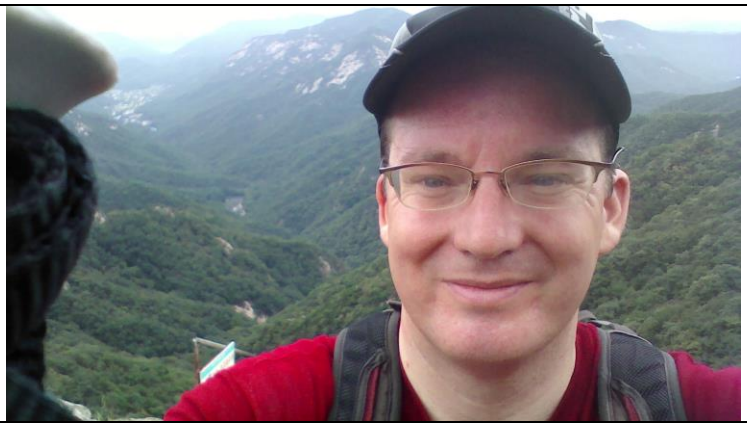
Syllabus and Schedule for College Chemistry (CH107)

※ Instructor: Prof. David G. Churchill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Work Experience	KAIST, 2004-present.

※ CH107 COLLEGE CHEMISTRY

Course Description (tentative)	College Chemistry is a basic subject for freshmen, enabling students to achieve a smooth transition to General Chemistry I (CH101). A textbook mainly based on fundamental ideas of chemistry will be used to cover most of the basic concepts required for General Chemistry at KAIST. The syllabus for Summer 2016 covers Chapters 2-13, and Chapter 14 (Part A). Additionally, 'Special Topics' relating to quantum theory and wave mechanics (not in textbook) are given at the end of the course. Chapter 1 (including prologue) is set as a reading exercise and will be tested in quiz 1 (but not in the examination). Students lacking mathematical background should read Appendix A and B. Quizzes will be of the multiple-choice type.

Textbook /References	L.J. Malone and T.O. Dolter, *Basic Chemistry*. J Wiley and Sons Inc. 9th Edition (International Student Version), 2012.		
Grading	**Final Exam**	**Quizzes (6)**	**Total**
	60	40 total	100
EXAMS	The final exam (Saturday, March 14) covers Ch. 2-14 (Part A), and Special Topics. It will consist of short conventional questions. Further details will be posted on the accompanying website in due course.		

※ Weekly Schedule (tentative)

Class (week beginning)	Content (Subject)
Week 0 (2016/7/1)	Ch. 2: Elements and Compounds. Ch. 3: Properties of Matter and Energy.
Week 1 (2016/7/4)	Ch. 4: The Periodic Table and Chemical Nomenclature.
	Ch. 5: Quantities in Chemistry. Ch. 6: Chemical Reactions. *Quiz 1 (Prologue/Ch. 1)*.
Week 2 (2014/7/11)	Ch. 7: Quantitative Relationships in Chemical Reactions. Ch. 8: Modern Atomic Theory. *Quiz 2 (Ch. 2-4)*.
	Ch. 8: Review of Chapters 2-8. *Quiz 3 (Ch. 5-7).*
Week 3 (2015/7/18)	Ch. 9: The Chemical Bond. Ch. 10: The Gaseous State.
	Ch.11 The Solid and Liquid States. Ch. 12: Aqueous Solutions. *Quiz 4 (Ch. 8-10).*

Week 4 (2015/7/25)	Ch. 13: Acids, Bases and Salts. Ch. 14: Oxidation-Reduction Reactions (Part A only). *Quiz 5 (Ch. 11-13).*
	Ch.14A 'Special Topics'
	'Special Topics'/ Review of Chapters 9-14A*. *Quiz 6 (Ch. 14 (Part A))*

※ Teaching Assistant (TA) Details

Name	Phone	Email
TBA	**TBA**	**TBA**