

**KUAS Bio - List of Specialized Courses (Department of Environmental and Bioresource 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	○	○	○	○
		Physics*		2	○	○	○	○
		Experimental Course in Physics*		1	○	○	○	○
		Earth Science*		2	○	○	○	○
		Experimental Course in Earth Science*		1	○	○	○	○
		Introduction to Bioenvironmental Sciences	2		○	○	○	○
		The Frontiers of Biotechnology Industry*		2		○	○	○
		Bioenvironmental Science in a Society*		2		○	○	○
		Practical Course in Crop Cultivation	2		○	○	○	○
		Environmental Problems and Society		2	○	○	○	○
		Scientific Reading		2		○	○	○
		Field Practicum in Environmental Education*		2	○	○	○	○
	Basic Specialized Courses	Biological Resources Science*		2	○	○	○	○
		Soil Environmental Science*		2		○	○	○
		Introduction to Applied Biological Sciences*		2	○	○	○	○
		Introduction to Environmental and Bioresource Sciences*		2	○	○	○	○
		Food Chemistry		2		○	○	○
		Chemical Ecology		2		○	○	○
		Biochemistry		2	○	○	○	○
		Microbiology		2		○	○	○
		Trips for Learning Bioenvironmental Sciences	1				○	○
		Environmental Chemistry*		2		○	○	○
		Experimental Course in Environmental Chemistry*		1		○	○	○
		Experimental Course in Environmental Biology*		1	○	○	○	○
		Crop Biology		2		○	○	○
		Training in Dendrology*		2		○	○	○
		Basic Ecology	2			○	○	○
		Introduction to Biomass Studies		2	○	○	○	○
		Experimental Course in Environmental and Bioresource Sciences		2		○	○	○
		Experimental Course in Applied Biological Sciences		2		○	○	○
		Practical Training in Bioenvironmental Sciences A*		1	○	○	○	○
		Practical Training in Bioenvironmental Sciences B*		1	○	○	○	○
	Specialized Courses	Water Environmental Sciences		2			○	○
		Experimental Course in Water Environmental Sciences		3			○	○
		Woody Plant Health*		2			○	○
		Practical Course in Woody Plant Health*		1			○	○
		Wildlife Management*		2		○	○	○
		Utilization of Biological Resources*		2			○	○
		SATOYAMA Studies		2			○	○
		Experimental Course in SATOYAMA Studies		3			○	○
		Genetic Engineering		2		○	○	○
		Environmental Studies		2		○	○	○
Ecology*			2		○	○	○	
Conservation Ecology			2			○	○	
Seminar in Ecology			2			○	○	
Landscape Ecology and Planning*			2			○	○	
Training in Landscape Ecology and Planning			3			○	○	
Food Processing			2			○	○	
Community Development*			2			○	○	
Theory of Regional Food and Agriculture			2			○	○	
Crop Science*			2		○	○	○	
Plant Biochemistry			2			○	○	
Breeding and Genetics*			2			○	○	
Horticultural Science			2			○	○	
Practical Course in Cultivation and Processing of Traditional Vegetables of Kyoto			2			○	○	
Vocational Guidance I *			2		○	○	○	
Vocational Guidance II *			2			○	○	
Environmental Modeling			2			○	○	
Instrumental Analysis			2			○	○	
Applied Microbiology			2			○	○	
Cell Biology			2			○	○	
Nutritional Science			2			○	○	
Pre-Graduation Research		2			○	○		
Problem-Solving Skills A		1		○	○	○		
Problem-Solving Skills B		1		○	○	○		
Seminar on Specialized Scientific Topics	4					○		
Graduation Research	8					○		

\*Offered in Japanese