



## Microbiology and Infection Control – DENT 130

### Certified Dental Assisting Program

### Course Outline

COURSE IMPLEMENTATION DATE: Pre 1998  
OUTLINE EFFECTIVE DATE: September 2023  
COURSE OUTLINE REVIEW DATE: April 2028

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#### GENERAL COURSE DESCRIPTION:

This course covers the detailed procedures that students and dental assistants must carry out for the aseptic treatment of instruments and equipment. This course also covers basic terminology as well as descriptions of microorganisms and their modes of transmission. Students learn how to destroy microorganisms and help prevent potential disease. Students learn detailed sterilization techniques for instruments and dental equipment before, during and after treatment.

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**Program Information:** This course is required for successful completion of the Certified Dental Assisting program.

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**Delivery:** This course is delivered face to face.

**COTR Credits:** 2

**Hours for this course:** 18

#### Typical Structure of Instructional Hours:

Instructional Activity	Duration
Lecture Hours	18
Seminars / Tutorials	
Laboratory / Clinical Hours	28*
Practicum / Field Experience Hours	
Other Contact Hours	
<b>Total</b>	46
*Refer to DENT 154 Course Outline	

#### Practicum Hours (if applicable):

Type of Practicum	Duration
On-the-job Experience	N/A
Formal Work Experience	N/A
Other	N/A
<b>Total</b>	

**Course Outline Author or Contact:**

Marla Jones, BA, CDA, PID  
CDA Program Coordinator

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Signature

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**APPROVAL SIGNATURES:**

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Department Head Signature

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Dean Signature

EDCO

Valid from: September 2023 – April 2028

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Education Council Approval Date

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**COURSE PREREQUISITES AND TRANSFER CREDIT:**

**Prerequisites:** None

**Corequisites:** None

**Flexible Assessment (FA):**

Credit can be awarded for this course through FA

Yes  No

**Transfer Credit:** For transfer information within British Columbia, Alberta and other institutions, please visit <http://www.cotr.bc.ca/Transfer>.

Students should also contact an academic advisor at the institution where they want transfer credit.

**Prior Course Number:** N/A

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## Textbooks and Required Resources:

Textbook selection varies by instructor and may change from year to year. At the Course Outline Effective Date the following textbooks were in use:

Elsevier Saunders (Bird and Robinson, *Modern Dental Assisting*, 13<sup>th</sup> Edition,  
ISBN ISBN 978-0-323-62485-5

Elsevier Saunders (Boyd), *Dental Instruments: A Pocket Guide*, 7<sup>th</sup> Edition,  
ISBN 978-0-323-62743-6

DENT 130 Module

Please see the instructor's syllabus or check COTR's online text calculator  
<https://textbook.cotr.bc.ca/> for a complete list of the currently required textbooks.

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## LEARNING OUTCOMES:

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

- explain common terminology associated with microbiology;
- explain how pathological microorganisms are spread and how to prevent this contamination;
- carry out methods of microbiological control necessary in the dental office to protect the patient, as well as the dental team and their families; and
- maintain aseptic techniques before, during and after dental treatment.

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## COURSE TOPICS:

- Oral Microbiology
- Microbiological Control
- Asepsis

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## EVALUATION AND ASSESSMENT:

Assignments	% Of Total Grade
Quizzes, Worksheets and Assignments	20%
Case Study	20%
Research Project	30%
Final Exam – Units 1, 2 and 3	30%
Total	100%

Please see the CDA Program Student Handbook for specific policies related to this course.

**CLINICAL:**

Elements of DENT 130, particularly course learning outcomes #3 and #4, correspond to DENT 154 practical objectives:

- Control Infection by Disinfection
  - Control Infection by Sterilization
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**EXAM POLICY:**

Students must attend all required scheduled exams that make up a final grade at the appointed time and place.

Individual instructors may accommodate for illness or personal crisis. Additional accommodation will not be made unless a written request is sent to and approved by the appropriate Department Head prior to the scheduled exam.

Any student who misses a scheduled exam without approval will be given a grade of “0” for the exam.

Note: The program’s rewrite policy is described in detail in the CDA Program Student Handbook.

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**COURSE GRADE:**

Course grades are assigned as follows:

Grade	A+	A	A-	B+	B	B-	F
Mark (Percent)	≥ 95	94-90	89-85	84-80	79-75	74-70	< 70

Students must achieve an overall grade of 70% to pass this course.

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**ACADEMIC POLICIES:**

See [www.cotr.bc.ca/policies](http://www.cotr.bc.ca/policies) for general college policies related to course activities, including grade appeals, cheating and plagiarism.

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**COURSE CHANGES:**

Information contained in course outlines is correct at the time of publication. Content of the courses is revised on an ongoing basis to ensure relevance to changing educational, employment, and marketing needs. The instructor will endeavour to provide notice of changes to students as soon as possible. The instructor reserves the right to add or delete material from courses.