

SCCH 151 General Chemistry I (3 credit)
Semester 1 Academic year 2025/2568

Date Wednesday 9.30-12.30

Room SC2-323

Group ENNM1/SCBE1

Google classroom: [SCCH151_1/2568](#) Class code: [cfw6cw4u](#)

Instructor: Tinnakorn Tiensing

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Assoc. Prof. Dr. Tienthong Thongpanchang

E-mail: tienthong.tho@mahidol.edu

Lesson Plan

No	Date	Topics	Teaching activities	Instructors
1	6 Aug 2025	Concept of Chemistry, Unit of Measurement, Naming chemical compounds	Lecture Discussion	Tinnakorn Tiensing
2	13 Aug 2025	Concept of Chemistry, Unit of Measurement, Naming chemical compounds	Lecture Discussion Exercise	Tinnakorn Tiensing
3	20 Aug 2025	No class		
4	27 Aug 2025	Stoichiometry	Lecture Discussion	Tinnakorn Tiensing
5	3 Sep 2025	Stoichiometry	Lecture Discussion/Quiz	Tinnakorn Tiensing
6	10 Sep 2025	Atomic and electronic structure of atom	Lecture Discussion	Tinnakorn Tiensing
7	17 Sep 2025	Chemical bonding	Lecture Discussion/Exercise	Tinnakorn Tiensing
8	24 Sep 2025	Chemical bonding	Lecture Discussion/Quiz	Tinnakorn Tiensing
9	29 Sep - 3 Oct 2025 MIDTERM Exam			
10	8 Oct 2025	Periodic table of representative and transition elements	Lecture Discussion/Exercise	Tinnakorn Tiensing
11	15 Oct 2025	Nuclear chemistry	Lecture Discussion/Quiz	Tinnakorn Tiensing
12	22 Oct 2025	No class		
13	29 Oct 2025	Environmental chemistry	Lecture Discussion/Quiz	Tinnakorn Tiensing
14	5 Nov 2025	Environmental chemistry	Lecture Discussion	Tinnakorn Tiensing
15	12 Nov 2025	Basic Organic Chemistry	Lecture Discussion/Exercise	Tienthong Thongpanchang
16	19 Nov 2025	Basic Organic Chemistry	Lecture Discussion/Exercise	Tienthong Thongpanchang
17	26 Nov 2027	Basic Organic Chemistry	Lecture Discussion/Quiz	Tienthong Thongpanchang
18	1 - 12 Dec 2025 Final Exam			

9 -10 Oct 2025 No Class Mahidol's Graduation ceremony

Score criteria	Score (%)
Quiz	15
Exercise/Home work/Attention	15
Midterm examination	35
Final examination	35

Score (%)	Symbols
80 – 100	A
70 – 79	B+
65 – 69	B
60 – 64	C+
55 – 59	C
50 – 54	D+
45 – 49	D
0 – 44	F

Reference;

- 1) Chang, R. Chemistry 9th, 10th, 11thed. (International ed.). USA: McGraw-Hill, Inc..
- 2) Olmsted, J. A. and Williams, G. W. *Chemistry*. 4th ed. USA: John Wiley & Sons, Inc.; 2005.
- 3) McMurry, J. and Fay, R.C. *Chemistry*. 4th ed. USA: Prentice Hall; 2004.
- 4) Oxtoby, D. W.; Gillis, H. P. and Campoin, A. *Principles of Modern Chemistry*. 7th ed. USA: Thomson Brooks; 2012.
- 5) Hill, J.W. and Petrucci, R.H. General Chemistry, An Integrated Approach. 3rd edition. USA: Prentice Hall; 2002.
- 6) Atkin, P.W. Atkin's Molecules. 2nd edition. UK: Cambridge University Press. 2003.
- 7) Middlecamp, C.H. et al. Chemistry in Context: Applying Chemistry to Society. 7th edition. USA: McGraw-Hill. 2012.
- 8) Text Book related CHEMISTRY.