

## Curriculum of Department of Pharmacy, Faculty of Pharmaceutical Sciences

Divisions	Subjects(Japanese)	Subjects(English Translation)	Credits		Year	Requirements for Graduation	Notes
			Required	Elective			
REQUIRED	教養セミナーA	Freshman Seminar A	1		1	4 credits total	
	教養セミナーB	Freshman Seminar B	1		1		
	ホスピタリティ概論	Introduction to Hospitality Studies	2		1		
HUMANITIES	哲学	Philosophy		2	1	6 credits or more (including 4 credits of required subjects)	
	生命倫理	Bioethics	2		1		
	倫理学	Ethics		2	2		
	宗教学	Religions		2	2		
	心理学	Psychology		2	1		
	教育学	Education		2	1		
	芸術論	Art		2	1		
	文学論	Introduction to Literature		2	1		
	茶道文化ⅠA	Tea Ceremony Culture I A	1		1		
	茶道文化ⅠB	Tea Ceremony Culture I B	1		1		
	茶道文化ⅡA	Tea Ceremony Culture II A		1	2		
	茶道文化ⅡB	Tea Ceremony Culture II B		1	2		
	茶道文化ⅢA	Tea Ceremony Culture III A		1	3		
	茶道文化ⅢB	Tea Ceremony Culture III B		1	3		
	茶道文化ⅣA	Tea Ceremony Culture IV A		1	4		
	茶道文化ⅣB	Tea Ceremony Culture IV B		1	4		
	ボランティア論	Volunteer Theory		2	1		
スポーツ実習A	Physical Education A		1	1			
スポーツ実習B	Physical Education B		1	1			
スポーツ実習C(キャンプ実習)	Physical Education C		1	1			
スポーツ実習D(スキー・スノーボード実習)	Physical Education (Snow & Snowboard)		1	1			
GLOBAL CULTURE	英語演習ⅠA	English I A		1	1	6 credits or more (including 4 or more subjects of required elective subjects) International students whose native language is not Japanese, 6 credits from required subjects must be language subjects from International Understanding but not the student's native language. The remaining 2 credits should be other subjects from International Understanding.	
	英語演習ⅠB	English I B		1	1		
	英語演習ⅡA	English II A		1	1		
	英語演習ⅡB	English II B		1	1		
	英語演習ⅢA	English III A	4	1	2		
	英語演習ⅢB	English III B		1	2		
	英語演習ⅣA	English IV A		1	3		
	英語演習ⅣB	English IV B		1	3		
	検定英語Ⅰ(文部科学大臣認定)	English Test I (TOEIC 730 level)		4	—		
	検定英語Ⅱ(文部科学大臣認定)	English Test II (TOEIC 900 level)		4	—		
	中国語ⅠA	Chinese I A		1	1		
	中国語ⅠB	Chinese I B		1	1		
	中国語ⅡA	Chinese II A		1	2		
	中国語ⅡB	Chinese II B		1	2		
	コリア語ⅠA	Korean I A		1	1		
	コリア語ⅠB	Korean I B		1	1		
	コリア語ⅡA	Korean II A		1	2		
	コリア語ⅡB	Korean II B		1	2		
	フランス語ⅠA	French I A		1	1		
	フランス語ⅠB	French I B		1	1		
	フランス語ⅡA	French II A		1	2		
	フランス語ⅡB	French II B		1	2		
	国際関係論	International Relations		2	1		
	International Relations	International Relations		2	2		
	異文化コミュニケーション論	Cross Cultural Communication		2	2		
	比較文化論	Comparative Culture		2	1		
	世界文化遺産論	World Cultural Heritage		2	2		
日本語入門A	Introduction to Japanese A		1	1			
日本語入門B	Introduction to Japanese B		1	1			
日本理解A	Basic Understanding of Japan A		2	1			
日本理解B	Basic Understanding of Japan B		2	1			
日本語A	Japanese as a Second Language A		2	1			
日本語B	Japanese as a Second Language B		2	1			

REQUIRED FOR ALL DEPARTMENT

For international students only

Divisions	Subjects(Japanese)	Subjects(English Translation)	Credits		Year	Requirements for Graduation	Notes
			Required	Elective			
R E Q U I R E D  F O R  A L L  D E P A R T M E N T	S O C I A L  S C I E N C E S	社会学	Sociology		2	1	4 credits or more (including 2 credits of required subjects).
		生涯学習概論	Lifelong Education		2	2	
		法 学	Law		2	1	
		政治学	Politics		2	1	
		経済学	Economics		2	1	
		統計学	Statistics	2		1	
		経営学	Business Management		2	2	
		学際連携研究	Interdisciplinary Studies		2	1	
		地域の理解と連携	Regional Understanding and Cooperation		2	1	
		在宅医療概論	Introduction to Homecare Medicine		2	1	
		日本国憲法	Japanese Constitution		2	2	
		異文化適応演習A	Adaptation to Different Cultures A		1	1	
		異文化適応演習B	Adaptation to Different Cultures B		1	1	
		日本事情 I	Japanese Affairs I		2	1	
	日本事情 II	Japanese Affairs II		2	2		
	N A T U R A L  S C I E N C E S	健康科学	Health Science		2	2	4 credits (including 2 credits of required subjects and 6 subjects of required elective subjects)
		基礎の化学	Fundamental Chemistry	6	2	1	
		基礎の生物学	Fundamental Biology		2	1	
		基礎の物理学	Fundamental Physics		2	1	
		基礎の数学	Fundamental Mathematics		2	1	
地球環境論		Global Environment Studies		2	1		
コンピュータ基礎演習 I A		Computer Basics I A	1		1		
コンピュータ基礎演習 I B		Computer Basics I B	1		1		
コンピュータ基礎演習 II A	Computer Basics II A		1	2			
コンピュータ基礎演習 II B	Computer Basics II B		1	2			
M A J O R  C O U R S E  W O R K	B A S I C S	薬学入門	Introduction to Pharmacy	1.5		1	2.5 credits total
		薬学英语	English for Pharmacy Students	1		3	
	P H Y S I C S  C O U R S E	物理・数学演習	Tutorial: Physics and Mathematics	1		1	17 credits total
		分析化学 I	Analytical Chemistry I	1.5		1	
		放射線化学	Radiochemistry	1.5		1	
		分析化学演習	Tutorial: Analytical Chemistry	1		2	
		分析化学・放射線化学実習	Practical Course: Analytical Chemistry and Radiochemistry	1		2	
		薬品物理化学演習	Tutorial: Physical Chemistry	1		2	
		薬品物理化学 I	Physical Chemistry I	1.5		2	
		薬品物理化学 II	Physical Chemistry II	1.5		2	
		分析化学 II	Analytical Chemistry II	1.5		2	
		放射線医療学	Radiobiology		1.5	2	
		機器分析学	Instrumental Analysis	1.5		2	
		物理化学実習	Practical Course: Physical Chemistry	1		3	
		生物物理化学	Biophysical Chemistry		1.5	3	
		構造解析学	Spectroscopic Analysis	1.5		3	
		日本薬局方概論	Introduction to the Japanese Pharmacopoeia	1.5		4	
	C H E M I S T R Y  C O U R S E	化学演習	Tutorial: Chemistry	1		1	15 credits (including 13.5 credits of required subjects and 1.5 credits of required elective subjects).
		有機薬化学演習	Tutorial: Organic Chemistry		1	1	
		薬化学総論	Introduction to Basic Chemistry		1.5	1	
		有機薬化学 I	Organic Chemistry I	1.5		1	
		有機薬化学実習	Practical Course: Organic Chemistry	1		2	
		生薬学実習	Practical Course: Pharmacognosy	1		2	
		有機薬化学 II	Organic Chemistry II	1.5		2	
		生薬学 I	Pharmacognosy I	1.5		2	
		生物有機化学	Biological Organic Chemistry	1.5		2	
		生薬学 II	Pharmacognosy II	1.5		2	
C O U R S E	化粧品学	Introduction to Cosmetics		1.5	2		
	薬品製造学 I	Medicinal Chemistry I	1.5単位を 選択必修 1.5 credits	1.5	3		
	薬品製造学 II	Medicinal Chemistry II		1.5	3		
	和漢薬概論	Introduction to Traditional Chinese Medicine	1.5		3		
	創薬化学	Medicinal Chemistry in Drug Discovery	1.5		6		

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M A J O R  C O U R S E W O R K	B A S I C  S C I E N C E S	B I O L O G Y  C O U R S E	生物学演習	Tutorial: Biology	1		2	20 credits total	
			機能形態学 I	Functional Anatomy I	1.5		1		
			生化学 I	Biochemistry I	1.5		1		
			機能形態学 II	Functional Anatomy II		1.5	1		
			機能形態学実習	Practical Course: Functional Anatomy	1		2		
			生化学実習	Biochemistry Practice	1		2		
			生化学 II	Biochemistry II	1.5		2		
			生化学 III	Biochemistry III	1.5		2		
			微生物学	Microbiology	1.5		2		
			細胞生物学	Cell Biology	1.5		2		
			免疫学	Immunology	1.5		2		
			分子細胞生化学演習	Tutorial: Molecular Biology, Cell Biology and Biochemistry		1	3		
			微生物学・免疫学実習	Practical Course: Microbiology and Immunology	1		3		
			分子生物学	Molecular Biology	1.5		3		
			病原微生物・ウイルス学	Pathogenic Microbiology and Virology	1.5		3		
	微生物・免疫学演習	Tutorial: Microbiology and Immunology	1		4				
	ゲノム創薬学	Genome Medicine and Drug Discovery	1.5		6				
	H Y G I E N I C  P H A R M A C Y	公衆衛生学 I	Public Hygiene I	1.5		2	11.5 credits total  1.5 or more credits of required elective subjects from hygienic pharmacy or clinical pharmacy (including 1.5 credits of a subject selected from 4 subjects marked with an asterisk)	5.5 or more credits of elective subjects from basic sciences, hygienic pharmacy, medical pharmacy, clinical pharmacy *1	
		衛生化学 I	Hygienic Chemistry I	1.5		2			
		公衆衛生学 II	Public Hygiene II	1.5		2			
		衛生薬学実習	Practical Course: Hygienic Chemistry	1		3			
		毒性学	Toxicology	1.5		3			
		衛生化学 II	Hygienic Chemistry II	1.5		3			
		環境科学	Environmental Science	1.5		3			
		裁判化学	Forensic Chemistry	1.5		3			
		臨床栄養学	Clinical Nutritional Sciences		1.5	3			
		健康薬学	Human Health Sciences	※	1.5	6			
		食品機能学	Food Sciences		1.5	6			
	M E D I C A L  P H A R M A C Y	臨床医学概論	Clinical Medicine (Primary Course)	1.5		2	29.5 credits total		
		薬理学 I (総論)	Pharmacology I (Principles of Pharmacology)	1.5		2			
		疾病学 I	Pathophysiology I	1.5		2			
		薬剤学	Pharmaceutics	1.5		2			
		薬理学 II (末梢-1・前臨床)	Pharmacology II	1.5		2			
薬剤学実習		Practical Course: Pharmaceutics	1		3				
薬理学実習		Practical Course: Pharmacology	1		3				
臨床生理学実習		Practical Course: Clinical Physiology	1		3				
薬理学 III (末梢-2)		Pharmacology III	1.5		3				
薬物治療学 I		Pharmacotherapeutics I	1.5		3				
臨床薬物代謝学		Clinical Drug Metabolism	1.5		3				
薬理学 IV (中枢)		Pharmacology IV	1.5		3				
微生物薬品学		Antibiotics and Related Drugs	1.5		3				
製剤学		Drug Formulation and Pharmaceutical Development	1.5		3				
疾病学 II		Pathophysiology II	1.5		3				
臨床検査学		Clinical Chemistry	1.5		3				
物理・生物薬剤学演習		Tutorial: Physico-/Bio-Pharmaceutics	1		4				
臨床生理学演習		Tutorial: Clinical Physiology		1	4				
薬物動態学		Pharmacokinetics and Pharmacodynamics	1.5		4				
医薬品安全性学		Drug Safety	1.5		4				
薬物治療学 II	Pharmacotherapeutics II	1.5		4					
薬物治療学 III	Pharmacotherapeutics III	1.5		4					

Divisions	Subjects(Japanese)	Subjects(English Translation)	Credits		Year	Requirements for Graduation	Notes				
			Required	Elective							
M A J O R  C O U R S E W O R K	P C H A I R N M I A C A Y L	医薬品情報論	Drug Information	1.5		3	45 credits total 1.5 or more credits of required elective subjects from hygienic pharmacy or clinical pharmacy (including 1.5 credits of a subject selected from 4 subjects marked with an asterisk)	5.5 or more credits of elective subjects from basic sciences, hygienic pharmacy, medical pharmacy, clinical pharmacy *1			
		病院薬学	Hospital Pharmacy	1.5		3					
		薬局経営学	Business Management for Drug Store and Pharmacy	1.5		3					
		医療統計学	Medical Statistics	1.5		3					
		臨床心理学	Clinical Psychology	1.5		4					
		調剤学	Dispensing Pharmacy	1.5		4					
		薬局管理学	Administration of Pharmacy	1.5		4					
		薬事関係法規	Law and Ethics	1.5		4					
		薬事関係法規演習	Tutorial: Law and Ethics		1	6					
		福祉と緩和ケア	Welfare and Palliative Care	※	1.5	6					
	治験コーディネート論	Clinical Research Coordination		1.5	6						
	P R A C T I C E	P R E P A R A T O R Y	調剤Ⅰ	Dispensing Practice I	3				4		
			調剤Ⅱ	Dispensing Practice II	3				4		
			生物薬剤	Biopharmaceutics	3				4		
			処方箋解析	Understanding Prescription	3				4		
			総合実習	Comprehensive Training	1				4		
			実務実習(病院・薬局)	Pharmacy Practice Experience (Hospital and Community Pharmacy)	20				5		
	C O M P R E H E N S I V E		総合基礎学習Ⅰ	Comprehensive Basic Seminar I	0.5				2	9 credits total	
			総合基礎学習Ⅱ	Comprehensive Basic Seminar II	0.5				3		
			総合演習Ⅰ	Comprehensive Seminar I	3				4		
			総合演習Ⅱ	Comprehensive Seminar II	1.5				5		
			総合演習ⅢA	Comprehensive Seminar IIIA	1.5				6		
			総合演習ⅢB	Comprehensive Seminar IIIB	2				6		
P H A R M A C E U T I C A L R E S E A R C H		卒業研究	Graduation Thesis	2		5	6 credits total				
		卒業研究	Graduation Thesis	4		6					

\*1 Included in the 5.5 credits, students may take up to 2 credits from the NICE Campus Nagasaki selection of subjects

\*2 Select from Major Course Work of Hygienic Pharmacy or Clinical Pharmacy