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DENT 2380: Digital Technology 3

EFFECTIVE DATE

September 2021

DEPARTMENT

Dental Tech

DESCRIPTION

This course further expands the knowledge and skills learned in Digital Technology 2, using dental CAD (Computer Aided Design) and CAM (Computer Aided Manufacture). The focus is on strategic use of CAD programs and CAM technologies for comprehensive planning and executing of complex dental restorations and expanding knowledge on implant restoration processes.

CREDITS

3.0

YEAR OF STUDY

2nd Year Post-secondary

PREREQUISITES

DENT 1210 Biosciences 2 DENT 1240 Removable Prosthetics 1 DENT 1250 Fixed Prosthetics 1 DENT 1260 Orthodontics 1 DENT 1270 Dental Laboratory Patient Care 2 DENT 1280 Digital Technology 2

COREQUISITES

None

COURSE LEARNING OUTCOMES

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

- Demonstrate processes required for planning and executing complex dental restorations.
- Design various appliances used for planning dental restorations.
- Design and manufacture cases that have teeth side by side up to 2 units and a 3 unit posterior bridge.
- Demonstrate awareness of implant borne digital removable prosthesis designs.
- Practice in accordance with applicable legislation, regulations, standards, and guidelines.
- Make decisions based on sound reasoning and evidence-based practice when using digital applications to create and design multi-unit fixed prosthetics cases, removable partial dentures (RPD) and complete dentures.

PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

HOURS

Lab: 90

INSTRUCTIONAL STRATEGIES

Demonstrations, research, case scenarios, discussions and reflection.

GRADING SYSTEM

Letter Grade (A-F)

PASSING GRADE

C+ (64%) and (S) Satisfactory Grade on all Lab Work

EVALUATION PLAN

Type	Percentage	Assessment activity
Midterm Exam	30	Assessment 2 \nDesign screw retained Bridge and prepare a file for 3D printing
Final Exam	30	Assessment 4 \nDesign cement retained Bridge and prepare a file for 3D printing.
Assignments	40	Assessment 1\nSmile design \n\nAssessment 3\nDesign custom impression tray for implant case.
Lab Work	Satisfactory (S)	Practical Lab Assignments

COURSE TOPICS

- Planning for crown and bridge restorations
- Planning for implant restorations
- Surgical guides for implant placement
- Preparation guides and Verification jigs
- Implant restoration options
- Design screw/cement retained implant bridges
- Carrying over designs from planning stage to final restorations
- Custom impression trays
- Implant overdentures
- Communication with Dentists and Patients

LEARNING RESOURCES

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

Notes:

- Course contents and descriptions, offerings and schedules are subject to change without notice.
- Students are required to follow all College policies including ones that govern their educational experience at VCC. Policies are available on the VCC website at:
<https://www.vcc.ca/about/governance--policies/policies/>.
- To find out how this course transfers, visit the BC Transfer Guide at <https://www.bctransferguide.ca>.

Broadway campus

1155 East Broadway
Vancouver, B.C. Canada
V5T 4V5

Downtown campus

250 West Pender Street
Vancouver, B.C. Canada
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Annacis Island campus

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