Course Title:	**Organic Chemistry**
Course Code:	**CHEM603**
Descriptor Start Date:	**01/03/2021**
Descriptor End Date:	**31/12/2026**
POINTS:	**15.00**
LEVEL:	**6**
PREREQUISITE/S:	**CHEM502**
COREQUISITE/S:	
RESTRICTION/S:	

LEARNING HOURS

Hours may include lectures, tutorials, online forums, laboratories. Refer to your timetable and course information in Canvas for detailed information.

Total learning hours: 150

PRESCRIPTOR

An introduction to the fundamentals of the chemistry of organic compounds: structure, bonding and reactions of the major functional groups; occurrence, uses and synthesis of organic compounds using selected examples of natural and synthetic materials.

LEARNING OUTCOMES

1. Describe the structure, selected physical properties and selected typical reactions of simple organic structures.
2. Predict the course of simple organic reactions.
3. Design one and two-step syntheses of simple organic compounds.
4. Describe some simple organic mechanisms.
5. Use spectroscopy to identify simple organic compounds.
6. Present work at the appropriate academic standard.
7. Describe safe practice.

CONTENT

• Bonding in organic compounds
• Structure, nomenclature and reactions of: Simple hydrocarbons, Alcohols and phenols and ethers, Organic halides, Amines and heterocyclics, Aldehydes and ketones, Carboxylic acids and esters
• Isomerism
• Introduction to spectroscopy

LEARNING & TEACHING STRATEGIES

This course will be offered as a combination of lectures and laboratories.

ASSESSMENT PLAN

Assessment Event	Learning Outcomes
Test 1 (50 mins)	LO1, LO2, LO4, LO5, LO6
Test 2 (50 mins)	LO1, LO2, LO3, LO4, LO6
Test 3 (50 mins)	LO1, LO2, LO3, LO4, LO5, LO6, LO7
Laboratory Reports (5 x 500 words)	LO1, LO2, LO3, LO6, LO7

Grade Map **MAP1**

A+ A A- Pass with Distinction
B+ B B- Pass with Merit
C+ C C- Pass
D Fail

Overall requirement/s to pass the course:

Students must achieve all learning outcomes in order to pass this course.

LEARNING RESOURCES

School of Science (n.d.). *CHEM603 Laboratory Manual* Auckland University of Technology

For further information, contact: Te Ara Hauora A Putaiao - Faculty of Health & Environmental Science

Principal Programme:	**HA1041, Bachelor of Science**
Related Programme/s:	**AK1041 Bachelor of Science** **AK3750 Diploma in Applied Science**