亞洲大學生物資訊與醫學工程學系碩士在職專班課程規劃表

113學年度入學適用

Extended Master Program Curriculum Plan for Department of Bioinformatics and Medical Engineering, Asia University

(Applicable for Fall 2024 Enrollees)

畢業總學分：30 學分　　　　　　　　　　　　校課程委員會通過次別：1124

Credits of Graduation：30　　　Approved in the 1124 University Curriculum Committee meeting

類別 Category		科目名稱 Course Title	英文名稱 English Title	修課年級 Year of the Program	修課學期 Semester	學分數 Credits	每週上課時數 Hours per week			備註 Remarks
							講授 Lecture	實作(驗) Practice (laboratory)	實習 Intern	
(6) University Required Credit 校定必修 6 學分		碩士論文	Master Thesis	一 1st	下 2nd	3	0	0	0	
		碩士論文	Master Thesis	二 2nd	上 1st	3	0	0	0	
(3) Required Credits 必修 3 學分		專題討論(一)	Seminar (1)	一 1st	上 1st	1	1	0	0	
		專題討論(二)	Seminar (2)	一 1st	下 2nd	1	1	0	0	
		專題討論(三)	Seminar (3)	二 2nd	上 1st	1	1	0	0	
(21 Elective Credits) 選修 21 學分		科技論文寫作	Scientific English Writing	一、二 1st2nd	上下 1st 2nd	3	3	0	0	
		細胞生物學	Cell Biology	一、二 1st2nd	上下 1st 2nd	3	3	0	0	
		生物技術導論	Introduction to Biotechnology	一、二 1st2nd	上下 1st 2nd	3	3	0	0	
		臨床工程概論	Introduction to clinical engineering	一、二 1st2nd	上下 1st 2nd	3	3	0	0	
		人工智慧	Artificial Intelligence	一、二 1st2nd	上下 1st 2nd	3	3	0	0	
		網頁程式設計概論	Introduction to Webpage Programming	一、二 1st2nd	上下 1st 2nd	3	3	0	0	
		計算分子生物學	Computational Molecular Biology	一、二 1st2nd	上下 1st 2nd	3	3	0	0	
		生物資訊學特論	Special Topics in Bioinformatics	一、二 1st2nd	上下 1st 2nd	3	3	0	0	
		生物資訊程式設計	Bioinformatics Programming	一、二 1st2nd	上下 1st 2nd	3	3	0	0	
		應用統計學	Applied Statistics	一、二 1st2nd	上下 1st 2nd	3	3	0	0	
		生物醫學工程倫理	Medical Ethics	一、二 1st2nd	上下 1st 2nd	3	3	0	0	
	醫學工程領域	生物資訊與醫學工程概論	Introduction to Bioinformatics and Medical Engineering	一、二 1st2nd	上下 1st 2nd	3	3	0	0	
		生醫感測技術概論	Introduction to Biosensing Technology	一、二 1st2nd	上下 1st 2nd	3	3	0	0	

領域	課程名稱	Course Title	開課年級	開課學期					
	生醫材料概論	Introduction to Biomaterials	一、二 1st 2nd	上下 1st 2nd	3	3	0		0
	生醫影像處理	Biomedical Image Processing	一、二 1st 2nd	上下 1st 2nd	3	3	0		0
	醫療器材創新設計	Innovations and Design of Medical Devices	一、二 1st 2nd	上下 1st 2nd	3	3	0		0
	生醫材料專論	Special Topics in Biomaterials	一、二 1st 2nd	上下 1st 2nd	3	3	0		0
	材料分析	Characterization and Analysis of Materials	一、二 1st 2nd	上下 1st 2nd	3	3	0		0
	生醫產業概論	Perspectives on Biomedical Industry	一、二 1st 2nd	上下 1st 2nd	3	3	0		0
生物資訊領域	醫療資訊與巨量資料分析	Healthcare Informatics and Big Data Analysis	一、二 1st 2nd	上下 1st 2nd	3	3	0		0
	生物資訊學	Bioinformatics	一、二 1st 2nd	上下 1st 2nd	3	3	0	0	0
	資料探勘	Data Mining	一、二 1st 2nd	上下 1st 2nd	3	3	0	0	0
	生物資訊軟體應用	Application of Bioinformatics Software	一、二 1st 2nd	上下 1st 2nd	3	3	0		0
	分子生物學	Molecular Biology	一、二 1st 2nd	上下 1st 2nd	3	3	0		0
	體學	Omics	一、二 1st 2nd	上下 1st 2nd	3	3	0		0
	系統生物學	Systems Biology	一、二 1st 2nd	上下 1st 2nd	3	3	0		0
	生物資訊演算法	Bioinformatics Algorithms	一、二 1st 2nd	上下 1st 2nd	3	3	0		0
生技領域	生技產品通路策略	Channel Strategy for Biotech Products	一、二 1st 2nd	上下 1st 2nd	3	3	0		0
	醫療美容概論	Introduction to Aesthetic Medicine	一、二 1st 2nd	上下 1st 2nd	3	3	0		0
	生技企業品牌策略	Branding Strategy Biotech Company	一、二 1st 2nd	上下 1st 2nd	3	3	0		0
	產品官能品質鑑定	Function and Quality Evaluation of Products	一、二 1st 2nd	上下 1st 2nd	3	3	0		0

備註：

一、畢業學分數 30 學分，含校定必修 6 學分，所定必修 3 學分，所定選修 21 學分。

The graduation credit requirement is 30 credits, which includes 6 credits of university required courses, 3 credits of department required courses, and 21 credits of department elective courses.

二、碩士論文（6 學分）為校定必修學分，學生除須修畢系上規定之畢業學分外，尚須通過畢碩士論文或技術報告，始可畢業。

The master's thesis (6 credits) is a university required course. In addition to completing the required graduation credits set by the department, students must

pass their master's thesis or technical report in order to graduate.

三、學生需透過「臺灣學術倫理教育資源中心」線上平台修習指定課程 6 小時，並於課程總測驗成績達及格標準，始得申請學位考試。

Master or PHD graduate students are required to complete designated courses totaling 6 hours through the online platform of the Center for Taiwan Academic Research Ethics Education and achieve a passing grade on the final course examination before they can apply for the master or PHD graduate degree examination.

四、以上未盡事宜，得經由系主任召開系務會議討論後裁決之。

Any unresolved matters will be decided by a departmental meeting convened by the department chair.

系所主管簽章：   學院院長簽章：