



ORAL11005 *Dental Morphology and Microscopic* Anatomy

Term 2 - 2017

Profile information current as at 03/05/2024 05:17 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 - 2017

- 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](#).

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.

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes					
	1	2	3	4	5	6
1 - In-class Test(s) - 20%	•	•	•		•	
2 - Practical and Written Assessment - 30%	•	•	•	•	•	•
3 - Examination - 50%	•		•	•	•	

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes					
	1	2	3	4	5	6
1 - Communication	•	•	•	•	•	•
2 - Problem Solving	•	•	•	•		
3 - Critical Thinking	•	•	•	•		
4 - Information Literacy	•	•	•	•		
5 - Team Work					•	•

Graduate Attributes	Learning Outcomes					
	1	2	3	4	5	6
6 - Information Technology Competence	•	•	•	•		
7 - Cross Cultural Competence					•	•
8 - Ethical practice					•	•
9 - Social Innovation						
10 - Aboriginal and Torres Strait Islander Cultures						

Alignment of Assessment Tasks to Graduate Attributes

Assessment Tasks	Graduate Attributes									
	1	2	3	4	5	6	7	8	9	10
1 - In-class Test(s) - 20%	•	•	•	•	•	•	•	•		
2 - Practical and Written Assessment - 30%	•	•	•	•	•	•	•	•		
3 - Examination - 50%	•	•	•	•		•				

Textbooks and Resources

Textbooks

ORAL11005

Prescribed

Essentials of Oral Histology and Embryology A Clinical Approach.

Fourth Edition (2014)

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)

[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 - 10 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic
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Tooth Morphology:

- Basic terminology to describe tooth morphology
- Dental notation

Scheid and Weiss (2017)
Chapter 1.

Formative Online Quiz

Week 2 - 17 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic
<ul style="list-style-type: none"> • Morphology of the Permanent teeth: • Permanent incisors • Permanent canines • Permanent premolars • Permanent molars 	Scheid and Weiss (2017) Chapter 2-5.	Formative Online Quiz

Week 3 - 24 Jul 2017

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 (2017) Chapters 6.	Formative Online Quiz

Week 4 - 31 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic
Periodontal anatomy for permanent teeth Dental Anomalies	Scheid and Weiss (2017) Chapters 7 and 11.	Formative Online Quiz

Week 5 - 07 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic
Functional Occlusion and Malocclusion	Scheid and Weiss (2017) Chapter 9.	Formative Online Quiz

Vacation Week - 14 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic
		Formative Online Quiz

Week 6 - 21 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic
Introduction to Embryology and Microscopic Anatomy: <ul style="list-style-type: none"> • Review the structure and function of cells, tissues, organs and organ systems • Origin of human tissue • Development of the oral facial region • Development of the face and palate. 	Chiego (2014) Chapters 1,2,3 and 4.	Formative Online Quiz

Week 7 - 28 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic
Two-day Compulsory Residential School. Rockhampton campus: Tuesday 29th August - Wednesday 30th August <ul style="list-style-type: none"> • Anatomy practical examination OSCE • Teeth drawing • Teeth carving in wax • Anatomy tutorials 	Scheid and Weiss (2017) Chapter 13	Compulsory Residential School. Rockhampton campus: Tuesday 29th August - Wednesday 30th August In-class Test(s) Due: Week 7 Wednesday (30 Aug 2017) 5:00 pm AEST

Week 8 - 04 Sep 2017

Module/Topic	Chapter	Events and Submissions/Topic

Development and eruption of teeth:

- Development and growth of the teeth
- The process of tooth eruption and shedding
- Sequence of eruption and exfoliation

Chiego (2014)
Chapter 5 and 6.

Formative Online Quiz

Week 9 - 11 Sep 2017

Module/Topic	Chapter	Events and Submissions/Topic
Microscopic Anatomy: <ul style="list-style-type: none">• Enamel• Dentine	Chiego (2014) Chapters 7 and 8.	Formative Online Quiz

Week 10 - 18 Sep 2017

Module/Topic	Chapter	Events and Submissions/Topic
Microscopic Anatomy: <ul style="list-style-type: none">• Pulp Tissue• Cementum	Chiego (2014) Chapters 9 and 10.	Formative Online Quiz

Week 11 - 25 Sep 2017

Module/Topic	Chapter	Events and Submissions/Topic
Microscopic Anatomy: <ul style="list-style-type: none">• Alveolar process• Periodontium	Chiego (2014) Chapters 11 and 12.	Formative Online Quiz Practical and Written Assessment Due: Week 11 Monday (25 Sept 2017) 12:00 pm AEST

Week 12 - 02 Oct 2017

Module/Topic	Chapter	Events and Submissions/Topic
Microscopic Anatomy: <ul style="list-style-type: none">• Oral Mucosa• Salivary Glands	Chiego (2014) Chapters 14 and 15.	Formative Online Quiz

Review/Exam Week - 09 Oct 2017

Module/Topic	Chapter	Events and Submissions/Topic
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Exam Week - 16 Oct 2017

Module/Topic	Chapter	Events and Submissions/Topic
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Assessment Tasks

1 In-class Test(s)

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.

Assessment Due Date

Week 7 Wednesday (30 Aug 2017) 5:00 pm AEST

Return Date to Students

Week 7 Friday (1 Sept 2017)

Feedback will be given after students have completed the OSCE.

Weighting

20%

Minimum mark or grade

50%

Assessment Criteria

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.

The assessment will be conducted during the compulsory residential school on Wednesday 30th August. Feedback will be given directly after the assessments.

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 7. The written assignment will be completed after residential school.

The practical tasks involve exercises in tooth morphology and identification.

You will be required to complete tooth drawing and wax carving exercises using natural teeth and typodont teeth. You will also work in small groups to identify natural teeth by type, class and FDI notation.

The written component will be a series of short answer questions on topics covered in weeks 8-12. The questions are designed to encourage students to look further than the textbook and research the answers. All questions will have clinical applications.

Assessment Due Date

Week 11 Monday (25 Sept 2017) 12:00 pm AEST

The practical components are due at the completion of residential school. Students will submit their workbook for assessment at the completion of residential school. The written component of this assessment is due Monday 25th September in Week 11

Return Date to Students

Week 12 Friday (6 Oct 2017)

Weighting

30%

Minimum mark or grade

50%

Assessment Criteria

The combined total of the Practical and Written Assessment is 30% of your final grade. Tooth drawing component is worth 5%. Wax carving component is worth 5%. Short answer questions are worth 20%. Completion of the practical

activities in the workbook is a pass/fail assessment.

You must pass the short answer assignment and practical activities in the workbook to pass this course. The pass mark for the short answer assignment is 50%.

You need to complete the wax carving or tooth drawing in order to pass this course.

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 7.

The short answer questions are due Monday 25th 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

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

No calculators permitted

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