



# COURSE OUTLINE

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**Course Name:** Fixed Prosthetics 2

**Department Head/Coordinator:** Allan White

**Effective Date:** 2014

<b>School or Centre:</b>		<b>Department:</b>	
School of Health Sciences		Denturist/Dental Technology Department	
<b>Course History:</b>		<b>Year of Study:</b>	
Replacement Course		2nd Year Post-secondary	
<b>Name of Replacing Course (if applicable):</b>	DENT 4004	<b>Course Number:</b>	DENT 2350
		<b>Number of Credits:</b>	7.0

**Course Pre-requisites (if applicable):**

All semester two courses

**Course Co-requisites (if applicable):**

DENT 2320

**PLAR (Prior Learning Assessment & Recognition)**

No  Yes (details below):

**Course Description:**

This theory and laboratory course expands upon information and techniques for the design and fabrication of multiple unit fixed restorations. Students learn to fabricate various types of metal, ceramo-metal and all ceramic, porcelain, composite crowns and bridges. Students apply more advanced prosthodontic techniques for implant and dental fixed prosthesis, including computer assisted design and milling techniques that build on those learned in previous semesters. Dentists' prescriptions are followed. Students are assessed to level 2 production proficiency standards.

**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. Explain basic concepts relating to the design and fabrication of multiple unit restorations;
2. Explain aesthetics, form and function relating to multiple unit fixed restorations;
3. Apply principles and techniques relating to the design and fabrication of various types of multiple unit restorations;
4. Design and fabricate temporary bridges using alternative waxing and casting techniques;
5. Apply principles and techniques relating to the design and fabrication of multiple unit ceramo/metal restorations;
6. Apply computer assisted design techniques and principles to the fabrication of fixed restorations;
7. Practice to current workplace health and safety standards including dental laboratory asepsis, and infection control;
8. Apply essential elements and skills of behavioural sciences, communications, professional ethics, legal obligations and business management to dental technology practice;
9. Make decisions that reflect critical thinking and problem solving;
10. Integrate pertinent theoretical knowledge and empirical data and information literacy skills to justify and/or revise services;
11. Perform at the Industry Production proficiency level 2.



### **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	Written multiple choice, short & long answer
Assignments	30	Written case study
Final Exam	35	Written exam multiple choice, short & long answer
Lab Work		Practical Projects (5) graded Satisfactory/ Unsatisfactory
		Students must earn an "S" grade in all projects to pass this course
	<b>Total</b>	<b>100</b>

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

Instruction Type	Hours Per Instruction Type	Comments
B - Lab (Computer, Chemistry...)	135	
L - Classroom	60	
E - Seminar	15	
<b>Enter Total Hours</b>	<b>210</b>	

**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:**

Equipment and instruments  
Computer assisted design and computer assisted milling [CAD-CAM]  
Implant supported restorations  
Cosmetic dental materials  
Metal repair techniques  
Metal multiple unit restorations  
Resin/metal and ceramo/metal restorations  
Occlusion and articulation  
Aesthetics, form and function of ceramo/metal restorations  
Computer assisted and manual design techniques  
Fabrication of ceramo/metal multiple unit restorations  
Correction of porcelain faults

**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](http://www.bctransferguide.ca).

**FOR COMMITTEE USE ONLY**

<b>Date Approved by Education Council:</b>		<b>Date Approved by VCC Board (if applicable):</b>	
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