

中臺科技大學大學部二年制日間部醫學檢驗生物技術系112學年度入學課程標準表

Central Taiwan University of Science and Technology Undergraduate 2-Year Daytime Department of Medical Laboratory Science and Biotechnology Program Curriculum Standards for the 112<sup>th</sup> Academic Year

1120208系課程委員會會議通過

1120309院課程委員會會議通過

1120315校課程委員會會議通過

學年 Academic Year	科目 Course	學分數 Credits	時數 Teaching hours	上學期 First Semester		下學期 Second Semester		備註 Remarks
				授課 Teaching	實習 Internship	授課 Teaching	實習 Internship	
				<b>基本素養(8學分) Basic Competencies (8 Credits)</b>				
第一學年 1 <sup>st</sup> Academic Year	當代思維與視野 Modern Thinking and Vision	2	2	2				
	人文學概論 Introduction to Humanities	2	2			2		
	進階英文(一) Advanced English (I)	2	2	2				
	進階英文(二) Advanced English (II)	2	2			2		
<b>專業必修(33學分) Professional Required Courses (33 Credits)</b>								
<b>核心基礎(6學分) Core Foundations (6 Credits)</b>								
第一學年 1 <sup>st</sup> Academic Year	生技專業論文導讀 Reading Skills for Biotechnology-related Literature	2	2	2				
	醫用生物化學 Medical Biochemistry	2	2	2				
	臨床檢驗品質管理 Clinical Laboratory Quality Management	2	2			2		
<b>核心專業(27學分) Core Professional Courses (27 Credits)</b>								
第一學年 1 <sup>st</sup> Academic Year	生物技術學含實驗 Biotechnology and Laboratory	3	4			2	2	
	睡眠醫學技術含實驗 Sleep Medicine and Technology and Laboratory	2	3	3				
	實驗室開發檢測 Laboratory Developed Tests	2	2	2				
	專題研究(一) Research in Special Topics I	3	3			3		
	生物資訊學概論 Introduction to Bioinformatics	2	2			2		電腦課程 Computer Course
	專題討論(一) Seminar I	1	2			2		
	分子病毒學 Molecular Virology	2	2			2		
	生物統計學 Biostatistics	2	2	2				
第二學年 2 <sup>nd</sup> Academic Year	專題研究(二) Research in Special Topics II	3	3	3				
	醫學實驗室認證與管理 Accreditation and Management in Medical Laboratory	2	2	2				
	生物製劑學 Biologics	2	2	2				
	專題討論(二) Seminar II	1	2	2				
	細胞生物學 Cell Biology	2	2	2				
<b>博學涵養(4學分) Liberal Education (4 Credits)</b>								
第一學年 1 <sup>st</sup> Academic Year	博學涵養 Liberal Education	2	2			2		
第二學年 2 <sup>nd</sup> Academic Year	博學涵養 Liberal Education	2	2	2				

學年 Academic Year	科目 Course	學分數 Credits	時數 Teaching hours	上學期 First Semester		下學期 Second Semester		備註 Remarks
				授課 Teaching	實習 Internship	授課 Teaching	實習 Internship	
<b>專業選修(39學分) Professional Electives Courses (39 Credits)</b>								
<b>醫學檢驗類 Medical Laboratory Science</b>								
第一學年 1 <sup>st</sup> Academic Year	臨床血液學與血庫學證照實務 License Practice of Clinical Hematology and Immunohematology	1	2			2		
	醫學分子檢驗學與臨床鏡檢學證照實務 License Practice of Molecular Medicine and Clinical Microscopy	1	2	2				
	臨床生理學與病理學證照實務 License Practice of Clinical Physiology and Clinical Pathology	1	2			2		
	生物化學與臨床生化學證照實務 License Practice of Biochemistry and Clinical Biochemistry	1	2	2				
	微生物學與臨床微生物學證照實務 License Practice of Microbiology and Clinical microbiology	1	2	2				
	臨床血清免疫學與臨床病毒學證照實務 License Practice of Clinical Seroimmunology and Clinical Virology	1	2			2		
第二學年 2 <sup>nd</sup> Academic Year	輸血醫學 Transfusion Medicine	2	2	2				
	分子病理學 Molecular Pathology	2	2			2		
	檢驗分析應用 Applications of Laboratory analytical Methods	2	2	2				
	分子檢驗學含實驗 Molecular Laboratory Technology and Laboratory	3	4	2	2			
<b>生物技術類 Biotechnology</b>								
第一學年 1 <sup>st</sup> Academic Year	生技產業 Biotechnology Industry	2	2	2				
	細胞培養技術 Cell Culture Technique	2	2			2		
第二學年 2 <sup>nd</sup> Academic Year	遺傳學特論 Special Topics in Genetics	2	2			2		
	毒物化學 Chemistry of Poisons	2	2	2				
	生殖技術學 Reproduction Technology	2	2	2				
	微生物遺傳學 Microbial Genetics	2	2			2		
<b>管理資訊類 Management Information</b>								
第一學年 1 <sup>st</sup> Academic Year	流行病學 Epidemiology	2	2	2				
	臨床醫學實驗室安全 Clinical Laboratory Safety	1	1	1				學術倫理課程 Academic Ethics Course
	顧客關係管理 Customer Relationship Management	2	2			2		
第二學年 2 <sup>nd</sup> Academic Year	臨床檢驗數據評估 Assessment of Clinical Data	2	2			2		
	醫院資訊管理系統 Hospital Information Management System (HIMS)	2	2			2		
<b>業界實習 Clinical Practice</b>								
第二學年 2 <sup>nd</sup> Academic Year	業界實習 Clinical Practice	12	24				24	實習 18 週 Off-Campus Internship Internship Duration: 18 weeks
<b>第一學年小計(1) 1<sup>st</sup> Academic Year Credits Subtotal (1)</b>		48	57	26	0	29	2	
<b>第二學年小計(2) 2<sup>nd</sup> Academic Year Credits Subtotal (2)</b>		45	59	23	2	10	24	
<b>合計 Total = (1)+(2)</b>		93	116					

**畢業規定及其他相關說明：**

一	<p>最低畢業學分為72學分，必修41學分【含基本素養8學分、專業必修33學分】，博學涵養4學分，選修至少27學分（其中專業選修至少18學分）。 The minimum graduation requirement is 72 credits, including mandatory 41 credits [comprising 8 credits for core competencies, and mandatory professional 33 credits]. 4 credits for broad knowledge. Elective credits must be at least 27 credits [ with a minimum number of 18 credits for professional electives].</p>
二	<p>在本校就學期間必須取得心肺復甦術（CPR）畢業門檻之相關規定，依照「中臺科技大學健康科學院心肺復甦術(CPR)證照畢業門檻實施要點」之規定辦理 During the period of study, it is required to fulfill the graduation threshold for CPR in accordance with the 'Implementation Guidelines for Graduation Threshold of CPR Certification at the College of Health Science, Central Taiwan University of Science and Technology.</p>
三	<p>分子檢驗學含實驗，學期中開課，暑假期間上課。" Molecular Laboratory Technology and Laboratory" is an elective course, conducted during the second summer of the program.</p>
四	<p>有關「生活與服務」畢業門檻之相關規定，依照中臺科技大學「生活與服務」畢業門檻施行細則之規定辦理。 In accordance with the regulations outlined in the Implementation Rules for the Graduation Threshold of 'Life and Service' at the Central Taiwan University of Science and Technology, all requirements related to 'Life and Service' graduation threshold shall be adhered to.</p>
五	<p>修習「臨床醫學實驗室安全」課程之學生，需透過「臺灣學術倫理教育資源中心」網路教學平臺修習至少6小時課程並通過總測驗後，於該網站下載修課證明後，提交任課老師列入成績考核。"Clinical Laboratory Safety" is an elective course. Students are required to complete the relevant courses of "Academic Ethics Education" in accordance with the "Implementation Guidelines for Academic Ethics Education Courses at Central Taiwan University of Science and Technology" and submit the certificate to the department for review before applying for the degree examination.</p>