled time).**

Further details regarding requirements and evaluation will be provided during class time and posted on Léa .

The student must attain a passing grade (60%) in each of the evaluation sections stated above in order to pass the Prosthodontics Course 111-315-AB or a maximum grade of 55% will be given.

Student Participation

For reasons of health and safety, in all laboratory sessions students are required to adhere to the following guidelines: 1) Tie hair away from face. 2) Wear safety glasses. 3) Wear a uniform and/or lab coat (depending on lab activity). 4) Leave purses, coats, books, backpacks etc. in lockers. 5) No food or drinks are permitted.

Failure to comply with these guidelines will prevent participation in that laboratory session.

Rules of infection control must be followed at all times during laboratory sessions.

*5% will be deducted from any lab assignment where infection control violations occur.

E. COURSE CONTENT: (tentative schedule)

Chapters noted with * refer to laboratory and clinical applications of topics.

Week	Lecture Content	Theory Assessments	Laboratory Content	Lab Assessments
1. Aug 22	Introductions; explanation of course outline/content and laboratory sessions and assessments. Intro to dental materials (DM) ppt.:ch.1		Orientation to lab materials/equipment & set-up, tray selection. Demo and Pour-up “perfect set”.	
2. Aug 29	Introduction to DM cont.; Science and Dentistry:ch.2 (review) Gypsum:ch.9; *ch.28 (review: ch.20 Infection control for lab)		Demo alginate mixing & impression taking. Pour-up “perfect set”. Take md impression.	
3. Sept 5	No lecture – Labour Day holiday		Demo pour-up of impression. Take mx & md impressions & pour-up.	Submit Perfect set: 5%
4. Sept 12	Impression materials: ch.8;*ch.21,27,30		Demo trimming part 1, take impressions & pour-up.	
5. Sept 19	Physical and Mechanical Properties of DM:ch.3		Demo trimming part 2, take impressions & pour-up. Trim.	
6. Sept 26	Quiz #1: Ch.1,2,3,8,9; Dental Cements:ch.7; *ch.23	Quiz #1 5%	Impressions (new lab partner), pour-up & trimming.	
7. Oct 3	Direct Polymeric Restorative Materials:ch.5; *ch.36, *ch.22		Impressions, pour-up, trimming.	
8. Oct 10	Adhesive Materials:ch.4; *ch.25; Polishing Materials and Abrasion:ch.16; *ch.36		No Lab (Monday schedule)	
9. Oct 17	Polishing con’t, Amalgam:ch.6; *ch.26		Perio materials, sutures, impression materials. Trimming for whitening models.	
10. Oct 24	Amalgam con’t		Trimming	Submit Study Model #1: 5%
11. Oct 31	Quiz #2: Ch.4,5,6,7,16; *23,25,26,36 Oral Appliances: ch.18, *ch.29	Quiz #2 10%	Impressions, pour-up, trimming. Custom tray demo	

12. Nov 7	Fixed Indirect Restorations and Prostheses;ch.10;	Prosthodontic Glossary Assignment Due: 10%	In lab production of Study Model # 2, imp of one arch, trim max & mand, hand-in. Completion Study Model #2	Submit Study Model #2: 10%
13. Nov 14	Tooth Whitening;ch.17; *ch.31		Amalgam, composites, liners, sealants station lab. Prepare athletic mouthguard	
14. Nov 21	Specialty Materials:ch.13 *ch.33,34 Dental Implants:ch.12; *ch. 35	Dental Lab Visit Report: Due: 5%	In lab production of Study Model # 3; half lab group. Whitening trays; half lab group. Shade guide use.	Submit Study Model #3: 20% (or) Submit Whitening Trays: 5%
15. Nov 28	Implants cont.; Removable Prostheses & Acrylic Resins:ch.11		In lab production of Study Model # 3; half lab group. Whitening trays; half lab group. Shade guide use.	Submit Study Model #3: 20% (or) Submit Whitening Trays: 5%
16. Dec 5	T.B.A.		Demo temporary crowns, Demo and produce athletic mouthguard	Submit Athletic Mouthguard: 5%
	Final Exam – during exam week. Comprehensive (50% from ch. 10, 11, 12, 13, 17, 18)	Final: 20%		

All lab work to be assessed must be worked on during lab time only. The criteria for In-Lab production of Study Model #3 will be explained in class.

F. REQUIRED TEXT and COURSE COST in ADDITION to TEXTS:

Gladwin, M., Bagby, M. (2013). *Clinical Aspects of Dental Materials*. (4th. Ed.) Philadelphia, PA: Wolters, Kluwer: Lippincott, Williams & Wilkins.

Cost:

Textbook, approx. \$98.56 + tax. (included in 2nd year book package)

Laboratory coat, uniform \$25.00 each (approx.)

Laboratory kit: \$59.00 plus taxes