

國立臺灣師範大學開課課程大綱

學年學期	971
課程名稱	有機化學
英文名稱	Organic Chemistry
課程代碼	CMU0006
課程學分	4
任課老師	林文偉
年級班級	[2]/[1]
必／選修	必修
教學目標	<p>This course is intended for sophomore students who have completed the courses of general chemistry in their studies, and wish to have a well understanding in organic chemistry. The students are assumed to learn all general topics in organic chemistry. The students are also supposed to learn how to use the knowledge of organic chemistry to solve the given problems.</p>
教材內容	<p>This course will include: 1) structure and bonding; 2) polar covalent bonds: acids and bases; 3) organic compounds: alkanes and their stereochemistry; 4) organic compounds: cycloalkanes and their stereochemistry; 5) an overview of organic reactions; 6) alkenes: structure and reactivity; 7) alkenes: reactions and synthesis; 8) alkynes: an introduction to organic synthesis; 9) stereochemistry; 10) organohalides; 11) reactions of alkyl halides: nucleophilic substitutions and elimination; 12) structure determination: mass spectrometry and infrared spectroscopy; 13) structure determination: nuclear magnetic resonance spectroscopy; 14) conjugated compounds and ultraviolet spectroscopy.</p>
方法評量	七次期中小考(80%)。作業繳交、出席狀況和課堂討論的參與度(20%)。
參考資料	John McMurry, Organic Chemistry, Thomson Brooks/Cole, 7th edition, 2008.