

SCGI 110 Chemistry in Everyday Life (Thu)

Semester 2 Academic Year 2023 – 2024

Class Schedule	Thursday at 13:30 – 16:30	
Instructors	Aj. Thanchanok Ratvijitvech	(thanchanok.rat@mahidol.edu)
	Aj. Anyarat Watthanaphanit	(anyarat.wat@mahidol.ac.th)

Aim of the Course

Students understand the basic chemical principles related to everyday phenomena and activities including air and water quality, atmospheric ozone layer, global warming, energy sources, alternative energy, drug, food, and materials. Students can apply chemical principle concepts gained from this course to solve uncomplicated problems. Students can communicate knowledge gained from this course and work as a team.

Grading Policy

Student evaluation is in accordance with the rules and regulations of the Faculty of Science, Mahidol University. Grade symbols of O, S, and U will be given according to the student's score.

Score consists of:

Before midterm	50%
After midterm	50%

Textbooks

1. Catherine H. Middlecamp, et al. **Chemistry in Context: Applying Chemistry to Society**, 7th edition, New York: McGraw-Hill, 2012.
2. Chang, R. **Chemistry**, 9th edition, New York: McGraw-Hill, 2007.

Timetable

Date	Topics	Instructor
11 Jan	Introduction to the course and basic chemistry revision	Aj. Thanchanok Ratvijitvech
18 Jan	Air pollution	
25 Jan	Water for life	
1 Feb	Acid-base	
8 Feb	Nutrition	
15 Feb	Polymers	
22 Feb	<i>Group Presentation</i>	
29 Feb	Revision	
<i>4-8 Mar</i>	<i>----- Midterm Exam -----</i>	
14 Mar	Ozone depletion	Aj. Anyarat Watthanaphanit
21 Mar	Global warming	
28 Mar	Energy from combustion	
4 Apr	Energy from electron transfer	
11 Apr	Genetic engineering and the molecules of life	
18 Apr	Drugs and medicines	
25 Apr	Revision	
<i>1 Apr - 10 May</i>	<i>----- Final Exam -----</i>	