

KUAS Bio - List of Specialized Courses (Department of Applied Biological Sciences)

Course Category		Course Name	Credits		Designated academic year			
			Mandatory	Elective	1st-year	2nd-year	3rd-year	4th-year
Courses Specialized by Department	Basic Courses	Biology	2		○	○	○	○
		Experimental Course in Biology		1	○	○	○	○
		Chemistry	2		○	○	○	○
		Experimental Course in Chemistry		1	○	○	○	○
		Earth Science*		2	○	○	○	○
		Experimental Course in Earth Science*		1	○	○	○	○
		Physics*		2	○	○	○	○
		Experimental Course in Physics*		1	○	○	○	○
		Introduction to Bioenvironmental Sciences	2		○	○	○	○
		Environmental Problems and Society		2	○	○	○	○
		The Frontiers of Biotechnology Industry*		2		○	○	○
		Bioenvironmental Science in a Society*		2		○	○	○
		Scientific Reading		2		○	○	○
		Practical Course in Crop Cultivation	2		○	○	○	○
		Field Practicum in Environmental Education*		2	○	○	○	○
	Basic Specialized Courses	Introduction to Applied Biological Sciences*		2	○	○	○	○
		Organic Chemistry		2	○	○	○	○
		Food Chemistry		2		○	○	○
		Biochemistry		2	○	○	○	○
		Plant Physiology*		2	○	○	○	○
		Introduction to Biomass Studies		2	○	○	○	○
		Introduction to Environmental and Bioresource Sciences*		2	○	○	○	○
		Biological Resources Science*		2	○	○	○	○
		Basic Ecology		2		○	○	○
		Chemical Ecology		2		○	○	○
		Microbiology		2		○	○	○
		Crop Biology		2		○	○	○
		Introduction to Nutrition*		2		○	○	○
		Soil Environmental Science*		2		○	○	○
		Practical Training in Food Processing*		2			○	○
		Trips for Learning Bioenvironmental Sciences	1				○	○
		Experimental Course in Applied Biological Sciences		2		○	○	○
		Experimental Course in Environmental and Bioresource Sciences		2		○	○	○
	Specialized Courses	Instrumental Analysis		2			○	○
		Cell Biology		2			○	○
		Molecular Biology*		2		○	○	○
		Physiology*		2		○	○	○
		Plant Biochemistry		2			○	○
		Applied Microbiology		2			○	○
		Food Analytical Chemistry*		2		○	○	○
		Food Processing		2			○	○
		Experimental Course in Organic Chemistry	3				○	○
		Experimental Course in Plant Science	3				○	○
		Genetic Engineering		2		○	○	○
		Environmental Studies		2		○	○	○
		Scientific Reading in English*		2			○	○
		Problem-Solving Skills A		1		○	○	○
		Problem-Solving Skills B		1		○	○	○
		Bioorganic Chemistry*		2			○	○
		Nutritional Science		2			○	○
		Plant Cell Engineering*		2			○	○
		Fermentation and Brewing Science*		2			○	○
		Food Pharmacology*		2			○	○
		Food Safety*		2			○	○
		Breeding and Genetics*		2			○	○
		SATOYAMA Studies		2			○	○
		Horticultural Science		2			○	○
		Environmental Modeling		2			○	○
		Water Environmental Sciences		2			○	○
		Conservation Ecology		2			○	○
		Theory of Regional Food and Agriculture		2			○	○
		Experimental Course in Molecular Biology	3				○	○
		Experimental Course in Applied Microbiology	3				○	○
		Experimental Course in Food Science	3				○	○
		Practical Course in Cultivation and Processing of Traditional Vegetables of Kyoto		2			○	○
		Pre-Graduation Research		2			○	○
		Seminar on Specialized Scientific Topics	4					○
		Graduation Research	8					○

*Offered in Japanese