



COURSE OUTLINE

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Course Name: Fixed Prosthetics I

Department Head/Coordinator: Allan White

Effective Date: September 2014

School or Centre:		Department:	
School of Health Sciences		Denturist/Dental Technology Department	
Course History:		Year of Study:	
New Course		1st Year Post-secondary	
Name of Replacing Course (if applicable):	DENT 3004	Course Number:	DENT 1250
		Number of Credits:	6.0

Course Pre-requisites (if applicable):

All semester one courses

Course Co-requisites (if applicable):

DENT 1210 and DENT 1220

PLAR (Prior Learning Assessment & Recognition)

No Yes (details below):

Course Description:

As a continuation of the knowledge, skills and techniques introduced in Dental Foundations in Semester One, students will fabricate single unit metal restorations as prescribed. Students are introduced to dental ceramics including the characteristics and composition of porcelain, aesthetics, colour and shading, and the manipulation and firing of porcelain. Fabrication of single unit ceramo-metal restorations and the correction of dental porcelain and metal defects and faults are practiced. This course expands upon the theory base of the previous semester and will enhance the students' ability to design, fabricate, modify and repair, critique and self-evaluate their dental prostheses. Students are assessed to level 1 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 practical experience 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 fixed prosthetics;
2. Apply principles of occlusion and articulation related to fixed restorations;
3. Select and utilize materials for the fabrication of fixed metal restorations;
4. Incorporate the principles for manipulation and composition of fixed metal restorations;
5. 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;
6. Practice to current workplace health and safety standards including dental laboratory asepsis, and infection control;
7. Apply essential elements and skills of behavioural sciences, communications, professional ethics, legal obligations and business management to dental technology practice;
8. Make decisions that reflect critical thinking and problem solving;
9. Integrate pertinent theoretical knowledge and empirical data and information literacy skills to justify and/or revise services;
10. Design and fabricate various simple types of provisional fixed prostheses;
11. Design and fabricate single unit fixed restorations according to dentists' prescriptions;
12. Perform to Production Proficiency level 1 standards.



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 exam-multiple choice, short & long answer
Assignments	30	Written case study analysis
Final Exam	35	Written exam multiple choice, short & long answer
Lab Work		Practical Projects (x5) 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...)	120	
L - Classroom	45	
E - Seminar	15	
Enter Total Hours	180	

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:

Concepts of fixed prosthetic design & fabrication
Occlusion and articulation
Materials for fixed prosthetic fabrication
Equipment and instruments
Custom trays
Aesthetics, form and function
Articulators
Diagnostics and waxing up
Provisional restoration
Single unit fixed metal
Introductory computer assisted design for fixed restorations
Repair techniques

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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