

Profile information current as at 15/05/2024 06:50 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

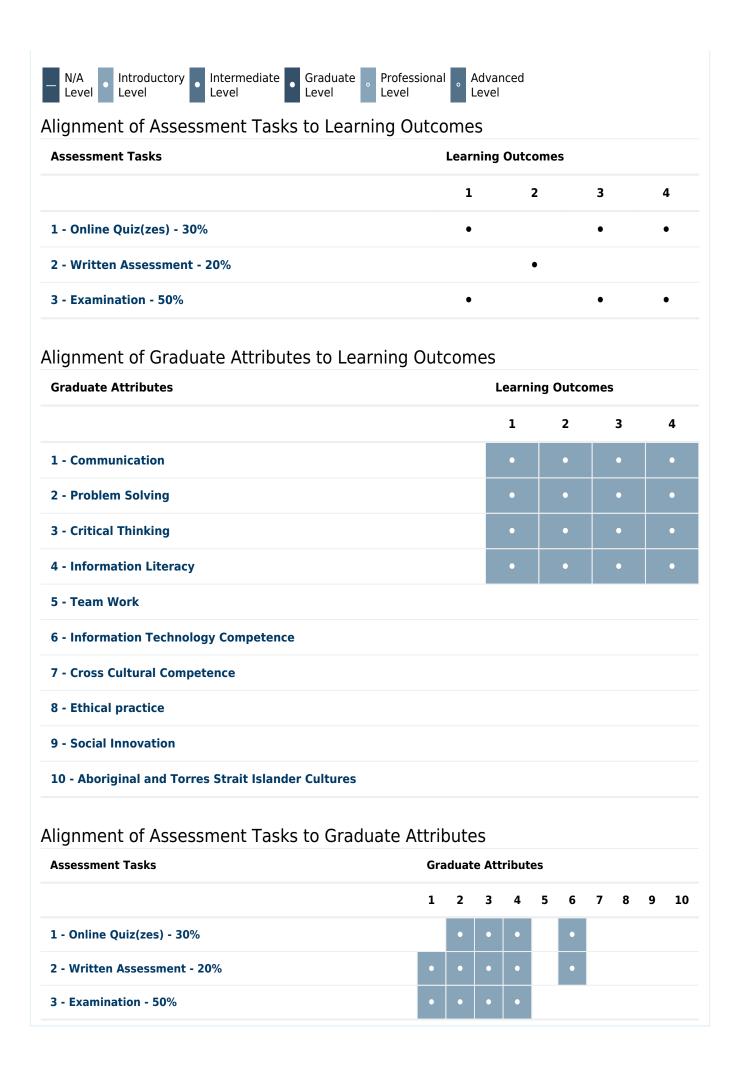
The chemistry team continue our efforts to provide students with the necessary resources to aid their understanding of the unit content and support their study.

# **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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Shaneel Chandra Unit Coordinator

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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

| Week 8 - 09 Sep 2019                      |   |   |   |
|---|---|---|---|
| Module/Topic                              | Chapter   |   | Events and Submissions/Topic  |
| Module, Topic                             |   | ion to Organic Chemistry - Carbon and Functional Groups   | Events and Submissions/Topic  |
|   | 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<br>11.6  | Functional Groups   |   |
|   | FYI 11.7  | Properties of Organic Compounds FOCUS ON HEALTH & MEDICINE: Vitamins  |   |
|   |   | UPAC 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  | An introduction to Nomenclature   |   |
| Alkanes                                   | 12.4  | Alkane Nomenclature   |   |
|   | Chapter 12  | nes, Isomers, Chiral Compounds and Properties of Alkanes Alkanes  |   |
|   | chapter 12  | Section Heading   |   |
|   | 12.2  | Simple Alkanes  |   |
|   | 12.5  | Cycloalkanes  |   |
|   | 12.7  | Physical properties   |   |
|   | 12.8  | Combustion  |   |
|   | FYI 12.6  | FOCUS ON THE ENVIRONMENT: Combustion  |   |
|   | Chapter 15  | The Three-Dimensional Shape of Molecules  |   |
|   | 15.1  | Section Heading   |   |
|   | 15.1  | Isomers - A Review  |   |
|   | 15.2<br>15.3  | Looking Glass Chemistry - Molecules and Their Mirror Images Chiral Centres  |   |
|   |   | Chiral Centres  |   |
|   | FYI 15.5  | FOCUS ON HEALTH & MEDICINE: Chiral Drugs  |   |
| Week 9 - 16 Sep 2019                      | )   |   |   |
| Module/Topic                              | Chapter   |   | <b>Events and Submissions/Topic</b>   |
|   | Lecture 1: Alkenes a  | nd Alkynes  |   |
|   | Chapter 13  | Unsaturated Hydrocarbons  |   |
|   | 12.1  | Section Heading   |   |
|   | 13.1<br>13.2  | Alkenes and Alkynes  Nomenclature of Alkenes and Alkynes  |   |
|   | 13.6  | Reactions of Alkenes  |   |
|   |   |   |   |
|   | F11 13.4  | Interesting Alkenes in Food and Medicine  |   |
|   | FYI 13.4<br>FYI 13.5  | Interesting Alkenes in Food and Medicine FOCUS ON HEALTH & MEDICINE: Oral Contraceptives  |   |
|   |   |   |   |
| Unsaturated Hydrocarbons and              | FYI 13.5<br>FYI 13.7<br>Lecture 2: cis - trans  | FOCUS ON HEALTH & MEDICINE: Oral Contraceptives  Margarine or Butter  is isomerism  | Assessment Item 1 - Online Quiz 3<br>Ouiz close 11:55 pm (AEST) Sunday                      |
| Unsaturated Hydrocarbons and<br>Aromatics | FYI 13.5<br>FYI 13.7  | FOCUS ON HEALTH & MEDICINE: Oral Contraceptives Margarine or Butter s isomerism Unsaturated Hydrocarbons  | Assessment Item 1 - Online Quiz 3<br>Quiz close 11:55 pm (AEST) Sunday<br>22 September 2019 |
|   | FYI 13.5<br>FYI 13.7<br>Lecture 2: cis - trans<br>Chapter 13  | FOCUS ON HEALTH & MEDICINE: Oral Contraceptives Margarine or Butter s isomerism Unsaturated Hydrocarbons Section Heading  | Quiz close 11:55 pm (AEST) Sunday   |
|   | FYI 13.5<br>FYI 13.7<br>Lecture 2: cis - trans  | FOCUS ON HEALTH & MEDICINE: Oral Contraceptives Margarine or Butter s isomerism Unsaturated Hydrocarbons Section Heading Cis - Trans Isomers  | Quiz close 11:55 pm (AEST) Sunday   |
|   | FYI 13.5<br>FYI 13.7<br>Lecture 2: cis - trans<br>Chapter 13  | FOCUS ON HEALTH & MEDICINE: Oral Contraceptives Margarine or Butter s isomerism Unsaturated Hydrocarbons Section Heading Cis - Trans Isomers  | Quiz close 11:55 pm (AEST) Sunday   |
|   | FYI 13.5<br>FYI 13.7<br>Lecture 2: cis - trans<br>Chapter 13<br>13.3<br>Lecture 3: Aromatic (<br>Chapter 13   | FOCUS ON HEALTH & MEDICINE: Oral Contraceptives Margarine or Butter s isomerism Unsaturated Hydrocarbons Section Heading Cis - Trans Isomers Compounds Unsaturated Hydrocarbons Section Heading Section Heading   | Quiz close 11:55 pm (AEST) Sunday   |
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|   | FYI 13.5<br>FYI 13.7<br>Lecture 2: cis - trans<br>Chapter 13<br>13.3<br>Lecture 3: Aromatic of<br>Chapter 13<br>13.9<br>13.10<br>FYI 13.11  | FOCUS ON HEALTH & MEDICINE: Oral Contraceptives Margarine or Butter s isomerism Unsaturated Hydrocarbons Section Heading Cis - Trans Isomers Compounds Unsaturated Hydrocarbons Section Heading Aromatic Compounds Nomenclature of Benzene derivatives FOCUS ON HEALTH & MEDICINE: Aromatic Drugs, Sunscreens, and Carcinogens  | Quiz close 11:55 pm (AEST) Sunday   |
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| Aromatics                                 | FYI 13.5<br>FYI 13.7<br>Lecture 2: cis - trans<br>Chapter 13<br>13.3<br>Lecture 3: Aromatic (<br>Chapter 13<br>13.9<br>13.10<br>FYI 13.11<br>FYI 13.12  | FOCUS ON HEALTH & MEDICINE: Oral Contraceptives Margarine or Butter s isomerism Unsaturated Hydrocarbons Section Heading Cis - Trans Isomers Compounds Unsaturated Hydrocarbons Section Heading Aromatic Compounds Nomenclature of Benzene derivatives FOCUS ON HEALTH & MEDICINE: Aromatic Drugs, Sunscreens, and Carcinogens  | Quiz close 11:55 pm (AEST) Sunday   |
| Aromatics  Week 10 - 23 Sep 201           | FYI 13.5<br>FYI 13.7<br>Lecture 2: cis - trans<br>Chapter 13<br>13.3<br>Lecture 3: Aromatic (<br>Chapter 13<br>13.9<br>13.10<br>FYI 13.11<br>FYI 13.12  | FOCUS ON HEALTH & MEDICINE: Oral Contraceptives Margarine or Butter s isomerism Unsaturated Hydrocarbons Section Heading Cis - Trans Isomers Compounds Unsaturated Hydrocarbons Section Heading Aromatic Compounds Nomenclature of Benzene derivatives FOCUS ON HEALTH & MEDICINE: Aromatic Drugs, Sunscreens, and Carcinogens  | Quiz close 11:55 pm (AEST) Sunday   |
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| Aromatics  Week 10 - 23 Sep 201           | FYI 13.5 FYI 13.7 Lecture 2: cis - trans Chapter 13  13.3 Lecture 3: Aromatic of Chapter 13  13.9 13.10 FYI 13.11 FYI 13.12  Lecture 3: Aromatic of Chapter 13  | FOCUS ON HEALTH & MEDICINE: Oral Contraceptives Margarine or Butter s isomerism Unsaturated Hydrocarbons Section Heading Cis - Trans Isomers Compounds Unsaturated Hydrocarbons Section Heading Aromatic Compounds Nomenclature of Benzene derivatives FOCUS ON HEALTH & MEDICINE: Aromatic Drugs, Sunscreens, and Carcinogens FOCUS ON HEALTH & MEDICINE: Phenols as Antioxidants  Organic Compounds that Contain Oxygen, Halogen or SulfurSection   | Quiz close 11:55 pm (AEST) Sunday<br>22 September 2019                                      |
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| Aromatics  Week 10 - 23 Sep 201           | FYI 13.5 FYI 13.7 Lecture 2: cis - trans Chapter 13  13.3 Lecture 3: Aromatic ( Chapter 13  13.9 13.10 FYI 13.11 FYI 13.12  Lecture 1: Alcohols Chapter 1414.1  14.2 14.3 14.5 FYI 14.4 FYI 14.6 Lecture 2: Ethers, All   | FOCUS ON HEALTH & MEDICINE: Oral Contraceptives Margarine or Butter s isomerism Unsaturated Hydrocarbons Section Heading Cis - Trans Isomers Compounds Unsaturated Hydrocarbons Section Heading Aromatic Compounds Nomenclature of Benzene derivatives FOCUS ON HEALTH & MEDICINE: Aromatic Drugs, Sunscreens, and Carcinogens FOCUS ON HEALTH & MEDICINE: Phenols as Antioxidants  Organic Compounds that Contain Oxygen, Halogen or SulfurSection headingIntroduction Structure and properties of alcohols Nomenclature of Alcohols Reactions of Alcohols Interesting Alcohols FOCUS ON HEALTH & MEDICINE: Ethanol, the Most Widely Abused Drug kyl Halides and Thiols  | Quiz close 11:55 pm (AEST) Sunday<br>22 September 2019                                      |
| Aromatics  Week 10 - 23 Sep 201           | FYI 13.5 FYI 13.7 Lecture 2: cis - trans Chapter 13  13.3 Lecture 3: Aromatic ( Chapter 13  13.9 13.10 FYI 13.11 FYI 13.12  L9 Chapter Lecture 1: Alcohols Chapter 1414.1  14.2 14.3 14.5 FYI 14.4 FYI 14.6   | FOCUS ON HEALTH & MEDICINE: Oral Contraceptives Margarine or Butter s isomerism Unsaturated Hydrocarbons Section Heading Cis - Trans Isomers Compounds Unsaturated Hydrocarbons Section Heading Aromatic Compounds Nomenclature of Benzene derivatives FOCUS ON HEALTH & MEDICINE: Aromatic Drugs, Sunscreens, and Carcinogens FOCUS ON HEALTH & MEDICINE: Phenols as Antioxidants  Organic Compounds that Contain Oxygen, Halogen or SulfurSection headingintroduction Structure and properties of alcohols Nomenclature of Alcohols Reactions of Alcohols Interesting Alcohols FOCUS ON HEALTH & MEDICINE: Ethanol, the Most Widely Abused Drug (kyl Halides and Thiols Organic Compounds that Contain Oxygen, Halogen or Sulfur  | Quiz close 11:55 pm (AEST) Sunday<br>22 September 2019                                      |
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| Week 10 - 23 Sep 201  Module/Topic        | FYI 13.5 FYI 13.7 Lecture 2: cis - trans Chapter 13  13.3 Lecture 3: Aromatic of Chapter 13  13.9 13.10 FYI 13.11 FYI 13.12  9 Chapter Lecture 1: Alcohols Chapter 1414.1  14.2 14.3 14.5 FYI 14.4 FYI 14.6 Lecture 2: Ethers, Allochapter 14  14.7 14.9  | FOCUS ON HEALTH & MEDICINE: Oral Contraceptives Margarine or Butter Sisomerism Unsaturated Hydrocarbons Section Heading Cis - Trans Isomers  Compounds Unsaturated Hydrocarbons Section Heading Aromatic Compounds Nomenclature of Benzene derivatives FOCUS ON HEALTH & MEDICINE: Aromatic Drugs, Sunscreens, and Carcinogens FOCUS ON HEALTH & MEDICINE: Phenols as Antioxidants  Organic Compounds that Contain Oxygen, Halogen or SulfurSection headingIntroduction Structure and properties of alcohols Nomenclature of Alcohols Interesting Alcohols Interesting Alcohols FOCUS ON HEALTH & MEDICINE: Ethanol, the Most Widely Abused Drug Ikyl Halides and Thiols Organic Compounds that Contain Oxygen, Halogen or Sulfur Section Heading Structure and Properties of Ethers Alkyl Halides  | Quiz close 11:55 pm (AEST) Sunday<br>22 September 2019                                      |
| Week 10 - 23 Sep 201  Module/Topic        | FYI 13.5 FYI 13.7 Lecture 2: cis - trans Chapter 13  13.3 Lecture 3: Aromatic of Chapter 13  13.9 13.10 FYI 13.11 FYI 13.12  Lecture 1: Alcohols Chapter 1414.1  14.2 14.3 14.5 FYI 14.4 FYI 14.6 Lecture 2: Ethers, All Chapter 14  14.7 14.9 14.10  | FOCUS ON HEALTH & MEDICINE: Oral Contraceptives Margarine or Butter Sisomerism Unsaturated Hydrocarbons Section Heading Cis - Trans Isomers Compounds Unsaturated Hydrocarbons Section Heading Aromatic Compounds Nomenclature of Benzene derivatives FOCUS ON HEALTH & MEDICINE: Aromatic Drugs, Sunscreens, and Carcinogens FOCUS ON HEALTH & MEDICINE: Phenols as Antioxidants  Organic Compounds that Contain Oxygen, Halogen or SulfurSection headingIntroduction Structure and properties of alcohols Nomenclature of Alcohols Interesting Alcohols FOCUS ON HEALTH & MEDICINE: Ethanol, the Most Widely Abused Drug (ky) 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  | Quiz close 11:55 pm (AEST) Sunday<br>22 September 2019                                      |
| Week 10 - 23 Sep 201  Module/Topic        | FYI 13.5 FYI 13.7 Lecture 2: cis - trans Chapter 13  13.3 Lecture 3: Aromatic of Chapter 13  13.9 13.10 FYI 13.11 FYI 13.12  9 Chapter Lecture 1: Alcohols Chapter 1414.1  14.2 14.3 14.5 FYI 14.4 FYI 14.6 Lecture 2: Ethers, Allochapter 14  14.7 14.9  | FOCUS ON HEALTH & MEDICINE: Oral Contraceptives Margarine or Butter Sisomerism Unsaturated Hydrocarbons Section Heading Cis - Trans Isomers  Compounds Unsaturated Hydrocarbons Section Heading Aromatic Compounds Nomenclature of Benzene derivatives FOCUS ON HEALTH & MEDICINE: Aromatic Drugs, Sunscreens, and Carcinogens FOCUS ON HEALTH & MEDICINE: Phenols as Antioxidants  Organic Compounds that Contain Oxygen, Halogen or SulfurSection headingIntroduction Structure and properties of alcohols Nomenclature of Alcohols Interesting Alcohols Interesting Alcohols FOCUS ON HEALTH & MEDICINE: Ethanol, the Most Widely Abused Drug Ikyl Halides and Thiols Organic Compounds that Contain Oxygen, Halogen or Sulfur Section Heading Structure and Properties of Ethers Alkyl Halides  | Quiz close 11:55 pm (AEST) Sunday<br>22 September 2019                                      |
| Week 10 - 23 Sep 201  Module/Topic        | FYI 13.5 FYI 13.7 Lecture 2: cis - trans Chapter 13  13.3 Lecture 3: Aromatic (Chapter 13)  13.9 13.10 FYI 13.11 FYI 13.12  L9 Chapter Lecture 1: Alcohols Chapter 1414.1  14.2 14.3 14.5 FYI 14.4 FYI 14.6 Lecture 2: Ethers, All Chapter 14  14.7 14.9 14.10 FYI 14.8   | FOCUS ON HEALTH & MEDICINE: Oral Contraceptives Margarine or Butter Sisomerism Unsaturated Hydrocarbons Section Heading Cis - Trans Isomers Compounds Unsaturated Hydrocarbons Section Heading Aromatic Compounds Nomenclature of Benzene derivatives FOCUS ON HEALTH & MEDICINE: Aromatic Drugs, Sunscreens, and Carcinogens FOCUS ON HEALTH & MEDICINE: Phenols as Antioxidants  Organic Compounds that Contain Oxygen, Halogen or SulfurSection headingIntroduction Structure and properties of alcohols Nomenclature of Alcohols Interesting Alcohols FOCUS ON HEALTH & MEDICINE: Ethanol, the Most Widely Abused Drug (ky) 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  | Quiz close 11:55 pm (AEST) Sunday<br>22 September 2019                                      |
| Week 10 - 23 Sep 201  Module/Topic        | FYI 13.5 FYI 13.7 Lecture 2: cis - trans Chapter 13  13.3 Lecture 3: Aromatic ( Chapter 13  13.9 13.10 FYI 13.11 FYI 13.12  L9 Chapter Lecture 1: Alcohols Chapter 1414.1  14.2 14.3 14.5 FYI 14.4 FYI 14.6 Lecture 2: Ethers, All Chapter 14  14.7 14.9 14.10 FYI 14.8 Lecture 3: Amines                               | FOCUS ON HEALTH & MEDICINE: Oral Contraceptives Margarine or Butter s isomerism Unsaturated Hydrocarbons Section Heading Cis - Trans Isomers Compounds Unsaturated Hydrocarbons Section Heading Aromatic Compounds Nomenclature of Benzene derivatives FOCUS ON HEALTH & MEDICINE: Aromatic Drugs, Sunscreens, and Carcinogens FOCUS ON HEALTH & MEDICINE: Phenols as Antioxidants  Organic Compounds that Contain Oxygen, Halogen or SulfurSection heading/introduction Structure and properties of alcohols Nomenclature of Alcohols Reactions of Alcohols Interesting Alcohols FOCUS ON HEALTH & MEDICINE: Ethanol, the Most Widely Abused Drug kyl 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   | Quiz close 11:55 pm (AEST) Sunday<br>22 September 2019                                      |
| Week 10 - 23 Sep 201  Module/Topic        | FYI 13.5 FYI 13.7 Lecture 2: cis - trans Chapter 13  13.3 Lecture 3: Aromatic of Chapter 13  13.9 13.10 FYI 13.11 FYI 13.12  Lecture 1: Alcohols Chapter 1414.1  14.2 14.3 14.5 FYI 14.4 FYI 14.6 Lecture 2: Ethers, All Chapter 14  14.7 14.9 14.10 FYI 14.8 Lecture 3: Amines Chapter 18                              | FOCUS ON HEALTH & MEDICINE: Oral Contraceptives Margarine or Butter s isomerism Unsaturated Hydrocarbons Section Heading Cis - Trans Isomers Compounds Unsaturated Hydrocarbons Section Heading Aromatic Compounds Nomenclature of Benzene derivatives FOCUS ON HEALTH & MEDICINE: Aromatic Drugs, Sunscreens, and Carcinogens FOCUS ON HEALTH & MEDICINE: Phenols as Antioxidants  Organic Compounds that Contain Oxygen, Halogen or SulfurSection headingIntroduction Structure and properties of alcohols Nomenclature of Alcohols Reactions of Alcohols Interesting Alcohols FOCUS ON HEALTH & MEDICINE: Ethanol, the Most Widely Abused Drug (kyl 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 Structure and Bonding | Quiz close 11:55 pm (AEST) Sunday<br>22 September 2019                                      |
| Week 10 - 23 Sep 201  Module/Topic        | FYI 13.5 FYI 13.7 Lecture 2: cis - trans Chapter 13  13.3 Lecture 3: Aromatic of Chapter 13  13.9 13.10 FYI 13.11 FYI 13.12  13.9 Chapter Lecture 1: Alcohols Chapter 1414.1  14.2 14.3 14.5 FYI 14.4 FYI 14.6 Lecture 2: Ethers, Allohols Chapter 14  14.7 14.9 14.10 FYI 14.8 Lecture 3: Amines Chapter 18  18.1 18.2 | FOCUS ON HEALTH & MEDICINE: Oral Contraceptives Margarine or Butter Sisomerism Unsaturated Hydrocarbons Section Heading Cis - Trans Isomers  Compounds Unsaturated Hydrocarbons Section Heading Aromatic Compounds Nomenclature of Benzene derivatives FOCUS ON HEALTH & MEDICINE: Aromatic Drugs, Sunscreens, and Carcinogens FOCUS ON HEALTH & MEDICINE: Phenols as Antioxidants  Organic Compounds that Contain Oxygen, Halogen or SulfurSection headingIntroduction Structure and properties of alcohols Nomenclature of Alcohols Interesting Alcohols Interesting Alcohols FOCUS ON HEALTH & MEDICINE: Ethanol, the Most Widely Abused Drug kyl 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            | Quiz close 11:55 pm (AEST) Sunday<br>22 September 2019                                      |
| Week 10 - 23 Sep 201  Module/Topic        | FYI 13.5 FYI 13.7 Lecture 2: cis - trans Chapter 13  13.3 Lecture 3: Aromatic of Chapter 13  13.9 13.10 FYI 13.11 FYI 13.12  Lecture 1: Alcohols Chapter 1414.1  14.2 14.3 14.5 FYI 14.4 FYI 14.6 Lecture 2: Ethers, All Chapter 14  14.7 14.9 14.10 FYI 14.8 Lecture 3: Amines Chapter 18                              | FOCUS ON HEALTH & MEDICINE: Oral Contraceptives Margarine or Butter s isomerism Unsaturated Hydrocarbons Section Heading Cis - Trans Isomers Compounds Unsaturated Hydrocarbons Section Heading Aromatic Compounds Nomenclature of Benzene derivatives FOCUS ON HEALTH & MEDICINE: Aromatic Drugs, Sunscreens, and Carcinogens FOCUS ON HEALTH & MEDICINE: Phenols as Antioxidants  Organic Compounds that Contain Oxygen, Halogen or SulfurSection headingIntroduction Structure and properties of alcohols Nomenclature of Alcohols Reactions of Alcohols Interesting Alcohols FOCUS ON HEALTH & MEDICINE: Ethanol, the Most Widely Abused Drug (kyl 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 Structure and Bonding | Quiz close 11:55 pm (AEST) Sunday<br>22 September 2019                                      |

| 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 Ketones   |   |  |  |  |
|                                      | 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<br>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<br>Quiz close 11:55 pm (AEST) Sunday 13<br>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