



COURSE OUTLINE

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Course Name: Dental Laboratory Sciences 3

Department Head/Coordinator: Allan White

Effective Date: September 2015

School or Centre:	Department:	
School of Health Sciences	Denturist/Dental Technology Department	
Course History:	Year of Study:	
New Course	2nd Year Post-secondary	
Name of Replacing Course (if applicable):	Course Number:	DENT 2320
	Number of Credits:	3.0

Course Pre-requisites (if applicable):

All semester two courses.

Course Co-requisites (if applicable):

N/A

PLAR (Prior Learning Assessment & Recognition)

No Yes (details below):

Course Description:

This course introduces students to advanced concepts of CAD-CAM and dental implant design, fabrication, modification and repair techniques, materials, instruments, equipment and technology. Students will use CAD-CAM technology to design and fabricate complex implant fixed and removable dental appliances.

Note to instructors: An instructional strategy is an approach that an instructor uses to achieve the learning outcomes (e.g., lecture, case study, video, group work).

Instructional Strategies:

Lectures, seminars, demonstrations, case study analysis, project work and practice in labs

Course Learning Outcomes:

Upon successful completion of this course, the student will be able to:

1. Assess and use principles of design relating to the fabrication of Implant dental prosthetics using CAD-CAM technology;
2. Utilize aesthetics, form and function of Implant dental prosthetics using CAD-CAM technology;
3. Integrate principles and techniques of Implant restorations using CAD-CAM technology;
4. Assess the fundamental elements of dental anatomy, dental physiology, dental morphology and basic elements of oral pathological conditions and apply relevant knowledge to dental technology practice;
5. Practice to current workplace health and safety standards including dental laboratory asepsis, and infection control;
6. Apply essential elements and skills of behavioural sciences, communications, professional ethics, legal obligations and business management to dental technology practice;
7. Make decisions that reflect critical thinking and problem solving;
8. Integrate pertinent theoretical knowledge and empirical data and information literacy skills to justify and/or revise services.

Program Learning Outcomes:

The graduate of the VCC Dental Technology program will have the skills and abilities to:

1. Design, fabricate, modify and repair removable oral/dental prostheses;
2. Design, fabricate, modify and repair fixed oral/dental prostheses;
3. Design, fabricate, modify and repair oral/dental appliances used in orthodontics, oral and maxillo-facial surgery and other dental treatments;
4. Integrate general knowledge of dental laboratory procedures, physics and chemistry principles, associated with the fabrication of oral appliances and dental restorations;
5. Assess the characteristics and properties of dental materials associated with the fabrication of oral appliances and dental restorations and make decisions about their appropriate application in practice;
6. Assess the characteristics and operation of equipment and special instrumentation associated with the fabrication of oral appliances and dental restorations and make decisions about their appropriate application in practice;
7. Assess the fundamental elements of dental anatomy, dental physiology, dental morphology and basic elements of oral pathological conditions and apply relevant knowledge to dental technology practice;
8. Practice to current workplace health and safety standards including dental laboratory asepsis, and infection control;
9. Apply essential elements and skills of behavioural sciences, communications, professional ethics, legal obligations and business management to dental technology practice;
10. Make decisions that reflect critical thinking and problem solving; integrate pertinent theoretical knowledge and empirical data and information literacy skills to justify and/or revise services.

Evaluation/Grading System *(Click on drop down box arrows to see list of options)*

Grading System	Specify if 'Other':	Specify Passing Grade:
Letter Grades		C+ 64%

Components and Weighting of the Assessment/Evaluation Plan: *(Click on drop down box arrows to see list of options)*

Type	Percentage	Evaluation Plan (provide a brief explanation for each component especially if value exceeds 35%):
Midterm Exam	35	Multiple choice, short and long answer
Assignments	30	writtencase study
Final Exam	35	written exam multiple choice, short and long answer
Lab Work		Practical Projects (5) Grade will be Satisfactory (S) or Unsatisfactory (U) utilizing competency rubrics
		Students must earn an "S" grade in all projects to pass this course
	Total	100

Learning Environment/Type *(Select all that are used within the course)*

Instruction Type	Hours Per Instruction Type	Comments
B - Lab (Computer, Chemistry...)	60	
L - Classroom	20	
E - Seminar	10	
Enter Total Hours	90	

Resource Material(s):

Resources are items in addition to tuition that the student is responsible for purchasing. Course resource information will be supplied by the department/instructor.

Course Topics and Sequence Covered:

Implant dental prosthetics
Dental prosthetics
Implant dental restorations
Dental restorations

VCC Education and Education Support Policies

There are a number of **Education** and **Education Support** policies that govern your educational experience at VCC, please familiarize yourself with them.

The policies are located on the VCC web site at:

<http://www.vcc.ca/about-vcc/policies/index.cfm>

To find out how this course transfers, visit the BC Transfer Guide at www.bctransferguide.ca.

FOR COMMITTEE USE ONLY

Date Approved by Education Council:		Date Approved by VCC Board (if applicable):	
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