

A. GENERAL INFORMATION:

Program:	Dental Hygiene
Course:	Radiology
Course Number:	111-405-AB
Day(s) and Time:	Theory: Monday: 08:30-10:30 Labs: Tuesday 13:30-16:30, Wednesday 08:30-11:30, 13:30-16:30, Thursday 09:00-12:00, 13:00-16:00, Friday 13:00-16:00
Classroom Number:	SE-222
Ponderation:	2-3-2
Credits:	2 1/3
Competencies:	Intermediate competencies:00LC, 00LD and 00LE Reinvested competencies: 00L7, 00L8
Prerequisites:	All third semester Dental Hygiene courses
Semester:	Winter 2017
Teacher's Name:	Sandy Lapointe
Laboratory Teachers:	Anila Hasko, Sandy Lapointe, Jocelyne Long, Mila Peskir, Josée Tessier
Office, Telephone & Email:	514-457-6610 SE-217 (5089) – Anila Hasko, MIO SE-215 (5197) – Sandy Lapointe, MIO SE-207 (5442) – Jocelyne Long, MIO SE-205 (5199) – Mila Peskir, MIO SE-214 (5765) – Josee Tessier, MIO
Office Hours:	As posted or by appointment

Note 1: *This course uses chemicals as part of its normal teaching practices. Any student, who has previously experienced an allergic reaction to any chemical, must inform the instructor.*

Note 2: *Pregnancy must be reported immediately to the instructor and dental hygiene technician in order to put in place necessary precautions.*

B. INTRODUCTION:

One of the delegated acts of a dental hygienist is to take dental radiographs. This course focuses on the development of skills and knowledge required to take radiographs. Special emphasis will be placed on client management. Students practice taking radiographs on manikins then progress to clients. Students learn how to process and interpret the radiographs. They will study the laws, regulations, standards and codes that govern the practice of radiology.

The student will also be able to demonstrate this competency using knowledge and skills that have been acquired in previous courses or in courses running concurrently. The objectives and standards included in this course are included in the table below.

Following the Radiology course, the student will be able to *perform procedures related to*

radiographic techniques, as outlined by code 00LD, which will be terminal in Clinic III.

The following program competencies are further developed in this course:

00LC *Detect oral diseases.*

00LE *Be able to communicate in a professional manner with the client and the work team.*

00L7 *Apply universal precautions.*

00L8 *Apply health and safety measures.*

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 PLAN:

METHOD OF ASSESSMENT	Value	Ministerial Objectives
Theory		
Stump the Class	5%	1, 2
Homework	10%	1, 2
Quiz #1 (week 5)	5%	2
Mid-Term Exam (week 9)	10%	1, 2
Quiz #2 (week 13)	5%	4
Final Exam (comprehensive - during exam week)	15%	1, 2, 3,4, 5, 6
Laboratory		
Interpretation (20)	15%	4, 5
Radiographs	35%	3, 6
TOTAL	100%	

The student must attain a passing grade (60%) in **EACH** of the evaluation sections (theory & lab.) in order to pass the Radiology course. If not, a maximum grade of 55% will be given.

For late assignments, there will be a 5% deduction in the assignment grade for every day the assignment is late.

Final course competency assessment is incorporated within the theory and application sections of course evaluation. **The student will be able to perform procedures related to radiographic techniques.**

E. COURSE CONTENT: (see Appendix)

Week	Topics	Readings	Homework	S.T.C. Presentations	Lab
Week 1	Introduction Landmarks Mounting of Radiographs Stump the Class (S.T.C.)		http://www.dentalcare.com/en-us/home.aspx Assignment Number: 38681 Course ID: 433		Introduction Mounting of Radiographs Anterior Radiographs

Week 2	Shadow Casting Mounting of Radiographs Landmarks Stump the Class	Ch. 8 Ch. 27 Ch. 26	http://www.dentalcare.com/en-us/home.aspx Assignment Number: 38683 Course ID: 137	Sandy	Full Mouth X-rays (FMX) Landmarks
Week 3	Periapical Radiographs Bitewing Radiographs Mounting of Radiographs Landmarks Digital Radiography Stump the Class	Ch. 17 Ch. 19	http://www.dentalcare.com/en-us/home.aspx Assignment Number: 38682 Course ID: 119 Assignment Number: 38680 Course ID: 350 https://www.youtube.com/watch?v=xh4OB0rn0cw	1. 2. 3.	FMX Interpretation of Radiographs
Week 4	Client Management Infection Control Quality Control Landmarks Stump the Class	Ch. 12, 13, 14,26 Ch. 15 Ch. 10	http://www.dentalcare.com/en-us/home.aspx Assignment Number: 38681 Course ID: 433	1. 2.	FMX Interpretation
Week 5	Panoramic Radiographs Operator/Client Protection Landmarks Stump the Class Quiz 1 – 5%	Ch. 23 Ch. 5	http://www.dentalcare.com/en-us/home.aspx Assignment Number : 38684 Course ID : 71 http://www.dentistry.unc.edu/NRA/PanAnatomy/pananat.html	1. 2. 3.	FMX Interpretation Panorex
Week 6	Identification of Caries Landmarks Stump the Class	Ch. 32	http://dent.osu.edu/Instructional-Resources/RadiologyCarie/	1. 2. 3.	FMX Interpretation
Study Break					
Week 7	Identification of Periodontal Disease Darkroom Protocol Landmarks Stump the Class	Ch. 33		1. 2. 3.	FMX Interpretations
Week 8	Duplication Errors Landmarks Stump the Class	Ch. 9 Ch. 20	Stump the class homework charts are due based on presentations to this date. http://www.dentalcare.com/en-us/home.aspx Assignment Number: 38679 Course code:462	1. 2. 3.	FMX Interpretation Duplication
Week 9	Mid-Term Exam – 10% Radiation Biology Landmarks Stump the Class	Ch. 4	http://www.dentalcare.com/en-us/home.aspx Assignment Number: 31618 Course code: 399	1.	FMX Interpretation
Week 10	Landmarks Occlusal Radiographs Stump the Class		http://www.youtube.com/watch?v=-WA6G38esSI	1. 2. 3.	FMX Interpretation Occlusals
Week 11	Landmarks Stump the Class			1. 2.	FMX Interpretation
Week 12	Localization Technique Cephalometric Radiographs Landmarks Stump the Class	Ch. 21		1. 2.	FMX Interpretation Localization Technique

Week 13	Quiz 2 – 5% Bisecting Technique Landmarks Stump the Class	Ch. 18	http://www.youtube.com/watch?v=Ori4tahHMvU	1. 2.	FMX Interpretation Bisecting the Angle
Week 14	Landmarks Stump the Class		Stump the class homework charts are due based on all class presentations.	1. 2.	FMX Interpretation
Week 15	Final Slide Exam				FMX Interpretation
Exam Week	Final Exam – 15%				

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

Clinic Manual. (2014). Department of Dental Hygiene, John Abbott College. (Acquired in first year)

Darby, M. L. & Walsh, M. M. (2015). *Dental Hygiene Theory and Practice.* (3rd Ed.). St Louis, MO: Saunders. (Acquired in first year)

Iannucci, Joen M., Jansen Howerton, L. (2012). *Dental Radiography: Principles and Techniques.* (4th Ed.). St Louis, MO: Saunders (Previously purchased in 3rd semester course pack).

Cost:

Textbook: *Dental Radiography: Principles and Techniques:* **\$84.56 + tax** and E-book: **\$25.37 + tax**