

博士班修習科目表

List of Course for PhD program

類別 Categories	科目 Course	學分 Credits
必修科目 Required Course	博士論文 Thesis	10
	書報討論 Seminar	4
必選科目 Required Elective Course	化學研究技術 Basic Chemical Techniques for Graduate Studies	6
選修科目 Elective Course	化學專論 Special Topics in Chemistry	3
	進階有機化學 Advanced Organic Chemistry	3
	有機反應機構 Organic Structure and Mechanism	3
	有機合成 Organic Synthesis	3
	有機金屬化學 Organic Metallic Chemistry	3
	有機材料化學 Organic Materials Chemistry	3
	超分子化學 Supramolecular Chemistry	2
	進階無機化學 Advanced Inorganic Chemistry	3

<p>選修科目</p> <p>Elective Course</p>	<p>配位化學</p> <p>Coordination Chemistry</p>	3
	<p>化學動力學</p> <p>Chemical Kinetics</p>	3
	<p>無機物理方法</p> <p>Physical Methods in Inorganic Chemistry</p>	3
	<p>進階物理化學</p> <p>Advanced Physical Chemistry</p>	3
	<p>電腦化學</p> <p>Computational Chemistry</p>	3
	<p>量子化學</p> <p>Quantum Chemistry</p>	3
	<p>表面化學</p> <p>Surface Chemistry</p>	3
	<p>分析電化學</p> <p>Analytical Electrochemistry</p>	3
	<p>進階分析化學</p> <p>Advanced Analytical Chemistry</p>	3
	<p>質譜學</p> <p>Mass Spectrometry</p>	3
	<p>化學分離</p> <p>Chemical Separation</p>	3
	<p>生醫質譜學</p> <p>Medical Applications of Mass Spectrometry</p>	3
	<p>進階生物化學</p> <p>Advanced Biochemistry</p>	3
	<p>生物高分子科技</p> <p>Biopolymer Science and Technology</p>	3

選修科目 Elective Course	生技製藥的研發與設計 Med. Chem. Strategies in Biotech Drugs R&D	3
	蛋白化學 Protein Chemistry	3
	醫藥化學 Medicinal Chemistry	3
	生物有機化學 Bioorganic Chemistry	3
	免疫化學 Immunochemistry	3
	太陽能電池及系統專題實作 Special Topics on Solar Cell and PV System	3
	生物巨分子光譜 Spectroscopy of Biopolymer	3
	科學論文寫作 Scientific Writing	3
	生物訊息傳遞 Biosignaling	1
	結構生物化學 Structural Biochemistry	2
	蛋白質折疊與疾病 Protein Folding and Diseases	1
	功能性胜肽之開發 Development of Functional Peptides	2
	必修學分數 Required Subtotal Credit	14
選修學分數 Elective Subtotal Credit	18	

畢業學分數 Total Credit	32
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1. 選修科目請參閱課表實際開課資料

1. For elective subjects, please refer to the actual curriculum.