

114

114 學年度 雙主修 應修科目及學分表



教務處註冊課務組

中山醫學大學

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114 年 6 月 3 日經 113 學年度第 2 學期第 2 次教學暨課程委員會會議通過

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中山醫學大學

Chung Shan Medical University

114 學年度雙主修應修科目及學分表

Courses and Credits for Double Major in the 114th Academic Year

醫學院護理學系

Department of Nursing, College of Medicine

第一學年 1st Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一學期 1 st Semester Credits	第二學期 2 nd Semester Credits	備註 Remarks
解剖學	Human Anatomy	必修 Required	2	2	0	
解剖學實驗	Human Anatomy Laboratory	必修 Required	1	1	0	
普通心理學	General Psychology	必修 Required	2	2	0	
生理學	Physiology	必修 Required	2	0	2	
生物化學	Biochemistry	必修 Required	2	0	2	
生理學實驗	Physiology Laboratory	必修 Required	1	0	1	
護理學導論	Introduction to Nursing	必修 Required	2	0	2	
必修學分合計 Required Credits Subtotal			12	5	7	

第二學年 2nd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一學期 1 st Semester Credits	第二學期 2 nd Semester Credits	備註 Remarks
病理學	Pathology	必修 Required	2	2	0	
基本護理學	Fundamentals of Nursing	必修 Required	2	2	0	
基本護理學實驗	Fundamental Nursing Laboratory	必修 Required	2	2	0	
微生物學及免疫學	Microbiology & Immunology	必修 Required	2	2	0	
藥理學	Pharmacology	必修 Required	2	0	2	
人類發展學	Human Development	必修 Required	2	0	2	
身體檢查與評估	Physical Examination and Assessment	必修 Required	2	0	2	
人類發展學實驗	Human Development Laboratory	必修 Required	1	0	1	
基本護理學實習	Practicum in Fundamentals of Nursing	必修 Required	1	0	1	

第 二 學 年 2nd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
身體檢查與評估實驗	Physical Examination and Assessment Laboratory	必修 Required	1	0	1	
必修學分合計 Required Credits Subtotal			17	8	9	

第 三 學 年 3rd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
成人內外科護理學(一)	Adult Medical-surgical Nursing(I)	必修 Required	3	3	0	
生物統計學	Biostatistics	必修 Required	2	2	0	
成人內外科護理學(二)	Adult Medical-surgical Nursing(II)	必修 Required	3	0	3	
成人內外科護理學實習(一)	Practicum in Adult Medical-surgical Nursing(I)	必修 Required	3	0	3	
兒科護理學實習	Practicum in Pediatric Nursing	必修 Required	3	0	3	甲班選課 Class A
婦嬰護理學實習	Practicum in Maternal-newborn Nursing	必修 Required	3	0	3	甲班選課 Class A
社區衛生護理學實習	Practicum in Community Health Nursing	必修 Required	3	0	3	乙班選課 Class B
精神衛生護理學實習	Practicum in Psychiatric Mental Health Nursing	必修 Required	3	0	3	乙班選課 Class B
護理學技術與實驗	Nursing Skills and Laboratory	必修 Required	1	0	1	
兒科護理學	Pediatric Nursing	必修 Required	3	(3)	(3)	甲班上學期選課 乙班下學期選課 Class A selects their course in the first semester, and Class B in the second
社區衛生護理學	Community Health Nursing	必修 Required	3	(3)	(3)	乙班上學期選課 甲班下學期選課 Class B selects their course in the first semester, and Class A in the second

第 三 學 年 3rd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
精神衛生護理學	Psychiatric Mental Health Nursing	必修 Required	3	(3)	(3)	乙班上學期選課 甲班下學期選課 Class B selects their course in the first semester, and Class A in the second
婦嬰護理學	Maternal-Newborn Nursing	必修 Required	3	(3)	(3)	甲班上學期選課 乙班下學期選課 Class A selects their course in the first semester, and Class B in the second
必修學分合計 Required Credits Subtotal			30	11	19	
備註：護理學系選課須知： 一、第三學年護理學系專業必修課程分甲、乙兩班選課，不得跨班選課。 二、(1) 甲班上學期必修學分共計 11 學分，必修課程為：成人內外科護理學(一)、生物統計學、兒科護理學、婦嬰護理學。 (2) 乙班上學期必修學分共計 11 學分，必修課程為：成人內外科護理學(一)、生物統計學、社區衛生護理學、精神衛生護理學。 三、(1)甲班下學期必修學分共計 19 學分，必修課程為：成人內外科護理學(二)、成人內外科護理學實習(一)、社區衛生護理學、精神衛生護理學、兒科護理學實習、婦嬰護理學實習、護理學技術與實驗。 (2)乙班下學期必修學分共計 19 學分，必修課程為：成人內外科護理學(二)、成人內外科護理學實習(一)、兒科護理學、婦嬰護理學、社區衛生護理學實習、精神衛生護理學實習、護理學技術與實驗。 Guidelines for Course Registration in the Nursing Department: 1. During the third academic year, the Nursing Department offers professional required courses categorized into Class A and Class B. Please note that students cannot register for courses from both classes at the same time. 2. (1) Class A requires 11 credits in the first semester, covering Adult Medical-surgical Nursing (I), Biostatistics, Pediatric Nursing, and Maternal-Newborn Nursing. (2) Class B also requires 11 credits, including Adult Medical-surgical Nursing (I), Biostatistics, Community Health Nursing, and Psychiatric Mental Health Nursing. 3. (1) In the second semester, Class A requires 19 credits, including Adult Medical-surgical Nursing (II), Practicum in Adult Medical-surgical Nursing (I), Community Health Nursing, Psychiatric Mental Health Nursing, Practicum in Pediatric Nursing, Practicum in Maternal-newborn Nursing, and Nursing Skills and Laboratory. (2) Class B also requires 19 credits, comprising Adult Medical-surgical Nursing (II), Practicum in Adult Medical-surgical Nursing (I), Pediatric Nursing, Maternal-Newborn Nursing, Practicum in Community Health Nursing, Practicum in Psychiatric Mental Health Nursing, and Nursing Skills and Laboratory.						

第 四 學 年 4th Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
社區衛生護理學實習	Practicum in Community Health Nursing	必修 Required	3	3	0	甲班選課 Class A

第 四 學 年 4th Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
精神衛生護理學實習	Practicum in Psychiatric Mental Health Nursing	必修 Required	3	3	0	甲班選課 Class A
婦嬰護理學實習	Practicum in Maternal-newborn Nursing	必修 Required	3	3	0	乙班選課 Class B
兒科護理學實習	Practicum in Pediatric Nursing	必修 Required	3	3	0	乙班選課 Class B
成人內外科護理學實習(二)	Practicum in Medical-surgical Nursing (II)	必修 Required	3	3	0	
護理研究概論	Introduction to Nursing Research	必修 Required	2	2	0	
護理行政概論	Introduction to Nursing Administration	必修 Required	2	2	0	
綜合臨床護理學實習	Practicum in Synopsis of Comprehensive Nursing Practice	必修 Required	4	0	4	
護理行政概論實習	Practicum in Nursing Administration	必修 Required	2	0	2	
護理倫理與法律	Nursing Ethics and Nurses Act	必修 Required	2	0	2	
必修學分合計 Required Credits Subtotal			21	19	8	
最低畢業學分數 80 學分，必修 80 學分 Minimum graduation credits: 80 credits, compulsory 80 credits						
說明 Instructions：						
<p>一、本科目學分表至少修習必修課程 80 學分。</p> <p>二、本系與主修學系之必修科目名稱、內容及學分相同者，或內容相同，但科目名稱及學分不同者，經本系開課教師及系主任同意得抵免或改修其他科目。抵免或改修其他科目原則依本校學生修讀雙主修辦法辦理。</p> <p>三、本科目學分表均依照本校護理學系科目學分表制訂，如有變更依照護理學系科目學表為主。</p> <p>1. Students must complete at least 80 credits of required courses listed in this curriculum.</p> <p>2. If required courses in this department are the same in name, content, and credits as those in the student's primary major, or if they differ in name or credits but have the same content, they may be waived or substituted with other courses upon approval by the course instructor and the department chair. The principles for course waivers or substitutions shall follow the university's regulations for pursuing a double major.</p> <p>3. This curriculum is based on the course and credit structure of Department of Nursing. In the event of any changes, the updated curriculum of the Department of Nursing shall take precedence.</p>						

中山醫學大學

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114 學年度雙主修應修科目及學分表

Courses and Credits for Double Major in the 114th Academic Year

醫學院醫學社會暨社會工作學系

Department of Medical Sociology and Social Work, College of Medicine

科目名稱 Course Name in Chinese	英文科目名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1st Semester Credits	第二 學期 2nd Semester Credits	備註 Remarks
社會統計	Social Statistics	必修 Required	6	3	3	
社會學	Sociology	必修 Required	4	2	2	
心理學	Psychology	必修 Required	3	3	0	
社會工作概論	Introduction to Social Work	必修 Required	3	3	0	
人類行為與社會環境	Human Behavior in Social Environment	必修 Required	3	0	3	
社會福利概論	Introduction to Social Welfare	必修 Required	3	0	3	
社會研究法	Research Method of Society	必修 Required	4	2	2	
醫療社會學	Medical Sociology	必修 Required	4	2	2	
社會個案工作	Social Casework	必修 Required	3	3	0	
社會團體工作	Social Group Work	必修 Required	3	3	0	
醫療社會工作	Medical Social Work	必修 Required	3	0	3	
組織行為	Organizational Behavior	必修 Required	2	0	2	
社會心理學	Social Psychology	必修 Required	3	0	3	
社會工作管理	Social Work Management	必修 Required	3	3	0	
社會學理論	Theory of Sociology	必修 Required	3	3	0	
方案設計與評估	Program Design and Evaluation	必修 Required	3	3	0	
社區組織與發展	Community Organization and Development	必修 Required	3	3	0	
質性研究	Qualitative Research	必修 Required	2	0	2	
經濟社會學	Economic Sociology	必修 Required	3	0	3	
社會福利行政	Social Welfare Administration	必修 Required	3	0	3	
社會政策與社會立法	Social Policy and Social Legislation	必修 Required	3	3	0	
社會工作倫理	Social Work Ethics	必修 Required	2	0	2	
社會工作實習(一)	Practicum in Social Work (I)	必修 Required	3	3	0	
社會工作實習(二)	Practicum in Social Work (II)	必修 Required	2	0	2	

必修學分合計 Required Credits Subtotal		74	39	35	
<p>【最低畢業學分數 94 學分，必修 74 學分，專業選修課程至少 20 學分】</p> <p>Minimum graduation credits: 94 credits, compulsory 74 credits, at least 20 credits of elective courses for majors in this department</p>					

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Chung Shan Medical University

114 學年度雙主修應修科目及學分表

Courses and Credits for Double Major in the 114th Academic Year

醫學院心理學系

Department of Psychology, College of Medicine

第 一 學 年 1 st Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
普通心理學(一)	General Psychology(I)	必修 Required	3	3	0	
心理與教育統計學(一)	Statistics in Psychology and Education(I)	必修 Required	3	3	0	
普通心理學(二)	General Psychology(II)	必修 Required	3	0	3	
心理與教育統計學(二)	Statistics in Psychology and Education(II)	必修 Required	3	0	3	
生理學	Physiology	必修 Required	2	0	2	
心理學研究法(一)	Research Method of Psychology(I)	必修 Required	2	0	2	
腦傷與行為	Brain Damage and Behavior	選修 Elective	2	2	0	專業選修 Professional Electives
性別與心理健康	Gender and Mental Health	選修 Elective	2	2	0	專業選修 Professional Electives
心理學與職涯規畫	Psychology and Career Planning	選修 Elective	2	2	0	專業選修 Professional Electives
成癮藥物導論	Introduction to Drug Abuse	選修 Elective	2	0	2	專業選修 Professional Electives
輔導原理	Principle of Guidance	選修 Elective	2	0	2	專業選修 Professional Electives
統計軟體實務	Statistical Software	選修 Elective	2	0	2	專業選修 Professional Electives
必修學分合計 Required Credits Subtotal			16	6	10	

第 二 學 年 2nd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
發展心理學	Developmental Psychology	必修 Required	3	3	0	
心理測驗學	Psychological Testing	必修 Required	3	3	0	
人格心理學	Personality Psychology	必修 Required	3	3	0	
知覺心理學	Perceptual Psychology	必修 Required	3	3	0	
※心理學研究法(二)	Research Method of Psychology(II)	必修 Required	2	2	0	
認知心理學	Cognitive Psychology	必修 Required	3	0	3	
社會心理學	Social Psychology	必修 Required	3	0	3	
※諮商理論與技術	Theory and Practice of Counseling	必修 Required	3	0	3	
認知知覺心理學實驗	Cognitive and Perceptual Psychology Laboratory	必修 Required	2	0	2	
心理測驗實務	Practice in Psychological Testing	必修 Required	1	0	1	
心理衛生	Mental Health	選修 Elective	2	2	0	專業選修 Professional Electives
普通社會學	General Sociology	選修 Elective	2	2	0	專業選修 Professional Electives
專題研究(一)	Independent Study(I)	選修 Elective	2	2	0	專業選修 Professional Electives
輔導實務	Practice in Guidance	選修 Elective	2	2	0	專業選修 Professional Electives
專題研究(二)	Independent Study (II)	選修 Elective	2	0	2	專業選修 Professional Electives
創傷心理學	Trauma Psychology	選修 Elective	2	0	2	專業選修 Professional Electives
成人發展與老化	Adult Development and Aging	選修 Elective	2	0	2	專業選修 Professional Electives
必修學分合計 Required Credits Subtotal			26	14	12	

第 三 學 年 3rd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
※變態心理學	Abnormal Psychology	必修 Required	3	3	0	
神經解剖與生理	Neural Anatomy and Physiology	必修 Required	3	3	0	
社會及人格心理學實驗	Social and Personality Psychology Laboratory	必修 Required	2	2	0	
生理心理學	Biopsychology	必修 Required	3	0	3	
早期療育實務	Practice in Early Intervention	選修 Elective	3	3	0	專業選修 Professional Electives
心理藥物學	Psychopharmacology	選修 Elective	2	2	0	專業選修 Professional Electives
生理心理學實驗	Biopsychological Laboratory	選修 Elective	2	2	0	專業選修 Professional Electives
工商心理學概論	Introduction to Industrial and Organizational Psychology	選修 Elective	2	2	0	專業選修 Professional Electives
認知神經心理學	Cognitive Neuropsychology	選修 Elective	2	2	0	專業選修 Professional Electives
腦電圖與事件關聯電位實驗	Electroencephalography/Event Related Potentials (EEG/ERP) Laboratory	選修 Elective	2	2	0	專業選修 Professional Electives
情緒心理學	Emotion	選修 Elective	2	2	0	專業選修 Professional Electives
悲傷諮商	Grief Counseling	選修 Elective	2	2	0	專業選修 Professional Electives
孕產期心理健康	Perinatal Mental Health	選修 Elective	2	2	0	專業選修 Professional Electives
健康心理學	Health Psychology	選修 Elective	3	0	3	專業選修 Professional Electives
※心理衡鑑	Psychological Assessment	選修 Elective	3	0	3	專業選修 Professional Electives
行為治療	Behavioral Therapy	選修 Elective	3	0	3	專業選修 Professional Electives
團體心理治療	Group Psychotherapy	選修 Elective	3	0	3	專業選修 Professional Electives
兒童青少年心智健康與數位科技	Digital Technology in Child and Adolescent Mental Health	選修 Elective	3	0	3	專業選修 Professional Electives

第 三 學 年 3rd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
兒童偏差行為	Abnormal Psychology in Childhood	選修 Elective	2	0	2	專業選修 Professional Electives
犯罪心理學	Criminal Psychology	選修 Elective	2	0	2	專業選修 Professional Electives
精神醫學概論	Introduction to Psychiatric Medicine	選修 Elective	2	0	2	專業選修 Professional Electives
必修學分合計 Required Credits Subtotal			11	8	3	

第 四 學 年 4th Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
※臨床心理學	Clinical Psychology	必修 Required	3	3	0	
司法心理學概論	Introduction to Forensic Psychology	選修 Elective	3	3	0	專業選修 Professional Electives
臨床心理學專題討論	Seminar in Clinical Psychology	選修 Elective	2	2	0	專業選修 Professional Electives
臨床神經心理學	Clinical Neuropsychology	選修 Elective	2	2	0	專業選修 Professional Electives
※心理學實務	Practice in Psychology	選修 Elective	2	2	0	專業選修 Professional Electives
兒童臨床心理學實務	Practice in Clinical Child Psychology	選修 Elective	2	2	0	專業選修 Professional Electives
注意力不足過動症專題	Seminar in Attention Deficit Hyperactivity Disorder	選修 Elective	2	2	0	專業選修 Professional Electives
團體心理治療實務	Practice of Group Psychotherapy	選修 Elective	2	2	0	專業選修 Professional Electives
兒童遊戲治療	Child Play Therapy	選修 Elective	3	0	3	專業選修 Professional Electives
助人專業倫理	Ethics in the Helping Professions	選修 Elective	2	0	2	專業選修 Professional Electives

第 四 學 年

4th Academic Year

科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
生理回饋	Biofeedback	選修 Elective	2	0	2	專業選修 Professional Electives
親職諮詢	Parenting Consultation	選修 Elective	2	0	2	專業選修 Professional Electives
必修學分合計 Required Credits Subtotal			3	3	0	
最低畢業學分數 86 學分，必修 56 學分，選修 30 學分 Minimum graduation credits: 86 credits, compulsory 56 credits, elective 30 credits						
說明 Instructions：						
1.	本科目學分表至少修習必修課程 56 學分，專業選修 30 學分(含)以上。 Students must complete at least 56 credits of required courses and a minimum of 30 credits of professional elective courses.					
2.	普通心理學僅認列全學年課程(上、下學期各 3 學分)。普通心理學上學期加下學期學分數未滿 6 學分者，皆需加選本系普通心理學全學年課程(上、下學期各 3 學分)。 General Psychology is only recognized when completed as a full-year course (3 credits each for the first and second semesters). Students whose combined credits for General Psychology in the first and second semesters total less than 6 credits must additionally enroll in the Department's full-year General Psychology course (3 credits each for the first and second semesters).					
3.	心理與教育統計學僅認列全學年課程(上、下學期各 3 學分)。統計相關課程上學期加下學期學分數未滿 6 學分者，皆需加選本系心理與教育統計學全學年課程(上、下學期各 3 學分)。另外，非各校心理系取得的統計學，即使已有 6 學分，仍需補修本校心理系開設的心理與教育統計學下學期 3 學分。因為非心理系取得的統計學分並無心理學的脈絡含攝其中，可能導致無法將統計學適當地應用在心理學課程及相關研究之缺失。 Psychological and Educational Statistics is only recognized when completed as a full-year course (3 credits each for the first and second semesters). Students whose combined credits for statistics-related courses in the first and second semesters total less than 6 credits must additionally enroll in the Department's full-year Psychological and Educational Statistics course (3 credits each for the first and second semesters). Furthermore, students who earned 6 credits of statistics outside of a university's Department of Psychology are still required to make up 3 credits by taking the second semester of our Department's Psychological and Educational Statistics course. This is because statistics courses taken outside of a psychology program do not incorporate the psychological context necessary for properly applying statistical methods to psychology coursework and related research.					

<p>第 四 學 年</p> <p>4th Academic Year</p>						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
4.	<p>除了普通心理學與心理與教育統計學之外，若所選課程為其原學系開設(非通識課程)，符合以下之一者，提供修課內容經本系原開課教師及系主任同意後，得改修本系專業選修科目以補足學分。</p> <p>(一)科目名稱、內容及學分相同者；或</p> <p>(二)內容相同，但科目名稱及學分不同者。</p> <p>Aside from General Psychology and Psychological and Educational Statistics, if a course taken was offered by its original department (not a general education course) and meets one of the following conditions, students may, upon submission of the course content and with the approval of the original course instructor and the Department Chair, substitute it with a professional elective course offered by the Department to fulfill credit requirements:</p> <p>(1) The course title, content, and credits are identical; or</p> <p>(2) The course content is identical, but the course title and/or credits differ.</p>					
5.	<p>學生若需至校外選修相關課程，須為本校未開課之科目且經本系該科目授課教師同意方可認為雙主修科目。</p> <p>If students need to take related courses outside the university, the courses must be ones not offered by the university and must be approved by the instructor responsible for the corresponding subject in the Department before they can be recognized as part of the double major requirements.</p>					
6.	<p>擋修課程以※標註，擋修規定依「中山醫學大學心理學系學士班課程擋修辦法」辦理。</p> <p>Course prerequisites are marked with ※, and the regulations for course prerequisites are handled in accordance with the "Regulations for Course prerequisite in the Bachelor's Program of the Department of Psychology, Chung Shan Medical University".</p>					
7.	<p>本科目學分表均依照本校心理學系科目學分表制訂，如有變更依照心理學系科目學表為主。</p> <p>The curriculum credit table for this program is formulated based on the Department of Psychology's curriculum credit table. In the event of any changes, the Department of Psychology's curriculum credit table shall prevail.</p>					

中山醫學大學

Chung Shan Medical University

114 學年度雙主修應修科目及學分表

Courses and Credits for Double Major in the 114th Academic Year

醫學科技學院醫學檢驗暨生物技術學系

Department of Medical Laboratory and Biotechnology, College of Medical Science and Technology

第一學年 1 st Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一學期 1 st Semester Credits	第二學期 2 nd Semester Credits	備註 Remarks
普通生物學(一)	General Biology(I)	必修 Required	2	2	0	
普通化學	General Chemistry	必修 Required	2	2	0	
有機化學	Organic Chemistry	必修 Required	2	2	0	
組織學	Histology	必修 Required	2	0	2	
生理學	Physiology	必修 Required	2	0	2	
生物統計學	Biostatistics	必修 Required	2	0	2	
生物化學(一)	Biochemistry(I)	必修 Required	2	0	2	
生物化學實驗	Biochemistry Laboratory	必修 Required	1	0	1	
病理切片技術學	Histopathologic Techniques	必修 Required	1	0	1	
病理切片技術實驗	Histopathologic Laboratory	必修 Required	1	0	1	
必修學分合計 Required Credits Subtotal			17	6	11	

第二學年 2 nd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一學期 1 st Semester Credits	第二學期 2 nd Semester Credits	備註 Remarks
生物化學(二)	Biochemistry(II)	必修 Required	2	2	0	
免疫學	Immunology	必修 Required	2	2	0	
臨床生理學	Clinical Physiology	必修 Required	2	2	0	
臨床生理學實驗	Clinical Physiology Laboratory	必修 Required	1	1	0	
分子生物學(一)	Molecular Biology (I)	必修 Required	2	2	0	

第 二 學 年 2nd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
醫學專題討論(一)	Seminar in Biomedicine (I)	必修 Required	1	1	0	
臨床血液學(一)	Clinical Hematology (I)	必修 Required	2	0	2	
寄生蟲學	Parasitology	必修 Required	2	0	2	
寄生蟲學實驗	Parasitology Laboratory	必修 Required	1	0	1	
微生物學	Microbiology	必修 Required	3	0	3	
微生物學實驗	Microbiology Laboratory	必修 Required	1	0	1	
醫學專題討論(二)	Seminar in Biomedicine (II)	必修 Required	1	0	1	
必修學分合計 Required Credits Subtotal			20	10	10	

第 三 學 年 3rd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
臨床生化學	Clinical Biochemistry	必修 Required	3	3	0	
臨床生化學實驗	Clinical Biochemistry Laboratory	必修 Required	1	1	0	
臨床鏡檢學	Clinical Microscopy	必修 Required	2	2	0	
臨床鏡檢學實驗	Clinical Microscopy Laboratory	必修 Required	1	1	0	
臨床血液學(二)	Clinical Hematology (II)	必修 Required	2	2	0	
臨床血液學實驗	Clinical Hematology Laboratory	必修 Required	1	1	0	
血庫學	Blood Banking	必修 Required	2	2	0	
臨床微生物學	Clinical Microbiology	必修 Required	3	0	3	
臨床微生物學實驗	Clinical Microbiology Laboratory	必修 Required	1	0	1	
醫學分子檢驗學	Molecular Diagnostics in Medicine	必修 Required	2	0	2	
臨床血清免疫學	Clinical Serology & Immunology	必修 Required	2	0	2	
臨床血清免疫學實驗	Clinical Serology & Immunology Laboratory	必修 Required	1	0	1	
臨床病毒學	Clinical Virology	必修 Required	2	0	2	
臨床病毒與分子檢驗實驗	Clinical Virology and Molecular Diagnosis Laboratory	必修 Required	1	0	1	

第 三 學 年 3rd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
病理學	Pathology	必修 Required	2	0	2	
必修學分合計 Required Credits Subtotal			26	12	14	

第 四 學 年 4th Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
生物技術學	Biotechnology	必修 Required	2	(2)	(2)	
醫學實驗室管理及品質管理	Management of Medical Laboratory and Quality Management	必修 Required	2	(2)	(2)	
臨床微生物實習	Practicum in Clinical Microbiology	必修 Required	3	(3)	(3)	
臨床血庫實習	Practicum in Clinical Blood Banking	必修 Required	1	(1)	(1)	
臨床生化實習	Practicum in Clinical Chemistry	必修 Required	2	(2)	(2)	
臨床血清免疫實習	Practicum in Clinical Seroimmunology	必修 Required	2	(2)	(2)	
臨床血液實習	Practicum in Clinical Hematology	必修 Required	2	(2)	(2)	
臨床鏡檢實習	Practicum in Clinical Microscopy	必修 Required	3	(3)	(3)	
臨床生理實習	Practicum in Clinical Physiology	必修 Required	2	(2)	(2)	
病理切片與細胞診斷實習	Practicum in Clinical Histopathologic and Cytologic Diagnosis	必修 Required	1	(1)	(1)	
醫學分子檢驗實習	Practicum in Molecular Diagnostics in Medicine	必修 Required	1	(1)	(1)	
必修學分合計 Required Credits Subtotal			21	(21)	(21)	
最低畢業學分數 84 學分，必修 84 學分 Minimum graduation credits: 84 credits, compulsory 84 credits						
說明 Instructions：						
1.	本科目學分表均依照本校醫學檢驗暨生物技術學系科目學分表制訂，如有變更，依照醫學檢驗暨生物技術學系科目學表為主。 The credit table of this course is formulated in accordance with the credit table of the Department of Medical Laboratory and Biotechnology of our school. If there is any change, the credit table of the Department of Medical Laboratory and Biotechnology will prevail.					

中山醫學大學

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114 學年度雙主修應修科目及學分表

Courses and Credits for Double Major in the 114th Academic Year

醫學科技學院物理治療學系

Department of Physical Therapy, College of Medical Science and Technology

第一學年 1 st Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
解剖學	Human Anatomy	必修 Required	3	3	0	
解剖學實驗	Human Anatomy Laboratory	必修 Required	1	1	0	
普通生物學	General Biology	必修 Required	2	2	0	
普通生物學實驗	General Biology Laboratory	必修 Required	1	1	0	
※物理治療導論	Introduction to Physical Therapy	必修 Required	1	1	0	
※表體解剖學	Surface Anatomy-Palpation and Surface Markings	必修 Required	1	0	1	
※表體解剖學實習	Practicum in Surface Anatomy-Palpation and Surface Markings	必修 Required	1	0	1	
普通物理學	General Physics	必修 Required	2	0	2	
微積分(一)	Calculus(I)	選修 Elective	2	2	0	
微積分(二)	Calculus(II)	選修 Elective	2	0	2	
專題研究(一)	Independent Study(I)	選修 Elective	2	0	2	
運動科學概論	Introduction to Exercise Science	選修 Elective	2	2	0	
銀髮族保健學	Health Care for the Elderly Adults	選修 Elective	2	2	0	
物理治療師生涯規劃	Career Planning in Physical Therapist	選修 Elective	2	2	0	
物理治療專業英文	Professional English in Physical Therapy	選修 Elective	2	0	2	
急救學及實作	First Aid and Practicum	選修 Elective	2	0	2	
AI 科技賦能運動治療微學分	AI Technology Empowers Sports Therapy M.C. Credit Course	選修 Elective	1	0	1	
健康運動與肌肉筋膜放鬆	Healthy Exercise and Myofascial Relaxation	選修 Elective	2	2	0	
人工智慧在物理治療的運用與發展	The application and development of artificial intelligence in physical therapy	選修 Elective	2	0	2	
必修學分合計 Required Credits Subtotal			12	8	4	

第 二 學 年 2nd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
※神經解剖學（含實驗）	Neuroanatomy(include Lab)	必修 Required	2	2	0	
※物理治療倫理學	Ethics in Physical Therapy	必修 Required	1	1	0	
※肌動學	Kinesiology	必修 Required	2	2	0	
※熱療學	Thermal Agent Therapy	必修 Required	1	1	0	
※熱療學實習	Practicum in Thermal Agent Therapy	必修 Required	1	1	0	
※物理治療臨床見習(一)	Clinical Observation in Physical Therapy(I)	必修 Required	1	1	0	
※物理治療技術學	Fundamental Physical Therapy Techniques	必修 Required	1	1	0	
※物理治療技術學實習	Practicum in Fundamental Physical Therapy Techniques	必修 Required	1	1	0	
※生物統計學	Biostatistics	必修 Required	2	2	0	
生理學(一)	Physiology(I)	必修 Required	2	2	0	
生理學(二)	Physiology(II)	必修 Required	2	0	2	
生理學實驗	Physiology Laboratory	必修 Required	1	0	1	
※臨床醫學(一)	Introduction to Clinical Medicine (I)	必修 Required	2	0	2	
※公共衛生學	Introduction to Public Health	必修 Required	2	0	2	
※物理治療管理學	Physical Therapy Organization and Administration	必修 Required	2	0	2	
※生物力學	Biomechanics	必修 Required	2	0	2	
※電療學	Electrotherapy	必修 Required	1	0	1	
※電療學實習	Practicum in Electrotherapy	必修 Required	1	0	1	
※物理治療評估學	Assessment of Physical Therapy	必修 Required	1	0	1	
※物理治療評估學實習	Practicum in Assessment of Physical Therapy	必修 Required	1	0	1	
專題研究(二)	Independent Study(II)	選修 Elective	2	0	2	
兒童發展	The Development of Children	選修 Elective	2	2	0	
兒童發展評估	Evaluation of Child Development	選修 Elective	2	0	2	
老人健康照護及物理治療	Health Care and Physical Therapy for Community-Dwelling Older Adults	選修 Elective	2	2	0	
運動指導與設計	Exercise Guide and Design	選修 Elective	2	2	0	

第 二 學 年 2nd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
基本運動學	Basic Principles of Exercise Prescription	選修 Elective	2	0	2	
競技運動按摩	Sports Performance Massage	選修 Elective	1	0	1	
運動生理學	Exercise Physiology	選修 Elective	2	0	2	
必修學分合計 Required Credits Subtotal			29	14	15	

第 三 學 年 3rd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
病理學	Pathology	必修 Required	2	2	0	
※臨床醫學(二)	Introduction to Clinical Medicine (II)	必修 Required	2	2	0	
※心肺物理治療學	Cardiopulmonary Physical Therapy	必修 Required	2	2	0	
※心肺物理治療學實習	Practicum in Cardiopulmonary Physical Therapy	必修 Required	1	1	0	
※神經科物理治療學	Neurological Physical Therapy	必修 Required	3	1	2	
※神經科物理治療學實習	Practicum in Neurological Physical Therapy	必修 Required	2	1	1	
※骨科物理治療學	Orthopedic Physical Therapy	必修 Required	3	2	1	
※骨科物理治療學實習	Practicum in Orthopedic Physical Therapy	必修 Required	2	1	1	
※操作治療學實習	Practicum in Manual Therapy	必修 Required	1	1	0	
※操作治療學	Manual Therapy	必修 Required	1	1	0	
※小兒物理治療學	Pediatric Physical Therapy	必修 Required	2	0	2	
※小兒物理治療學實習	Practicum in Pediatric Physical Therapy	必修 Required	1	0	1	
※復健醫學	Rehabilitation Medicine	必修 Required	1	0	1	
※義肢及科技輔具學	Orthotics, Prosthetics and Assistive Technology in Rehabilitation	必修 Required	1	0	1	
※義肢及科技輔具學實習	Practicum in Orthotics, Prosthetics and Assistive Technology in Rehabilitation	必修 Required	1	0	1	
※物理治療臨床見習(二)	Clinical Observation in Physical Therapy(II)	必修 Required	1	0	1	
醫學影像概論	Introduction to Medical Image	選修 Elective	2	2	0	
專題研究(三)	Independent Study(III)	選修 Elective	2	2	0	

第 三 學 年 3rd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
競技運動傷害處理與貼紮	Sports Injuries Management and Taping	選修 Elective	2	2	0	
復健聯盟之創業與行銷	Entrepreneurship and Marketing Science of Rehabilitation Alliance	選修 Elective	2	2	0	
競技運動傷害評估與賦能	Sports Injury Assessment and Empower	選修 Elective	2	0	2	
實證物理治療學	Evidence-Based Physical Therapy	選修 Elective	2	0	2	
社區物理治療	Community-Based Physical Therapy	選修 Elective	2	0	2	
骨科與老人物理治療臨床個案討論	Orthopedic /Geriatric Physical Therapy Case Study	選修 Elective	2	0	2	
動作控制與學習	Motor Control and Learning	選修 Elective	2	2	0	
長照復能實務及案例討論	Reablement of Long-Term Care	選修 Elective	2	0	2	
智慧化輔助科技	Intelligent Assistive Technology	選修 Elective	2	2	0	
軟組織問題的評估與治療微學分	Soft Tissue Dysfunction: Diagnosis & Treatment M.C. Credit Course	選修 Elective	1	0	1	
拮抗鬆弛術微學分	Strain Counterstrain Technique M.C. Credit Course	選修 Elective	1	0	1	
脊椎側彎的臨床實務操作技巧微學分	The Clinical Practical Operation Techniques for Scoliosis M.C. Credit Course	選修 Elective	1	0	1	
必修學分合計 Required Credits Subtotal			26	14	12	

第 四 學 年 4th Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
物理治療特論	Special Topic in Physical Therapy	必修 Required	1	0	1	
物理治療臨床實習(一)	Clinical Practicum in Physical Therapy (I)	必修 Required	4	(4)	(4)	第 1、2 學期各選 12 學分
物理治療臨床實習(二)	Clinical Practicum in Physical Therapy (II)	必修 Required	4	(4)	(4)	第 1、2 學期各選 12 學分
物理治療臨床實習(三)	Clinical Practicum in Physical Therapy (III)	必修 Required	4	(4)	(4)	第 1、2 學期各選 12 學分
物理治療臨床實習(四)	Clinical Practicum in Physical Therapy (IV)	必修 Required	4	(4)	(4)	第 1、2 學期各選 12 學分
物理治療臨床實習(五)	Clinical Practicum in Physical Therapy (V)	必修 Required	4	(4)	(4)	第 1、2 學期各選 12 學分
物理治療臨床實習(六)	Clinical Practicum in Physical Therapy (VI)	必修 Required	4	(4)	(4)	第 1、2 學期各選 12 學分
必修學分合計 Required Credits Subtotal			25	(24)	(25)	

第 四 學 年 4th Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
最低畢業學分數 100 學分，必修 92 學分，系上選修 8 學分 Minimum graduation credits: 100 credits, compulsory 92 credits, elective 8 credits offered by this department						
說明 Instructions：						
1.	應修系上全部必修科目學分數及系上開設選修科目 8 學分。 Students pursuing a double major must complete all required core courses of the additional major, as well as 8 elective credits offered by faculty members of this department.					
2.	擋修課程以※標註，凡標有※任何一科不及格者，擋修第四學年「物理治療臨床實習(一)~(六)」。 Courses marked with ※ are mandatory prerequisites. Students who fail any course designated with ※ will be ineligible to register for the fourth-year "Clinical Practicum in Physical Therapy (I) through (VI),"					

中山醫學大學

Chung Shan Medical University

114 學年度雙主修應修科目及學分表

Courses and Credits for Double Major in the 114th Academic Year

醫學科技學院職能治療學系

Department of Occupational Therapy, College of Medical Science and Technology

第一學年 1 st Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
普通心理學	General Psychology	必修 Required	2	2	0	
普通生物學	General Biology	必修 Required	2	2	0	
職能治療導論	Introduction to Occupational Therapy	必修 Required	1	1	0	
社會學與職能治療	Sociology and Occupational Therapy	必修 Required	2	2	0	
解剖學	Human Anatomy	必修 Required	3	3	0	
解剖學實驗	Human Anatomy Laboratory	必修 Required	1	1	0	
職能治療活動學(一)	Therapeutic Activities in Occupational Therapy (I)	必修 Required	1	0	1	
職能治療活動學實習(一)	Practicum in Therapeutic Activities in Occupational Therapy (I)	必修 Required	1	0	1	
解剖與人體動作	Anatomy and Human Movement: Structure and Function	必修 Required	1	0	1	
解剖與人體動作實習	Practicum in Anatomy and Human Movement: Structure and Function	必修 Required	1	0	1	
基礎統計與研究方法	Basic Statistics and Research Methods	必修 Required	2	0	2	
團體動力學	Group Dynamics	必修 Required	1	0	1	
團體動力學實習	Practicum in Group Dynamics	必修 Required	1	0	1	
職能治療理論基礎	Basic Theory of Occupational Therapy	必修 Required	2	0	2	
職能治療初階臨床實習(一)	Level I Fieldwork practice in Occupational Therapy (I)	必修 Required	1	0	1	
身心障礙概論	Introduction to Disability	選修 Elective	2	2	0	
早期療育概論	Introduction to Early Intervention	選修 Elective	2	2	0	
臨床溝通模擬與實作	Clinical Communication Skill Simulation and Practice	選修 Elective	2	2	0	
輔具設計與實作	Designing and Fabrication of Assistive Technology	選修 Elective	2	0	2	
職能治療專題研究(一)	Independent Study in Occupational Therapy (I)	選修 Elective	1	0	1	
AI 在復健醫療之應用	Applications of AI in Rehabilitation Healthcare	選修 Elective	2	0	2	

第 一 學 年 1 st Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
必修學分合計 Required Credits Subtotal			22	11	11	

第 二 學 年 2nd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
職能治療活動學(二)	Therapeutic Activities in Occupational Therapy (II)	必修 Required	1	1	0	
職能治療活動學實習(二)	Practicum in Therapeutic Activities in Occupational Therapy (II)	必修 Required	1	1	0	
生理學	Physiology(I)	必修 Required	4	4	0	
生理學實驗	Physiology Laboratory	必修 Required	1	1	0	
精神醫學	Psychiatry	必修 Required	2	2	0	
肌動學	Kinesiology	必修 Required	1	1	0	
肌動學實習	Practicum in Kinesiology	必修 Required	1	1	0	
人類發展學	Human Development	必修 Required	2	2	0	
神經解剖學	Neuroanatomy	必修 Required	2	2	0	
職能治療初階臨床實習(二)	Level I Fieldwork practice in Occupational Therapy (II)	必修 Required	1	0	1	
職能治療管理學	Occupational Therapy Organization and Administration	必修 Required	1	0	1	
職能治療倫理與規範	Occupational Therapy Ethics and Regulations	必修 Required	1	0	1	
職能治療評估學	Assessments in Occupational Therapy	必修 Required	1	0	1	
職能治療評估學實習	Practicum in Assessments in Occupational Therapy	必修 Required	2	0	2	
復健醫學	Rehabilitation Medicine	必修 Required	1	0	1	
臨床醫學(一)	Clinical Medicine(I)	必修 Required	2	0	2	
兒童職能治療 (一)	Pediatric Occupational Therapy(I)	必修 Required	1	0	1	
兒童職能治療實習 (一)	Practicum in Pediatric Occupational Therapy(I)	必修 Required	1	0	1	
社區及老人醫學(一)	Community and Geriatric Medicine (I)	必修 Required	1	0	1	
職能治療專題研究(二)	Independent Study in Occupational Therapy (II)	選修 Elective	1	1	0	
感覺統合概論	Introduction to Sensory Integration	選修 Elective	2	2	0	

第 二 學 年 2nd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
感覺統合	Sensory Integration	選修 Elective	2	2	0	
職能治療的人際關係與溝通	Interpersonal Relationship and Communication in Occupational Therapy	選修 Elective	2	2	0	
人體動作分析概論	Introduction to Human Motion Analysis	選修 Elective	2	2	0	
早療專業團隊合作	Team Collaboration in Early Intervention	選修 Elective	3	0	3	
職能治療的敘事觀點	Narrative Perspectives in Occupational Therapy	選修 Elective	2	0	2	
初階統合分析於醫療領域之應用	Introduction to Meta-Analysis in Healthcare Applications	選修 Elective	2	0	2	
必修學分合計 Required Credits Subtotal			27	15	12	

第 三 學 年 3rd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
心理職能治療	Occupational Therapy for Mental health	必修 Required	2	2	0	
心理職能治療實習	Practicum in Occupational Therapy for Mental health	必修 Required	1	1	0	
兒童職能治療(二)	Pediatric Occupational Therapy (II)	必修 Required	1	1	0	
兒童職能治療實習(二)	Practicum in Pediatric Occupational Therapy (II)	必修 Required	1	1	0	
職能治療技術學	Therapeutic Techniques in Occupational Therapy	必修 Required	1	1	0	
職能治療技術學實習	Practicum in Therapeutic Techniques in Occupational Therapy	必修 Required	1	1	0	
臨床醫學(二)	Clinical Medicine (II)	必修 Required	2	2	0	
社區及老人醫學(二)	Community and Geriatric Medicine (II)	必修 Required	1	1	0	
社區職能治療學	Community-based Occupational Therapy	必修 Required	1	1	0	
社區職能治療學實習	Practicum in Community-based Occupational Therapy	必修 Required	1	1	0	
生理職能治療	Occupational Therapy for Physical Conditions	必修 Required	1	1	0	
生理職能治療實習(一)	Practicum in Occupational Therapy for Physical Conditions (I)	必修 Required	1	1	0	
生理職能治療實習(二)	Practicum in Occupational Therapy for Physical Conditions (II)	必修 Required	1	0	1	
職能治療初階臨床實習(三)	Level I Fieldwork practice in Occupational Therapy (III)	必修 Required	1	0	1	
日常生活功能與輔助科技	Assistive Technology and Activity of daily living	必修 Required	2	0	2	

第 三 學 年 3rd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
日常生活功能與輔助科技實習	Practicum in Assistive Technology and Activity of daily living	必修 Required	1	0	1	
副木裝具義肢學實習	Practicum in Orthotics and Prosthetics	必修 Required	1	0	1	
副木裝具義肢學	Orthotics and Prosthetics	必修 Required	1	0	1	
職業復健	Vocational Rehabilitation	必修 Required	1	0	1	
職業復健實習	Practicum in Vocational Rehabilitation	必修 Required	1	0	1	
職能治療專題研究(三)	Independent Study in Occupational Therapy (III)	選修 Elective	1	1	0	
必修學分合計 Required Credits Subtotal			23	14	9	

第 四 學 年 4th Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
進階臨床實習：兒童領域(一)	Clinical Practice of Occupational Therapy for Pediatrics (I)	必修 Required	4	(4)	(4)	
進階臨床實習：兒童領域(二)	Clinical Practice of Occupational Therapy for Pediatrics (II)	必修 Required	4	(4)	(4)	
進階臨床實習：心理領域(一)	Clinical Practicum in Occupational Therapy for Mental Health (I)	必修 Required	4	(4)	(4)	
進階臨床實習：心理領域(二)	Clinical Practicum in Occupational Therapy for Mental Health (II)	必修 Required	4	(4)	(4)	
進階臨床實習：生理領域(一)	Clinical Practice of Occupational Therapy for Physical Conditions (I)	必修 Required	4	(4)	(4)	
進階臨床實習：生理領域(二)	Clinical Practice of Occupational Therapy for Physical Conditions (II)	必修 Required	4	(4)	(4)	
職能治療專題討論	Seminar in Occupational Therapy	必修 Required	1	1	0	
職能治療特論	Special Topics in Occupational Therapy	必修 Required	1	0	1	
社區職能治療臨床實習	Clinical Practicum in Occupational Therapy for Community	選修 Elective	2	0	2	
必修學分合計 Required Credits Subtotal			26			
最低畢業學分數 106 學分，必修 98 學分，選修 8 學分 Minimum graduation credits: 106 credits, compulsory 98 credits, elective 8 credits						
說明 Instructions：						

第 四 學 年
4th Academic Year

科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
1.	<p>至少選修 8 學分選修課程，始能畢業。選修課程涵蓋本系開設之選修課程或本校(含本系)所開設之跨域課程(微學程、專業學程、輔系、雙主修、跨校學位或學分選修)，畢業前由本系認定之。</p> <p>Students must complete at least 8 elective credits to be eligible for graduation. Elective courses may include those offered by the department or interdisciplinary courses offered by the university (including microprograms, professional programs, minors, double majors, intercollegiate degrees, or credit-based electives). All courses must be approved by the department prior to graduation.</p>					
2.	<p>修習「職能治療活動學暨實習(二)」前須修過「職能治療活動學暨實習(一)」。修習「職能治療活動學暨實習(二)」前須修過「職能治療活動學暨實習(一)」。修習「職能治療初階臨床實習」(三)者必須修過「職能治療初階臨床實習」(二)；修習「職能治療初階臨床實習」(二)者必須修過「職能治療初階臨床實習」(一)及「職能治療導論」。</p> <p>Before taking 'Therapeutic Activities in Occupational Therapy (II)', students must have completed 'Therapeutic Activities in Occupational Therapy (I)'. Those who take 'Level I Fieldwork practice in Occupational Therapy (III)' must have completed 'Level I Fieldwork practice in Occupational Therapy (II)'; those who take 'Level I Fieldwork practice in Occupational Therapy (II)' must have completed 'Level I Fieldwork practice in Occupational Therapy (I)' and 'Introduction to Occupational Therapy'.</p>					
3.	<p>第一至第三學年之所有系上必修科目均擋修第四學年之必修臨床實習。</p> <p>All compulsory courses from the first to the third year block the required clinical practicum in the fourth year.(Clinical Practice of Occupational Therapy for Children (I), Clinical Practice of Occupational Therapy for Children (II), Clinical Practicum in Occupational Therapy for Psychosocial Dysfunction (I), Clinical Practicum in Occupational Therapy for Psychosocial Dysfunction (II), Clinical Practice of Occupational Therapy for Physical Dysfunction (I), Clinical Practice of Occupational Therapy for Physical Dysfunction (II))</p>					

中山醫學大學

Chung Shan Medical University

114 學年度雙主修應修科目及學分表

Courses and Credits for Double Major in the 114th Academic Year

醫學科技學院語言治療與聽力學系語言治療組

Division of Speech Language Pathology, Department of Speech Language Pathology and Audiology ,
College of Medical Science and Technology

第一學年 1 st Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一學期 1 st Semester Credits	第二學期 2 nd Semester Credits	備註 Remarks
語言學概論	Introduction to Linguistics	必修 Required	3	3	0	
普通心理學	General Psychology	必修 Required	2	2	0	
基礎神經解剖學	Neurological Anatomy	必修 Required	2	2	0	
發展心理學	Developmental Psychology	必修 Required	2	0	2	
聽力學導論	Introduction to Audiology	必修 Required	2	0	2	
溝通障礙學導論	Introduction to Communication Disorders	必修 Required	2	0	2	
語音學	Phonetics	必修 Required	2	0	2	
統計學	Statistics	必修 Required	2	0	2	
聽語神經解剖學	Anatomy and Physiology of Speech and Hearing	必修 Required	2	0	2	
必修學分合計 Required Credits Subtotal			19	7	12	

第二學年 2 nd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一學期 1 st Semester Credits	第二學期 2 nd Semester Credits	備註 Remarks
語言發展學	Language Development	必修 Required	3	3	0	
◎構音與音韻異常	Articulation/Phonological Disorders	必修 Required	3	3	0	擋修聽語障礙實習(一)
言語科學	Speech Science	必修 Required	2	2	0	
語暢障礙學	Fluency Disorders	必修 Required	2	2	0	
聽語測驗原理與應用	Theory and Application of Assessment on Speech, Language and Hearing Disorders	必修 Required	2	2	0	
語言治療專業與倫理	Professional Issues and Ethics in Speech-Language Pathology	必修 Required	1	1	0	

第 二 學 年 2nd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
◎學前兒童語言障礙學	Language Disorders in Pre-schoolers	必修 Required	3	0	3	擋修語言障礙 實習
語音聲學	Acoustic Phonetics	必修 Required	2	0	2	
行為改變技術與應用	Behavior Modification and Application	必修 Required	2	0	2	
臨床聽力與障礙學	Essentials of Clinical Audiology and Hearing Disorders	必修 Required	2	0	2	
初階語言障礙學實習	Basic Practicum in Speech Language Pathology	必修 Required	2	0	2	
溝通障礙之諮商技巧	Counseling in Communication Disorders	必修 Required	2	0	2	
成人神經語言障礙學	Neurogenic Communicative Disorders in Adults	必修 Required	1	0	1	
聽力學臨床實務論	Practicum in Clinical Audiology	必修 Required	1	0	1	
必修學分合計 Required Credits Subtotal			28	13	15	

第 三 學 年 3rd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
吞嚥障礙學	Swallowing Disorders	必修 Required	3	3	0	
成人失語症	Aphasia	必修 Required	3	3	0	
◎學童語言障礙學	Language Disorders in School-age Children	必修 Required	2	2	0	擋修語言障礙 實習
聽語障礙實習（一）	Practicum in Communicative Disorders(I)	必修 Required	2	2	0	
輔助溝通系統	Augmentative and Alternative Communication (AAC)	必修 Required	2	2	0	
溝通障礙評估與報告寫作	Clinical Assessment and Professional Report Writing in Communication Disorders	必修 Required	2	2	0	
溝通障礙治療與報告寫作	Treatment and Professional Report Writing in Communication Disorders	必修 Required	2	2	0	
語言障礙實習	Practicum in Speech Language Pathology	必修 Required	3	0	3	
聽能復健學	Aural Rehabilitation	必修 Required	2	0	2	
嗓音障礙學	Voice Disorders	必修 Required	2	0	2	
運動言語障礙學	Motor Speech Disorders	必修 Required	2	0	2	
聽語障礙實習（二）	Practicum in Communicative Disorders(II)	必修 Required	2	0	2	

第 三 學 年 3rd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
語言障礙實習總論	General Principles of Clinical Practicum in Speech-Language Disorders	必修 Required	1	0	1	
語言障礙個案研究	Case Studies in Speech and Language Disorders	必修 Required	1	0	1	
必修學分合計 Required Credits Subtotal			29	16	13	

第 四 學 年 4th Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
臨床語言障礙實習(一)	Clinical Practicum in Speech-Language Disorders(I)	必修 Required	9	(9)	(9)	
臨床語言障礙實習(二)	Clinical Practicum in Speech-Language Disorders(II)	必修 Required	9	(9)	(9)	
必修學分合計 Required Credits Subtotal			18	9	9	

最低畢業學分數 104 學分，必修 94 學分，選修 10 學分
Minimum graduation credits: 104 credits, compulsory 94 credits, elective 10 credits

說明 Instructions :

1.	標有◎任一科不及格，擋修下一學期之對應科目。 If a student fails any course marked with ◎, they will be barred from enrolling in the corresponding course in the next semester.
2.	第一至第三學年之所有系上必修科目均擋修第四學年之必修臨床實習。 All required departmental courses from the first to the third year will bar students from taking the required clinical practicum in the fourth year.
3.	語言治療組學生在三年級第 2 學期「語言障礙實習總論」課程中，須通過實習能力檢定考。 Students in the Division of Speech Language Pathology must pass the Practicum Competency Assessment during the second semester of their third Academic year in the course " General Principles of Clinical Practicum in Speech-Language Disorders ".

中山醫學大學

Chung Shan Medical University

114 學年度雙主修應修科目及學分表

Courses and Credits for Double Major in the 114th Academic Year

醫學科技學院語言治療與聽力學系聽力組

Division of Audiology, Department of Speech Language Pathology and Audiology,

College of Medical Science and Technology

第一學年 1 st Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一學期 1 st Semester Credits	第二學期 2 nd Semester Credits	備註 Remarks
普通心理學	General Psychology	必修 Required	2	2	0	
語言學概論	Introduction to Linguistics	必修 Required	3	3	0	
聽語科學導論	Introduction to Speech & Hearing Science	必修 Required	2	2	0	
統計學	Statistics	必修 Required	2	2	0	
基礎神經解剖學	Neurological Anatomy	必修 Required	2	2	0	
發展心理學	Developmental Psychology	必修 Required	2	0	2	
聽力學導論	Introduction to Audiology	必修 Required	2	0	2	
溝通障礙學導論	Introduction to Communication Disorders	必修 Required	2	0	2	
聾人文化	Culture of the Deaf	必修 Required	1	0	1	
聽語神經解剖學	Anatomy and Physiology of Speech and Hearing	必修 Required	2	0	2	
語言發展學	Language Development	必修 Required	2	0	2	
必修學分合計 Required Credits Subtotal			22	11	11	

第二學年 2 nd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一學期 1 st Semester Credits	第二學期 2 nd Semester Credits	備註 Remarks
聽力科學	Hearing Science	必修 Required	3	3	0	
語音聲學	Acoustic Phonetics	必修 Required	3	3	0	
耳鼻喉科學概論	Introduction to Otolaryngology	必修 Required	1	1	0	
臨床聽力學	Essentials of Clinical Audiology	必修 Required	2	2	0	

第 二 學 年 2nd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
聽力學臨床實務論	Practicum in Clinical Audiology	必修 Required	2	2	0	
聽語測驗原理與應用	Theory and Application of Assessment on Speech, Language and Hearing Disorders	必修 Required	2	2	0	
聽覺障礙學(一)	Hearing Disorders (I)	必修 Required	2	0	2	
兒童言語與語言障礙學	Speech and Language Disorders in Children	必修 Required	2	0	2	
兒童語言障礙初階實習	Practicum in Child Language Disorders	必修 Required	1	0	1	
噪音與聽力維護	Noise Survey and Hearing Conservation	必修 Required	2	0	2	
語音聽知覺學	Speech and Auditory Perception	必修 Required	2	0	2	
行為改變技術與應用	Behavior Modification and Application	必修 Required	2	0	2	
必修學分合計 Required Credits Subtotal			24	13	11	

第 三 學 年 3rd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
幼兒聽力學	Pediatric Audiology	必修 Required	3	3	0	
聽覺電生理學(一)	Auditory Electrophysiology (I)	必修 Required	2	2	0	
聽覺電生理學(二)	Auditory Electrophysiology(II)	必修 Required	2	0	2	
進階臨床聽力學	Advanced Clinical Audiology	必修 Required	2	2	0	
聽語障礙實習（一）	Practicum in Communicative Disorders (I)	必修 Required	2	2	0	
聽覺輔具原理與實務學（一）	Principles and Practices in Amplification (I)	必修 Required	2	2	0	
內耳前庭功能評量與復健	Assessment and Rehabilitation of Vestibular Function	必修 Required	2	2	0	
聽力學專業與倫理	Professional Issues and Ethics in Audiology	必修 Required	1	1	0	
內耳前庭功能評量與復健實習	Practice in Assessment and Rehabilitation of Vestibular Function	必修 Required	1	1	0	
幼兒聽力學實務論	Clinical Application in Pediatric Audiology	必修 Required	1	1	0	
人工耳蝸學	Cochlear Implant	必修 Required	2	2	0	
聽能復健學	Aural Rehabilitation	必修 Required	3	0	3	
聽語障礙實習(二)	Practicum in Communicative Disorders(II)	必修 Required	2	0	2	

第 三 學 年 3rd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
聽覺輔具原理與實務學(二)	Principles and Practices in Amplification (II)	必修 Required	2	0	2	
聽覺障礙學實務論	Clinical Application in Hearing Disorders	必修 Required	2	0	2	
聽力障礙實習總論	General Principles of Clinical Practicum in Hearing Disorders	必修 Required	2	0	2	
必修學分合計 Required Credits Subtotal			31	18	13	

第 四 學 年 4th Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
聽力學實習(一)	Audiology Practice I	必修 Required	9	(9)	(9)	
聽力學實習(二)	Audiology Practice II	必修 Required	9	(9)	(9)	
必修學分合計 Required Credits Subtotal			18	9	9	
最低畢業學分數 104 學分，必修 95 學分，選修 9 學分 Minimum graduation credits: 104 credits, compulsory 95 credits, elective 9 credits						
說明 Instructions :						
1.	第一至第三學年之所有系上必修科目均擋修第四學年之必修臨床實習。 All required departmental courses from the first to the third year will block students from taking the required clinical practicum in the fourth year.					
2.	聽力組學生在三年級第 2 學期「聽覺障礙學實務論」課程中，須通過實習能力檢定考。 Students in the Audiology group must pass the Practicum Competency Assessment during the second semester of their third year in the course " Clinical Application in Hearing Disorders ".					

中山醫學大學

Chung Shan Medical University

114 學年度雙主修應修科目及學分表

Courses and Credits for Double Major in the 114th Academic Year

醫學科技學院生物醫學科學學系

Department of Biomedical Sciences, College of Medical Science and Technology

第一學年 1 st Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
普通生物學(一)	General Biology(I)	必修 Required	3	3	0	
普通生物學(二)	General Biology(II)	必修 Required	3	0	3	
普通生物學實驗	General Biology Laboratory	必修 Required	1	0	1	
普通化學	General Chemistry	必修 Required	2	2	0	
書報討論(一)	Discussion in Literature(I)	必修 Required	1	1	0	
生物統計學	Biostatistics	必修 Required	2	2	0	
書報討論(二)	Discussion in Literature(II)	必修 Required	1	0	1	
電腦資訊與生醫科學	Computer Information for Biomedical Science	必修 Required	2	0	2	
有機化學	Organic Chemistry	必修 Required	2	0	2	
有機化學實驗	Organic Chemistry Laboratory	必修 Required	1	0	1	
生物醫學研究導論	Introduction to Research in Biomedical Sciences	選修 Elective	1	0	1	專業選修 professional electives
生醫科學計算	Calculations in Biomedical Sciences	選修 Elective	2	0	2	專業選修 professional electives
普通物理學	General Physics	選修 Elective	2	2	0	
普通化學實驗	General Chemistry Laboratory	選修 Elective	1	1	0	
生技醫藥產業職務探索	Job Exploration in Biopharmaceutical Industry	選修 Elective	2	2	0	
Python程式設計	Python Programming	選修 Elective	2	0	2	
實用英語溝通技巧	Practical English Communication Skills	選修 Elective	2	0	2	
生技創新與產業實作微學分	Biotechnology Innovation and Industrial Practice Micro-Certificate Course	選修 Elective	1	0	1	
生技產業實務增能微學分	Biotechnology Industry Practical Enhancing Micro-Certificate Course	選修 Elective	1	1	0	
必修學分合計 Required Credits Subtotal			18	8	10	

第 二 學 年 2nd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
細胞生物學	Cell Biology	必修 Required	3	3	0	
細胞生物學實驗	Cell Biology Laboratory	必修 Required	1	1	0	
生物化學	Biochemistry	必修 Required	2	2	0	
生醫生物化學	Biomedical Biochemistry	必修 Required	2	0	2	
生物化學實驗	Biochemistry Laboratory	必修 Required	1	1	0	
生理學(一)	Physiology(I)	必修 Required	2	2	0	
生理學(二)	Physiology(II)	必修 Required	2	0	2	
生理學實驗	Physiology Laboratory	必修 Required	1	0	1	
書報討論(三)	Discussion in Literature(III)	必修 Required	1	1	0	
書報討論(四)	Discussion in Literature(IV)	必修 Required	1	0	1	
遺傳學	Genetics	必修 Required	3	0	3	
分子生物學	Molecular Biology	必修 Required	3	0	3	
分子生物學實驗	Molecular Biology Laboratory	必修 Required	1	0	1	
專題研究實驗(一)	Research on Special Topics-Laboratory Practice(I)	選修 Elective	2	2	0	專業實務選修 professional practice elective
專題研究實驗(二)	Research on Special Topics-Laboratory Practice(II)	選修 Elective	2	0	2	專業實務選修 professional practice elective
生醫學生的職涯規劃	Career Planning for Biomedical Students	選修 Elective	1	1	0	專業選修 professional electives
生物資訊學原理	Principle of Bioinformatics	選修 Elective	2	2	0	專業選修 professional electives
生醫藥妝品學與技術	Biomedical Cosmeceuticals and Technology	選修 Elective	2	0	2	專業選修 professional electives
大數據分析	Big Data Analysis	選修 Elective	2	2	0	
藥物質譜分析技術	Mass Spectrometry for Drug Testing	選修 Elective	2	2	0	
人工智慧與機器學習實務應用	Introduction to Artificial Intelligence and Machine Learning	選修 Elective	2	0	2	
檢測試劑開發概論	Introduction of diagnostic reagents development	選修 Elective	1	0	1	
生態學	Ecology	選修 Elective	2	0	2	

第 二 學 年 2nd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
進階Python程式設計	Advanced Python programming	選修 Elective	2	2	0	
由諾貝爾獎發現簡介分子生物學	Introduction to Molecular Biology Through Nobel Prize Discoveries	選修 Elective	2	0	2	
必修學分合計 Required Credits Subtotal			23	10	13	

第 三 學 年 3rd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
發育生物學	Developmental Biology	必修 Required	2	2	0	
生物資訊學	Bioinformatics	必修 Required	2	2	0	
微生物學及免疫學	Microbiology & Immunology	必修 Required	4	2	2	
微生物學及免疫學實驗	Microbiology & Immunology Laboratory	必修 Required	2	1	1	
人類遺傳學	Human Genetics	必修 Required	2	2	0	
文獻討論(一)	Seminar(I)	必修 Required	1	1	0	
文獻討論(二)	Seminar(II)	必修 Required	1	0	1	
神經生物學	Neurobiology	必修 Required	3	0	3	
生物技術學(一)	Biotechnology (I)	必修 Required	2	0	2	
分子遺傳學	Molecular Genetics	必修 Required	3	0	3	
專題研究實驗(三)	Research on Special Topics-Laboratory Practice(III)	選修 Elective	2	2	0	專業實務選修 professional practice elective
專題研究實驗(四)	Research on Special Topics-Laboratory Practice(IV)	選修 Elective	2	0	2	專業實務選修 professional practice elective
生技單元操作實驗(一)	Unit Operation Experiment in Biotechnology(I)	選修 Elective	2	2	0	專業實務選修 professional practice elective
生技單元操作實驗(二)	Unit Operation Experiment in Biotechnology(II)	選修 Elective	2	0	2	專業實務選修 professional practice elective
刑事鑑識概論	Introduction to Forensic Science	選修 Elective	2	2	0	專業選修 professional electives
酵素學	Enzymology	選修 Elective	2	0	2	專業選修 professional electives

第 三 學 年 3rd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
幹細胞醫學	Stem Cell Medicine	選修 Elective	2	0	2	專業選修 professional electives
生物製藥概論	Introduction to Biopharmaceuticals	選修 Elective	2	2	0	
腫瘤生物學	Cancer Biology	選修 Elective	2	2	0	
藥物化學概論	Introduction to Medicinal Chemistry	選修 Elective	2	2	0	
生醫蛋白質體學概論	Introduction to Proteomics in Biomedical Sciences	選修 Elective	2	2	0	
必修學分合計 Required Credits Subtotal			22	10	12	

第 四 學 年 4th Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
生物醫學文獻討論(一)	Seminar in Biomedical Sciences(I)	選修 Elective	1	1	0	
生物醫學文獻討論(二)	Seminar in Biomedical Sciences(II)	選修 Elective	1	0	1	
生物技術學(二)	Biotechnology (II)	選修 Elective	2	2	0	專業選修 professional electives
生技實習(一)	Practice in Biotechnology(I)	選修 Elective	2	2	0	專業實務選修 professional practice elective
生技實習(二)	Practice in Biotechnology(II)	選修 Elective	2	2	0	專業實務選修 professional practice elective
生物技術學(二)	Biotechnology (II)	選修 Elective	2	2	0	專業選修 professional electives
分子與生命	Molecules and Life	選修 Elective	2	0	2	專業選修 professional electives
生物科技與生活	Biotechnology and Life	選修 Elective	2	0	2	專業選修 professional electives
老化分子機制	Molecular Mechanism of Aging	選修 Elective	2	0	2	專業選修 professional electives
生技實習(一)	Practice in Biotechnology(I)	選修 Elective	2	2	0	
生技實習(二)	Practice in Biotechnology(II)	選修 Elective	2	2	0	
基因工程技術	Genetic Engineering	選修 Elective	2	2	0	

第 四 學 年
4th Academic Year

科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
藥理學概論	Introduction to Pharmacology	選修 Elective	2	0	2	
實驗動物醫學概論	Introduction to Laboratory Animal Medicine	選修 Elective	2	0	2	
生物科技與生活	Biotechnology and Life	選修 Elective	2	0	2	
必修學分合計 Required Credits Subtotal			0	0	0	
最低畢業學分數 71 學分，必修 63 學分，專業選修 6 學分、專業實務課程選修 2 學分 Minimum graduation credits: 71 credits, compulsory 63 credits, professional electives 6 credits, professional practice elective 2 credits						
說明 Instructions：						
1.	原主修學系與本系專業必修科目名稱內容相同者，須提供修課內容由本系系主任決定是否同意免修；免修通過後，應由本系指定其另修科目補足學分。 If the name and content of the required courses of the original major department are the same as those of this department, the student must provide the course content and the department head will decide whether to approve the exemption. If the exemption is approved, the department will designate another course to make up the credits.					
2.	至少選修 6 學分專業選修課程，始得畢業。 At least 6 credits of professional elective courses must be taken for graduation.					
3.	為強化學生銜接學術研究及就業的競爭力，本系學士班學生於畢業前，必須至少選修一門專業實務能力養成進階課且成績及格。專業實務能力養成進階課程包括「專題研究實驗(一)(二)(三)(四)」、「生技單元操作實驗(一)(二)」及「生技實習(一)(二)」，本學分不列入本系專業選修 6 學分。 Students are required to take at least one advanced practical skills development course and pass it before graduation to enhance their academic research and employment competitiveness. Courses include "Research Experiment (I)(II)(III)(IV)," "Biotechnology Unit Operation Experiment (I)(II)," and "Biotechnology Internship (I)(II)." These credits are not part of the professional elective 6-credit calculation.					
4.	原修習普通生物學及實驗學分數低於本系學分，得以專業選修補足。 If the original credits of general biology and experiments are lower than the credits of this department, they can be supplemented by elective majors.					

中山醫學大學

Chung Shan Medical University

114 學年度雙主修應修科目及學分表

Courses and Credits for Double Major in the 114th Academic Year

醫學科技學院視光學系

Department of Optometry ,College of Medical Science and Technology

第一學年 1 st Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
普通生物學(一)	General Biology (I)	必修 Required	2	2	0	
生理學	Physiology	必修 Required	2	2	0	
普通生物學(二)	General Biology (II)	必修 Required	2	0	2	
幾何光學	Geometric Optics	必修 Required	2	2	0	
幾何光學實驗	Geometric Optics Laboratory	必修 Required	1	1	0	
視光學(一)	Optometry (I)	必修 Required	2	0	2	
眼球解剖生理(一)	Ocular Anatomy and Physiology (I)	必修 Required	2	0	2	
※視光學實驗(一)	Optometric Laboratory (I)	必修 Required	1	0	1	
生理光學(一)	Physiological Optics (I)	必修 Required	2	0	2	
視覺科學導論(一)	Introduction to Visual Science(I)	選修 Elective	2	2	0	
視光學概論	Introduction to Optometry	選修 Elective	2	2	0	
視覺科學導論(二)	Introduction to Visual Science (II)	選修 Elective	2	0	2	
驗光法規與倫理	Optometry General Regulations and Ethics	選修 Elective	2	0	2	
必修學分合計 Required Credits Subtotal			16	7	9	

第二學年 2nd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
眼球解剖生理(二)	Ocular Anatomy and Physiology (II)	必修 Required	2	2	0	
※視光學實驗(二)	Optometric Laboratory (II)	必修 Required	1	1	0	

第 二 學 年 2nd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
視光學(二)	Optometry (II)	必修 Required	2	2	0	
視覺知覺學	Visual Perception	必修 Required	2	2	0	
生理光學(二)	Physiological Optics (II)	必修 Required	2	2	0	
生物化學(一)	Biochemistry(I)	必修 Required	2	2	0	
眼鏡光學	Ophthalmic Optics	必修 Required	2	0	2	
※視光學實驗(三)	Optometric Laboratory (III)	必修 Required	1	0	1	
視光學(三)	Optometry (III)	必修 Required	2	0	2	
生物化學(二)	Biochemistry (II)	必修 Required	2	0	2	
色彩視覺與立體視覺	Color and Stereopsis Vision	選修 Elective	2	0	2	
視覺健康食品生技	Biotechnology of Vision Health Foods	選修 Elective	2	0	2	
必修學分合計 Required Credits Subtotal			18	11	7	

第 三 學 年 3rd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
隱形眼鏡學	Contact Lens	必修 Required	4	2	2	
隱形眼鏡學實驗	Contact Lens Laboratory	必修 Required	2	1	1	
配鏡學	Ophthalmic Lens Dispensing	必修 Required	2	2	0	
配鏡學實驗	Ophthalmic Lens Dispensing Laboratory	必修 Required	2	2	0	
臨床視光學實驗	Clinical Optometry Laboratory	必修 Required	1	1	0	
眼科學	Ophthalmology	必修 Required	2	0	2	
低視力學	Low Vision	必修 Required	2	0	2	
雙眼視覺學	Binocular Vision	必修 Required	2	0	2	
幼兒視光	Child Optometry	選修 Elective	2	2	0	
視光檢查技巧與分析	Optometric examination skill and interpretation	選修 Elective	1	1	0	

第 三 學 年 3rd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
隱形眼鏡個案專題討論	Seminar in Contact Lens Case Conference/Report	選修 Elective	2	0	2	
必修學分合計 Required Credits Subtotal			17	8	9	

第 四 學 年 4th Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
臨床視光學	Clinical Optometry	必修 Required	2	(2)	(2)	
眼視光實習(一)	Practicum in Optometry (I)	必修 Required	8	(8)	(8)	
眼視光實習(二)	Practicum in Optometry (II)	必修 Required	8	(8)	(8)	
功能性視覺評估	Functional Vision Assessment	必修 Required	2	(2)	(2)	
視覺訓練臨床基礎	Basic Theories of Vision Training	選修 Elective	2	(2)	(2)	
低視力輔具的教導與使用	Low Vision Assistive Devices Training	選修 Elective	2	(2)	(2)	
視光產業儀器學	Optical Industry Instrumentation	選修 Elective	2	(2)	(2)	
視光產業與行銷	Industry and Marketing in Optometry	選修 Elective	2	(2)	(2)	
進階配鏡學	Advanced Spectacle Dispensing	選修 Elective	2	(2)	(2)	
必修學分合計 Required Credits Subtotal			20	(20)	(20)	

最低畢業學分數 71 學分，必修 71 學分

Minimum graduation credits: 71credits, compulsory 71credits

說明 Instructions：

1.	雙主修畢業學分數71學分(必修71學分)，始可取得雙主修畢業資格。 A double major graduation credit count is 71credits (71 credits required) to obtain double major graduation qualification.
2.	普通生物學(一)、普通生物學(二)、生理學、生物化學(一)、生物化學(二)，若所選課程為其原學系開設(非通識課符合課程名稱及學分數相同時，可免修本系雙主修系課程。 General Biology (I), General Biology (II), Physiology, Biochemistry (I), Biochemistry (II). If the selected courses are offered by their original departments (non-general courses with the same course names and credits, they can be exempted from taking the double major courses of this department.
3.	學生若需至校外選修相關課程，須為本校未開課之科目且經本系該科目授課教師同意方可認列為雙主修科目。 If students need to take related courses outside the school, they must be courses that are not offered by the school and must be approved by the teacher of the department before they can be recognized as double major courses.
4.	擋修課程以※標註，學期成績低於六十分者，擋修擋修「眼視光實習(一)」及「眼視光實習(二)」。 Courses that are blocked are marked with ※. Those who fail any of the subjects marked with ※ will be blocked from taking 「Practicum in Optometry (I)」 and 「Practicum in Optometry (II)」
5.	依前項規定免修後，應由本系指定其另修專業(門)必修或選修科目學分補足之。 After being exempted from the course in accordance with the provisions of the preceding paragraph, the department shall designate the student to take another major (discipline) as a required or elective course to make up the credits.

第 四 學 年 4th Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
6.	依本系實習辦法規定，未符合實習資格者，擋修第四學年之眼視光實習(一)及眼視光實習(二)。 According to the internship regulations of this department, those who do not meet the internship qualifications will be blocked from taking 「 Practicum in Optometry (I)」 and 「 Practicum in Optometry (II)」 in the fourth academic year.					
7.	本科目學分表均依照本校視光學系科目學分表制訂，如有變更依照視光學系科目學表為主。 The credit table of this course is formulated in accordance with the credit table of the Department of Optometry of our school. If there are any changes, the credit table of the Department of Optometry will prevail.					

中山醫學大學

Chung Shan Medical University

114 學年度雙主修應修科目及學分表

Courses and Credits for Double Major in the 114th Academic Year

醫學科技學院醫學影像暨放射科學系

Department of Medical Imaging and Radiological Sciences, College of Medical Science and Technology

第一學年 1 st Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
解剖學	Human Anatomy	必修 Required	2	2	0	
普通物理學	General Physics	必修 Required	2	2	0	
微積分	Calculus	必修 Required	2	2	0	
醫學影像原理	Principles of Medical Imaging	必修 Required	2	2	0	
醫用英文	English for Medical Professionals	必修 Required	2	2	0	
普通生物學(一)	General Biology	必修 Required	2	2	0	
生理學	Physiology	必修 Required	2	0	2	
應用數學(一)	Applied Mathematics(I)	必修 Required	2	0	2	
醫學影像傳輸系統	Pictures Archiving and Communication Systems	必修 Required	2	0	2	
普通生物學(二)	General Biology	必修 Required	2	0	2	
普通物理學實驗	General Physics Laboratory	必修 Required	1	0	1	
生理學實驗	Physiology Laboratory	必修 Required	1	0	1	
必修學分合計 Required Credits Subtotal			22	12	10	

第二學年 2 nd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
放射物理學	The Physics of Radiology	必修 Required	4	2	2	
輻射安全學	Radiation Protection	必修 Required	2	2	0	
超音波技術學	Ultrasonography Technology	必修 Required	2	2	0	

第 二 學 年 2nd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
放射生物學	Radiobiology	必修 Required	2	2	0	
切面解剖學	Sectional Anatomy	必修 Required	2	2	0	
生物統計應用軟體實務	Biostatistics Application Software Practice	必修 Required	2	2	0	
臨床見習	Clinical Observation	必修 Required	1	1	0	
放射化學	Radiochemistry	必修 Required	2	0	2	
醫學影像處理	Medical Image Processing	必修 Required	2	0	2	
放射腫瘤學	Radiation Oncology	必修 Required	2	0	2	
放射藥品學	Radiopharmaceuticals	必修 Required	2	0	2	
醫學影像病理學	Medical Imaging Pathology	必修 Required	2	0	2	
醫學影像處理實驗	Medical Image Processing Laboratory	必修 Required	1	0	1	
超音波技術學實驗	Ultrasonography Technology Laboratory	必修 Required	1	0	1	
必修學分合計 Required Credits Subtotal			27	13	14	

第 三 學 年 3rd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
醫學物理	Medical Physics	必修 Required	2	2	0	
核子醫學原理及儀器學	Principle and Instrumentation of Nuclear Medicine	必修 Required	2	2	0	
磁振原理及儀器學	Principle of MRI and Instruments	必修 Required	2	2	0	
放射治療儀器學	Instrumentation of Radiation Therapy	必修 Required	2	2	0	
電腦斷層掃描原理與技術學	Principle and Technology of Computed Tomography	必修 Required	2	2	0	
放射診斷攝影原理與設備學	Principle and Instrumentation of Radiography	必修 Required	2	2	0	
輻射度量	Radiation Measurement	必修 Required	1	1	0	
放射診斷攝影原理與設備學實驗	Principle and Instrumentation of Radiography Laboratory	必修 Required	1	1	0	
書報討論	Discussion in Literature	必修 Required	2	0	2	
核子醫學技術學	Nuclear Medicine Technology	必修 Required	2	0	2	

第 三 學 年 3rd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
放射治療技術學	Radiation Therapy Technology	必修 Required	2	0	2	
磁共振技術學	Technology of Magnetic Resonance Imaging	必修 Required	2	0	2	
放射線特殊攝影技術學	Special Radiographic Technology	必修 Required	2	0	2	
放射診斷攝影技術學	Technology of Radiography	必修 Required	2	0	2	
醫學影像臨床英文	Clinical English of Medical Imaging	必修 Required	1	0	1	
※放射診斷攝影技術學實驗	Technology of Radiography Laboratory	必修 Required	1	0	1	
必修學分合計 Required Credits Subtotal			28	14	14	

第 四 學 年 4th Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
醫學影像診斷技術學實習(含一般 X 光、牙科攝影、C T、M R I、U S、輻射安全)	Practicum in Diagnosis Medical Imaging Techniques (Including General X-ray, Dental Radiography, Computed Tomography, Magnetic Resonance Imaging, Ultrasound, Radiation Safety)	必修 Required	7	7	0	
放射治療技術學實習(含臨床放射治療、治療劑量與計畫、模型製作與模擬攝影)	Practicum in Radiation Therapy Techniques (Including Clinical Radiotherapy, Radiotherapy Dosage and Planning, Model Setting and Simulation Setting)	必修 Required	3	3	0	
核子醫學技術學實習(含核醫造影、R I A、核醫藥物、放射性同位素治療)	Practicum in Nuclear Medicine Techniques(Including Nuclear Medicine Imaging Echniques, Radioimmunoassay, Nuclear Medicine Pharmacology, Radioisotope Therapy)	必修 Required	3	3	0	
醫事放射倫理	Medical Radiologist Ethics	必修 Required	1	0	1	
必修學分合計 Required Credits Subtotal			14	13	1	

最低畢業學分數 91 學分，必修 91 學分，選修 0 學分

Minimum graduation credits: 91 credits, compulsory 91 credits, elective 0 credits

說明 Instructions：

1.	<p>達本系實習資格，即必要先修課程(以※標註)及格，且一至三年級前五學期未通過之必修科目少於(不含)六學分者，始安排第四學年臨床實習(醫學影像診斷技術學實習、放射治療技術學實習、核子醫學技術學實習)。</p> <p>To qualify for clinical internships, students must have passed all prerequisite courses (indicated with ※) and have fewer than six credits of failed required courses during the first five semesters of the first to third academic years. Only students who meet these criteria will be scheduled for clinical internships in the fourth academic year, including Practicum in Diagnosis Medical Imaging Techniques, Practicum in Radiation Therapy Techniques, and Practicum in Nuclear Medicine Techniques.</p>
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第 四 學 年 4th Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
2.	本科目學分表均依照本校醫學影像暨放射科學系科目學分表制訂，如有變更，依照醫學影像暨放射科學系科目學分表為主。 The curriculum credit structure for this program is based on the Course and Credit Table of the Department of Medical Imaging and Radiological Sciences. In the event of any changes, the most recent version of the Department's Course and Credit Table shall prevail.					

中山醫學大學

Chung Shan Medical University

114 學年度雙主修應修科目及學分表

Courses and Credits for Double Major in the 114th Academic Year

健康管理學院營養系

Department of Nutrition, College of Health Care and Management

第一學年

1st Academic Year

科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
營養暨食品科技概論	Introduction to Nutrition and Food Science	必修 Required	2	2	0	
普通化學暨實驗	Chemistry General Chemistry & Experiments of General	必修 Required	2	2	0	
有機化學暨實驗	Introduction to Organic Chemistry and Lab	必修 Required	2	2	0	
普通生物學	General Biology	必修 Required	2	0	2	
食物學原理	Principles of Food	必修 Required	2	0	2	
分析化學暨實驗	Analytical Chemistry & Experiments of Analytical Chemistry	必修 Required	2	0	2	
普通生物學實驗	General Biology Laboratory	必修 Required	1	0	1	
食物學原理實驗	Principles of Food Laboratory	必修 Required	1	0	1	
解剖學	Human Anatomy	選修 Elective	2	2	0	
營養職涯	Careers for Nutritionists and Dieticians	選修 Elective	2	2	0	
運動營養學概論	Introduction to Sports Nutrition	選修 Elective	2	2	0	
蔬果營養與健康	Health Concepts of Vegetables and Fruits	選修 Elective	2	0	2	
營養推廣實務	Nutrition Promotion Practices	選修 Elective	2	0	2	
必修學分合計 Required Credits Subtotal			14	6	8	

第二學年

2nd Academic Year

科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
營養學	Nutrition	必修 Required	4	2	2	

第 二 學 年 2nd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
生理學	Physiology	必修 Required	2	2	0	
生物統計學	Biostatistics	必修 Required	2	2	0	
生物化學(一)	Biochemistry(I)	必修 Required	2	2	0	
營養學實驗	Nutrition Laboratory	必修 Required	2	1	1	
生物化學實驗	Biochemistry Laboratory	必修 Required	1	1	0	
生理學實驗	Physiology Laboratory	必修 Required	1	1	0	
營養實習-基礎	Practicum in Dietetic - Basic	必修 Required	1	1	0	
食品微生物學暨實驗	Food Microbiology & Food Microbiology Laboratory	必修 Required	3	0	3	
食品化學	Food Chemistry	必修 Required	2	0	2	
生物化學(二)	Biochemistry(II)	必修 Required	2	0	2	
食品化學實驗	Food Chemistry Laboratory	必修 Required	1	0	1	
膳食設計管理暨實驗	Meal Planning and Management Laboratory	必修 Required	1	0	1	
文獻導讀	Introduction to Scientific Literature Reading	選修 Elective	2	2	0	
營養教育	Nutritional Education	選修 Elective	2	2	0	
點心製作	Dessert Preparation	選修 Elective	2	2	0	
脂肪與疾病	Lipid and Diseases	選修 Elective	2	2	0	
嬰幼兒期營養與膳食	Nutrition and Meal Design in Infant and Early Childhood	選修 Elective	2	2	0	
臨床資料分析入門	Introduction to Clinical Data Analysis	選修 Elective	2	2	0	
病理學	Pathology	選修 Elective	2	0	2	
運動營養學	Sport Nutrition	選修 Elective	2	0	2	
慢性病與營養	Chronic Diseases and Nutrition	選修 Elective	2	0	2	
營養午餐設計與規劃	Design and Management of Nutrition School Lunch	選修 Elective	2	0	2	
醣類代謝	Carbohydrate Metabolism	選修 Elective	2	0	2	
飲食資料分析與應用	Analysis of Food Information	選修 Elective	2	0	2	
營養與體重管理	Nutrition for Weight Management	選修 Elective	2	0	2	

第 二 學 年 2nd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
專題研究（一）	Independent Study (I)	選修 Elective	1	0	1	
精準營養學	Precision Nutrition	選修	2	0	2	
寵物營養與管理	Pet Nutrition and Management	選修	2	2	0	
必修學分合計	Required Credits Subtotal		24	12	12	

第 三 學 年 3rd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
膳食療養學	Nutrition and Diet Therapy	必修 Required	6	3	3	
食品衛生與安全	Food Sanitation and Safety	必修 Required	3	3	0	
社區營養學	Nutrition in the Community	必修 Required	2	2	0	
團體膳食製備與管理	Quantity Food Production, Planning and Management	必修 Required	2	2	0	
膳食療養學實驗	Therapeutic Nutrition Laboratory	必修 Required	2	1	1	
食品衛生與安全實驗	Food Sanitation and Safety Laboratory	必修 Required	1	1	0	
團體膳食製備與管理實驗	Quantity Food Production, Planning and Management Laboratory	必修 Required	1	1	0	
生命期營養	Nutrition through the Life Cycle	必修 Required	3	0	3	
臨床營養	Clinical Nutrition	必修 Required	2	0	2	
營養評估	Nutrition Assessment	必修 Required	2	0	2	
重症營養	Nutrition in Critical Care	選修 Elective	2	2	0	
營養化學	Nutritional Chemistry	選修 Elective	2	2	0	
營養與癌症	Nutrition & Cancer	選修 Elective	2	2	0	
糖尿病概論	Introduction to Diabetes Mellitus	選修 Elective	2	2	0	
臨床營養實務	Practice Training for Hospital Dietitian-basic	選修 Elective	2	2	0	
老人營養概論	Introduction to Elderly Nutrition	選修 Elective	2	2	0	
管灌營養	Enteral Nutrition	選修 Elective	2	0	2	

第 三 學 年 3rd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
靜脈營養	Parenteral Nutrition	選修 Elective	2	0	2	
長期照護營養	Nutrition Therapy for Long Term Care	選修 Elective	2	0	2	
臨床試驗與報告	Clinical Trials and Reports	選修 Elective	2	0	2	
免疫學概論	Introduction to Immunology	選修 Elective	2	0	2	
臨床案例分析	Clinical Case Study	選修 Elective	2	0	2	
營養專業人員臨床技能演練與 評量	OSCE (Objective Structured Clinical Examination) for Nutrition Professionals	選修 Elective	2	0	2	
專題研究 (二)	Independent Study (II)	選修 Elective	1	0	1	
必修學分合計 Required Credits Subtotal			24	13	11	

第 四 學 年 4th Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
食品加工	Food Processing	必修 Required	2	2	0	
食品加工實驗	Food Processing Laboratory	必修 Required	1	1	0	
專題討論(一)	Seminar(I)	必修 Required	1	1	0	
食品分析暨實驗	Food Analysis & Food Analysis Laboratory	必修 Required	3	0	3	
專題討論(二)	Seminar (II)	必修 Required	1	0	1	
營養實習-臨床營養	Practicum in Dietetic - Clinical Nutrition	選修 Elective	6	6	0	
營養與免疫	Nutrition and Immunity	選修 Elective	2	2	0	
營養生化	Nutritional Biochemistry	選修 Elective	2	2	0	
食品安全管制系統	Food Safety Control System	選修 Elective	2	2	0	
食物與藥物的相互作用	Interaction of Food and Drug	選修 Elective	2	0	2	
乳品學	Dairy	選修 Elective	2	0	2	
食品工廠管理	Food Factory Management	選修 Elective	2	0	2	
專題研究 (三)	Independent Study (III)	選修 Elective	1	0	1	

第 四 學 年 4th Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
肌力與體能支持之運動營養實務	Applied Sports Nutrition for Strength and Conditioning	選修 Elective	2	2	0	
必修學分合計	Required Credits Subtotal		8	4	4	
最低畢業學分數 94 學分，必修 70 學分，選修 24 學分 Minimum graduation credits: 128 credits, compulsory 70 credits, elective 24 credits						
說明 Instructions：						
本系選修至少須滿 24 學分，微學程之課程，不得列計系選修。 students must complete at least 24 elective credits within the department. Micro-credential Program cannot be counted toward the departmental elective requirements.						

中山醫學大學

Chung Shan Medical University

114 學年度雙主修應修科目及學分表

Courses and Credits for Double Major in the 114th Academic Year

健康管理學院職業安全衛生學系

Department of Occupational Safety and Health, College of Health Care and Management

第一學年

1st Academic Year

科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
微積分	Calculus	必修 Required	2	2	0	
職業安全衛生概論	Introduction to Occupational Safety & Health	必修 Required	2	2	0	
普通物理學	General Physics	必修 Required	2	0	2	
生命醫學導論	Introduction to Life Medicine	必修 Required	2	0	2	
統計學(一)	Statistics(I)	必修 Required	2	0	2	
環境化學概論	Introduction to Environmental Chemistry	必修 Required	2	0	2	
環境化學實驗	Environmental Chemistry Experiment	必修 Required	1	0	1	
必修學分合計 Required Credits Subtotal			13	4	9	

第二學年

2nd Academic Year

科目名稱 Course Name in Chinese	英文科目名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
工業安全工程	Industrial Safety Engineering	必修 Required	2	2	0	
防火防爆學	Fire and Explosion Protection	必修 Required	2	2	0	
工業毒物學	Industrial Toxicology	必修 Required	2	2	0	
統計學(二)	Statistics(II)	必修 Required	2	2	0	
作業環境測定(一)	Workplace Monitoring (I)	必修 Required	2	2	0	
作業環境測定實驗(一)	Workplace Monitoring Laboratory(I)	必修 Required	1	1	0	
工業通風	Industrial Ventilation	必修 Required	2	0	2	

第 二 學 年 2nd Academic Year						
科目名稱 Course Name in Chinese	英文科目名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
噪音與振動	Noise and Vibration	必修 Required	2	0	2	
機電防護	Machinery and Electrical Safety	必修 Required	2	0	2	
熱力學	Thermodynamics	必修 Required	2	0	2	
儀器分析概論	Introduction to Instrumental Analysis	必修 Required	2	0	2	
作業環境測定(二)	Workplace Monitoring(II)	必修 Required	2	0	2	
作業環境測定實驗(二)	Workplace Monitoring Laboratory(II)	必修 Required	1	0	1	
必修學分合計 Required Credits Subtotal			24	11	13	

第 三 學 年 3rd Academic Year						
科目名稱 Course Name in Chinese	英文科目名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
人因工程	Ergonomics	必修 Required	2	2	0	
生物偵測	Biological Monitoring	必修 Required	2	2	0	
危害風險評估	Risk Assessment on Safety	必修 Required	2	2	0	
儀器分析實驗	Instrumental Analysis Laboratory	必修 Required	1	1	0	
專題研究(一)	Independent Study(I)	必修 Required	1	1	0	
職業安全衛生法規	Occupational Safety and Health Laws	必修 Required	3	0	3	
健康風險評估	Health Risk Assessment	必修 Required	2	0	2	
工業安全管理	Industrial Safety Management	必修 Required	2	0	2	
衛生管理實務	Health Management and Practice	必修 Required	2	0	2	
專題研究(二)	Independent Study (II)	必修 Required	1	0	1	
必修學分合計 Required Credits Subtotal			18	8	10	

第 四 學 年

4th Academic Year

科目名稱 Course Name in Chinese	英文科目名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
安全衛生實務實習	Practicum in Occupational Safety and Health	必修 Required	4	4	0	
作業環境控制工程	Workplace Environmental Control Engineering	必修 Required	2	2	0	
廠礦安全與評鑑實務	Industry Safety and Evaluation Practice	必修 Required	2	2	0	
安全衛生書報討論	Occupational Safety and Health Seminar	必修 Required	1	1	0	
專題研究（三）	Independent Study (III)	必修 Required	1	1	0	
危險性機械設備安全	The Safety of High Risk Machinery and Equipment	必修 Required	2	2	0	
有害物質管理策略	Hazardous Materials Management Strategy	必修 Required	2	0	2	
專題研究(四)	Independent Study (IV)	必修 Required	1	0	1	
必修學分合計 Required Credits Subtotal			15	12	3	
最低畢業學分數 98 學分，必修 70 學分，選修 28 學分 Minimum graduation credits: 98 credits, compulsory 70 credits, elective 28 credits						
說明 Instructions：						
1.	修讀雙主修學生應修滿加修學系全部專業必修科目學分數及本系開設選修科目 28 學分。 Students pursuing a double major must complete all required core courses of the additional major, as well as 28 elective credits offered by faculty members of this department。					

中山醫學大學

Chung Shan Medical University

114 學年度雙主修應修科目及學分表

Courses and Credits for Double Major in the 114th Academic Year

健康管理學院醫學資訊學系

Department of Medical Informatics, College of Health Care and Management

第一學年

1st Academic Year

科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 Semester Credits	第二 學期 Semester Credits	備註 Remarks
醫學資訊概論	Introduction to Medical Information	必修 Required	3	3	0	
微積分	Calculus	必修 Required	4	2	2	
管理學	Management	必修 Required	2	2	0	
物件導向程式設計(一)	Object-Oriented Programming (I)	必修 Required	3	0	3	
計算機組織與結構	Computer Architecture and Organization	必修 Required	3	0	3	
醫務管理概論	Introduction to Health Care Management	必修 Required	2	0	2	
線性代數	Linear Algebra	必修 Required	2	0	2	
必修學分合計 Required Credits Subtotal			19	7	12	

第二學年

2nd Academic Year

科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 Semester Credits	第二 學期 Semester Credits	備註 Remarks
機率與統計	Probability and Statistics	必修 Required	3	3	0	
資料結構	Data Structure	必修 Required	3	3	0	
臨床醫學網路暨資訊安全	Network and Information Security in Clinical Medicine	必修 Required	3	3	0	
健康雲與大數據	Health Cloud and Big Data	必修 Required	2	2	0	
作業系統	Operating Systems	必修 Required	3	0	3	
資料庫系統	Database System Analysis and Design	必修 Required	3	0	3	
研究方法與生醫資料分析	Research Methods and Biomedical Data Analysis	必修 Required	3	0	3	
醫用程式語言	Programming Language for Hospital	必修 Required	3	0	3	

第 二 學 年 2nd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 Semester Credits	第二 學期 Semester Credits	備註 Remarks
必修學分合計 Required Credits Subtotal			23	11	12	

第 三 學 年 3rd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 Semester Credits	第二 學期 Semester Credits	備註 Remarks
資料庫管理系統	Database Management System	必修 Required	3	3	0	
醫用資訊系統分析與設計	Medical Information System Analysis and Design	必修 Required	3	3	0	
管理資訊系統	Management Information Systems	必修 Required	2	2	0	
實習	Internship	必修 Required	4	0	4	
醫用行動軟體設計	Mobile APP Design in Medical Application	必修 Required	3	0	3	
醫療資訊管理	Medical Information Management	必修 Required	2	0	2	
醫療系統安全	Medical Information System Security	必修 Required	2	0	2	
醫學資訊專題(一)	Independent Study in Medical Informatics(I)	必修 Required	1	0	1	
必修學分合計 Required Credits Subtotal			20	8	12	

第 四 學 年 4th Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 Semester Credits	第二 學期 Semester Credits	備註 Remarks
書報討論(一)	Discussion in Literature (I)	必修 Required	1	1	0	
醫學資訊專題(二)	Independent Study in Medical Informatics(II)	必修 Required	1	1	0	
書報討論(二)	Discussion in Literature (II)	必修 Required	1	0	1	
必修學分合計 Required Credits Subtotal			3	2	1	
最低畢業學分數 65 學分，必修 65 學分 Minimum graduation credits: 65 credits, compulsory 65 credits						

第 四 學 年 4th Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 Semester Credits	第二 學期 Semester Credits	備註 Remarks
<p>說明 Instructions：</p> <p>經核准修讀雙主修學生，應修滿本系全部必修科目學分及通過本系程式設計能力畢業資格檢定。</p> <p>Students who are approved to pursue a double major must complete all required credits for the compulsory courses in this department and pass the department's programming proficiency graduation qualification assessment.</p>						

中山醫學大學

Chung Shan Medical University

114 學年度雙主修應修科目及學分表

Courses and Credits for Double Major in the 114th Academic Year

健康管理學院應用外國語言學系

Department of Applied Foreign Languages, College of Health Care and Management

第一學年

1st Academic Year

科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
初級日文	Elementary Japanese	必修 Required	8	4	4	
英文翻譯技巧	English Translation Techniques	必修 Required	2	2	0	
初級英文文法與寫作(一)	Elementary English Grammar & Composition(I)	必修 Required	2	2	0	
英語溝通技巧	English Communication Skills	必修 Required	2	2	0	
初級英文文法與寫作(二)	Elementary English Grammar & Composition(II)	必修 Required	2	0	2	
英美文學作品賞析	English Literature Study	必修 Required	2	0	2	
英語演說訓練	English Speech Training	必修 Required	2	0	2	
英文字彙與閱讀技巧	English Vocabulary & Reading Skills	必修 Required	2	0	2	
必修學分合計 Required Credits Subtotal			22	10	12	

第二學年

2nd Academic Year

科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
中級日文	Intermediate Japanese	必修 Required	6	4	2	
日語會話	Japanese Conversation	必修 Required	4	2	2	
英語教學法	English Teaching Methodology	必修 Required	4	2	2	
中級英文寫作	Intermediate English Composition	必修 Required	2	2	0	
中級英語會話(一)	Intermediate English Conversation(I)	必修 Required	2	2	0	

第 二 學 年 2nd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
創意數位行銷英文	English for Creative Digital Marketing	必修 Required	2	2	0	
中級英語會話(二)	Intermediate English Conversation(II)	必修 Required	2	0	2	
語言學概論(一)	Introduction to Linguistics(I)	必修 Required	2	0	2	
日語句型與文法	Japanese Sentence Patterns and Grammar	必修 Required	2	0	2	
必修學分合計 Required Credits Subtotal			26	14	12	

第 三 學 年 3rd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
語言發展與第二語言習得	Language Development & Second Language Acquisition	必修 Required	4	2	2	
高級英語會話	Advanced English Conversation	必修 Required	2	2	0	
日語語法(一)	Japanese Grammar (I)	必修 Required	2	2	0	
高級日文	Advanced Japanese	必修 Required	2	2	0	
醫護英文（一）	Medical-Nursing English (I)	必修 Required	2	2	0	
商用英文寫作	Business English Composition	必修 Required	2	2	0	
日語語法(二)	Japanese Grammar (II)	必修 Required	2	0	2	
醫護英文（二）	Medical-Nursing English (II)	必修 Required	2	0	2	
高級英文寫作:論文寫作	Advanced English Composition: Research Paper Writing	必修 Required	2	0	2	
醫護日文	Medical-Nursing Japanese	必修 Required	2	0	2	
時事日文	News in Japanese	必修 Required	2	0	2	
必修學分合計 Required Credits Subtotal			24	12	12	

第 四 學 年 4th Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
英文筆譯	English Written Translation	必修 Required	2	2	0	
商用日文寫作	Business Japanese Composition	必修 Required	2	2	0	
日文筆譯	Japanese Written Translation	必修 Required	2	0	2	
英語口譯	English Oral Translation	必修 Required	2	0	2	
必修學分合計 Required Credits Subtotal			8	4	4	
最低畢業學分數 80 學分，必修 80 學分 Minimum graduation credits: 80 credits, compulsory 80 credits						
說明 Instructions：						
<p>一、 其他規定: 若報名人數超額時，由系主任審查核定錄取名單。</p> <p>Other Regulations: In the event of over-enrollment, the final list of admitted students will be reviewed and approved by the Department Chair.</p> <p>二、修讀雙主修學生，除應修滿本系全部應修必修科目學分，且「<u>英日文能力</u>」必須達到「<u>本系外語能力檢測暨畢業資格實施辦法</u>」之檢測標準或規定，經考核成績合格，始可取得雙主修資格。</p> <p>Double Major Requirements: Students pursuing a double major must complete all required core courses of this department. In addition, <u>their English and Japanese language proficiency must meet the standards set by the department's "Foreign Language Proficiency Assessment and Graduation Requirements Policy."</u> Only upon passing the assessment can students be officially granted the double major qualification.</p>						

中山醫學大學

Chung Shan Medical University

114 學年度雙主修應修科目及學分表

Courses and Credits for Double Major in the 114th Academic Year

健康管理學院公共衛生學系

Department of Public Health, College of Health Care and Management

第一學年

1st Academic Year

科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
公共衛生導論	Introduction to Public Health	必修 Required	2	2	0	
管理學	Management	必修 Required	2	2	0	
人口學與公共衛生	Demography and Public Health	必修 Required	2	2	0	
生物統計學(一)	Biostatistics(I)	必修 Required	2	2	0	
環境科學概論	Introduction to Environmental Sciences	必修 Required	2	0	2	
環境衛生學(一)	Environmental Health(I)	必修 Required	2	0	2	
當代公共衛生議題	Current Public Health Issues	必修 Required	2	0	2	
流行病學(一)	Epidemiology(I)	必修 Required	2	0	2	
生物統計學(二)	Biostatistics (II)	必修 Required	2	0	2	
必修學分合計 Required Credits Subtotal			18	8	10	

第二學年

2nd Academic Year

科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
行為科學	Behavioral Science	必修 Required	2	2	0	
環境化學	Environmental Chemistry	必修 Required	2	2	0	
健康管理概論	Introduction to Health Administration	必修 Required	2	2	0	
環境衛生學(二)	Environmental Health(II)	必修 Required	2	2	0	
流行病學(二)	Epidemiology(II)	必修 Required	2	2	0	

第 二 學 年 2nd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
衛生教育	Health Education	必修 Required	2	0	2	
生物統計實務	Biostatistics Practice	必修 Required	2	0	2	
流行病學實例討論	Case Study on Epidemiology	必修 Required	2	0	2	
公衛期刊論文導讀	Introduction to Public Health Journals	必修 Required	2	0	2	
必修學分合計 Required Credits Subtotal			18	10	8	

第 三 學 年 3rd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
公共衛生行政	Public Health Administration	必修 Required	2	2	0	
傳染病防治	Illustrated and Management of Infectious Disease	必修 Required	2	2	0	
資料分析	Data Analysis	必修 Required	2	2	0	
室內空氣品質	Indoor Air Quality	必修 Required	2	2	0	
醫事與衛生法規	Medical and Hygiene Regulations	必修 Required	2	0	2	
社區保健	Community Health	必修 Required	2	0	2	
風險評估	Risk Assessment	必修 Required	2	0	2	
研究方法與研究設計實驗(一)	Research Methods and Design Internship (I)	必修 Required	2	0	2	
空氣污染	Air Pollution	必修 Required	2	0	2	
必修學分合計 Required Credits Subtotal			18	8	10	

第 四 學 年

4th Academic Year

科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
公共衛生實習	Public Health Internship	必修 Required	3	3	0	
健康促進	Health Promotion	必修 Required	2	2	0	
研究方法與研究設計實驗(二)	Research Methods and Design Internship (II)	必修 Required	2	2	0	
醫療保健制度	Medical Treatment Delivery System	必修 Required	2	2	0	
論文研究	Seminar	必修 Required	2	0	2	
必修學分合計 Required Credits Subtotal			11	9	2	
最低畢業學分數 85 學分，必修 65 學分，選修 20 學分 Minimum graduation credits: 85 credits, compulsory 65 credits, elective 20 credits						
說明 Instructions：						
1. 修讀雙主修學生應修滿加修學系全部專業必修科目學分數及本系開設選修科目 20 學分。 Students pursuing a double major must complete all required core courses of the additional major, as well as 20 elective credits offered by faculty members of this department						

中山醫學大學

Chung Shan Medical University

114 學年度雙主修應修科目及學分表

Courses and Credits for Double Major in the 114th Academic Year

健康管理學院健康產業科技管理學系

Department of Health Industry Technology Management, College of Health Care and Management

第一學年

1st Academic Year

科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
營養學	Nutrition	必修 Required	2	2	0	
健康經濟學	Health Economics	必修 Required	2	2	0	
餐飲管理	Food and Beverage Management	必修 Required	2	2	0	
食品微生物學	Food Microbiology	必修 Required	2	2	0	
營養學實務概論	Introduction to Nutrition Practice	必修 Required	2	2	0	
食品微生物學實驗	Food Microbiology Laboratory	必修 Required	1	1	0	
食物製備原理	Principles of Food Preparation	必修 Required	2	0	2	
管理學	Management	必修 Required	2	0	2	
統計學	Statistics	必修 Required	2	0	2	
食物製備創新與管理	Food Preparation Innovation and Management	必修 Required	2	0	2	
食品良好衛生規範準則	The Regulations on Good Hygiene Practice for Food	必修 Required	2	0	2	
保健食品開發概論	Introduction to Health Food Development	必修 Required	2	0	2	
必修學分合計 Required Credits Subtotal			23	11	12	

第二學年

2nd Academic Year

科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
會計學	Accounting	必修 Required	2	2	0	
健康食品學	Health Food Science	必修 Required	2	2	0	

第 二 學 年 2nd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
基礎中餐烹調與管理	Basic Chinese Cuisine Preparation and Management	必修 Required	2	2	0	
食品衛生安全	Food Sanitation and Safety	必修 Required	2	2	0	
食品生物化學	Food Biochemistry	必修 Required	2	2	0	
基礎中餐烹調與管理實驗	Basic Chinese Cuisine Preparation and Management Laboratory	必修 Required	1	1	0	
人力資源管理	Human Resource Management	必修 Required	2	0	2	
食品化學	Food Chemistry	必修 Required	2	0	2	
行銷學	Marketing	必修 Required	2	0	2	
食品分析	Food Analysis	必修 Required	2	0	2	
食品加工學	Food Processing	必修 Required	2	0	2	
營養生化學	Nutritional Biochemistry	必修 Required	2	0	2	
食品分析實驗	Food Analysis Laboratory	必修 Required	1	0	1	
必修學分合計 Required Credits Subtotal			24	11	13	

第 三 學 年 3rd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
財務管理	Financial Management	必修 Required	2	2	0	
食品冷凍學	Frozen Food	必修 Required	2	2	0	
創新與創業管理	Innovation and Entrepreneur-ship Management	必修 Required	2	2	0	
食品衛生安全實驗	Food Sanitation and Safety Laboratory	必修 Required	1	1	0	
食品安全管制系統	Food Safety Control System	必修 Required	2	2	0	
健康促進與疾病預防	Health Promotion and Disease Prevention	必修 Required	3	3	0	
團體膳食設計	Quantity Food Preparation and Management	必修 Required	2	0	2	
會展規劃與管理	Exhibition Planning and Management	必修 Required	2	0	2	

第 三 學 年 3rd Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
健康產業專案報告	Seminar in Health Industry	必修 Required	2	0	2	
食品加工學實驗	Food Processing Laboratory	必修 Required	1	0	1	
食品與保健醫學	Food and Health Medicine	必修 Required	2	0	2	
必修學分合計 Required Credits Subtotal			21	12	9	

第 四 學 年 4th Academic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
健康產業科技書報討論	Seminar in the Health Industry Technology	必修 Required	2	2	0	
健康產業管理實習	Practicum in Health Industry Management	必修 Required	2	2	0	
健康產業科技專題講座	Special Lecture on the Career Planning of Health Industry Technology	必修 Required	2	0	2	
必修學分合計 Required Credits Subtotal			6	4	2	
最低畢業學分數 74 學分，必修 74 學分 Minimum graduation credits: 74 credits, compulsory 74 credits						
說明 Instructions：						
經核准修讀雙主修學生，應修滿本系全部專業必修科目學分。 Students approved for a double major are required to complete all core required courses of this department.						

中山醫學大學

Chung Shan Medical University

114 學年度雙主修應修科目及學分表

Courses and Credits for Double Major in the 114th Academic Year

健康管理學院醫療產業科技管理學系

Department of Health Policy and Management, College of Health Care and Management

第一學年

1st Academic Year

科目名稱 Course Name in Chinese	英文科目名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
管理學	Management	必修 Required	3	3	0	
微積分	Calculus	必修 Required	4	2	2	
會計學	Accounting	必修 Required	4	2	2	
經濟學	Economics	必修 Required	2	2	0	
醫院管理實務	Hospital Management Practice	必修 Required	2	2	0	
套裝軟體－MS EXCEL	Software Package - MS EXCEL	必修 Required	2	2	0	
醫療產業科技管理論壇	Health Industry Technology Management Forum	必修 Required	1	1	0	
組織行為	Organizational Behavior	必修 Required	3	0	3	
生理學	Physiology	必修 Required	2	0	2	
醫務管理概論	Introduction to Health Care Management	必修 Required	2	0	2	
必修學分合計 Required Credits Subtotal			25	14	11	

第二學年

2nd Academic Year

科目名稱	英文科目名稱 Course	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
統計學	Statistics	必修 Required	4	2	2	
行動裝置程式設計	Mobile App Development	必修 Required	2	2	0	
臨床醫學概論	Introduction to Clinical Medicine	必修 Required	2	2	0	
醫療經濟學	Health Economics	必修 Required	2	2	0	
病歷與疾病管理	Medical Records and Diseases Management	必修 Required	2	2	0	

第 二 學 年 2nd Academic Year						
科目名稱	英文科目名稱 Course	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
衛生醫療制度	Health Care System	必修 Required	3	0	3	
醫事與衛生法規	Medical and Hygiene Regulations	必修 Required	2	0	2	
人力資源管理	Human Resource Management	必修 Required	2	0	2	
研究方法與研究設計	Research Methods and Design	必修 Required	2	0	2	
衛生行政	Public Health Administration	必修 Required	2	0	2	
必修學分合計 Required Credits Subtotal			23	10	13	

第 三 學 年 3rd Academic Year						
科目名稱	英文科目名稱 Course	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
流行病學	Epidemiology	必修 Required	2	2	0	
健康保險	Health Insurance	必修 Required	2	2	0	
醫療管理會計	Healthcare Managerial Accounting	必修 Required	2	2	0	
醫療行銷管理	Healthcare Marketing Management	必修 Required	2	2	0	
社區照護管理	Community Care Management	必修 Required	2	2	0	
管理數學	Management Mathematics	必修 Required	2	2	0	
醫療品質管理	Healthcare Quality Management	必修 Required	2	0	2	
健康資料庫管理與分析	Healthcare Database Management and Analysis	必修 Required	2	0	2	
資材及供應鏈管理	Material and Supply Chain Management	必修 Required	2	0	2	
作業管理	Operation Management	必修 Required	2	0	2	
醫療產業政策分析	Health System Policy Analysis	必修 Required	2	0	2	
科技管理	Technology Management	必修 Required	2	0	2	
必修學分合計 Required Credits Subtotal			24	12	12	

第 四 學 年

4th Academic Year

科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
醫務管理實習	Practicum in Health Services Management	必修 Required	4	4	0	
醫務策略管理	Health Services Strategic Management	必修 Required	2	2	0	
論文研究	Seminar	必修 Required	2	1	1	
醫療資訊學	Health Care Information	必修 Required	2	0	2	
必修學分合計 Required Credits Subtotal			10	7	3	
最低畢業學分數 82 學分，必修 82 學分 Minimum graduation credits: 82 credits, compulsory 82 credits						
說明 Instructions：						
經核准修讀雙主修學生，應修滿本系全部專業必修科目學分。 Students who are approved to pursue a double major must complete all required credits for the core courses of this department.						

中山醫學大學

Chung Shan Medical University

114 學年度雙主修應修科目及學分表

Courses and Credits for Double Major in the 114th Academic Year

健康管理學院醫學應用化學系

Department of Medical Applied Chemistry, College of Health Care and Management

第一學年

1st Academic Year

科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semest er Credits	第二 學期 2 nd Semester Credits	備註 Remarks
普通化學	General Chemistry	必修 Required	4	4	0	
普通生物學	General Biology	必修 Required	2	2	0	
微積分(一)	Calculus(I)	必修 Required	2	2	0	
普通化學實驗	General Chemistry Laboratory	必修 Required	1	1	0	
分析化學(一)	Analytical Chemistry(I)	必修 Required	3	0	3	
普通物理學	General Physics	必修 Required	2	0	2	
健康醫學概論	Introduction to Health Medicine	必修 Required	2	0	2	
分析化學實驗(一)	Analytical Chemistry Laboratory (I)	必修 Required	1	0	1	
微積分(二)	Calculus(II)	必修 Required	1	0	1	
生物技術概論	Introduction to Biotechnology	選修 Elective	2	2	0	
3D 列印：積層製造技術與應用	3D Printing, Additive Manufacturing	選修 Elective	2	2	0	
永續發展探索	Exploration of Sustainability	選修 Elective	1	1	0	
檢測應用	Detection Application	選修 Elective	1	1	0	
環境化學	Environmental Chemistry	選修 Elective	2	0	2	
光電材料概論	Introduction to Electro-optic Material	選修 Elective	2	0	2	
化妝品調製學	Cosmetic Manufacture	選修 Elective	2	0	2	
應用化學導論	Introduction to Applied Chemistry	選修 Elective	2	0	2	
化學與生物感測技術導論	Introduction to Chemo-and Biosensors Technology	選修 Elective	1	0	1	
醫學與應用化學	Medicine and Applied Chemistry	選修 Elective	1	0	1	

第 一 學 年

1st Academic Year

科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semest er Credits	第二 學期 2 nd Semester Credits	備註 Remarks
化學醫藥品之智慧財產保護概論	Introduction to Intellectual Property Protection of Chemical Pharmaceuticals	選修 Elective	1	0	1	
科學加工	Scientific Processing	選修 Elective	1	0	1	
必修學分合計 Required Credits Subtotal			18	9	9	

第 二 學 年

2nd Academic Year

科目名稱 Course Name in Chinese	英文科目名稱 Course Name in English	必/選修 Required Elective	合計學 分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
有機化學(一)	Organic Chemistry (I)	必修 Required	3	3	0	
分析化學(二)	Analytical Chemistry (II)	必修 Required	3	3	0	
生物化學(一)	Biochemistry(I)	必修 Required	2	2	0	
分析化學實驗(二)	Analytical Chemistry Laboratory (II)	必修 Required	1	1	0	
有機化學實驗(一)	Organic Chemistry Laboratory (I)	必修 Required	1	1	0	
有機化學(二)	Organic Chemistry (II)	必修 Required	3	0	3	
無機化學(一)	Inorganic Chemistry (I)	必修 Required	3	0	3	
生物化學(二)	Biochemistry(II)	必修 Required	2	0	2	
儀器分析(一)	Principles of Instrumental Analysis(I)	必修 Required	2	0	2	
藥妝品學	Cosmeceuticals	必修 Required	2	0	2	
有機化學實驗(二)	Organic Chemistry Laboratory (II)	必修 Required	1	0	1	
儀器分析實驗(一)	Instrumental Analysis Laboratory(I)	必修 Required	1	0	1	
藥物學	Materia Medica	選修 Elective	2	2	0	
科技英文與數位工具應用實務	Digital Tools and Practice for learning Scientific English	選修 Elective	2	2	0	
特用化學品	Specialty Chemicals	選修 Elective	2	2	0	
奈米科技概論	Introduction to Nanotechnology	選修 Elective	2	2	0	
芳香療法	Aromatherapy	選修 Elective	2	2	0	

第 二 學 年 2 nd Academic Year						
科目名稱 Course Name in Chinese	英文科目名稱 Course Name in English	必/選修 Required Elective	合計學分 Credits Subtotal	第一學期 1 st Semester Credits	第二學期 2 nd Semester Credits	備註 Remarks
醫用材料化學概論	Introduction to Medical materials Chemistry	選修 Elective	3	0	3	
綠色化學	Green Chemistry	選修 Elective	2	0	2	
生醫材料導論	Introduction to Biomaterials	選修 Elective	2	0	2	
醫藥高分子化學	Medical Polymer Chemistry	選修 Elective	2	0	2	
必修學分合計 Required Credits Subtotal			24	10	14	

第 三 學 年 3 rd Academic Year						
科目名稱 Course Name in Chinese	英文科目名稱 Course Name in English	必/選修 Required Elective	合計學分 Credits Subtotal	第一學期 1 st Semester Credits	第二學期 2 nd Semester Credits	備註 Remarks
物理化學(一)	Physical Chemistry(I)	必修 Required	3	3	0	
無機化學(二)	Inorganic Chemistry(II)	必修 Required	3	3	0	
醫藥品設計與合成	Drug Design and Synthesis	必修 Required	2	2	0	
書報討論(一)	Discussion in Literature (I)	必修 Required	1	1	0	
物理化學實驗(一)	Physical Chemistry Laboratory(I)	必修 Required	1	1	0	
物理化學(二)	Physical Chemistry(II)	必修 Required	3	0	3	
藥物化學	Medicinal Chemistry	必修 Required	2	0	2	
書報討論(二)	Discussion in Literature (II)	必修 Required	1	0	1	
儀器分析(二)	Principles of Instrumental Analysis(II)	選修 Elective	2	2	0	
有機光譜	Spectroscopy for Organic Chemistry	選修 Elective	2	2	0	
保健科技學	Introduction to Health Science	選修 Elective	2	2	0	
藥物與化妝品分析	Pharmaceutical and Cosmetic Analysis	選修 Elective	2	2	0	
醣化學	Introduction of Carbohydrate Chemistry	選修 Elective	2	2	0	
儀器分析實驗(二)	Instrumental Analysis Laboratory(II)	選修 Elective	1	1	0	
有機合成	Organic Synthesis	選修 Elective	2	0	2	

第 三 學 年 3rd Academic Year						
科目名稱 Course Name in Chinese	英文科目名稱 Course Name in English	必/選修 Required Elective	合計學分 Credits Subtotal	第一學期 1 st Semester Credits	第二學期 2 nd Semester Credits	備註 Remarks
材料分析	Material Analysis	選修 Elective	2	0	2	
醫藥無機化學概論	Introduction to Medicinal Inorganic Chemistry	選修 Elective	2	0	2	
美容藥物學	Cosmetic Pharmacology	選修 Elective	2	0	2	
有機人名反應與應用	Organic Name Reactions and Applications	選修 Elective	2	0	2	
配位化學	Coordination Chemistry	選修 Elective	2	0	2	
製藥技術	Pharmaceutical Technology	選修 Elective	2	0	2	
臨床生醫材料	Clinical Biomedical Materials	選修 Elective	2	0	2	
有機化學特論	Special Topics in Organic Chemistry	選修 Elective	1	0	1	
核醫藥物暨放射化學概論	Introduction to Radiochemistry and Nuclear Pharmacy	選修 Elective	1	0	1	
物理化學實驗(二)	Physical Chemistry Laboratory(II)	選修 Elective	1	0	1	
人工智慧與有機化學	Artificial Intelligence in Organic Chemistry	選修 Elective	1	0	1	
必修學分合計 Required Credits Subtotal			16	10	6	

第 四 學 年 4th Academic Year						
科目名稱 Course Name in Chinese	英文科目名稱 Course Name in English	必/選修 Required Elective	合計學分 Credits Subtotal	第一學期 1 st Semester Credits	第二學期 2 nd Semester Credits	備註 Remarks
書報討論(三)	Discussion in Literature(III)	必修 Required	1	1	0	
書報討論(四)	Discussion in Literature(IV)	必修 Required	1	0	1	
無機化學特論	Special Topics in Inorganic Chemistry	選修 Elective	2	2	0	
有機金屬化學	Organometallics	選修 Elective	2	2	0	
化學產業發展	Development of Chemical Industries	選修 Elective	2	0	2	
生物無機化學導論	Introduction to Bioinorganic Chemistry	選修 Elective	2	0	2	
必修學分合計 Required Credits Subtotal			2	1	1	
最低畢業學分數 80 學分，必修 60 學分，選修 20 學分 Minimum graduation credits: 80 credits, compulsory 60 credits, elective 20 credits						