

Profile information current as at 30/04/2024 03:33 am

All details in this unit profile for CHEM11042 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 will provide you with the fundamental principles of chemistry that underpin the medical sciences and provide a strong foundation on which you can develop an understanding of biochemistry and molecular science. You will gain an appreciation of the nature of matter, classic atomic structure and how energy is involved in bond formation. These concepts will be developed to explain the forces between molecules that govern chemical interaction. You will be introduced to the chemistry of electrolytes, acids, bases and buffers. This study will be supported by simple calculations to assist you in relating to the pH scale. The study of organic chemistry and molecules central to the life sciences will enable you to develop an understanding of the biochemistry and molecular biology relevant to your specific discipline. The naming and classifying of chemical compounds will enable you to be conversant with accepted scientific terms. Tutorials and on-line activities will complement the theoretical knowledge gained in lectures and provide you with the basic mathematical and analytical tools required in the application of chemistry to your specific discipline.

Details

Career Level: Undergraduate

Unit Level: Level 1 Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

Pre-requisites or Co-requisites

There are no requisites for 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 <u>Assessment Policy and Procedure (Higher Education Coursework)</u>.

Offerings For Term 2 - 2019

• Online

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).

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. Online Quiz(zes)

Weighting: 30%

2. Written Assessment

Weighting: 20% 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 <u>University's Grades and Results Policy</u> 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 <u>CQUniversity Policy site</u>.

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 Have your Say

Feedback

Some students still do not believe that chemistry is relevant to their chosen field, this also impacted negatively on their engagement with the units learning materials.

Recommendation

Following significant consultation with staff form the appropriate disciplines, the unit was designed to present topics in a relevant, scenario based content.

Feedback from Have your Say

Feedback

A number of students expressed their concern at the amount of content covered in this unit.

Recommendation

CHEM11042 is a pre-requisite to a number of units and in order to prepare the students for these units it is necessary to cover a lot of chemistry fundamentals. Staff can sympathise that students (particularly those studying chemistry for the first time) may feel overwhelmed and struggle with the unit content. Consequently, a large amount of resources were made available to students and students were made aware of the support facilities available to them such as the ALC and so forth. The unit and its content have seen continued review since it's redesign in 2017. Consequently, the unit has been continuously updated, in fact, it should be noted that there was a reduction in the amount of content covered in CHEM11042 compared to previous offerings as certain topics were delivered in other units.

Feedback from Have your Say Email Moodle Forums

Feedback

Students raised some sound issues that occurred during live lectures.

Recommendation

Once academic staff were alerted to student concerns, academic staff took multiple measures to resolve the sound issues, including seeking out maintenance of an air con unit in the lecture theatre. Academic staff also contacted ITD teaching services to remedy the issue - theatre microphone check requests etc. Ultimately, unfortunately most issues were somewhat beyond the control of academic staff.

Feedback from Have your say Email

Feedback

The majority of students indicated that overall they enjoyed the course, the following aspects were highlighted 1. Delivery of content 2. Approachability of staff and their consistent reliable response to queries 3. Quality of face to face interaction with staff 4. Use of online assessment pieces

Recommendation

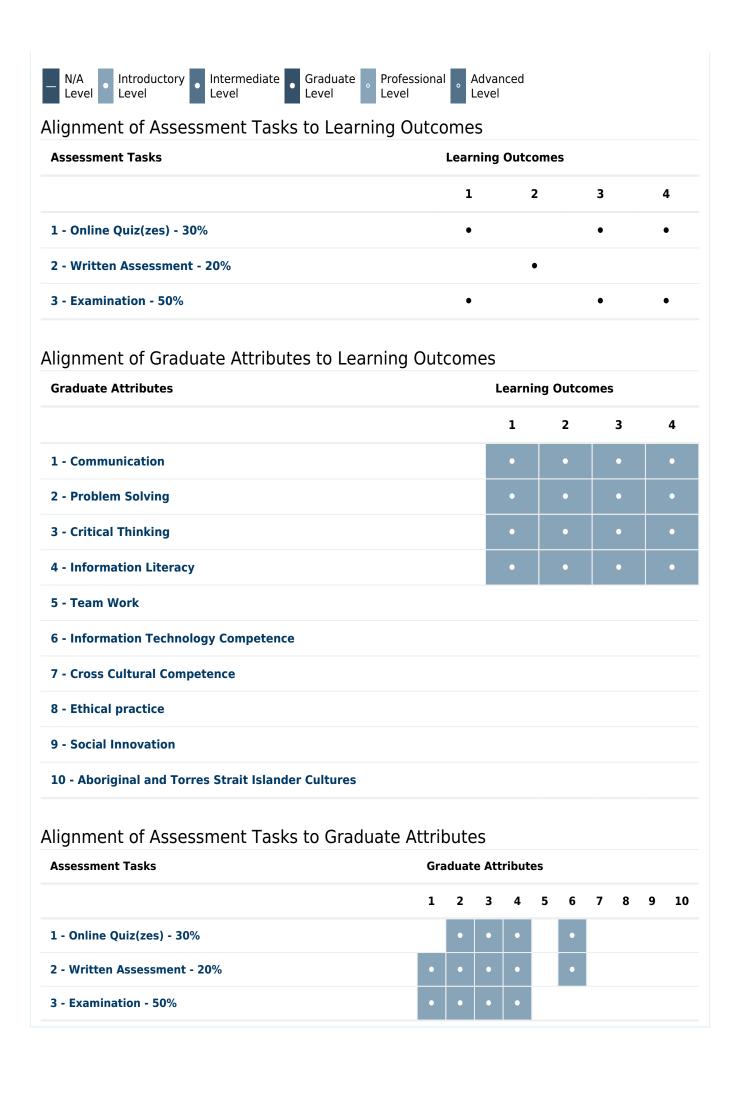
The chemistry team continue our efforts to provide students with the necessary resources to aid their understanding of the unit content and support their study.

Unit Learning Outcomes

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

- 1. Apply concepts of atomic structure to explain molecular bonding and nuclear reactivity.
- 2. Apply chemical concepts to healthcare situations.
- 3. Identify categories of organic compounds and their potential chemical interactions.
- 4. Perform basic chemical calculations.

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Textbooks and Resources

Textbooks

CHEM11042

Prescribed

General, Organic, & Biological Chemistry

Edition: 4th (2019)

Authors: Gorzynski Smith, Janice

McGraw Hill

New York , New York , USA ISBN: 978-1-260-08518-1 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 style: <u>Vancouver</u> For further information, see the Assessment Tasks.

Teaching Contacts

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Schedule

Week 1 - 15 Jul 2019

Module/Topic Chapter Events and Submissions/Topic

Chapter 1 Matter and Measurement Section Heading 1.1 Chemistry: The Science of Everyday Experience 12 States of Matter Classification of Matter Lecture 2: Atomic Structure, Isotopes and the Periodic Table Chapter 2 Atoms and the Periodic Table Section Heading 2.1 Elements 2.2 Structure of the Atom 2.3 Isotopes 2.4 The Periodic Table 2.5 Electronic Structure Periodic Trends 2.8 Lecture 3: Valence Electrons, Ion Formation and Bonding Types Introduction to Chemistry, Matter, Atoms and the Periodic Table Chapter 2 Atoms and Bonding Section Heading 2.7 Valence Electrons Chapter 3 Ionic compounds Section heading Introduction to Bonding 3.1 3.2 lons 3.3 Chapter 4 Covalent compounds Section heading Electronegativity and Bond Polarity

Lecture 1: Matter

Week 2 - 22 Jul 2019

Chapter Events and Submissions/Topic Module/Topic

Lecture 1: Molecules, Molecular Formula, Molar Mass and the Mole

Chapter 5 **Chemical reactions** Section Heading

The Mole and Avogadro's number

5.6A Molar Mass

5.5

5.6

Lecture 2: Mass-Mole Conversions (Review: Significant Figures and Scientific Notation)

Chapter 5 **Chemical reactions** Section Heading

Mass to Mole Conversions

Chapter 1 Matter and Measurement

Section Heading

Molecules, Moles and Lewis Dot Diagrams

Measurement 1.4 15 Significant Figures Scientific Notation

Lecture 3: Lewis Dot Structures and Polarity of Molecules

Chapter 4 **Covalent compounds**

Section Heading

4.1 Introduction to Covalent Bonding 4.2 Lewis Structures

4.4 Molecular Shape 4.6 4.8 Polarity of Molecules

FYI 4.9 FOCUS ON HEALTH AND MEDICINE Covalent Drugs and Medical Products

Week 3 - 29 Jul 2019

nical Solutions - Terms and Concentration

Mixtures
Solubility - General Features
Solubility - Effects of Temperature and Pressure
Concentration Units - Percent Concentration
Concentration Units - Molarity
and Dilutions, Unit conversions
Solutions
Section Heading

8.5 Concentration Units - Percent Concentration Concentration Units - Molarity Dilution lecular Forces and Colligative Properties

Gases liquids and Solids Chapter 7

Gases liquids and Solids
Section Heading
Intermolecular Forces, Boiling Point and Melting Point
Solutions
Section Heading
Colligative Properties

Week 4 - 05 Aug 2019

Module/Topic Chapter Events and Submissions/Topic

Assessment Item 1 - Online Quiz 1 Quiz close 11:55 pm (AEST) Sunday 4 August 2019

Chapter 5 **Chemical Reactions** Section Heading 5.1 Introduction to Chemical Reactions 5.2 Balancing Chemical Equations Lecture 2: Energy in Reactions, Catalysts and Enzymes Chapter 6 **Energy changes, Reaction Rates and Equilibrium** Section Heading Chemical Equations 1 6.1 Energy 6.2 **Energy Changes in Reactions** Energy Diagrams 6.3 Reaction Rates 6.4 Lecture 3: Chemical Reactions and Stoichiometry Chapter 5 **Chemical reactions** Section Heading 5.7 Mole Calculations in Chemical Equations 5.8 Mass Calculations in Chemical equations Week 5 - 12 Aug 2019 Module/Topic Events and Submissions/Topic Lecture 1: Yield Calculations, Limiting and Excess Reagents Chapter 5 **Chemical Reactions** Section Heading 5.9 Percent yield 5.10 Limiting Reactants Lecture 2: Chemical Equilibrium and Equilibrium Constants Assessment Item 2 - Written Chapter 6 **Energy changes, Reaction Rates and Equilibrium** Assessment
Due 11:55 pm (AEST) Sunday 18
August 2019 Chemical Equations 2 Section Heading Equilibrium 6.5 Lecture 3: Le Châtelier's Principle Chapter 6 Energy Changes, Reaction Rates and Equilibrium Section Heading Le Châtelier's Principle 6.7 FOCUS ON THE HUMAN BODY: Body Temperature Vacation Week - 19 Aug 2019 Module/Topic Chapter **Events and Submissions/Topic** Week 6 - 26 Aug 2019 Events and Submissions/Topic Lecture 1: Introduction to Acids and Bases Chapter 9 **Acids and Bases** Section Heading Introduction to Acids and Bases The Reaction of a Brønsted-Lowry Acid with a Brønsted-Lowry Base 9.2 9.3 Acid and Base Strength Equilibrium and Acid Dissociation Constants Assessment Item 1 - Online Quiz 2 Quiz close 11:55 pm (AEST) Sunday 1 9.5 The Dissociation of Water Introduction to Acids and Bases Lecture 2: The pH Scale and pH Calculations for Strong Acids and Bases September 2019 Chapter 6 **Acids and Bases** Section Heading 96 The pH Scale 9.7 Common Acid-Base Reactions The Acidity and Basicity of Salt Solutions 9.8 Lecture 3: The pH of weak acids and bases No readings from text Week 7 - 02 Sep 2019 Module/Topic Chapter Events and Submissions/Topic Lecture 1: Common Acid Base Reactions and Buffer Theory Chapter 9 **Acids and Bases** Section Heading 97 Common Acid-Base Reactions 98 The Acidity and Basicity of Salt Solutions 9.10A General Characteristics of a Buffer FYI 9.11 FOCUS ON THE HUMAN BODY: Buffers in the Blood Lecture 2: Calculating the pH of a Buffer Chapter 9 **Acids and Bases** Acids, Bases, Buffers and Gases Section heading 9.10B Calculating the pH of a Buffer Lecture 3: Gas Laws Gases, Liquids and Solids Chapter 7 Section Heading 72 Gases and Pressure 7.3 Gas Laws that Relate Pressure, Volume and Temperature 7.4 Avogadro's Law - How Volume and Moles are Related 7 5 The Ideal Gas Law Dalton's Law and Partial Pressure

Lecture 1: Chemical Equations

Wook 8 - 00 Can 2010)				
Week 8 - 09 Sep 2019 Module/Topic	Chapter		Events and Submissions/Topic		
Trouble, ropic		on to Organic Chemistry - Carbon and Functional Groups	20010 0110 010010, 10010		
	Chapter 11	Introduction to Organic Molecules and Functional Groups			
		Section Heading			
	11.1	Introduction to Organic Chemistry			
	11.2	Characteristic Features of Organic Compounds			
	11.3	Shapes of Organic Molecules			
	11.4	Drawing Organic Molecules			
	11.5 11.6	Functional Groups Properties of Organic Compounds			
	FYI 11.7	FOCUS ON HEALTH & MEDICINE: Vitamins			
		JPAC Nomenclature and Classification of Carbon Atoms			
	Chapter 12	Atoms and the Periodic Table			
		Section Heading			
	12.1	Introduction			
Introduction to Organic Chemistry	12.2C	Classifying Carbon Atoms			
- Carbon, Functional Groups and	12.3 12.4	An introduction to Nomenclature			
Alkanes		Alkane Nomenclature nes, Isomers, Chiral Compounds and Properties of Alkanes			
	Chapter 12 Alkanes				
		Section Heading			
	12.2	Simple Alkanes			
	12.5	Cycloalkanes			
	12.7	Physical properties			
	12.8 FYI 12.6	Combustion FOCUS ON THE ENVIRONMENT: Combustion			
	Chapter 15	The Three-Dimensional Shape of Molecules			
	· p · · ·	Section Heading			
	15.1	Isomers - A Review			
	15.2	Looking Glass Chemistry - Molecules and Their Mirror Images			
	15.3	Chiral Centres			
	FYI 15.5	FOCUS ON HEALTH & MEDICINE: Chiral Drugs			
Week 9 - 16 Sep 2019	•				
Module/Topic	Chapter		Events and Submissions/Topic		
	Lecture 1: Alkenes an	nd Alkynes			
	Chapter 13	Unsaturated Hydrocarbons			
		Section Heading			
	13.1	Alkenes and Alkynes			
	13.2 13.6	Nomenclature of Alkenes and Alkynes Reactions of Alkenes			
	FYI 13.4	Interesting Alkenes in Food and Medicine			
	FYI 13.5	FOCUS ON HEALTH & MEDICINE: Oral Contraceptives			
	FYI 13.7	Margarine or Butter			
Unsaturated Hydrocarbons and	Lecture 2: cis - trans		Assessment Item 1 - Online Quiz 3 Quiz close 11:55 pm (AEST) Sunday		
Aromatics	Chapter 13	Unsaturated Hydrocarbons	22 September 2019		
	13.3	Section Heading Cis - Trans Isomers			
	Lecture 3: Aromatic C				
	Chapter 13	Unsaturated Hydrocarbons			
		Section Heading			
	13.9	Aromatic Compounds			
	13.10	Nomenclature of Benzene derivatives			
	FYI 13.11	FOCUS ON HEALTH & MEDICINE: Aromatic Drugs, Sunscreens, and Carcinogens			
	FYI 13.12	FOCUS ON HEALTH & MEDICINE: Phenols as Antioxidants			
Week 10 - 23 Sep 201					
Module/Topic	Chapter		Events and Submissions/Topic		
	Lecture 1: Alcohols	Organic Compounds that Contain Oxygen, Halogen or SulfurSection			
	Chapter 14 14.1	headingIntroduction			
	14.2	Structure and properties of alcohols			
	14.3	Nomenclature of Alcohols			
	14.5	Reactions of Alcohols			
	FYI 14.4	Interesting Alcohols FOCUS ON HEALTH & MEDICINE: Ethanol, the Most Widely Abused Drug			
		FOCUS ON HEALTH & MEDICINE: Ethanol, the Most Widely Abused Drug			
	FYI 14.6				
Markete Thirtee 11	FYI 14.6 Lecture 2: Ethers, Alk	cyl Halides and Thiols			
Alcohols, Thiols and Amines	FYI 14.6 Lecture 2: Ethers, Alk Chapter 14	cyl Halides and Thiols Organic Compounds that Contain Oxygen, Halogen or Sulfur Section Heading Structure and Properties of Ethers			
Alcohols, Thiols and Amines	FYI 14.6 Lecture 2: Ethers, Alk Chapter 14 14.7 14.9	cyl Halides and Thiols Organic Compounds that Contain Oxygen, Halogen or Sulfur Section Heading Structure and Properties of Ethers Alkyl Halides			
Alcohols, Thiols and Amines	FYI 14.6 Lecture 2: Ethers, Alk Chapter 14 14.7 14.9 14.10	Cyl Halides and Thiols Organic Compounds that Contain Oxygen, Halogen or Sulfur Section Heading Structure and Properties of Ethers Alkyl Halides Organic Compounds that Contain Sulfur			
Alcohols, Thiols and Amines	FYI 14.6 Lecture 2: Ethers, Alk Chapter 14 14.7 14.9	cyl Halides and Thiols Organic Compounds that Contain Oxygen, Halogen or Sulfur Section Heading Structure and Properties of Ethers Alkyl Halides			
Alcohols, Thiols and Amines	FYI 14.6 Lecture 2: Ethers, Alk Chapter 14 14.7 14.9 14.10 FYI 14.8	Cyl Halides and Thiols Organic Compounds that Contain Oxygen, Halogen or Sulfur Section Heading Structure and Properties of Ethers Alkyl Halides Organic Compounds that Contain Sulfur			
Alcohols, Thiols and Amines	FYI 14.6 Lecture 2: Ethers, Alk Chapter 14 14.7 14.9 14.10 FYI 14.8 Lecture 3: Amines	Cyl Halides and Thiols Organic Compounds that Contain Oxygen, Halogen or Sulfur Section Heading Structure and Properties of Ethers Alkyl Halides Organic Compounds that Contain Sulfur FOCUS ON HEALTH & MEDICINE: Ethers as Anesthetics			
Alcohols, Thiols and Amines	FYI 14.6 Lecture 2: Ethers, Alk Chapter 14 14.7 14.9 14.10 FYI 14.8 Lecture 3: Amines Chapter 18	Cyl Halides and Thiols Organic Compounds that Contain Oxygen, Halogen or Sulfur Section Heading Structure and Properties of Ethers Alkyl Halides Organic Compounds that Contain Sulfur FOCUS ON HEALTH & MEDICINE: Ethers as Anesthetics Amines and Neurotransmitters Section Heading Structure and Bonding			
Alcohols, Thiols and Amines	FYI 14.6 Lecture 2: Ethers, Alk Chapter 14 14.7 14.9 14.10 FYI 14.8 Lecture 3: Amines Chapter 18 18.1 18.2	Cyl Halides and Thiols Organic Compounds that Contain Oxygen, Halogen or Sulfur Section Heading Structure and Properties of Ethers Alkyl Halides Organic Compounds that Contain Sulfur FOCUS ON HEALTH & MEDICINE: Ethers as Anesthetics Amines and Neurotransmitters Section Heading Structure and Bonding Nomenclature			
Alcohols, Thiols and Amines	FYI 14.6 Lecture 2: Ethers, Alk Chapter 14 14.7 14.9 14.10 FYI 14.8 Lecture 3: Amines Chapter 18	Cyl Halides and Thiols Organic Compounds that Contain Oxygen, Halogen or Sulfur Section Heading Structure and Properties of Ethers Alkyl Halides Organic Compounds that Contain Sulfur FOCUS ON HEALTH & MEDICINE: Ethers as Anesthetics Amines and Neurotransmitters Section Heading Structure and Bonding			

Week 11 - 30 Sep 2019						
Module/Topic	Chapter Events and Submissions/Topic					
	Lecture 1: Aldehydes an	d Ketones				
	Chapter 16	Aldehydes and Ketones				
		Section Heading				
	16.1	Structure and Bonding				
	16.2	Nomenclature				
	16.3	Physical Properties				
	FYI 16.4	FOCUS ON HEALTH & MEDICINE: Interesting Aldehydes and K	Cetones			
	Lecture 2: Carboxylic Ac	•				
	Chapter 17	Carboxylic Acids, Esters, and Amides				
		Section Heading				
	17.1	Structure and Bonding				
Carbonyl Groups and Chiral Compounds	17.2	Nomenclature				
	17.3	Physical Properties				
	17.4	Interesting Carboxylic Acids in Consumer Products and Medicines				
	17.5	Interesting Esters and Amides				
	FYI 17.7	FOCUS ON HEALTH & MEDICINE: Aspirin				
	Lecture 3: Nuclear Decay Chapter 10	y and Kadiation Safety Nuclear Chemistry				
	Chapter 10	Section Heading				
	10.1	Introduction				
	10.2	Nuclear Reactions				
	10.3	Half-life				
	10.4 B	FOCUS ON HEALTH & MEDICINE: The Effects of Radioactivity				
	10.5	FOCUS ON HEALTH & MEDICINE: Medical Uses of Radioisotopes	5			
Week 12 - 07 Oct 2019						
Module/Topic		Chapter	Events and Submissions/Topic			
			•			
			Assessment Item 1 - Online Quiz 4 Quiz close 11:55 pm (AEST) Sunday 13 October 2019			
Review/Exam Week - 14 Oct 2019						
Module/Topic		Chapter	Events and Submissions/Topic			
Exam Week - 21 Oct 2019						
Module/Topic		Chapter	Events and Submissions/Topic			

Assessment Tasks

1 Online Quizzes

Assessment Type

Online Quiz(zes)

Task Description

This assessment is comprised of 4 online quizzes which will assess your understanding of the topics presented in this unit. Completing these quizzes will give you an indication of your understanding of the concepts presented each week and encourage you to stay on track with your study. This assessment requires you to apply the concepts to answer a series of multiple choice questions. All questions in each quiz are of equal value.

- Quiz 1 will contribute 6 %,
- Quiz 2 will contribute 6 %,
- Quiz 3 will contribute 6 %, and
- Quiz 4 will contribute 12%,

The 4 online guizzes will contribute a total of 30% of the assessment for this unit.

The quizzes are not timed and you are allowed three attempts; the highest score of the three attempts will be recorded. Note that questions are generated randomly and you will receive different questions on subsequent attempts.

Number of Quizzes

4

Frequency of Quizzes

Other

Assessment Due Date

The guizzes will be due at 11:55 pm (AEST) on the Sunday at the end of Weeks 3, 6, 9 and 12.

Return Date to Students

Quiz results will be released after the completion of each attempt. Answers to the quiz questions will be released after the quiz has closed.

Weighting

30%

Assessment Criteria

All questions are of equal weighting. One mark will be awarded for each correct response. Incorrect responses will not incur a penalty.

Referencing Style

• Vancouver

Submission

Online

Submission Instructions

Complete each quiz by following the link on the Moodle site.

Learning Outcomes Assessed

- Apply concepts of atomic structure to explain molecular bonding and nuclear reactivity.
- Identify categories of organic compounds and their potential chemical interactions.
- Perform basic chemical calculations.

Graduate Attributes

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

2 Written Assessment

Assessment Type

Written Assessment

Task Description

This assessment is designed to assess your comprehension of the concepts presented in the unit through their application to a answer a series of questions. Marks will be awarded for each question as idicated in the assessment item (please see the Moodle site for further details). Explanations for each answer must be provided and if calculations are requires all workings must be provided.

Assessment Due Date

Due Sunday 18th August at 11:55 pm (AEST)

Return Date to Students

Week 8 Monday (9 Sept 2019) Results will be released via Moodle

Weighting

20%

Assessment Criteria

Marks will be awarded for each question as idicated in the assessment item (please see the Moodle site for further details). Marks will be awarded for each correct response. Incorrect responses will not incur a penalty.

Referencing Style

• Vancouver

Submission

Online

Submission Instructions

Your response to this assessment must be typed and should be made in electronic format, and be submitted through the assessment link in Moodle, by uploading your file following the on-screen instructions. You must submit the assessment by uploading a single word document (i.e. .doc or .docx), through the Moodle site. Mac users should ensure that the file

name has '.doc' or '.docx' for word files. This will ensure that you are able to upload into Moodle.

Learning Outcomes Assessed

• Apply chemical concepts to healthcare situations.

Graduate Attributes

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

Examination

Outline

Complete an invigilated examination.

Date

During the examination period at a CQUniversity examination centre.

Weighting

50%

Length

120 minutes

Minimum mark or grade

40

Exam Conditions

Closed Book.

Materials

Dictionary - non-electronic, concise, direct translation only (dictionary must not contain any notes or comments). Calculator - all non-communicable calculators, including scientific, programmable and graphics calculators are authorised

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 <u>Academic Learning Centre (ALC)</u> 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