

I. KIKAN Education Courses 基幹教育科目

Categories 区分	Subject 授業科目(単位数)	Minimum Number of Credits Required by Course Category 科目区分毎の 最低修得単位数	Total 合計	
KIKAN Education Seminar (基幹教育セミナー)	KIKAN Education Seminar (基幹教育セミナー) (1)	1	44.5	
Interdisciplinary Collaborative Learning of Social Issues (課題協学科目)	Interdisciplinary Collaborative Learning of Social Issues(課題協学科目) (2.5)	2.5		
Subjects for Language and Culture (言語文化科目)	Intensive English: Japanese Issues I (1)	4		
	Intensive English: Japanese Issues II (1)			
	Academic English: Theme-Based (1)			
	Academic English: Skill-Based (1)			
	Integrated Courses:Beginners A (1)			
	Integrated Courses:Beginners B (1)			
	Integrated Courses:Elementary 1A (1)	6		
	Integrated Courses:Elementary 1B (1)			
	Integrated Courses:Elementary 2A (1)			
	Integrated Courses:Elementary 2B (1)			
	Integrated Courses:Pre-Intermediate A (1)			
	Integrated Courses:Pre-Intermediate B (1)			
	Integrated Courses:Intermediate 1A (1)			
	Integrated Courses:Intermediate 1B (1)			
	Integrated Courses:Intermediate 2A (1)			
	Integrated Courses:Intermediate 2B (1)			
	Integrated Courses:Pre-Advanced A (1)			
	Integrated Courses:Pre-Advanced B (1)			
	Integrated Courses:Advanced A (1)			
	Integrated Courses:Advanced B (1)			
	Kanji Courses:Elementary 1A (1)			4
	Kanji Courses:Elementary 1B (1)			
	Kanji Courses:Elementary 2A (1)			
	Kanji Courses:Elementary 2B (1)			
	Kanji Courses:Pre-Intermediate A (1)			
	Kanji Courses:Pre-Intermediate B (1)			
	Kanji Courses:Intermediate 1A (1)			
	Kanji Courses:Intermediate 1B (1)			
	Kanji Courses:Intermediate 2A (1)			
	Kanji Courses:Intermediate 2B (1)			
	Kanji Courses:Pre-Advanced A (1)			
	Kanji Courses:Pre-Advanced B (1)			
Kanji Courses:Advanced A (1)				
Kanji Courses:Advanced B (1)				
Subjects in Humanities and Social Science (文系デザイン科目)	Introduction to Law (法学入門) (2)	8		
	Introduction to Philosophy (哲学入門) (2)			
	Introduction to Japanese History (日本歴史入門) (2)			
	Introduction to Psychology (心理学入門) (2)			
	Global Issues (グローバル・イシュー(地球規模の問題)) (2)			
	Introduction to Economics (経済学入門) (2)			
	Intercultural Encounters (異文化コミュニケーション) (2)			
	Language and Communication in Society (社会のなかの言語とコミュニケーション) (2)			
Subjects in Science (理系デザイン科目) ★Required	★Computer Programming Exercise (情報処理演習) (1)	17		
	★Calculus I (微分積分学Ⅰ) (1)			
	★Calculus II (微分積分学Ⅱ) (1)			
	Calculus III (微分積分学Ⅲ) (1)			
	Calculus IV (微分積分学Ⅳ) (1)			
	★Linear Algebra I (線形代数Ⅰ) (1)			
	★Linear Algebra II (線形代数Ⅱ) (1)			
	Linear Algebra III (線形代数Ⅲ) (1)			
	Linear Algebra IV (線形代数Ⅳ) (1)			
	★Fundamental Physics I (基幹物理学Ⅰ) (1)			
	★Fundamental Physics II (基幹物理学Ⅱ) (1)			
	Fundamental Physics III (基幹物理学Ⅲ) (1)			
	Fundamental Physics IV (基幹物理学Ⅳ) (1)			
	Fundamental Physics V (基幹物理学Ⅴ) (1)			
	Fundamental Physics VI (基幹物理学Ⅵ) (1)			
	Fundamental Physics VII (基幹物理学Ⅶ) (1)			
	Fundamental Physics VIII (基幹物理学Ⅷ) (1)			
	★Basic Chemistry I (基礎化学Ⅰ) (1)			
	★Basic Chemistry II (基礎化学Ⅱ) (1)			
	★Fundamental Inorganic Chemistry I (基礎無機化学Ⅰ) (1)			
	★Fundamental Inorganic Chemistry II (基礎無機化学Ⅱ) (1)			
	Fundamental Organic Chemistry I (基礎有機化学Ⅰ) (1)			
	Fundamental Organic Chemistry II (基礎有機化学Ⅱ) (1)			
	★Fundamental Cell Biology I (基礎細胞生物学Ⅰ) (1)			
	★Fundamental Cell Biology II (基礎細胞生物学Ⅱ) (1)			
	★Introductory Biology I (生物学入門Ⅰ) (1)			
	★Introductory Biology II (生物学入門Ⅱ) (1)			
	Environmental Geoscience I (環境地球科学Ⅰ) (1)			
	Environmental Geoscience II (環境地球科学Ⅱ) (1)			
	★Basic Laboratory Experiments in Natural Science I (自然科学総合実験Ⅰ) (1)			
	★Basic Laboratory Experiments in Natural Science II (自然科学総合実験Ⅱ) (1)			
	Drawings on Technical Design I (図学Ⅰ) (1)			
Drawings on Technical Design II (図学Ⅱ) (1)				
Cybersecurity (サイバーセキュリティ科目)	Primary Course of Cyber Security - How to Survive the Cyber (サイバーセキュリティ基礎論) (1)	1		
Subject for Health and Sports Science (健康スポーツ科目)	Laboratory of Health and Sports Science (健康・スポーツ科学演習) (1)	1		
General Subject (総合科目)	Engagement with Volunteer I (社会連携ボランティアⅠ) (1)			
	Engagement with Volunteer II (社会連携ボランティアⅡ) (1)			
	Engagement with Internship I (社会連携インターンシップⅠ) (1)			
	Engagement with Internship II (社会連携インターンシップⅡ) (1)			

2.Specialized Courses 専攻教育

Categories 区 分	Subject 授 業 科 目	Minimum Number of Credits Required 最低修得単位数	
		Number of Credits by Course Category 科目区分毎の単位数	Total 合 計
Technical Communication テクニカルコミュニケーション	Technical Communication 1-I (テクニカルコミュニケーション1-I) (1) Technical Communication 1-II (テクニカルコミュニケーション1-II) (1) Technical Communication 2-I (テクニカルコミュニケーション2-I) (1) Technical Communication 2-II (テクニカルコミュニケーション2-II) (1) Technical Communication 3-I (テクニカルコミュニケーション3-I) (1) Technical Communication 3-II (テクニカルコミュニケーション3-II) (1)	6	
Tutorial チュートリアル	Introduction to Bioresource and Bioenvironmental Sciences 1-I (生物資源環境科学入門1-I) (1) Introduction to Bioresource and Bioenvironmental Sciences 1-II (生物資源環境科学入門1-II) (1) Introduction to Bioresource and Bioenvironmental Sciences 2-I (生物資源環境科学入門2-I) (1) Introduction to Bioresource and Bioenvironmental Sciences 2-II (生物資源環境科学入門2-II) (1)	4	
Common Basic Subjects 共通基礎・特別科目	Core Seminar I (コアセミナー I) (1) Core Seminar II (コアセミナー II) (1) Analytical Chemistry I (分析化学 I) (1) Analytical Chemistry II (分析化学 II) (1) Introductory Biochemistry I (生物化学 I) (1) Introductory Biochemistry II (生物化学 II) (1) Bio-organic Chemistry I (生物有機化学 I) (1) Bio-organic Chemistry II (生物有機化学 II) (1) Physiology I (生理学 I) (1) Physiology II (生理学 II) (1) Applied Cell Biology I (応用細胞生物学 I) (1) Applied Cell Biology II (応用細胞生物学 II) (1) Basic Ecology and Biology I (基礎生態生物学 I) (1) Basic Ecology and Biology II (基礎生態生物学 II) (1) Ecological Developmental Biology I (生態発生生物学 I) (1) Ecological Developmental Biology II (生態発生生物学 II) (1) Systematics, Diversity and Evolution I (分類学・系統進化学 I) (1) Systematics, Diversity and Evolution II (分類学・系統進化学 II) (1) General Physics I (一般物理 I) (1) General Physics II (一般物理 II) (1) Physical Mathematics and Practices I (物理数学・同演習 I) (2) Physical Mathematics and Practices II (物理数学・同演習 II) (1) Information Processing and Practices I (情報処理学・同演習 I) (2) Information Processing and Practices II (情報処理学・同演習 II) (1) Elementary Statistics I (統計学基礎 I) (1) Elementary Statistics II (統計学基礎 II) (1) Elementary Economics I (経済学基礎 I) (1) Elementary Economics II (経済学基礎 II) (1) Current Global Agricultural Issues I (国際関係論 I) (1) Current Global Agricultural Issues II (国際関係論 II) (1) Agricultural Field Visit 1 (実地見学 1) (1) Agricultural Field Visit 2 (実地見学 2) (1) Active Japanese 1 (1) Active Japanese 2 (1) Progressive Japanese 1 (1) Progressive Japanese 2 (1) Business Communication in Japanese (1) Scientific Japanese 1 (1) Scientific Japanese 2 (1)	30	
Specialized Subjects 専攻科目	Advanced in Bioresource and Bioenvironmental sciences 1 (生物資源環境科学特論 1) (1) Advanced in Bioresource and Bioenvironmental sciences 2 (生物資源環境科学特論 2) (1) Agricultural Economics I (農政経済学 I) (1) Agricultural Economics II (農政経済学 II) (1) Genetics and Plant Breeding (遺伝・育種学) (2) Agro-production Environmental Engineering I (生物生産環境工学 I) (1) Agro-production Environmental Engineering II (生物生産環境工学 II) (1) Agri-Food Production System Engineering I (生物生産システム工学 I) (1) Agri-Food Production System Engineering II (生物生産システム工学 II) (1) Crop Production and Physiology I (作物生産生理学 I) (1) Crop Production and Physiology II (作物生産生理学 II) (1) Plant Protection and Pest Management I (植物保護管理学 I) (1) Plant Protection and Pest Management II (植物保護管理学 II) (1) Special lecture on Agricultural Engineering and Economics 1 (農業工学・経済学特別講義 1) (1) Special lecture on Agricultural Engineering and Economics 2 (農業工学・経済学特別講義 2) (1) Special Lecture on Bioresource and Bioenvironmental sciences 1 (生物資源・生物環境科学特別講義 1) (1) Special Lecture on Bioresource and Bioenvironmental sciences 2 (生物資源・生物環境科学特別講義 2) (1) Microbiology I (微生物学 I) (1) Microbiology II (微生物学 II) (1) Molecular Biology I (分子生物学 I) (1) Molecular Biology II (分子生物学 II) (1) Bio-Engineering I (生命工学 I) (1) Bio-Engineering II (生命工学 II) (1) Food Science I (食品科学 I) (1) Food Science II (食品科学 II) (1) Special Lecture on Applied bioscience 1 (応用バイオサイエンス特別講義 1) (1) Special Lecture on Applied bioscience 2 (応用バイオサイエンス特別講義 2) (1) Forest Management I (森林管理学 I) (1) Forest Management II (森林管理学 II) (1) Forest Products Science I (森林資源学 I) (1) Forest Products Science II (森林資源学 II) (1) Biomaterial Science I (生物材料科学 I) (1) Biomaterial Science II (生物材料科学 II) (1) Special Lecture on Forest and Forest products 1 (森林・林産物特別講義 1) (1) Special Lecture on Forest and Forest products 2 (森林・林産物特別講義 2) (1) Environmental and Ecological Science for Animal Production I (動物生産・環境学 I) (1) Environmental and Ecological Science for Animal Production II (動物生産・環境学 II) (1) Animal Life Science (動物生命科学) (1) Marine Life Science (水産生命科学) (1) Utilization of Animal and Marine Resource I (動物資源利用学 I) (1) Utilization of Animal and Marine Resource II (動物資源利用学 II) (1) Special Lecture on Animal and Marine Science 1 (動物海洋学特別講義 1) (1) Special Lecture on Animal and Marine Science 2 (動物海洋学特別講義 2) (1)	14	82
Laboratory Subjects ラボラトリー科目	Laboratory Rotation 1 (生物資源環境学 1) (2) Laboratory Rotation 2 (生物資源環境学 2) (2)	4	
Fieldwork Practice Subjects 実験・演習科目	Bioresource and Bioenvironment Experiments and Practice C-I; Analytical chemistry (生物資源環境学実験・演習 C-I; 分析化学) (1) Bioresource and Bioenvironment Experiments and Practice C-II; Natural products chemistry (生物資源環境学実験・演習 C-II; 天然物化学) (1) Bioresource and Bioenvironment Experiments and Practice; Computational Biology (生物資源環境学実験・演習; 計算生物学) (1) Bioresource and Bioenvironment Experiments and Practice M-I; Molecular biology (生物資源環境学実験・演習; 分子生物学) (1) Bioresource and Bioenvironment Experiments and Practice M-II; Molecular biology (生物資源環境学実験・演習; 分子生物学) (1) Bioresource and Bioenvironment Experiments and Practice; Developmental biology and toxicology (生物資源環境学実験・演習; 発生生物学と毒性学) (1) Fieldwork on Bioresource and Bioenvironment 1 (生物資源環境学実習 1) (1) Fieldwork on Bioresource and Bioenvironment 2 (生物資源環境学実習 2) (1)	6	
Thesis 卒業研究科目	Seminar and Exercise Related to Graduation Thesis (卒業実験・演習) (2) Graduation Thesis (卒業研究) (8)	10	
Others その他	※ 2nd and 3rd-year students can take eight credits designing in the Common Basic subjects, Specialized subjects and some opened especially or temporary subjects. ※ Students in the Dual-Degree Program will take eight credits by International Exchange Seminars and Practices 1 & 2.	8	