



DENT-130 – Microbiology and Infection Control

Health and Human Services

Effective Term & Year: Fall 2026

Course Outline Review Date: 2031-04-01

Program Area: Health

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.

Program Information:

This course is required for successful completion of the Dental Assistant program.

Delivery Methods: On-campus (Face-to-Face)

Credit Type: College of the Rockies Credits

Credits: 2

Instructional Activity and Hours:

Activity	Hours
Classroom, Directed Studies or Online Instruction	18
Seminar/Tutorials	
Laboratory/Studio	28 *Refer to DENT 154 Course Outline
Practicum/Field Experience	

Co-op/Work Experience

Other

Total 46

Course Requisites:

None

Prior Learning and Recognition: No

Course Transfer Credit:

For information about receiving transfer credit for courses taken at either British Columbia or Alberta institutions, please see <https://www.bctransferguide.ca/> or <https://transferalberta.alberta.ca> . For more transfer credit information, please visit <https://www.cotr.bc.ca/Transfer>

All requests for course transfer credit from institutions in British Columbia or elsewhere should go to the College of the Rockies Enrolment Services office.

Textbook 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:

Robinson, D.S. (2024). *Modern dental assisting* (14th ed.). Elsevier.

Bartolomucci Boyd, L.R. (2024). *Dental instruments: A pocket guide* (8th ed.). Elsevier.

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.

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.

Course Topics:

- Oral Microbiology
- Microbiological Control
- Asepsis

Evaluation and Assessments**Assessment Type: On-Campus (face-to-face)**

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

Grade Scheme

A+	A	A-	B+	B	B-	C+	C	C-	D	F
>=95	94-90	89-85	84-80	79-75	74-70					<70

Pass requirements:

An overall average of B- (70%) or higher is required to pass this course.

Exam Attendance:

Students must attend all scheduled exams at the appointed time and place. Instructors may approve an alternate exam to accommodate an illness or personal crisis. Department heads will consider other written requests. Any student who misses a scheduled exam without prior approval will receive a "0" on the exam.

Academic Policies:

College of the Rockies policies related to courses can be found at <https://cotr.bc.ca/about-us/college-policies/> and include the following:

- Policy 2.1.4 Course Audit
 - Policy 2.4.1 Credential Framework
 - Policy 2.4.3 Students with Documented Disabilities
 - Policy 2.4.4 Student Rights, Responsibilities and Conduct
 - Policy 2.4.8 Academic Performance
 - Policy 2.4.9 Student Feedback and Concerns
 - Policy 2.4.11 Storage of Academic Works
 - Policy 2.5.3 Student Appeal
 - Policy 2.5.5 Prior Learning Assessment and Recognition (PLAR)
-

Course Changes:

The College of the Rockies updates course outlines regularly to meet changing educational, employment and marketing needs. The instructor will notify students in writing of any updates to this outline during the semester. The instructor reserves the right to revise, add or delete material while meeting the learning outcomes of this course outline.