

2020 Academic Year Department of Chemistry, Division of Chemistry and Biochemistry 109學年度化學學系化學與生物化學組入學新生課程地圖

一年級 First Year

二年級 Second Year

三年級 Third Year

四年級 Fourth Year

普通物理3
General Physics → 普物實驗1
General Physics Laboratory

微積分 3*2
Calculus

生物學導論 (選)3
Introduction to Biology

化學資訊與雲端 (選)3
Cheminformatics and The Cloud

普通化學 3*2
General Chemistry

化學的應用(選) 2
Applications of Chemistry

普通化學實驗 1*2
General Chemistry Laboratory

電腦在化學上的應用 (選) 3
Computer Applications In Chemistry

物理化學 4*2
Physical Chemistry

有機化學 4*2
Organic Chemistry

物理化學實驗 1*2
Physical Chemistry Laboratory

有機化學實驗 1*2
Organic Chemistry Laboratory

生物化學 3*2
Biochemistry

生物化學實驗 1
Biochemistry Laboratory

有機合成(選) 3
Organic Synthesis

有機光譜(選) 3
Organic Spectroscopy

儀器分析實驗 1*2
Instrumental Analysis Laboratory

無機化學 3*2
Inorganic Chemistry

生物學(選) 3
Biology

食品化學(選) 3
Food Chemistry

微生物學(選) 3
Microbiology

藥物化學(選) 3
Pharmacy Chemistry

分子生物學(選)3
Molecular Biology

群論在化學上的應用(選) 3
Chemical Application In Group Theory

生化感測器(選) 3
Biosensors

專題研究(選) 1*2
Undergraduate Chemistry Research

儀器分析 3*2
Instrumental Analysis

無機化學特論(選) 3
Special Topics in Inorganic Chemistry

生物化學特論(選) 3
Special Topics in Biochemistry

綜合應用化學(選) 2
Comprehensive Applied Chemistry

基因工程(選) 3
Genetic Engineering

免疫學(選) 3
immunology

量子化學(選) 3
Quantum Chemistry

書報討論 1
Seminar in Chemistry

物理化學特論(選) 3
Special Topics in Physical Chemistry

有機化學特論(選) 3
Special Topics in Organic Chemistry

有機反應機構(選) 3
Organic Reaction Mechanism

社區基礎科學服務教育 (選) 2
Community service-basic science education

專題研究(選) 1*2
Undergraduate Chemistry Research

分析化學特論(選) 3
Special Topics in Analytical Chemistry

生物、材料應用開發(選) 2
Applied Development In Biotechnology and Materials technology

生物、材料技術業務(選) 2
Biotechnology and Materials Technology Business

Required / Elective

Total Credits Required for Graduation : 128 Credits (2019/08 ~2020/07) , Total Chemistry Courses Required : 70 Credits (50 required + 20 elective)