



ORAL11005 *Dental Morphology and Microscopic* Anatomy

Term 2 - 2018

Profile information current as at 27/04/2024 12:32 pm

All details in this unit profile for ORAL11005 have been officially approved by CQUniversity and represent a learning partnership between the University and you (our student). The information will not be changed unless absolutely necessary and any change will be clearly indicated by an approved correction included in the profile.

General Information

Overview

This unit covers key topics which are foundations for preclinical and clinical study in the Oral Health Therapy Course. You will study morphology and development of teeth, basic occlusion and microscopic anatomy of oral structures including oral mucosa, alveolar processes, salivary glands and tissues of the periodontium. You will study distinct features and traits of teeth, in primary and permanent dentitions. This will enable you to identify and examine teeth, as well as develop an awareness of root morphology required for primary tooth extractions and periodontal treatment for the adult dentition. You will study the normal process of eruption and exfoliation and developmental stages to enable you to identify abnormalities in the eruption sequence. The study of dental morphology and occlusion will also provide you with an understanding of tooth shape and function which applies to the restoration of natural tooth form. Throughout this unit you will familiarise yourself with the appearance of oral structures in dental radiographs. The knowledge gained from this unit will support your study of dental caries, periodontal disease and oral mucosal diseases within ORAL11003 Oral Pathology and Diagnosis. You will be required to attend a compulsory residential school.

Details

Career Level: *Undergraduate*

Unit Level: *Level 1*

Credit Points: 6

Student Contribution Band: 9

Fraction of Full-Time Student Load: 0.125

Pre-requisites or Co-requisites

Condition: Students must be enrolled in CB29 Oral Health Course to enrol in this unit. Prerequisite: BIOH11005 Introductory Anatomy and Physiology Corequisite: ORAL11004 Oral Anatomy Anti requisite: Students should not be enrolled in ORAL11002 as this unit will replace ORAL11002, in part.

Important note: Students enrolled in a subsequent unit who failed their pre-requisite unit, should drop the subsequent unit before the census date or within 10 working days of Fail grade notification. Students who do not drop the unit in this timeframe cannot later drop the unit without academic and financial liability. See details in the [Assessment Policy and Procedure \(Higher Education Coursework\)](#).

Offerings For Term 2 - 2018

- Distance
- Rockhampton

Attendance Requirements

All on-campus students are expected to attend scheduled classes – in some units, these classes are identified as a mandatory (pass/fail) component and attendance is compulsory. International students, on a student visa, must maintain a full time study load and meet both attendance and academic progress requirements in each study period (satisfactory attendance for International students is defined as maintaining at least an 80% attendance record).

Residential Schools

This unit has a Compulsory Residential School for distance mode students and the details are:

Click here to see your [Residential School Timetable](#).

Website

[This unit has a website, within the Moodle system, which is available two weeks before the start of term. It is important that you visit your Moodle site throughout the term. Please visit Moodle for more information.](#)

Class and Assessment Overview

Recommended Student Time Commitment

Each 6-credit Undergraduate unit at CQUniversity requires an overall time commitment of an average of 12.5 hours of study per week, making a total of 150 hours for the unit.

Class Timetable

[Regional Campuses](#)

Bundaberg, Cairns, Emerald, Gladstone, Mackay, Rockhampton, Townsville

[Metropolitan Campuses](#)

Adelaide, Brisbane, Melbourne, Perth, Sydney

Assessment Overview

1. **In-class Test(s)**

Weighting: 20%

2. **Practical and Written Assessment**

Weighting: 30%

3. **Examination**

Weighting: 50%

Assessment Grading

This is a graded unit: your overall grade will be calculated from the marks or grades for each assessment task, based on the relative weightings shown in the table above. You must obtain an overall mark for the unit of at least 50%, or an overall grade of 'pass' in order to pass the unit. If any 'pass/fail' tasks are shown in the table above they must also be completed successfully ('pass' grade). You must also meet any minimum mark requirements specified for a particular assessment task, as detailed in the 'assessment task' section (note that in some instances, the minimum mark for a task may be greater than 50%). Consult the [University's Grades and Results Policy](#) for more details of interim results and final grades.

CQUniversity Policies

All University policies are available on the [CQUniversity Policy site](#).

You may wish to view these policies:

- Grades and Results Policy
- Assessment Policy and Procedure (Higher Education Coursework)
- Review of Grade Procedure
- Student Academic Integrity Policy and Procedure
- Monitoring Academic Progress (MAP) Policy and Procedure – Domestic Students
- Monitoring Academic Progress (MAP) Policy and Procedure – International Students
- Student Refund and Credit Balance Policy and Procedure
- Student Feedback – Compliments and Complaints Policy and Procedure
- Information and Communications Technology Acceptable Use Policy and Procedure

This list is not an exhaustive list of all University policies. The full list of University policies are available on the [CQUniversity Policy site](#).

Previous Student Feedback

Feedback, Recommendations and Responses

Every unit is reviewed for enhancement each year. At the most recent review, the following staff and student feedback items were identified and recommendations were made.

Feedback from Unit evaluations

Feedback

Students did not like the embryology topic but could understand why it was included.

Recommendation

The subject area of embryology is included in the companion units ORAL11004 and ORAL11005. These units currently overlap and more development is required to present the embryology according to its purpose in macroscopic anatomy, microscopic anatomy and dental morphology.

Feedback from Unit evaluations

Feedback

Students would like to see more models and visual tools used in the lectures instead of pictures and diagrams.

Recommendation

The use of models in lectures will be developed further.

Feedback from In class and unit evaluations

Feedback

Students enjoyed the hands-on tasks at residential school. The residential school helped the students to learn about tooth morphology.

Recommendation

The residential school will remain as part of the Unit.

Feedback from In class and student evaluations

Feedback

Lecture notes, available in word document form as well as PDF, helped the students to learn because they could complete tables and exercises and form their own study notes.

Recommendation

The lecture notes will continue to be available in PDF for printing and in word document form to be modified by the student.

Unit Learning Outcomes

On successful completion of this unit, you will be able to:

1. Describe the stages in tooth formation, and recognise the normal sequence of tooth eruption and exfoliation.
2. Identify and describe the morphology of teeth in the primary and permanent dentition.
3. Identify and describe normal occlusion, its development and function.
4. Describe the microscopic features of tissues and organs associated with the oral cavity.
5. Communicate information regarding oral health in oral and written forms.
6. Demonstrate appropriate interpersonal / team communication skills, professional attitudes and ethical behaviours as required by an Oral Health Therapist.

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All unit profiles in the Bachelor of Oral Health are made available to the Australian Dental Council for on-going accreditation purposes.

Assessment Tasks	Graduate Attributes									
	1	2	3	4	5	6	7	8	9	10
3 - Examination - 50%	•	•	•	•		•				

Textbooks and Resources

Textbooks

ORAL11005

Prescribed

Essentials of Oral Histology and Embryology A Clinical Approach.

Fifth Edition (2019)

Authors: Daniel J. Chiego, Jr.

Mosby, an Imprint of Elsevier Inc

St Louis , Missouri , USA

ISBN: 978-0-323-08256-3

Binding: Paperback

ORAL11005

Prescribed

Woelfel's Dental anatomy

Ninth Edition (2017)

Authors: Rickne C. Scheid and Gabriela Weiss

Wolters Kluwer Health / Lippincott Williams and Wilkins

Philadelphia , Pennsylvania , USA

ISBN: 9781496320223

Binding: Paperback

Additional Textbook Information

Woelfel's Dental Anatomy is the required textbook for ORAL11004 (a co-requisite unit for ORAL11005)

The fourth edition of Oral Histology and Embryology A Clinical Approach was the prescribed text in 2017. Both editions (4th and 5th) are suitable. Students will be guided to relevant chapters and pages in both editions.

[View textbooks at the CQUniversity Bookshop](#)

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)

Referencing Style

All submissions for this unit must use the referencing styles below:

- [American Psychological Association 6th Edition \(APA 6th edition\)](#)
- [Harvard \(author-date\)](#)

For further information, see the Assessment Tasks.

Teaching Contacts

Ceinwen Fay Unit Coordinator

c.m.fay@cqu.edu.au

Schedule

Week 1 - 09 Jul 2018

Module/Topic	Chapter	Events and Submissions/Topic
Dental Morphology: <ul style="list-style-type: none"> • Basic terminology to describe tooth morphology • Dental notation. 	Scheid and Weiss 9th Edition, Chapter 1.	Formative On-line Quiz.

Week 2 - 16 Jul 2018

Module/Topic	Chapter	Events and Submissions/Topic
Morphology of the Permanent teeth: <ul style="list-style-type: none"> • Permanent incisors • Permanent canines • Permanent premolars • Permanent molars. 	Scheid and Weiss 9th Edition, Chapter 2-5.	Formative On-line Quiz.

Week 3 - 23 Jul 2018

Module/Topic	Chapter	Events and Submissions/Topic
Morphology of teeth in the Primary Dentition: <ul style="list-style-type: none"> • Incisors • Canines • Molars. 	Scheid and Weiss 9th Edition, Chapter 6.	Formative On-line Quiz.

Week 4 - 30 Jul 2018

Module/Topic	Chapter	Events and Submissions/Topic
Periodontal anatomy for permanent teeth. Dental anomalies.	Scheid and Weiss 9th Edition, Chapters 7 and 11.	Formative On-line Quiz.

Week 5 - 06 Aug 2018

Module/Topic	Chapter	Events and Submissions/Topic
Functional Occlusion and Malocclusion.	Scheid and Weiss 9th Edition, Chapter 1, Section VIII and Chapter 9.	Formative On-line Quiz.

Vacation Week - 13 Aug 2018

Module/Topic	Chapter	Events and Submissions/Topic

Week 6 - 20 Aug 2018

Module/Topic	Chapter	Events and Submissions/Topic
Introduction to Embryology and Microscopic Anatomy Review the structure and function of Cells, Tissues, Organs and Organ systems.	Chiego 5th Edition, Chapters 1,2,3 and 4.	Formative On-line Quiz.

Week 7 - 27 Aug 2018

Module/Topic	Chapter	Events and Submissions/Topic
Development and eruption of teeth <ul style="list-style-type: none"> • Development and growth of the teeth • The process of tooth eruption and shedding • Sequence of eruption and exfoliation. 	Chiego 5th Edition, Chapters 5 and 6. Scheid and Weiss 9th Edition. Chapter 6 pages 185-192.	Formative On-line Quiz.

Week 8 - 03 Sep 2018

Module/Topic	Chapter	Events and Submissions/Topic

- Two-day Compulsory Residential School- Rockhampton campus:
- Teeth drawing
 - Teeth carving in wax
 - Creating a plaster model of a giant tooth in the prosthetic lab
 - Anatomy tutorials
 - Anatomy practical examination.

Scheid and Weiss (2017) 9th Edition. Chapter 13 Guidelines for Drawing, Sketching, and Carving teeth.

In-class test Due: Week 8 Wednesday (5 Sept 2018) 5:00 pm AEST

Week 9 - 10 Sep 2018

Module/Topic	Chapter	Events and Submissions/Topic
Microscopic Anatomy: <ul style="list-style-type: none"> • Alveolar process • Periodontium • Cementum. 	Chiego 5th Edition, Chapters 11 and 12.	Formative On-line Quiz.

Week 10 - 17 Sep 2018

Module/Topic	Chapter	Events and Submissions/Topic
Microscopic Anatomy: <ul style="list-style-type: none"> • Enamel • Dentine. 	Chiego 5th Edition, Chapters 7 and 8.	Formative On-line Quiz.

Week 11 - 24 Sep 2018

Module/Topic	Chapter	Events and Submissions/Topic
Microscopic Anatomy: <ul style="list-style-type: none"> • Pulp Tissue • Oral Mucosa • Salivary Glands. 	Chiego 5th Edition, Chapters 9 and 10.	Formative On-line Quiz. Practical and Written Assessment Due: Week 11 Friday (28 Sept 2018) 5:00 pm AEST

Week 12 - 01 Oct 2018

Module/Topic	Chapter	Events and Submissions/Topic
Revision week		

Review/Exam Week - 08 Oct 2018

Module/Topic	Chapter	Events and Submissions/Topic

Exam Week - 15 Oct 2018

Module/Topic	Chapter	Events and Submissions/Topic

Term Specific Information

ORAL11004 Oral Anatomy is a co-requisite unit for ORAL11005. The required textbook for ORAL11004 (Woelfel's Dental Anatomy by Richne C Scheid and Gabriela Weiss 9th Edition) will be used as a reference text for this unit.

Assessment Tasks

1 In-class test

Assessment Type

In-class Test(s)

Task Description

For this assessment you will be asked to complete one Objective Structured Clinical Examination. This test will take place during the compulsory residential school. There will be numbered stations with a range of anatomical models, teeth, radiographs and pictures. You will move from station to station at timed intervals and answer questions at each station. You will be required to identify teeth and morphological features. All questions have clinical applications for Oral Health Therapy practice and will assess learning material from weeks 1-5.

Assessment Due Date

Week 8 Wednesday (5 Sept 2018) 5:00 pm AEST

Return Date to Students

Week 10 Monday (17 Sept 2018)

The assessment will be conducted during the compulsory residential school on Wednesday 5th September. Feedback will be given directly after the assessments.

Weighting

20%

Minimum mark or grade

50%

Assessment Criteria

Questions will assess learning material from weeks 1-5. The majority of the questions in the exam will be based on what you must know in tooth morphology. A smaller number of questions will be challenging questions.

This examination will take place on the last day of the Residential School in the afternoon. Wednesday 5th September 2018.

The percentage of your final mark is 20%.

You must obtain a mark of at least 50% in order to pass this assessment. You must pass this assessment to pass this unit overall.

The assessment will be conducted under examination conditions and will be a closed book examination.

Referencing Style

- [American Psychological Association 6th Edition \(APA 6th edition\)](#)
- [Harvard \(author-date\)](#)

Submission

Offline

Learning Outcomes Assessed

- Describe the stages in tooth formation, and recognise the normal sequence of tooth eruption and exfoliation.
- Identify and describe the morphology of teeth in the primary and permanent dentition.
- Identify and describe normal occlusion, its development and function.
- Communicate information regarding oral health in oral and written forms.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Team Work
- Information Technology Competence
- Cross Cultural Competence
- Ethical practice

2 Practical and Written Assessment

Assessment Type

Practical and Written Assessment

Task Description

Written and practical tasks are outlined in the Workbook for this Unit.

The practical component will be completed at residential school in week 8. The written assignment will be completed after residential school.

The practical tasks include carving a wax tooth and tooth drawing, as well as exercises in tooth morphology and identification. You will follow directions outlined in the workbook and textbook to complete a wax carving and drawing of a tooth. You will work in small groups to identify natural teeth by type, class and FDI notation.

For the written assessment you will choose one topic between a number of questions relating to the study of dental science. The questions relate to the second half of the term (weeks 6-12). You will need to research the answers to your question. Part of your assignment will be to display a diagram which will help to explain and /or answer the question.

Assessment Due Date

Week 11 Friday (28 Sept 2018) 5:00 pm AEST

Practical activities must be completed at the compulsory residential school. Workbooks, tooth drawings and wax carvings will be collected 5.00 pm Wednesday 5th September 2018.

Return Date to Students

Week 12 Friday (5 Oct 2018)

Workbooks will be returned at the end of week 8. Feedback and results for the practical activities will be returned Monday Week 10. Feedback and results for the written activity will be returned Friday Week 12.

Weighting

30%

Minimum mark or grade

50%

Assessment Criteria

The combined total of the Practical and Written Assessment is 30% of your final grade. Practical activities are worth 15%. Written assessment is worth 15%.

You must pass the written assessment and practical activities in the workbook to pass this course. The pass mark for both assessments is 50%.

The practical tasks are due at the completion of residential school. The workbook, wax carving and tooth drawing should be submitted at the completion of residential school and will be returned at the end of Week 8. The marking criteria for wax carving and tooth drawing are outlined in the workbook.

The written assessment is due Friday 28th September in Week 11. The word limit for this assignment is 1500 words. Referencing is required (APA or Harvard).

Assessment tasks submitted after the due date where an extension was not requested or where sound reasons were not given by the student for a late request are deducted a penalty of five per cent or equivalent of the total available marks for the assessment for each calendar day (full or part) it is overdue.

Referencing Style

- [American Psychological Association 6th Edition \(APA 6th edition\)](#)
- [Harvard \(author-date\)](#)

Submission

Offline Online

Submission Instructions

The wax carving, tooth drawings and completed workbook will be collected at the completion of the compulsory residential school, 5.00 pm Wednesday 5th September. The written assessment must be uploaded on Moodle by 5.00pm Monday 24th September.

Learning Outcomes Assessed

- Describe the stages in tooth formation, and recognise the normal sequence of tooth eruption and exfoliation.
- Identify and describe the morphology of teeth in the primary and permanent dentition.
- Identify and describe normal occlusion, its development and function.
- Describe the microscopic features of tissues and organs associated with the oral cavity.
- Communicate information regarding oral health in oral and written forms.
- Demonstrate appropriate interpersonal / team communication skills, professional attitudes and ethical behaviours as required by an Oral Health Therapist.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Team Work
- Information Technology Competence
- Cross Cultural Competence
- Ethical practice

Examination

Outline

Complete an invigilated examination.

Date

During the examination period at a CQUniversity examination centre.

Weighting

50%

Length

180 minutes

Minimum mark or grade

50%

Exam Conditions

Closed Book.

Materials

Dictionary - non-electronic, concise, direct translation only (dictionary must not contain any notes or comments).

Academic Integrity Statement

As a CQUniversity student you are expected to act honestly in all aspects of your academic work.

Any assessable work undertaken or submitted for review or assessment must be your own work. Assessable work is any type of work you do to meet the assessment requirements in the unit, including draft work submitted for review and feedback and final work to be assessed.

When you use the ideas, words or data of others in your assessment, you must thoroughly and clearly acknowledge the source of this information by using the correct referencing style for your unit. Using others' work without proper acknowledgement may be considered a form of intellectual dishonesty.

Participating honestly, respectfully, responsibly, and fairly in your university study ensures the CQUniversity qualification you earn will be valued as a true indication of your individual academic achievement and will continue to receive the respect and recognition it deserves.

As a student, you are responsible for reading and following CQUniversity's policies, including the [Student Academic Integrity Policy and Procedure](#). This policy sets out CQUniversity's expectations of you to act with integrity, examples of academic integrity breaches to avoid, the processes used to address alleged breaches of academic integrity, and potential penalties.

What is a breach of academic integrity?

A breach of academic integrity includes but is not limited to plagiarism, self-plagiarism, collusion, cheating, contract cheating, and academic misconduct. The Student Academic Integrity Policy and Procedure defines what these terms mean and gives examples.

Why is academic integrity important?

A breach of academic integrity may result in one or more penalties, including suspension or even expulsion from the University. It can also have negative implications for student visas and future enrolment at CQUniversity or elsewhere. Students who engage in contract cheating also risk being blackmailed by contract cheating services.

Where can I get assistance?

For academic advice and guidance, the [Academic Learning Centre \(ALC\)](#) can support you in becoming confident in completing assessments with integrity and of high standard.

What can you do to act with integrity?



Be Honest

If your assessment task is done by someone else, it would be dishonest of you to claim it as your own



Seek Help

If you are not sure about how to cite or reference in essays, reports etc, then seek help from your lecturer, the library or the Academic Learning Centre (ALC)



Produce Original Work

Originality comes from your ability to read widely, think critically, and apply your gained knowledge to address a question or problem