

TIGP-CBMB

Approved Elective Course

(applies to students enrolled before the 115 academic year)

English Title	Chinese Title	Credit	Course No.
Advanced Organic Chemistry	高等有機化學	3	NTU: Chem8041 NTHU: TIGP745800
Basic Molecular Biology I (B1) / Basic Molecular Biology for Bioinformatics (I)	基礎分子生物學	3	NTU: TIGPBP8005 NTHU: TIGP730100
Biological Computing (C1)	生物計算學	3	NTU: TIGPBP8006 NTHU: TIGP730800
Cancer Biology and Therapy	癌症生物學與治療	2	NTU: BChem5070 NTHU: Please contact program office
Carbohydrate Chemistry	醣化學	2	NTU: BChem5062 NTHU: TIGP718500
Characterization and Data Reporting of Organic Compounds	有機化合物光譜分析及數據整合	2	NTU: BChem5061 NTHU: TIGP715800
Chemistry of Natural Products	天然物化學	1/2	NTU: BChem5068

			NTHU: TIGP716600
Computational Biology	電腦生物學	3	NTU: Chem5120 NTHU: LSBS565100
Computational Chemistry Related to Drug Design	電腦模擬運算之藥物設計	1	NTU: BChem5034 NTHU: TIGP717400
Core Approaches for Current Molecular Biology Research & Experimental Approaches in Molecular Cell Biology (the credits will be calculated if passed the above 2 courses)	分子與細胞生物學技術與原理	2	NTU: PTMP8013 NTHU: TIGP715900
Discussion in Advanced Chemical Biology (I)	高等化學生物學專論一	4	NTU: Chem8037 NTHU: TIGP719600
Discussion in Advanced Chemical Biology (II)	高等化學生物學專論二	3	NTU: Chem8036 NTHU: TIGP719500
Experimental Approaches in Molecular Medicine	分子醫學實驗法	2	NTU: PTMP8011 NTHU: TIGP719200
Experimental Molecular Biophysics	實驗分子生物物理學	3	NTU: BChem8021 NTHU: TIGP719400/ TIGP719700
Fundamental Statistical Methods in Bioinformatics	基礎生物資訊統計學	3	NTU: TIGPBP8007 NTHU: TIGP731100

Glycobiology	醣質生物學	2	NTU: Bchem7019 NTHU: TIGP719800
Introduction to Biological Physics	生物物理導論	2	NTU: Phys7067 NTHU: TIGP718600
Introduction to Neuroscience	基礎神經科學概論	3	NTU: TIPGIN8003 NTHU: TIGP717700
Introduction of Statistics and Machine Learning (I)	統計與機器學習概論一	3	NTHU: 11410BAI 500700
Molecular & Cellular Approaches to Biotechnologies	分子與細胞生物科技	2	NTU: Prog5255 NTHU: TIGP717800
Molecular and Cell Biology	分子與細胞生物學	4	NTU: 456D0150 NTHU: TIGP717600
Molecular Medicine	分子醫學	3	NTU: PTMP8008 NTHU: TIGP717900
New Drug Research and Development	新藥研發	2	NTU: Phmco7007 NTHU: TIGP719000
New Drug Research and Development: Translational Study and Research of Pharmacology	新藥研發－藥理研究與轉譯	2	NTU: Phmco8014 NTHU: TIGP719000

NMR Spectroscopy-based Metabolomics	核磁共振代謝體學導論	2	NTU: BChem5060 NTHU: TIGP710500
Pharmaceutical Chemistry	藥物化學	1/2	NTU: BChem5069 NTHU: TIGP717500
Phytochemistry and Herbal Medicine	植物化學與藥草醫學	2	NTU: BChem5071 NTHU: TIGP719400
Professional Developments for a Graduate Student	學術研究的專業素養與倫理養成	2	NTU: GenSys5019 NTHU: TIGP717000
Programming (Python) (P1) / Programming Languages	程式語言	2	NTU: TIGPBP8004 NTHU: TIGP731000
Special topics on nuclear magnetic resonance	核磁共振特論	1	NTU: BChem 5059 NTHU: TIGP710600
Translational Study and Research of Pharmacology	藥理研究與轉譯	2	NTU: Phmco7007 NTHU: TIGP719000