

Course		Subject Name	Credit		
			Spring Semester	Fall Semester	Total
Medical Sciences Division	Required Basic Subjects	Human Resource Development Education Program for Drug Discovery /創薬人材育成教育プログラム	2		2
		Regulatory Science/レギュラトリーサイエンス概論 (矢花・浅田)	1		1
		Biomedical Ethics I /社会・生命倫理学概論 I (塚田・谷口)	1		1
		Biomedical Ethics II /社会・生命倫理学概論 II (田中香お里)	1		1
		Internship/学外実習		1	1
	Elective Basic Subjects	Process Management/プロセスマネジメント概論 (山本・塚本)	1		1
		Overviews on Cellular Signaling/細胞シグナル制御学概論 (長岡)	1		1
		Chemistry for Drug Discovery/新薬論 (佐治木・井川)	1		1
		Pharmacogenomics/ファーマコゲノミクス (堀川)	1		1
		Controlled Drug Delivery Technology/薬物送達制御学 (田原)	1		1
		Introduction to Bioinformatics/バイオインフォマティクス概論 (武藤・一宮)	1		1
		AI for Drug Discovery : an introduction/AI創薬概論 (一宮・紀ノ定・田村)		1	1
		Protein Design for Functional Development/蛋白質機能開発工学 (横川)	1		1
		General Consideration of Clinical Research/臨床試験概論 (中村)	1		1
		Research and Intellectual Property/研究と知的財産 (細野)	1		1
		Life Sciences and Animal Protection/生命科学と動物愛護 (二上)	1		1
		Molecular Cellular & Organ Control Science/分子細胞臓器制御学 (桑田)	1		1
		Lifestyle-Related Diseases and Preventive Medicine/生活習慣病と予防医学 (山本眞)	1		1
		Topics for Pharmacy and Bioindustry/医薬バイオ産業論 (三好)		1	1
		The Pharma Business/国際医薬産業論 (ロドニー)	1		1
	Required Elective Major Subjects	Biofunctional Supramolecular Chemistry/生命機能超分子概論 (池田)	2		2
		Biotechnology for Drug Discovery/分子機能創薬学特論 (産総研)	2		2
		Advanced Mechanism of Cellular Systems/細胞システム学特論 (上田)	2		2
		Next-generation treatment and Diagnostics/次世代治療・診断学特論 (アステラス)	2		2
		Applied Molecular Pharmacology/分子医療創薬学特論 (産総研)	2		2
		Advanced Bioseparation Analytical Chemistry/生体精密分離分析化学特論 (江坂)	2		2
		Medicinal chemistry based on genomic information/ゲノム創薬化学論 (北出)	2		2
		Molecular Design for Search in Living System/生体探索分子設計学特論 (古山)		2	2
		Molecular Cell Biology & Technology/細胞機能分子工学特論 (大橋)		2	2
		Spectroscopic structural identification of organic compounds/有機構造解析学特論 (山本)		2	2
		Molecular Oncology/分子腫瘍学特論 (赤尾)		2	2
		New Methodology for the Synthesis of PET Probes/PETプローブ合成特論 (土居)	2		2
		Advanced topics in structure-function relationships of nucleic acids/核酸機能化学特論 (横川)		2	2
		Drug Discovery and Development/創薬探索学特論 (竹森)		2	2
		Antibodies in Medicine/抗体医薬特論 (鎌足)		2	2
Advanced Lecture of Protein Science/タンパク質科学特論 (本田)			2	2	
Synthetic Medicinal Chemistry/創薬有機化学特論 (喜多村)		2		2	
Advanced Drug Discovery Science/先端創薬科学特論			1	1	
Elective Major Subjects		Anaerobic Infectious Disease:Diagnosics and Therapeutics/嫌気性菌感染症治療学概論 (田中香)	2		2
		Higher Bio Informatics/高次生命情報学特論 (一宮)	2		2
	Clinical Nutrition, Endocrinology, and Metabolism/生体環境医療学特論(山本眞)	2		2	
	Advanced Immunopharmacology/免疫薬理学特論 (田中宏)	2		2	
	Structural Medicine/構造医学特論 (加藤)		2	2	
	Integrated Pharmacology/統合薬理学特論 (檜井)		2	2	
	Medical Imaging Technology/医用画像工学特論 (福岡)		2	2	
	Advanced Immunology and Allergy/免疫・アレルギー学特論 (寺田)		2	2	
	Imaging of Dementia: Diagnosis and Pathophysiological Investigation/認知症診断のためのイメージング特論 (加藤)		2	2	
	Genetic and Regenerative Medicine/遺伝子再生医療学特論 (船戸)		2	2	

	Developmental Genetics/発生遺伝学特論 (高島)		2	2
	Nuclear Medicine and molecular imaging of the brain/脳神経核医学特論(木村)		2	2
	Pathology for drug discovery and development/創薬のための病理学概説特論 (齊郷)		2	2
	Advanced Medical Information Sciences/先端医療情報学特論		1	1
Required Major Subjects	Drug Discovery and Development		2	2
Total				85

Course		Subject Name	Credit		
			1st Semester	2nd Semester	Total
Medicinal Information Sciences Division	Required Basic Subjects	Human Resource Development Education Program for Drug Discovery /創薬人材育成教育プログラム	2		2
		Regulatory Science/レギュラトリーサイエンス概論 (矢花・浅田)	1		1
		Biomedical Ethics I /社会・生命倫理学概論 I (塚田・谷口)	1		1
		Biomedical Ethics II /社会・生命倫理学概論 II (田中香お里)	1		1
		Internship/学外実習		1	1
	Elective Basic Subjects	Process Management/プロセスマネジメント概論 (山本眞・塚本)	1		1
		Overviews on Cellular Signaling/細胞シグナル制御学概論 (長岡)	1		1
		Chemistry for Drug Discovery/新薬論 (佐治木・井川)	1		1
		Pharmacogenomics/ファーマコゲノミクス (堀川)	1		1
		Controlled Drug Delivery Technology/薬物送達制御学 (田原)	1		1
		Introduction to Bioinformatics/バイオインフォマティクス概論 (武藤・一宮)	1		1
		AI for Drug Discovery : an introduction/AI創薬概論 (一宮・紀ノ定・田村)		1	1
		Statistical Methods in Medical/Pharmacological Research (一宮)	1		1
		General Consideration of Clinical Research/臨床理研概論 (中村)	1		1
		Research and Intellectual Property/研究と知的財産 (細野)	1		1
		Life Sciences and Animal Protection/生命科学と動物愛護 (二上)	1		1
		Molecular Cellular & Organ Control Science/分子細胞臓器制御学 (桑田)	1		1
		Lifestyle-Related Diseases and Preventive Medicine/生活習慣病と予防医学 (山本眞)	1		1
		Topics for Pharmacy and Bioindustry/医薬バイオ産業論 (三好)		1	1
		The Pharma Business/国際医薬産業論 (ロドニー)	1		1
Required Elective Major Subjects	Anaerobic Infectious Disease:Diagnosics and Therapeutics/嫌気性菌感染症治療学概論 (田中香)	2		2	
	Higher Bio Informatics/高次生命情報学特論 (一宮)	2		2	
	Clinical Nutrition, Endocrinology, and Metabolism/生体環境医療学特論(山本)	2		2	
	Advanced Immunopharmacology/免疫薬理学特論 (田中宏)	2		2	
	Structural Medicine/構造医学特論 (加藤)		2	2	
	Integrated Pharmacology/統合薬理学特論 (檜井)		2	2	
	Medical Imaging Technology/医用画像工学特論 (福岡)		2	2	
	Advanced Immunology and Allergy/免疫・アレルギー学特論 (寺田)		2	2	
	Imaging of Dementia: Diagnosis and Pathophysiological Investigation/認知症診断のためのイメージング特論 (加藤)		2	2	
	Genetic and Regenerative Medicine/遺伝子再生医療学特論 (船戸)		2	2	
	Developmental Genetics/発生遺伝学特論 (高島)		2	2	
	Nuclear Medicine and molecular imaging of the brain/脳神経核医学特論(木村)		2	2	
	Pathology for drug discovery and development/創薬のための病理学概説特論 (齊郷)		2	2	
	Advanced Medical Information Sciences/先端医療情報学特論		1	1	
	Elective Major Subjects	Biofunctional Supramolecular Chemistry/生命機能超分子概論 (池田)	2		2
Biotechnology for Drug Discovery/分子機能創薬学特論 (産総研)		2		2	
Advanced Mechanism of Cellular Systems/細胞システム学特論 (上田)		2		2	
Next-generation treatment and Diagnostics/次世代治療・診断学特論 (アステラス)		2		2	
Applied Molecular Pharmacology/分子医療創薬学特論 (産総研)		2		2	
Advanced Bioseparation Analytical Chemistry/生体精密分離分析化学特論 (江坂)		2		2	
Medicinal chemistry based on genomic information/ゲノム創薬化学論 (北出)		2		2	

	Molecular Design for Search in Living System/生体探索分子設計学特論 (古山)		2	2
	Molecular Cell Biology & Technology/細胞機能分子工学特論 (大橋)		2	2
	Spectroscopic structural identification of organic compounds/ 有機構造解析学特論 (山本)		2	2
	Molecular Oncology/分子腫瘍学特論 (赤尾)		2	2
	New Methodology for the Synthesis of PET Probes/PETプローブ合成特論 (土居)	2		2
	Advanced topics in structure-function relationships of nucleic acids/ 核酸機能化学特論 (横川)		2	2
	Drug Discovery and Development/創薬探索学特論 (竹森)		2	2
	Antibodies in Medicine/抗体医薬特論 (鎌足)		2	2
	Advanced Lecture of Protein Science/タンパク質科学特論 (本田)		2	2
	Synthetic Medicinal Chemistry/創薬有機化学特論 (喜多村)	2		2
	Advanced Drug Discovery Science/先端創薬科学特論		1	1
Required Major Subjects	Medical Informatics		2	2
	計			85