



# ORAL11002 Oral Anatomy and Physiology

## Term 2 - 2017

Profile information current as at 28/04/2024 07:42 pm

All details in this unit profile for ORAL11002 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

Students will be able to describe physiological concepts and embryology of the head and neck with relevance to the oral cavity and dentition. Students will also be able to describe and identify relevant anatomic and physiological features of the head and neck. Students will learn to describe the histology of tissues and organs of the oral cavity, and understand a healthy oral biological and biochemical environment and the importance of saliva. This unit is offered in conjunction with the ORAL11003 Oral Health Pathology and Diagnosis unit to provide students with a sound foundation in oral health theory in readiness for second year. Lastly, students will be able to communicate information regarding oral health in oral and written forms utilising appropriate interpersonal/team communication skills, professional attitudes and ethical behaviours.

#### 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

Prerequisite: BIOH11005 Introductory Anatomy and Physiology Condition: Students must be enrolled in CB29 Oral Health Course to enrol in this unit.

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: 30%

#### 2. **Practical and Written Assessment**

Weighting: 20%

#### 3. **Examination**

Weighting: 50%

#### 4. **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 Student evaluations

##### Feedback

Students enjoyed the residential school experience and practical activities. They felt the tutorial stations for anatomy supported their learning as they were able to speak to the lecturers and ask questions in person. Students would like more time studying the natural teeth specimens at residential school as they felt tooth anatomy was the hardest aspect to learn from written text and videos.

##### Recommendation

The residential school will remain in the units which will replace ORAL11002. I will continue to enlist the help of anatomy and physiology lecturers for the anatomy tutorial. More time will be devoted to studying morphology of the natural teeth specimens in ORAL11005 Dental Morphology and Microscopic Anatomy

#### Feedback from Student evaluations

##### Feedback

Students made good use of the weekly learning outcomes to advise them on what they need to learn and study for the final written exam. Some students felt there were too many learning outcomes and that the moodle list of outcomes and the lecture notes were sometimes inconsistent.

##### Recommendation

Weekly learning outcomes will be revised for the units which will replace ORAL11002. Weekly learning outcomes will be checked for consistency between moodle page and lecture notes.

#### Feedback from Student evaluations

##### Feedback

Students continued to report that they struggled with the amount of content in this course, although there were less concerns than previous years and more positive comments about how much they enjoyed learning in this course. Students would like more weeks to devote to dental morphology and microscopic anatomy.

##### Recommendation

The content in ORAL11002 will be delivered in two new units Oral 11004 Oral Anatomy and 11005 Dental Anatomy and Microscopic Anatomy. To allow for this change MEDI11004 has been removed from the ORAL Health Program.

## Unit Learning Outcomes

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

1. Describe physiological concepts and embryology of the head and neck with relevance to the oral cavity and the dentition.
2. Identify relevant anatomic and physiological features of the head and neck with particular relevance to the oral cavity.
3. Describe the histology of tissues and organs of the oral cavity.
4. Understand a healthy oral biological and biochemical environment and the importance of saliva.
5. Communicate information regarding oral health in oral and written forms.
6. Satisfy the requirements of an evolving dental practitioner utilising appropriate interpersonal / team communication skills, professional attitudes and ethical behaviours.

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 - Examination - 50%	•	•	•	•	•	•
2 - In-class Test(s) - 30%		•			•	•
3 - Practical and Written Assessment - 20%		•		•	•	•

## 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					•	•
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 - Examination - 50%		•	•	•		•				
2 - In-class Test(s) - 30%		•	•	•		•				
3 - Practical and Written Assessment - 20%	•				•		•	•		

## Textbooks and Resources

### Textbooks

ORAL11002

#### Prescribed

##### Woelfel's Dental Anatomy

Edition: 9th edn (2017)

Authors: Rickne C. Scheid DDS, MEd Gabriela Weiss

Wolters Kluwer Lippincott Williams and Wilkins

Philadelphia , PA , USA

ISBN: 9781496320223

Binding: Paperback

[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](mailto:c.m.fay@cqu.edu.au)

## Schedule

### Week 1 - 10 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic
Anatomy of the Head and Neck: <ul style="list-style-type: none"><li>• Introduction to head and neck anatomy</li><li>• Bones</li><li>• Muscles</li><li>• Temporomandibular joint</li></ul>	Scheid And Weiss (2017) Chapter 14. Refer to Moodle for additional resources.	Formative online quiz

### Week 2 - 17 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic
Anatomy of the Head and Neck: <ul style="list-style-type: none"><li>• Nerves</li><li>• Blood Vessels</li><li>• Lymphatics</li></ul>	Scheid And Weiss (2017) Chapter 14. Refer to Moodle for additional resources.	Formative online quiz

### Week 3 - 24 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic
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Anatomy of the Head and Neck: <ul style="list-style-type: none"> <li>Structures of the Oral Cavity</li> <li>Landmarks for Local Anaesthesia</li> </ul>	Scheid And Weiss (2017) Chapter 15. Refer to Moodle for additional resources.	Formative online quiz
<b>Week 4 - 31 Jul 2017</b>		
<b>Module/Topic</b>	<b>Chapter</b>	<b>Events and Submissions/Topic</b>
Anatomy of the Head and Neck: <ul style="list-style-type: none"> <li>Structures and features closely associated with dental examination and treatment including the eye, ear, salivary glands, maxillary sinus, pharynx, larynx and trachea</li> <li>Spread of Infection in the head and neck</li> </ul>	Scheid And Weiss (2017) Chapter 15. Refer to Moodle for additional resources.	Formative online quiz
<b>Week 5 - 07 Aug 2017</b>		
<b>Module/Topic</b>	<b>Chapter</b>	<b>Events and Submissions/Topic</b>
Tooth Morphology. <ol style="list-style-type: none"> <li>Basic terminology to describe tooth morphology</li> <li>Morphology of teeth in the Permanent dentition:               <ul style="list-style-type: none"> <li>permanent incisors</li> <li>permanent canines</li> <li>permanent premolars</li> <li>permanent molars</li> </ul> </li> </ol>	Scheid And Weiss (2017) Chapters 1-6 and 11. Refer to Moodle for additional resources.	Formative online quiz
<b>Vacation Week - 14 Aug 2017</b>		
<b>Module/Topic</b>	<b>Chapter</b>	<b>Events and Submissions/Topic</b>
<b>Week 6 - 21 Aug 2017</b>		
<b>Module/Topic</b>	<b>Chapter</b>	<b>Events and Submissions/Topic</b>
Morphology of teeth in the Deciduous/Primary Dentition Periodontal Anatomy for Permanent teeth. Dental anomalies	Scheid And Weiss (2017) Chapters 7-8. Refer to Moodle for additional resources.	Formative online quiz
<b>Week 7 - 28 Aug 2017</b>		
<b>Module/Topic</b>	<b>Chapter</b>	<b>Events and Submissions/Topic</b>
Residential School <ul style="list-style-type: none"> <li>Anatomy tutorials</li> <li>Anatomy practical examination OSCE</li> <li>Teeth drawing</li> <li>Teeth carving in wax</li> <li>Introduction to local anaesthesia landmarks and technique on LA simulator.</li> </ul>	Scheid And Weiss (2017) Chapters 13. Refer to Moodle for additional resources.	Compulsory Residential School. Rockhampton Campus: Sunday 27th August-Wednesday 30th August. In-class test and practical exercises.  <b>In-class Test(s)</b> Due: Week 7 Wednesday (30 Aug 2017) 5:00 pm AEST
<b>Week 8 - 04 Sep 2017</b>		
<b>Module/Topic</b>	<b>Chapter</b>	<b>Events and Submissions/Topic</b>
Functional Occlusion and Malocclusion: <ul style="list-style-type: none"> <li>The ideal occlusion</li> <li>Classifications and terminology to describe malocclusions</li> <li>The occlusion in function</li> </ul>	Scheid And Weiss (2017) Chapter 9. Refer to Moodle for additional resources.	Formative online quiz
<b>Week 9 - 11 Sep 2017</b>		
<b>Module/Topic</b>	<b>Chapter</b>	<b>Events and Submissions/Topic</b>

Introduction to Embryology and Microscopic Anatomy:

- Introduction to microscopic anatomy
- Introduction to embryology
- Development of the face and oral cavity
- Development and growth of the teeth

Melfi and Alley (2000)  
Chapters 1-3. Unit Resources Online (CRO)  
Refer to Moodle for additional resources.

Formative online quiz

#### Week 10 - 18 Sep 2017

Module/Topic	Chapter	Events and Submissions/Topic
Microscopic Anatomy: • Enamel • Dentine • Pulp Tissue • Cementum • Periodontal Ligament	Melfi and Alley (2000) Chapters 4-8. Unit Resources Online (CRO) Refer to Moodle for additional resources.	Formative online quiz

#### Week 11 - 25 Sep 2017

Module/Topic	Chapter	Events and Submissions/Topic
Microscopic Anatomy: • Alveolar process of the maxillary and mandibular bone • Oral Mucosa • Salivary Glands	Melfi and Alley (2000) Chapters 9-12 and 14. Unit Resources Online (CRO). Refer to Moodle for additional resources	Formative online quiz  <b>Practical and Written Assessment</b> Due: Week 11 Monday (25 Sept 2017) 12:00 pm AEST

#### Week 12 - 02 Oct 2017

Module/Topic	Chapter	Events and Submissions/Topic
Biological and Biochemical Environment of the Oral Cavity: • Saliva • Normal oral flora • Changes in enamel post-eruption	Melfi and Alley (2000) Chapter 13. Unit Resources Online (CRO). Refer to Moodle for additional resources.	Formative online quiz

#### Review/Exam Week - 09 Oct 2017

Module/Topic	Chapter	Events and Submissions/Topic
Review and Revision		

#### Exam Week - 16 Oct 2017

Module/Topic	Chapter	Events and Submissions/Topic
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## Term Specific Information

ORAL11002 will no longer be offered after term 2 2017. The replacement units are ORAL11004 and ORAL11005. The compulsory residential school for ORAL11002 will be combined with the residential schools for ORAL11004 and ORAL11005. Assessments completed at residential school are the same for ORAL11002 as the combined assessments for ORAL11004 and ORAL11005. The residential school will take place over four days, Sunday 27<sup>th</sup> August- Wednesday 30<sup>th</sup> August. Students enrolled in ORAL11002 may also be enrolled in the unit ORAL11003. The Residential school for ORAL11003 runs 31<sup>st</sup> August -2<sup>nd</sup> September.

## Assessment Tasks

### 1 In-class Test(s)

#### Assessment Type

In-class Test(s)

#### Task Description

For this assessment you will be asked to complete two Objective Structured Clinical Examinations. Each test has numbered stations with a range of anatomical models, radiographs and pictures. You will move from station to station at

timed intervals and answer questions at each station. These tests take place during the compulsory residential school. The first test will include identification of anatomical landmarks of the head and neck. The stations will include skulls, anatomical models, radiographs and photographs. The second test will include identification and morphology questions on teeth. Stations will include natural teeth, dental models, photographs and radiographs. All questions have clinical applications for Oral Health Therapy practice.

**Assessment Due Date**

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

Two OSCEs will be timetabled during the compulsory residential school in Rockhampton in week 7. The first test will be on the second day and the last test will be on the final day.

**Return Date to Students**

Week 7 Friday (1 Sept 2017)

Feedback will be available after students have completed each OSCE.

**Weighting**

30%

**Minimum mark or grade**

50%

**Assessment Criteria**

Your grade will be calculated as a combination of two equally graded OSCE tasks. The percentage of your final mark is 30%.

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 assessments will be conducted under examination conditions and will be closed book examinations.

The assessments will be conducted during the compulsory residential school on Monday 28th August and 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**

- Identify relevant anatomic and physiological features of the head and neck with particular relevance to the oral cavity.
- Communicate information regarding oral health in oral and written forms.
- Satisfy the requirements of an evolving dental practitioner utilising appropriate interpersonal / team communication skills, professional attitudes and ethical behaviours.

**Graduate Attributes**

- Problem Solving
- Critical Thinking
- Information Literacy
- Information Technology Competence

## 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 anatomy of the head and neck.

For the head and neck anatomy component you will be required to work in small groups and rotate through a number of tutorial stations. At each station you will be asked to answer questions in the workbook and complete a check list of anatomical features you have identified. The stations include identification of landmarks anatomical models and simulation of local anaesthesia on a manikin.

For the tooth morphology component you will be required to complete tooth drawing and wax carving exercises. 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 you 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**

20%

**Minimum mark or grade**

50%

**Assessment Criteria**

The combined total of the Practical and Written Assessment is 20% of your final grade. Tooth drawing component is worth 5%. Wax carving component is worth 5%. Short answer questions are worth 10%. 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 unit. 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 unit.

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**

- Identify relevant anatomic and physiological features of the head and neck with particular relevance to the oral cavity.
- Understand a healthy oral biological and biochemical environment and the importance of saliva.
- Communicate information regarding oral health in oral and written forms.
- Satisfy the requirements of an evolving dental practitioner utilising appropriate interpersonal / team communication skills, professional attitudes and ethical behaviours.

**Graduate Attributes**

- Communication
- Team Work
- 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