



COURSE OUTLINE

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Course Name: Dental Technology Practicum

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:	
Replacement Course		2nd Year Post-secondary	
Name of Replacing Course (if applicable):	DENT 2006, DENT 4005	Course Number:	DENT 2510
		Number of Credits:	19.0

Course Pre-requisites (if applicable):

All semester four courses.

Course Co-requisites (if applicable):

N/A

PLAR (Prior Learning Assessment & Recognition) No Yes (details below):

Course Description:

This course involves placement and practical experience in an accredited dental laboratory; supervised and assessed by Registered Dental Technology (RDT) employers trained as VCC preceptors. Students work on real cases that involve the design, fabrication, modification and repair of Fixed Prosthetics (Ceramic, Composite and Metal); Full and Partial Removable Prosthetics and Orthodontic Appliances. Students will improve skills and productivity abilities. Students will gain practical experience in Computer-Assisted Design and Milling Technology (CAD-CAM) in all specialty areas and have the opportunity to be clinically evaluated by VCC faculty in preparation for the RDT Practical Licensing examinations after graduation. Students will be assessed to entry to practice competency and productivity levels.

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:

Supervised practicum placements in full service dental laboratories with practical experience in all dental technology specialty areas. Skills and techniques will be assessed on site through Objective, Subjective Assessment Evaluations (OSCEs), self evaluation, and peer evaluation, Portfolio building and creation of artefacts as evidence of attainment of competencies, role-play .

Course Learning Outcomes:

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

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%):
Exam	35	Cumulative written multiple choice theory examination
Assignments	30	Select Case Study Presentation from Portfolio
Portfolio	35	Career Portfolio: Practicum Artefacts (evidence)
Practicum		Practical Projects (x5) Grade will be Satisfactory (S) or Unsatisfactory (U) utilizing OSCE rubrics
Practicum		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
P - Practicum	430	
B - Lab (Computer, Chemistry...)	140	
Enter Total Hours	570	

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:

Practical experience in compound/complex case work in dental technology for the design, fabrication, modification and repair of removable, fixed, orthodontic and oral maxillo-facial prosthetics.

Time in laboratory practice will be approximate as follows:

- 50%-Fixed Prosthetics- 5.5 weeks in Dental laboratory designing, fabricating, repairing fixed prosthetics
- 30%- Removable Prosthetics- 3.5 weeks in Dental Laboratory designing, fabricating, repairing partial and full dentures
- 20%-Orthodontic Prosthetics- 2 weeks in Dental laboratory designing, fabricating, repairing orthodontic, oral maxilla-facial and other dental appliances

Specialists/ presenters (term instructors) will provide laboratory workshops on site for the last month sharing practical experience with real life cases.

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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