



COURSE OUTLINE

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Course Name: Fixed Prosthetics 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 2450
	Number of Credits:	8.0

Course Pre-requisites (if applicable):

All semester three courses.

Course Co-requisites (if applicable):

PLAR (Prior Learning Assessment & Recognition)

No Yes (details below):

Course Description:

This theory and laboratory course expands upon information and techniques for the design, fabrication, modification and repair of multiple unit restorations and complex prosthetics. Students learn to fabricate various types of cosmetic, metal, ceramo-metal and ceramic, porcelain, composite crowns and bridges. Students apply advanced aesthetic, prosthodontic techniques including implant-retained prosthetics. Computer assisted design and milling (CAD-CAM) techniques are applied to the fabrication of multiple unit fixed prosthesis. Dentists' prescriptions are followed.

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. Design, fabricate, modify and repair multiple unit, complex fixed restorations following a dentist's prescription;
2. Integrate cosmetic dentistry concepts (aesthetics, form and function); dental materials and techniques in the fabrication of multiple unit, complex fixed restorations;
3. Apply principles and techniques relating to the use of CAD-CAM technology to design implant-retained and multiple unit restorations;
4. Incorporate design, fabrication modification and repair of temporary prosthetics (crowns, bridges);
5. Utilize alternative waxing and casting techniques;
6. Perform to industry production at proficiency level 3 standards;
7. Practice as a self-regulating professional;
8. Practice to current workplace health and safety standards including dental laboratory asepsis, and infection control.

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 (x3) 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...)	180	
L - Classroom	45	
E - Seminar	15	
Enter Total Hours	240	

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:

Occlusion and articulation
Aesthetics, form and function of ceramo/metal restorations
Design, fabrication, modification and repair of cosmetic fixed restorations
Design, fabrication, modification and repair complex/combination dental prosthetics
CAD-CAM (design and fabrication) of implant supported, multiple unit, fixed restorations
Correction of porcelain, implant 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.

FOR COMMITTEE USE ONLY

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