

大仁科技大學四技日間部藥學系臨床藥學組標準課程表

Tajen University Department of Pharmacy - Clinical Pharmacy Standard Curriculum

110學年度入學學生適用
Applicable to Students Admitted in Academic Year 2021

科目類別 Course Type	條件群組 Requirement Group	科目名稱 Course Title	模組名稱 Module Name	學分 Credits	時數 Hours	授課 Lecture	實習 Lab / Practical	修別 Status	備註 Remarks
通識必修 General Education Required	一上必修 Y1-S1 Required	生活情境英文I English for Daily Conversation I		2	2	2	0	必修 Required	
通識必修 General Education Required	一下必修 Y1-S2 Required	生活情境英文II English for Daily Conversation II		2	2	2	0	必修 Required	
通識必修 General Education Required	二下必修 Y2-S2 Required	創意思考與運用 Creative Thinking and Application		2	2	2	0	必修 Required	
通識必修 General Education Required	三上必修 Y3-S1 Required	公民與社會 Citizenship and Society		2	2	2	0	必修 Required	
通識必修 General Education Required	四上必修 Y4-S1 Required	歷史與文化 History and Culture		2	2	2	0	必修 Required	
通識必修 General Education Required	一上必修 Y1-S1 Required	中文閱讀與書寫 I Chinese Reading and Writing I		2	2	2	0	必修 Required	
通識必修 General Education Required	一下必修 Y1-S2 Required	中文閱讀與書寫 II Chinese Reading and Writing II		2	2	2	0	必修 Required	
通識必修 General Education Required	二上必修 Y2-S1 Required	服務學習教育 Service Learning		1	1	1	0	必修 Required	
通識必修 General Education Required	一上必修 Y1-S1 Required	體育I Physical Education I		2	2	2	0	必修 Required	
通識必修 General Education Required	一下必修 Y1-S2 Required	體育II Physical Education II		2	2	2	0	必修 Required	
通識必修 General Education Required	二上必修 Y2-S1 Required	程式設計與邏輯運算 Programming and Logical Reasoning		2	2	2	0	必修 Required	
通識必修 General Education Required	一上必修 Y1-S1 Required	社團學習與實作 I Club Learning and Practice I		1	1	1	0	必修 Required	
通識必修 General Education Required	一下必修 Y1-S2 Required	社團學習與實作 II Club Learning and Practice II		1	1	1	0	必修 Required	
通識必修 General Education Required	二下必修 Y2-S2 Required	通用職場英文 General Workplace English		2	2	2	0	必修 Required	

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通識必修 General Education Required	一上必修 Y1-S1 Required	勞動教育 Work Education		1	2	2	0	必修 Required	
通識選修 General Education Elective	一上選修 Y1-S1 Elective	全民國防教育軍事訓練I All-Out Defense Education: Military Training I		0	2	2	0	選修 Elective	
通識選修 General Education Elective	一下選修 Y1-S2 Elective	全民國防教育軍事訓練II All-Out Defense Education: Military Training II		0	2	2	0	選修 Elective	
通識選修 General Education Elective	二上選修 Y2-S1 Elective	全民國防教育軍事訓練III All-Out Defense Education: Military Training III		0	2	2	0	選修 Elective	
通識選修 General Education Elective	二下選修 Y2-S2 Elective	全民國防教育軍事訓練IV All-Out Defense Education: Military Training IV		0	2	2	0	選修 Elective	
通識選修 General Education Elective	三上選修 Y3-S1 Elective	全民國防教育軍事訓練V All-Out Defense Education: Military Training V		0	2	2	0	選修 Elective	
院訂必修 College Required	一上必修 Y1-S1 Required	化學 Chemistry		2	2	2	0	必修 Required	
院訂必修 College Required	二上必修 Y2-S1 Required	職場倫理 Workplace Ethics		2	2	2	0	必修 Required	
院訂必修 College Required	一上必修 Y1-S1 Required	生物學 Biology		2	2	2	0	必修 Required	
院訂必修 College Required	二下必修 Y2-S2 Required	生物統計 Biostatistics		2	2	2	0	必修 Required	
院訂必修 College Required	一下必修 Y1-S2 Required	生理學 Physiology		2	2	2	0	必修 Required	
專業必修 Professional Required	一上必修 Y1-S1 Required	藥事概論 Introduction to Pharmacy		1	1	1	0	必修 Required	
專業必修 Professional Required	二上必修 Y2-S1 Required	有機化學II Organic Chemistry II		2	2	2	0	必修 Required	
專業必修 Professional Required	三上必修 Y3-S1 Required	生藥學 Pharmacognosy		3	3	3	0	必修 Required	
專業必修 Professional Required	四上必修 Y4-S1 Required	臨床藥學 Clinical Pharmacy		2	2	2	0	必修 Required	
專業必修 Professional Required	五上必修 Y5-S1 Required	醫院藥學實習 Hospital Pharmacy Internship		9	18	0	18	必修 Required	
專業必修 Professional Required	六上必修 Y6-S1 Required	臨床藥學實習I Clinical Pharmacy Practice Experience I		6	12	0	12	必修 Required	
專業必修 Professional Required	一上必修 Y1-S1 Required	基礎微積分 Basic Calculus		2	2	2	0	必修 Required	
專業必修 Professional Required	二上必修 Y2-S1 Required	進階生理學 Advanced Physiology		1	1	1	0	必修 Required	

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專業必修 Professional Required	三上必修 Y3-S1 Required	藥物化學II Medicinal Chemistry II		2	2	2	0	必修 Required	
專業必修 Professional Required	四上必修 Y4-S1 Required	非處方藥品 Nonprescription Drugs		2	2	2	0	必修 Required	
專業必修 Professional Required	五上必修 Y5-S1 Required	藥物治療學IV Pharmacotherapy IV		4	4	4	0	必修 Required	
專業必修 Professional Required	六上必修 Y6-S1 Required	臨床藥學實習 Clinical Pharmacy Internship		4	8	0	8	必修 Required	
專業必修 Professional Required	一上必修 Y1-S1 Required	解剖學 Anatomy		2	2	2	0	必修 Required	
專業必修 Professional Required	二上必修 Y2-S1 Required	有機化學實驗 Organic Chemistry Laboratory		1	2	0	2	必修 Required	
專業必修 Professional Required	三上必修 Y3-S1 Required	藥物分析學實驗 Pharmaceutical Analysis Laboratory		1	2	0	2	必修 Required	
專業必修 Professional Required	四上必修 Y4-S1 Required	社區藥學 Community Pharmacy		2	2	2	0	必修 Required	
專業必修 Professional Required	六下必修 Y6-S2 Required	臨床藥學實習 III Clinical Pharmacy Practice Experience III		4	8	0	8	必修 Required	
專業必修 Professional Required	一上必修 Y1-S1 Required	中藥概論 Introduction to Chinese Materia Medica		1	1	1	0	必修 Required	
專業必修 Professional Required	二上必修 Y2-S1 Required	基礎醫學實驗 I (生物, 生 Basic Medical Sciences Laboratory I (Biology and Physiology)		1	2	0	2	必修 Required	
專業必修 Professional Required	三上必修 Y3-S1 Required	生物藥劑學 Biopharmaceutics		3	3	3	0	必修 Required	
專業必修 Professional Required	四上必修 Y4-S1 Required	方劑學 Chinese Herbal Formulas		2	2	2	0	必修 Required	
專業必修 Professional Required	五下必修 Y5-S2 Required	藥事行政與法規 Pharmacy Administration and Regulations		2	2	2	0	必修 Required	
專業必修 Professional Required	六下必修 Y6-S2 Required	臨床藥學實習 IV Clinical Pharmacy Practice Experience IV		6	12	0	12	必修 Required	
專業必修 Professional Required	一上必修 Y1-S1 Required	中醫概論 Introduction to Traditional Chinese Medicine		1	1	1	0	必修 Required	
專業必修 Professional Required	二上必修 Y2-S1 Required	藥物物理化學 Physical Chemistry for Pharmacy		3	3	3	0	必修 Required	
專業必修 Professional Required	三上必修 Y3-S1 Required	藥理學I Pharmacology I		2	2	2	0	必修 Required	
專業必修 Professional Required	三下必修 Y3-S2 Required	藥理學II Pharmacology II		2	2	2	0	必修 Required	
專業必修 Professional Required	四上必修 Y4-S1 Required	方劑學實驗 Chinese Herbal Formulas Laboratory		1	2	0	2	必修 Required	
專業必修 Professional Required	五下必修 Y5-S2 Required	藥物治療學V Pharmacotherapy V		4	4	4	0	必修 Required	
專業必修 Professional Required	一上必修 Y1-S1 Required	現代本草學I Modern Herbal Medicine I		1	1	1	0	必修 Required	

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專業必修 Professional Required	二上必修 Y2-S1 Required	藥學倫理 Pharmacy Ethics		2	2	2	0	必修 Required	
專業必修 Professional Required	三上必修 Y3-S1 Required	藥劑學I Pharmaceutics I		2	2	2	0	必修 Required	
專業必修 Professional Required	三下必修 Y3-S2 Required	藥劑學II Pharmaceutics II		2	2	2	0	必修 Required	
專業必修 Professional Required	四上必修 Y4-S1 Required	藥學實習I Pharmacy Internship I		2	4	0	4	必修 Required	
專業必修 Professional Required	四下必修 Y4-S2 Required	藥學實習II Pharmacy Internship II		2	4	0	4	必修 Required	
專業必修 Professional Required	五下必修 Y5-S2 Required	藥物治療學VI Pharmacotherapy VI		2	2	2	0	必修 Required	
專業必修 Professional Required	一下必修 Y1-S2 Required	進階生物學 Advanced Biology		1	1	1	0	必修 Required	
專業必修 Professional Required	二上必修 Y2-S1 Required	生物化學(含分生) I Biochemistry I (Including Molecular Biology)		3	3	3	0	必修 Required	
專業必修 Professional Required	二下必修 Y2-S2 Required	生物化學(含分生) II Biochemistry II (Including Molecular Biology)		2	2	2	0	必修 Required	
專業必修 Professional Required	三上必修 Y3-S1 Required	藥物分析學I Pharmaceutical Analysis I		2	2	2	0	必修 Required	
專業必修 Professional Required	三下必修 Y3-S2 Required	藥物分析學II Pharmaceutical Analysis II		2	2	2	0	必修 Required	
專業必修 Professional Required	四上必修 Y4-S1 Required	藥物治療學I Pharmacotherapy I		2	2	2	0	必修 Required	
專業必修 Professional Required	四下必修 Y4-S2 Required	藥物治療學II Pharmacotherapy II		2	2	2	0	必修 Required	
專業必修 Professional Required	五下必修 Y5-S2 Required	藥物治療學VII Pharmacotherapy VII		4	4	4	0	必修 Required	
專業必修 Professional Required	一下必修 Y1-S2 Required	公共衛生 Public Health		2	2	2	0	必修 Required	
專業必修 Professional Required	二下必修 Y2-S2 Required	藥物化學實驗 Medicinal Chemistry Laboratory		1	2	0	2	必修 Required	
專業必修 Professional Required	三下必修 Y3-S2 Required	藥理學實驗 Pharmacology Laboratory		1	2	0	2	必修 Required	
專業必修 Professional Required	四下必修 Y4-S2 Required	調劑學 Dispensing Pharmacy		3	3	3	0	必修 Required	
專業必修 Professional Required	五下必修 Y5-S2 Required	藥物治療學VIII Pharmacotherapy VIII		2	2	2	0	必修 Required	
專業必修 Professional Required	一下必修 Y1-S2 Required	有機化學I Organic Chemistry I		2	2	2	0	必修 Required	
專業必修 Professional Required	二下必修 Y2-S2 Required	微生物與免疫學 Microbiology and Immunology		2	2	2	0	必修 Required	
專業必修 Professional Required	三下必修 Y3-S2 Required	藥劑學實驗 Pharmaceutics Laboratory		1	2	0	2	必修 Required	

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專業必修 Professional Required	四下必修 Y4-S2 Required	調劑學實驗 Dispensing Pharmacy Laboratory		1	2	0	2	必修 Required	
專業必修 Professional Required	五下必修 Y5-S2 Required	藥品臨床試驗 Clinical Drug Trials		2	2	2	0	必修 Required	
專業必修 Professional Required	一下必修 Y1-S2 Required	分析化學 Analytical Chemistry		2	2	2	0	必修 Required	
專業必修 Professional Required	二下必修 Y2-S2 Required	藥物化學I Medicinal Chemistry I		3	3	3	0	必修 Required	
專業必修 Professional Required	三下必修 Y3-S2 Required	中藥藥物學 Chinese Materia Medica		2	2	2	0	必修 Required	
專業必修 Professional Required	四下必修 Y4-S2 Required	藥品資訊分析 Drug Information Analysis		1	1	1	0	必修 Required	
專業必修 Professional Required	一下必修 Y1-S2 Required	基礎藥學實驗 (普化, 分析) Basic Pharmacy Laboratory (General and Analytical Chemistry)		1	2	0	2	必修 Required	
專業必修 Professional Required	二下必修 Y2-S2 Required	病理學 Pathology		2	2	2	0	必修 Required	
專業必修 Professional Required	三下必修 Y3-S2 Required	中藥炮製學 Processing of Chinese Materia Medica		2	2	2	0	必修 Required	
專業必修 Professional Required	四下必修 Y4-S2 Required	臨床藥物動態學 Clinical Clinical Pharmacokinetics		2	2	2	0	必修 Required	
專業必修 Professional Required	二下必修 Y2-S2 Required	基礎醫學實驗 II (微免, 生化) Basic Medical Sciences Laboratory II (Microbiology, Immunology, and Biochemistry)		2	3	0	3	必修 Required	
專業必修 Professional Required	三下必修 Y3-S2 Required	中藥炮製學實驗 Chinese Materia Medica Processing Laboratory		1	2	0	2	必修 Required	
專業必修 Professional Required	四下必修 Y4-S2 Required	臨床藥學技能 Clinical Pharmacy Skills		2	2	2	0	必修 Required	
專業必修 Professional Required	二下必修 Y2-S2 Required	現代本草學II Modern Herbal Medicine II		2	2	2	0	必修 Required	
專業必修 Professional Required	三下必修 Y3-S2 Required	生物製劑 Biopharmaceutical Preparations		1	1	1	0	必修 Required	
專業必修 Professional Required	四下必修 Y4-S2 Required	實證藥學 Evidence-Based Pharmacy		2	2	2	0	必修 Required	
專業必修 Professional Required	三下必修 Y3-S2 Required	生藥學實驗 Pharmacognosy Laboratory		1	2	0	2	必修 Required	
專業必修 Professional Required	四下必修 Y4-S2 Required	藥事照護 Pharmaceutical Care		2	2	2	0	必修 Required	
專業必修 Professional Required	四下必修 Y4-S2 Required	藥物治療學III Pharmacotherapy III		2	2	2	0	必修 Required	
專業選修 Professional Elective	一上選修 Y1-S1 Elective	藥用生物科技 Pharmaceutical Biotechnology		2	2	2	0	選修 Elective	
專業選修 Professional Elective	二上選修 Y2-S1 Elective	醫藥社會學 Medical Sociology		2	2	2	0	選修 Elective	
專業選修 Professional Elective	三上選修 Y3-S1 Elective	光譜學 Spectroscopy		2	2	2	0	選修 Elective	

科目類別 Course Type	條件群組 Requirement Group	科目名稱 Course Title	模組名稱 Module Name	學分 Credits	時數 Hours	授課 Lecture	實習 Lab / Practical	修別 Status	備註 Remarks
專業選修 Professional Elective	四上選修 Y4-S1 Elective	毒理學 Toxicology		2	2	2	0	選修 Elective	
專業選修 Professional Elective	六上選修 Y6-S1 Elective	進階藥學實習 Advanced Pharmacy Internship		2	4	0	4	選修 Elective	
專業選修 Professional Elective	一上選修 Y1-S1 Elective	進階化學 Advanced Chemistry		2	2	2	0	選修 Elective	
專業選修 Professional Elective	二上選修 Y2-S1 Elective	香妝化學 Cosmetic Chemistry		2	2	2	0	選修 Elective	
專業選修 Professional Elective	三上選修 Y3-S1 Elective	天然物化學 Natural Products Chemistry		2	2	2	0	選修 Elective	
專業選修 Professional Elective	四上選修 Y4-S1 Elective	藥物設計 Drug Design		2	2	2	0	選修 Elective	
專業選修 Professional Elective	六下選修 Y6-S2 Elective	中藥實習 Chinese Medicine Internship		2	4	0	4	選修 Elective	
專業選修 Professional Elective	一下選修 Y1-S2 Elective	藥學與環境 Pharmacy and the Environment		2	2	2	0	選修 Elective	
專業選修 Professional Elective	二上選修 Y2-S1 Elective	藥物濫用 Drug Abuse		2	2	2	0	選修 Elective	
專業選修 Professional Elective	三下選修 Y3-S2 Elective	藥物活性化學 Chemistry of Bioactive Compounds		2	2	2	0	選修 Elective	
專業選修 Professional Elective	四上選修 Y4-S1 Elective	中藥品質管制與實驗I Quality Control of Chinese Medicines and Laboratory I		2	3	0	3	選修 Elective	
專業選修 Professional Elective	四下選修 Y4-S2 Elective	中藥品質管制與實驗II Quality Control of Chinese Medicines and Laboratory II		2	3	0	3	選修 Elective	
專業選修 Professional Elective	一下選修 Y1-S2 Elective	醫藥與健康 Medicine and Health		2	2	2	0	選修 Elective	
專業選修 Professional Elective	二下選修 Y2-S2 Elective	有機合成化學 Organic Synthesis		2	2	2	0	選修 Elective	
專業選修 Professional Elective	三下選修 Y3-S2 Elective	西藥製藥品質管制 Quality Control of Pharmaceuticals		2	2	2	0	選修 Elective	
專業選修 Professional Elective	四下選修 Y4-S2 Elective	臨床檢驗判讀 Interpretation of Clinical Laboratory Data		2	2	2	0	選修 Elective	
專業選修 Professional Elective	二下選修 Y2-S2 Elective	儀器分析 Instrumental Analysis		2	2	2	0	選修 Elective	
專業選修 Professional Elective	三下選修 Y3-S2 Elective	中藥藥理學 Pharmacology of Chinese Medicines		2	2	2	0	選修 Elective	
專業選修 Professional Elective	四下選修 Y4-S2 Elective	膠體化學 Colloid Chemistry		2	2	2	0	選修 Elective	
專業選修 Professional Elective	四下選修 Y4-S2 Elective	醫藥經濟學 Pharmacoeconomics		2	2	2	0	選修 Elective	

課程要求與備註

Curriculum Requirements and Notes

最低畢業學分:206 學分

Minimum Credits Required for Graduation: 206

科目類別 Course Type	課程列數 Listed Course Rows	排定學分* Scheduled Credits*
通識必修 General Education Required	15	26
通識選修 General Education Elective	5	0
院訂必修 College Required	5	10
專業必修 Professional Required	71	154
專業選修 Professional Elective	23	46

* 排定學分為本表顯示課程列之加總;正式畢業門檻及分類要求以原始備註為準。

* Scheduled credits sum the displayed course rows; official graduation minima and category requirements are governed by the source notes below.

1.總學分說明:最低畢業學分為206學分,包括:通識必修課程26學分【含:生活情境英文I及II,中文閱讀與書寫I, II,體育I, II,社團學習與實作I, II,勞動教育,程式設計與邏輯運算,通用職場英文,公民與社會,創意思考與應用,歷史與文化及服務學習教育】,通識選修課程6學分,3個領域每個領域至少修2學分【含:藝術人文領域, 社會科學領域, 自然科學領域】,院訂必修10學分,專業必修156學分,專業選修至少8學分。

Graduation Credit Requirements. A minimum of 206 credits is required for graduation: 26 credits of required General Education courses; 6 credits of General Education electives, including at least 2 credits in each of the Humanities and Arts, Social Sciences, and Natural Sciences domains; 10 credits of college-level required courses; 156 credits of required professional courses; and at least 8 credits of professional electives.

2.全民國防教育軍事訓練一、二年級(I, II, III, IV, V)為選修,各為0學分/2小時,共計0學分/8小時;體育一年級(I及II) 為必修,各為2學分/2小時,共計4學分/4小時;社團實作與學習一年級(I及II) 為必修,各為1學分/1小時,共計2學分/2小時;勞動教育一年級為必修1學分/2小時;服務學習教育二年級為必修1學分/1小時;英文能力分級教學,分成A, B, C三級。

Additional Course Requirements. All-Out Defense Education: Military Training I-V are electives carrying 0 credits and 2 hours each. Physical Education I and II are required, carrying 2 credits and 2 hours each. Club Learning and Practice I and II are required, carrying 1 credit and 1 hour each. Work Education is a first-year required course carrying 1 credit and 2 hours. Service Learning is a second-year required course carrying 1 credit and 1 hour. English instruction is offered at proficiency levels A, B, and C.

3.實習說明: (1)醫院藥學實習必修9學分,至少實習640小時。(2)藥學實習I與II必修各2學分,合計實習時間至少320小時;進階藥學實習選修2學分,至少實習80小時;實習場所為醫院以外之其他單位,包括社區藥局、藥廠、藥品公司、研究單位、政府相關單位及藥學海外實習等。(3)臨床藥學實習I, II, III, IV包括加護病房及一般病房實習,至少實習800小時。

Internship Requirements. Hospital Pharmacy Internship is a required 9-credit internship comprising at least 640 hours. Pharmacy Internship I and II are required courses of 2 credits each and together comprise at least 320 hours. Advanced Pharmacy Internship is a 2-credit elective comprising at least 80 hours. Non-hospital internship sites may include community pharmacies, pharmaceutical manufacturers, pharmaceutical companies, research institutions, relevant government agencies, and overseas pharmacy internship sites. Clinical Pharmacy Internships I-IV include intensive care unit and general ward practice and together comprise at least 800 hours.

4.中藥學分說明:藥師從事中藥製劑之製造,供應及調劑,應修滿下列學分或時數之中藥課程並獲有證明書,必修:中醫概論,中藥概論,現代本草學I與II,方劑學與實驗,中藥炮製學與實驗,生藥學與實驗,中藥藥物學,選修:中藥實習。實習時間至少160小時,實習場所不限一處,每一場所至少80小時,包括中醫醫療院所(須設有中藥調劑部門),中藥製藥廠,藥局(須兼營中藥業務)或中藥販賣業。

Chinese Medicine Requirements. Students seeking qualification for the manufacture, supply, or dispensing of Chinese medicine preparations must complete the prescribed Chinese medicine courses and obtain the required certificate. Required studies include Introduction to Traditional Chinese Medicine, Introduction to Chinese Materia Medica, Modern Herbal Medicine I and II, Chinese Herbal Formulas and Laboratory, Processing of Chinese Materia Medica and Laboratory, Pharmacognosy and Laboratory, and Chinese Materia Medica. The Chinese Medicine Internship is elective. At least 160 internship hours are required; multiple sites may be used, with at least 80 hours at each site. Eligible sites include Chinese medicine medical institutions with a dispensing department, Chinese medicine manufacturers, pharmacies also operating a Chinese medicine business, and licensed Chinese medicine dealers.

5.各年級學分說明:一至四年級每學期至少修16學分,最多修25學分;五至六年級每學期至少修9學分,最多修25學分。

Credit Load by Year. Students in Years 1-4 must take 16-25 credits per semester. Students in Years 5-6 must take 9-25 credits per semester.

6.畢業門檻與配套措施說明:(1)英文能力須通過CEF-B1等級,未通過者,可選修「英文檢定」中級課程,其成績合格者始得認列,請參考本校英文檢定課程實施要點;(2)專業能力須取得心肺復甦術(CPR)證書;專業能力配套措施請參考本系畢業門檻及認列作業要點。

Graduation Requirements and Supporting Measures. Students must attain CEF-B1 English proficiency. Students who do not meet the standard may complete the intermediate English Certification course in accordance with the University's implementation rules. Students must also hold a cardiopulmonary resuscitation (CPR) certificate; departmental rules govern recognition of professional competency requirements.

行政紀錄:110.05.05系課程委員會會議通過;110.05.10院課程委員會會議通過;110.05.27校課程委員會會議通過;113.04.10系課程委員會會議通過;113.04.22院課程委員會會議通過;113.05.22校課程委員會會議通過
Administrative Record: Passed by the Department Curriculum Committee on May 5, 2021; Passed by the College Curriculum Committee on May 10, 2021; Passed by the University Curriculum Committee on May 27, 2021; Passed by the Department Curriculum Committee on April 10, 2024; Passed by the College Curriculum Committee on April 22, 2024; Passed by the University Curriculum Committee on May 22, 2024.