亞洲大學醫學檢驗暨生物學系學士班課程規劃表（115 學年度入學適用）

Undergraduate Curriculum Plan for Department of Medical Laboratory Science and Biotechnology, Asia University (Applicable for Fall 2025 Enrollees)

畢業總學分：128 學分　　校課程委員會通過次別：1142

Credits of Graduation：128　　Approved in the 1142 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	
校定必修 30 學分 (30) University Required Credits	基礎通識 22 學分 (22) Program Required Credits	中文領域 Chinese Category (4 學分) (4 Credits)	中文鑑賞與思辨	Chinese Appreciation and Critical Thinking	一 1st	上 1st	2	2	0	0	
			中文表達與應用	Chinese Expression and Application	一 1st	下 2nd	2	2	0	0	
		英文領域 English Category (8 學分) (8 Credits)	學術英語文(一)	English for Academic Purposes (1)	一 1st	上 1st	2	2	0	0	
			學術英語文(二)	English for Academic Purposes (2)	一 1st	下 2nd	2	2	0	0	
			專業英語文(一):醫護英文	English for Specific Purposes(1): English for Medical and Nursing Purposes	二 2nd	上 1st	2	2	0	0	醫學暨健康學院 護理學院
			專業英語文(二):醫護英文	English for Specific Purposes(2): English for Medical and Nursing Purposes	二 2nd	下 2nd	2	2	0	0	醫學暨健康學院 護理學院
			專業英語文(一):科技英文	English for Specific Purposes(1): English for Science and Technology	二 2nd	上 1st	2	2	0	0	資訊電機學院
			專業英語文(二):科技英文	English for Specific Purposes(2): English for Science and Technology	二 2nd	下 2nd	2	2	0	0	資訊電機學院
			專業英語文(一):商管英文	English for Specific Purposes(1): Business English	二 2nd	上 1st	2	2	0	0	管理暨社會科學學院
			專業英語文(二):商管英文	English for Specific Purposes(2): Business English	二 2nd	下 2nd	2	2	0	0	管理暨社會科學學院
			專業英語文(一):設計英文	English for Specific Purposes(1): English for Creative Design	二 2nd	上 1st	2	2	0	0	創意設計學院
			專業英語文(二):設計英文	English for Specific Purposes(2): English for Creative Design	二 2nd	下 2nd	2	2	0	0	創意設計學院

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								講授 Lecture	實作(驗) Practice (laboratory)	實習 Intern	
		程式領域 Information Category (4 學分) (4 Credits)	AI 素養與應用(一)	AI Literacy and Applications (1)	一 1st	上 1st	2	2	0	0	
			AI 素養與應用(二)	AI Literacy and Applications (2)	一 1st	下 2nd	2	2	0	0	
		歷史領域 History Category (2 學分) (2 Credits)	歷史與文化	History and Culture	一 1st	上 1st	2	2	0	0	
		藝術領域 Esthetics Category (2 學分) (2 Credits)	設計思考與創新	Design Thinking and Innovation	一 1st	下 2nd	2	2	0	0	(二選一) Choose 1 out of 2
			美學素養	Esthetics Accomplishment							
		永續領域 Sustainable Category (2 學分) (2 Credits)	永續發展與實踐(一)	Sustainable Development and Practice (1)	一 1st	上 1st	1	1	0	0	
			永續發展與實踐(二)	Sustainable Development and Practice (2)	一 1st	下 2nd	1	1	0	0	
	博雅通識 8 學分 (8) Program Elective Credits	博雅課程 (人文類、社會類、自然類、生活類)		General Required (Core) Courses (Categories: Humanities, Society, Nature, Life)	一~四 1st ~ 4th	上、下 1st, 2nd	8	8	0	0	1. 博雅課程分為四類： (1)人文類-1 (2)社會類-2 (3)自然類-3 (4)生活類-4 General Required (Core) Courses are divided into 4 categories: (1) Humanities, (2) Society, (3) Nature, and (4) Life. 2. 每一類至少須選修 2 學分(共 8 學分)；亦可以修習通識微學分課程，或通識認可之自主學習課程認抵之。 Students are required to take at least 2-credit course from each category (8 credits in total); Students could take General Micro-credit Course or Self-Study Course approved by the Center for General Education for credit waiver/transfer. 3. 須於畢業前修畢 8 學分，每學分皆須上滿 18 週。 Students are required to complete 8 credits of General Required (Core) Courses before graduation.
	體育 Physical Program	體育(一)~(四)		Physical Education (1)~(4)	一~二 1st ~ 2nd	上、下 1st, 2nd	0	2	0	0	

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							講授 Lecture	實作(驗) Practice (laboratory)	實習 Intern	
涵養教育 Cultivation Education	通識講座 General Lectures (Required)	通識涵養教育 (健康、關懷、創新、卓越)	General Literacy Series (Domains of Literacy: Healthy, Care, Innovation, Excellence)	一~四 1st ~ 4th	上、下 1st, 2nd	0	0	0	0	1. 在學期間，學生可自由參與校內任何通識認證活動，不限場次。至少參與 8 次。 Students are required to participate in at least 8 campus activities approved by the Center for General Education. 2. 每一素養至少達到 2 次： 健康 2 次、關懷 2 次、 創新 2 次、卓越 2 次。 Students are required to attend at least 2 lectures from the 4 domains of Literacy: Healthy, Care, Innovation, Excellence. 3. 畢業前須完成上述 2 項。 Student must complete the above for graduation.
院核心課程 2 學分 (2) College Core Courses		AI 在醫學健康領域之應用	Applications of AI in the Medical and Health Sciences	二 2nd	上 1st	2	2	0	0	
系核心課程 76 學分 (76) Departmental Core Courses		實驗室安全	Laboratory Safety	一 1st	上 1st	1	1	0	0	
		普通化學	General Chemistry	一 1st	上 1st	2	2	0	0	
		普通化學實驗	General Chemistry Laboratory	一 1st	上 1st	1	0	3	0	
		普通生物學（一）	General Biology (I)	一 1st	上 1st	2	2	0	0	
		普通生物學實驗	General Biology Laboratory	一 1st	上 1st	1	0	3	0	
		解剖學	Human Anatomy	一 1st	下 2nd	2	2	0	0	
		有機化學	Organic Chemistry	一 1st	下 2nd	2	2	0	0	
		有機化學實驗	Organic Chemistry Laboratory	一 1st	下 2nd	1	0	3	0	
		寄生蟲學	Parasitology	一 1st	下 2nd	1	1	0	0	
		寄生蟲學實驗	Parasitology Laboratory	一 1st	下 2nd	1	0	3	0	
		生物技術概論	Introduction of Biotechnology	一 1st	下 2nd	1	1	0	0	
		生物統計學	Biostatistics	一 1st	下 2nd	2	2	0	0	
		生理學	Physiology	二 2nd	上 1st	2	2	0	0	
		組織學	Histology	二 2nd	上 1st	1	1	0	0	

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						講授 Lecture	實作(驗) Practice (laboratory)	實習 Intern	
	組織學實驗	Histology Laboratory	二 2nd	上 1st	1	0	3	0	
	醫學遺傳學	Medical Genetics	二 2nd	上 1st	2	2	0	0	
	生物化學（一）	Biochemistry (I)	二 2nd	上 1st	2	2	0	0	
	生物化學實驗	Biochemistry Laboratory	二 2nd	上 1st	1	0	3	0	
	微生物學	Microbiology	二 2nd	上 1st	2	2	0	0	
	分析化學與儀器分析	Analytical Chemistry ＆Instrumental Analysis	二 2nd	上 1st	2	2	0	0	
	分子生物學	Molecular Biology	二 2nd	上 1st	2	2	0	0	
	分子生物學實驗	Molecular Biology Laboratory	二 2nd	上 1st	1	0	3	0	
	細胞生物學	Cell Biology	二 2nd	上 1st	2	2	0	0	
	病理切片技術及細胞診斷（含實驗）	Pathologic Section Techniques and Diagnostic Cytology (including Experiment)	二 2nd	下 2nd	2	1	2	0	
	免疫學	Immunology	二 2nd	下 2nd	2	2	0	0	
	生物化學（二）	Biochemistry (II)	二 2nd	下 2nd	2	2	0	0	
	臨床血液學(一)	Clinical Hematology I	二 2nd	下 2nd	2	2	0	0	
	臨床血液學實驗(一)	Clinical Hematology Laboratory I	二 2nd	下 2nd	1	0	3	0	
	血庫學	Blood Banking	二 2nd	下 2nd	2	2	0	0	
	血庫學實驗	Blood Banking Laboratory	二 2nd	下 2nd	1	0	3	0	
	臨床生理學	Clinical Physiology	二 2nd	下 2nd	2	2	0	0	
	臨床生理學實驗	Clinical physiology Laboratory	二 2nd	下 2nd	1	0	3	0	
	臨床血液學(二)	Clinical Hematology II	三 3rd	上 1st	2	2	0	0	
	臨床血液學實驗(二)	Clinical Hematology Laboratory II	三 3rd	上 1st	1	0	3	0	
	臨床生化學	Clinical Biochemistry	三 3rd	上 1st	3	3	0	0	
	臨床生化學實驗	Clinical Biochemistry Laboratory	三 3rd	上 1st	1	0	3	0	
	臨床血清免疫學	Clinical Serology and Immunology	三 3rd	上 1st	2	2	0	0	
	臨床血清免疫學實驗	Clinical Serology and Immunology Laboratory	三 3rd	上 1st	1	0	3	0	

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							講授 Lecture	實作(驗) Practice (laboratory)	實習 Intern	
		臨床鏡檢學	Clinical Microscopy	三 3rd	上 1st	2	2	0	0	
		臨床鏡檢學實驗	Clinical Microscopy Laboratory	三 3rd	上 1st	1	0	3	0	
		醫技專題討論(一)	Seminar in Laboratory Science-I	三 3rd	上 1st	1	1	0	0	
		病理學	Pathology	三 3rd	下 2nd	3	3	0	0	
		臨床微生物學	Clinical Microbiology	三 3rd	下 2nd	3	3	0	0	
		臨床微生物學實驗	Clinical Microbiology Laboratory	三 3rd	下 2nd	1	0	3	0	
		臨床病毒學	Clinical Virology	三 3rd	下 2nd	3	3	0	0	
		醫學分子檢驗學	Molecular Diagnosis in Medicine	三 3rd	下 2nd	2	2	0	0	
系專業選修學程 Department Professional Program	智慧醫檢學程8學分 Smart medical examination course (8)	智慧醫檢概論	Introduction of Intelligence Medical Laboratory Science	一 1st	上 1st	2	2	0	0	實務型課程 Practical Courses
		醫學檢驗人工智慧與大數據	Artificial Intelligence and Big Data in Medical Laboratory Science	二 2nd	上 1st	1	1	0	0	實務型課程 Practical Courses
		醫學檢驗法規與品質管理及認證	Medical Laboratory Science Regulation and Quality Management and Certification	二 2nd	下 2nd	2	2	0	0	實務型課程 Practical Courses
		醫學檢驗數據整合判讀	Laboratory Integration Data Reading for Medical	三 3rd	上 1st	2	2	0	0	實務型課程 Practical Courses
		長期照護之健檢與諮詢	Medical Technology and Consultation in Long-term Care	三 3rd	下 2nd	1	1	0	0	實務型課程 Practical Courses
	精準生物醫學學程8學分 Precision Biomedicine (8)	精準生物醫學概論	Introduction of Precision Biological Medicine	一 1st	上 1st	2	2	0	0	實務型課程 Practical Courses
		胚胎與人工生殖技術	Assisted Reproductive Technology	二 2nd	下 2nd	1	1	0	0	學術型課程 Academic Courses
		生物資訊學	Bioinformatics	二 2nd	下 2nd	2	2	0	0	學術型課程 Academic Courses
		高通量技術與分析	High-throughput Data Analysis	三 3rd	上 1st	1	1	0	0	實務型課程 Practical Courses
		精準醫學	Precision Medicine	三 3rd	下 2nd	1	1	0	0	實務型課程 Practical Courses
		實驗室開發試驗設計	Laboratory Development Test Design	三 3rd	下 2nd	1	1	0	0	實務型課程 Practical Courses

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							講授 Lecture	實作(驗) Practice (laboratory)	實習 Intern	
	臨床醫檢學程 26 學分 clinical medical examination course(26)	*臨床鏡檢學實習	Clinical Microscopy Practice	四 4th	上、下 1st, 2nd	3	0	0	詳見備註 See remarks for details	實務型課程，需實習 120 小時；根據考選部規範，報考醫事檢驗師者，需完成修讀此課程。欲修讀者，本系另有修讀規範。This practical course requires 120 hours of internship. According to the Ministry of Examination standards, those who apply for the Medical Technologist examination must complete this course. The department has separate study regulations for those who wish to take the course.
		*臨床生理學實習	Practice in clinical physiology practice	四 4th	上、下 1st, 2nd	2	0	0	詳見備註 See remarks for details	實務型課程，需實習 80 小時；根據考選部規範，報考醫事檢驗師者，需完成修讀此課程。欲修讀者，本系另有修讀規範。This practical course requires 80 hours of internship. According to the Ministry of Examination standards, those who apply for the Medical Technologist examination must complete this course. The department has separate study regulations for those who wish to take the course.
		*臨床生化學實習	Clinical Biochemistry Practice	四 4th	上、下 1st, 2nd	3	0	0	詳見備註 See remarks for details	實務型課程，需實習 120 小時；根據考選部規範，報考醫事檢驗師者，需完成修讀此課程。欲修讀者，本系另有修讀規範。This practical course requires 120 hours of internship. According to the Ministry of Examination standards, those who apply for the Medical Technologist examination must complete this course. The department has separate study regulations for those who wish to take the course.
		*臨床血液學實習	Clinical Hematology Practice	四 4th	上、下 1st, 2nd	2	0	0	詳見備註 See remarks for details	實務型課程，需實習 80 小時；根據考選部規範，報考醫事檢驗師者，需完成修讀此課程。欲修讀者，本系另有修讀規範。This practical course requires 80 hours of internship. According to the Ministry of Examination standards, those who apply for the Medical Technologist examination must complete this course. The department has separate study regulations for those who wish to take the course.
		*臨床微生物學實習	Clinical Microbiology Practice	四 4th	上、下 1st, 2nd	4	0	0	詳見備註 See remarks for details	實務型課程，需實習 160 小時；根據考選部規範，報考醫事檢驗師者，需完成修讀此課程。欲修讀者，本系另有修讀規範。This practical course requires 160 hours of internship. According to the Ministry of Examination standards, those who apply for the Medical Technologist examination must complete this course. The department has separate study regulations for those who wish to take the course.
		*臨床血清免疫學實習	Clinical Serology & Immunology Practice	四 4th	上、下 1st, 2nd	2	0	0	詳見備註 See remarks for details	實務型課程，需實習 80 小時；根據考選部規範，報考醫事檢驗師者，需完成修讀此課程。欲修讀者，本系另有修讀規範。This practical course requires 80 hours of internship. According to the Ministry of Examination standards, those who apply for the Medical Technologist examination must complete this course. The department has separate study regulations for those who wish to take the course.

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						講授 Lecture	實作(驗) Practice (laboratory)	實習 Intern	
	*臨床病毒學實習	Clinical Virology Practice	四 4th	上、下 1st, 2nd	1	0	0	詳見備註 See remarks for details	實務型課程，需實習 40 小時；根據考選部規範，報考醫事檢驗師者，需完成修讀此課程。欲修讀者，本系另有修讀規範。This practical course requires 40 hours of internship. According to the Ministry of Examination standards, those who apply for the Medical Technologist examination must complete this course. The department has separate study regulations for those who wish to take the course.
	*醫學分子檢驗實習	Molecular Diagnosis in Medicine and Practice	四 4th	上、下 1st, 2nd	1	0	0	詳見備註 See remarks for details	實務型課程，需實習 40 小時；根據考選部規範，報考醫事檢驗師者，需完成修讀此課程。欲修讀者，本系另有修讀規範。This practical course requires 40 hours of internship. According to the Ministry of Examination standards, those who apply for the Medical Technologist examination must complete this course. The department has separate study regulations for those who wish to take the course.
	*血庫學實習	Blood Banking Practice	四 4th	上、下 1st, 2nd	1	0	0	詳見備註 See remarks for details	實務型課程，需實習 40 小時；根據考選部規範，報考醫事檢驗師者，需完成修讀此課程。欲修讀者，本系另有修讀規範。This practical course requires 40 hours of internship. According to the Ministry of Examination standards, those who apply for the Medical Technologist examination must complete this course. The department has separate study regulations for those who wish to take the course.
	*病理切片與細胞診斷實習	Histopathologic& Cytology Practice	四 4th	上、下 1st, 2nd	1	0	0	詳見備註 See remarks for details	實務型課程，需實習 40 小時；根據考選部規範，報考醫事檢驗師者，需完成修讀此課程。欲修讀者，本系另有修讀規範。This practical course requires 40 hours of internship. According to the Ministry of Examination standards, those who apply for the Medical Technologist examination must complete this course. The department has separate study regulations for those who wish to take the course.
	臨床生理學與病理學總論	General Review on Clinical Physiology and Pathology	四 4th	下 2nd	1	1	0	0	實務型課程(選本學程的學生選修) Practical courses (optional for students choosing this course)
	臨床血液學與血庫學總論	General Review on Clinical Hematology and Blood Banking	四 4th	下 2nd	1	1	0	0	實務型課程(選本學程的學生選修) Practical courses (optional for students choosing this course)
	醫學分子檢驗學與臨床鏡檢學總論	General Review on Molecular Diagnosis and Clinical Microscopy Practice	四 4th	下 2nd	1	1	0	0	實務型課程(選本學程的學生選修) Practical courses (optional for students choosing this course)
	臨床微生物學總論	General Review on Clinical Microbiology	四 4th	下 2nd	1	1	0	0	實務型課程(選本學程的學生選修) Practical courses (optional for students choosing this course)
	臨床生化學總論	General Review on Clinical Biochemistry	四 4th	下 2nd	1	1	0	0	實務型課程(選本學程的學生選修) Practical courses (optional for students choosing this course)
	臨床血清免疫學與臨床病毒學總論	General Review on Clinical Serology & Immunology and Virology	四 4th	下 2nd	1	1	0	0	實務型課程(選本學程的學生選修) Practical courses (optional for students choosing this course)
系自由選修課程 19 學分 (19) Department Elective Courses	普通生物學（二）	General Biology (II)	一 1st	下 2nd	2	2	0	0	學術型課程 Academic Courses
	奈米技術及生醫材料	Nanotechnology and Biomedical Material	二 2nd	下 2nd	2	2	0	0	學術型課程 Academic Courses
	生物科技專利搜尋與管理	Biotechnology Patent Search and Management	二 2nd	下 2nd	2	2	0	0	實務型課程 Practical Courses

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						講授 Lecture	實作(驗) Practice (laboratory)	實習 Intern	
	基因工程	Genetic Engineering	三 3rd	上 1st	2	2	0	0	實務型課程 Practical Courses
	應用微生物學	Applied Microbiology	三 2nd	下 2nd	2	2	0	0	實務型課程 Practical Courses
	生技產品創新與開發	Innovation and Development of Biotech Products	三 3rd	下 2nd	2	2	0	0	實務型課程 Practical Courses
	臨床病毒學實驗	Clinical Virology Laboratory	三 3rd	下 2nd	1	0	3	0	實務型課程 Practical Courses
	醫技專題討論(二)	Seminar in Laboratory Science-II	三 3rd	下 2nd	1	1	0	0	實務型課程 Practical Courses
	植物病原微生物檢測技術	Cause of Plant Disease Microorganism Examination Technology	四 4th	下 2nd	2	2	0	0	實務型課程 Practical Courses
	校外實習	Off-campus Internship	四 4th	下 2nd	1	1	0	0	學術型課程 Academic Courses
	論文專題研究	Research Project	四 4th	下 2nd	1	1	0	0	學術型課程 Academic Courses
	生物科技研究趨勢分析	Biotechnology Research Trend Analysis	四 4th	下 2nd	2	2	0	0	學術型課程 Academic Courses

備註：

一、 學生含通識課程應修畢128學分，需修習校定必修，院核心課程，本系系核心課程及至少選修一個本系「專業學程」始能畢業(不含臨床醫檢學程)，不足畢業學分數，得自由選修除通識課程(含校定必修、體育(五)及體育(六))以外之其他課程、學程學分補足之。

二、 本系學生修課規定，請參閱亞洲大學醫學檢驗暨生物技術學系大學部修業規定。

三、 全校跨領域學程網頁介紹，請參考http://web.asia.edu.tw/files/13-1000-19862.php?Lang=zh-tw。

四、 他系專長規劃詳情請參考 https://mlsb.asia.edu.tw/zh_tw/curriculum/course_plan_6。

Note:

1. Students should complete 128 credits of general courses. They must take the school's compulsory courses, core courses of the college, core courses of the department, and at least one elective "professional course" of the department before they can graduate (excluding clinical medical laboratory science) Course), if the credits are insufficient for graduation, they may freely elect other courses and courses other than General Education (including University Required Credits, Physical Education (5) and Physical Education (6)) to make up for the credits.
2. For the course regulations for students in this department, please refer to the undergraduate course regulations of the Department of Medical Laboratory Science and Biotechnology, Asia University.
3. For an introduction to the Interdisciplinary Course Program webpage, please refer to http://web.asia.edu.tw/files/13-1000-19862.php?Lang=zh-tw.
4. For details on the specialty planning of other departments, please refer to https://mlsb.asia.edu.tw/zh_tw/curriculum/course_plan_6.

系所主管簽章：　　學院院長簽章：