## Chang Jung Christian University Department of Medical Science Industries Curriculum List

(Curriculum Guides,2019 Academic Year)

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obligatory / elective course	No.	course name(ch)	course name	grade	semester	credit	hours/week				
							instruction	parctice	Remark		
common course-ob ligatory	PE00217	體育Ⅰ	Physical Education I	1	1	0	2	0			
	PE00218	體育Ⅱ	Physical Education II	1	2	0	2	0			
	PE00219	體育Ⅲ	Physical Education III	2	1	0	2	0			
	PE00220	體育IV	Physical Education IV	2	2	0	2	0			
language course-ob ligatory	GE00561	國文	Chinese	1	2	2	2	0			
	LE00297	英文Ⅰ	Freshman English I	1	1	2	2	0			
	LE00298	英文Ⅱ	Freshman English II	1	2	2	2	0			
	LE00299	外語初級 I	Foreign Language (basic)I	2	1	2	2	0			
	LE00300	外語初級Ⅱ	Foreign Language (basic)II	2	2	2	2	0			
general course-ob ligatory	GE00206	音樂欣賞	Music Appreciation	1	2	2	2	0			
	GE00537	服務學習	Service-Learning	1	2	1	1	2			
	GE00562	長榮精神	University and Holistic Pastoral Education	1	2	2	2	0			
	GE00567	通識課程		0	1	8	2	0			
	GE00656	體驗學習	Experience Learning	1	1	1	1	2			
	MS00087	醫學專業倫理	Medical Ethics	1	1	3	3	0			
dep. course-ob ligatory	MS00000	普通化學(含實驗)	General Chemistry (Including Lab)	1	1	3	3	0			
	MS00002	解剖學(含實驗)	Anatomy & Lab.	1	1	3	3	0			
	MS00058	心理學	Psychology	1	1	3	3	0			
	MS00088	計算機概論	Introduction to Calculus	1	2	2	2	0			
	MS00060	生理學	Physiology	1	2	3	3	0			
	MS00061	有機化學	Organic Chemistry	1	2	3	3	0			
	MS00062	有機化學實驗	Organic Chemistry Laboratory	1	2	1	0	3			
	MS00065	生藥學(含植物化 學)	Pharmacognosy (Including Plant Chemistry)	2	1	3	3	0			
	MS00063	藥理學	Pharmacology	2	1	3	3	0			
	MS00064	藥學導論	Perspective in Pharmacy	2	1	3	3	0			
	MS00011	藥物科技與實務	Pharmaceutical Technology & Lab.	2	2	4	4	0			
	MS00066	臨床生物化學	Clinical Biochemistry	2	2	3	3	0			
	MS00067	生物統計	Fundamentals of Biostatistics	2	2	3	3	0			
	MS00068	藥物化學	Medicinal Chemistry	3	1	3	3	0			
	MS00069	製藥產業	Pharmaceutical Industry	3	2	3	3	0			
dep. course-el ective	MS00070	健康照護概論	General Health Care	1	1	3	3	0			

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obligatory	No.	course name(ch)	course name	grade	semester	credit	hours/week				
/ elective course							instruction	parctice	Remark		
dep. course-el ective	MS00071	微生物與寄生蟲 學	Microbiology (Including Parasitology)	1	2	3	3	0			
	MS00072	醫藥科技英文[	Technical English in Medicine I	2	1	3	3	0			
	MS00036	香粧品產業概論	Introduction to Cosmetic Industry	2	1	2	2	0			
	MS00073	醫藥科技英文II	Technical English in Medicine II	2	2	3	3	0			
	MS00048	動物實驗方法	Animal Experimental Method	2	2	2	2	0			
common course-el ective	PE00343	體育Ⅴ	Physical Education V	3	1	1	2	0			
dep. course-el ective	MS00009	細胞生物學	Cell Biology	3	1	2	2	0			
	MS00008	外科學	Surgery	3	1	2	2	0			
	MS00015	內科學	Internal Medicine	3	1	2	2	0			
	MS00024	營養學	Nutrition	3	1	2	2	0			
	MS00025	天然物化學	Chemistry of Natural Products	3	1	2	2	0			
	MS00091	毒理學	Pharmaceutical Toxicology	3	1	3	3	0			
common course-el ective	PE00344	體育VI	Physical Education VI	3	2	1	2	0			
dep. course-el ective	MS00035	健康食品概論	Introduction to Health Food	3	2	2	2	0			
	MS00076	中藥概論	Outline of Chinese Materia Medica	3	2	2	2	0			
	MS00077	炮製學(含實驗)	TCM Processing (Including Lab)	3	2	3	3	0			
	MS00010	病理學	Phathology	3	2	2	2	0			
	MS00094	藥理學特論	Advanced Pharmacology	3	2	3	3	0			
	MS00042	醫藥行銷管理	Marking Management in Medicine	3	2	2	2	0			
	MS00102	癌症標靶治療學	Targeted Therapies for Malignant Tumors	3	2	3	3	0			
	MS00103	次世代分子診斷 與技術原理	Next generation diagnostics and technology	3	2	3	3	0			
	MS00104	結構生物學概論	Introduction to Structural Biology Introduction to Structural Biology	3	2	2	2	0			
	MS00012	免疫學	Immunology	4	1	2	2	0			
	MS00045	發酵應用與實務	Fermetation Application & Lab.	4	1	3	3	0			
	MS00074	專題製作Ⅰ	Research and Writing Thesis I	4	1	3	3	0			
	MS00080	產業實習Ⅰ	Practice in Medical Industry I	4	1	3	0	6			
	MS00081	產業實習II	Practice in Medical Industry II	4	1	3	0	6			
	MS00093	藥劑學	Pharmaceutical Dosage Forms, Drug Delivery Systems and Medical Devices	4	1	3	3	0			

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						instruction	parctice	Remark		
MS00095	產業見習	Internship in Industry	4	1	3	0	9			
MS00126	生物材料學	Biomaterials	4	1	2	2	0			
MS00082	產業實習III	Practice in Medical Industry III	4	2	3	0	6			
MS00018	儀器分析	Instrumental Analysis	4	2	2	2	0			
MS00047	健康藥膳與實務 製備	Health Medicated Diet & Lab.	4	2	3	3	0			
MS00049	天然物分離技術	Separation Techniques for the Isolation of Natural Products.	4	2	2	2	0			
MS00052	醫療器材專利與 法規	Medical equipment and regulation	4	2	2	2	0			
MS00075	專題製作II	Research and Writing Thesis II	4	2	3	3	0			
MS00078	疾病與藥物導論	Disease and Drug Review	4	2	3	3	0			
MS00083	產業實習IV	Practice in Medical Industry IV	4	2	3	0	6			
MS00084	產業實習V	Practice in Medical Industry V	4	2	3	0	6			
MS00092	生物製藥與藥物 動力學	Biopharmaceutics& Pharmacokinetics	4	2	3	3	0			
MS00101	精準醫療	Precision Medicine	4	2	3	3	0			
MS00127	醫學工程	Medical Engineering	4	2	2	2	0			
	MS00095 MS000126 MS00082 MS00018 MS00047 MS00049 MS00052 MS00075 MS00078 MS00083 MS00084 MS00092 MS00101	MS00095 產業見習  MS00126 生物材料學 MS00082 產業實習III  MS00018 儀器分析 MS00047 健康藥膳與實務 製備 MS00049 天然物分離技術  MS00052 醫療器材專利與 法規  MS00075 專題製作II  MS00078 疾病與藥物導論 MS00083 產業實習IV  MS00084 產業實習V  MS00092 生物製藥與藥物 動力學  MS00101 精準醫療	MS00095 產業見習 Internship in Industry  MS00126 生物材料學 Biomaterials  MS00082 產業實習III Practice in Medical Industry III  MS00018 儀器分析 Instrumental Analysis  MS00047 健康藥膳與實務 Health Medicated Diet & Lab.  MS00049 天然物分離技術 Separation Techniques for the Isolation of Natural Products.  MS00052 醫療器材專利與 Medical equipment and regulation  MS00075 專題製作II Research and Writing Thesis II  MS00078 疾病與藥物導論 Disease and Drug Review  MS00083 產業實習IV Practice in Medical Industry IV  MS00084 產業實習V Practice in Medical Industry V  MS00092 生物製藥與藥物 Biopharmaceutics& Pharmacokinetics  MS00101 精準醫療 Precision Medicine	MS00095 產業見習 Internship in Industry 4  MS00126 生物材料學 Biomaterials 4  MS00082 產業實習III Practice in Medical Industry III 4  MS00018 儀器分析 Instrumental Analysis 4  MS00047 健康藥膳與實務 Health Medicated Diet & Lab. 4  製備 Separation Techniques for the Isolation of Natural Products.  MS00052 醫療器材專利與 Medical equipment and regulation regulation Practice in Medical Industry IV 4  MS00078 疾病與藥物導論 Disease and Drug Review 4  MS00084 產業實習V Practice in Medical Industry V 4  MS00092 生物製藥與藥物 Biopharmaceutics& Pharmacokinetics  MS00101 精準醫療 Precision Medicine 4	MS00095 產業見習 Internship in Industry 4 1  MS00126 生物材料學 Biomaterials 4 1  MS00082 產業實習III Practice in Medical Industry III 4 2  MS00018 儀器分析 Instrumental Analysis 4 2  MS00047 健康藥膳與實務 Health Medicated Diet & Lab. 4 2  MS00049 天然物分離技術 Separation Techniques for the Isolation of Natural Products. 4 2  MS00052 醫療器材專利與 Medical equipment and regulation Research and Writing Thesis II 4 2  MS00075 專題製作II Research and Writing Thesis II 4 2  MS00078 疾病與藥物導論 Disease and Drug Review 4 2  MS00083 產業實習 IV Practice in Medical Industry IV 4 2  MS00092 生物製藥與藥物 Biopharmaceutics& Pharmacokinetics 4 2  MS00101 精準醫療 Precision Medicine 4 2	MS00095   産業見習	No.   course name   grade   semester   credit   instruction     MS00095   產業見習   Internship in Industry   4	No.   course name   course name   grade   semester   credit   instruction   parctice		

 $\begin{array}{c} \text{obligatory } 70 \\ \text{elective course } 58 \\ \text{credit sum } 128 \end{array}$