

**2023 AAP Course Master's Program Guide**

**Special Course from Asia, Africa and the Pacific Rim**

Shikoku Education Consortium

Enacted 2008.9.22 (2008 年 9 月 22 日制定)



# **2023 AAP Course Master's Program Guide**

## **Shikoku Education Consortium**

### **Special Course from Asia, Africa and the Pacific Rim**

The education of students from Asia, Africa and the Pan-Pacific nations is administered by Shikoku Education Consortium in the Special Course from Asian, African, and the Pacific Rim (hereafter AAP Special Course). The AAP Special Course was developed for international students pursuing a Master's Degree at Graduate School of Agriculture of Kagawa University and Ehime University, or a Master Degree in Integrated Arts and Sciences at Kochi University (Hereafter all programs will be referred to as Master's Degree at Graduate School of Agriculture).

This program aims to cultivate students who have knowledge and technical skill based on advanced research which focuses on environmentally friendly and sustainable agriculture, forestry, fisheries, and agri-food industry. A Master's Degree in Agriculture will be awarded to students that successfully demonstrate an in-depth understanding of course materials and complete a master's thesis.

Students accepted in this course will be assigned to the Graduate School Agriculture Research Course of Kagawa University, Ehime University, and Kochi University. To meet graduation requirements, students are required to complete the following credits:

## **1) Compulsory subjects:**

### **•Introductory and developmental subjects**

First-year student seminar	1 credit
International agriculture, forestry and fisheries seminar	1 credit
Survival Japanese	1 credit
Summer seminar	2 credits
General agriculture	1 credit
Total	6 credits

### **•Research subjects related to planning, presentation and writing**

Research planning	1 credit
Research experiment / investigation I	2 credits
Research experiment / investigation II	2 credits
Research experiment / investigation III	2 credits
Research experiment / investigation IV	2 credits
Research presentation I	1 credit
Research presentation II	1 credit
Thesis writing	1 credit
Total	12 credits

### **•Special seminar subjects**

Special seminar on bioresource management I	1 credit
Special seminar on bioresource management II	1 credit
Special seminar on bioresource management III	1 credit
Special seminar on bioresource management IV	1 credit
Total	4 credits

## **2) Elective subjects:**

Students are required to take 6 subjects, for a total of 6 credits, as elective subjects from the specialized subjects. Furthermore, students are required to take 1 practical subject, for 2 credits, of the 3 offered practical subjects (Field study, Studies on Japanese culture/Community exchange, Internship). Students select subjects from approved subjects for the AAP Special Course (Please refer pp.8-27) after consulting with their academic supervisor and academic advisor. If students have the approval of their academic supervisor, students may be able to select specialized courses not listed in AAP Special Course offerings. This provision is subject to the approval of the respective University Faculty.

**Students must complete a total of 30 credits with a passing grade to be eligible for graduation.**

Subjects will be marked on the following scale:

- S: 90% and above
- A: 80-89%
- B: 70-79%
- C: 60-69%
- D: 59% and below

S, A, B, and C are judged as passing grades. Specific requirements for the submission of the master's thesis are determined by the respective university. The master's thesis must be approved by the academic supervisor prior to submission to the Dean of the Graduate School of Agriculture. All regulations and rules, except those related to the course curriculum and completion requirements for the AAP Special Course, shall be determined by the respective university's graduate school agriculture research course.

	Subjects section (科目区分)		Credits (単位)
Compulsory subjects (必修科目)	Introductory and developmental subjects (入門・展開科目)		6 credits
	Research subjects (研究科目)	Research subjects related to planning, presentation and writing	12 credits
		Special seminar subjects	4 credits
Elective subjects (選択必修科目)	Specialized subjects (専門科目)		6 credits or above
	Practical subjects (実践科目)		2 credits
Total (合計)			30 credits or above

Compulsory and elective subjects in the AAP special course program in the graduate course of Kagawa, Ehime and Kochi universities

1. Introductory and developmental subjects (Compulsory subjects) (入門・展開科目/必修科目)

Course subject code No. (授業コード)*1	Special course subject (授業科目)	Credits (単位)	Classes per week (週授業コマ数)				Lecturer or instructor (担当教員)
			1st year (1年)		2nd year (2年)		
			Spring term (春学期)	Fall term (秋学期)	Spring term (春学期)	Fall term (秋学期)	
Kagawa 970011 Ehime 2 6 X 0 5 Kochi 1 B F 0 1	First-year student seminar*2 (新入生セミナー)	1	1 must take in your first year				Staff of Kagawa, Ehime and Kochi universities (香川・愛媛・高知大教員)
Kagawa 970016 Ehime 2 6 X 0 6 Kochi 1 B G 0 2	International agriculture, forestry and fisheries seminar*3 (国際農林水産学セミナー)	1		1			Staff of Kagawa, Ehime and Kochi universities (香川・愛媛・高知大教員)
Kagawa 970020 Ehime 2 6 X 0 2 Kochi 1 B F 0 2	Survival Japanese*2 (サバイバル日本語)	1	1 must take in your first year				Staff of Kagawa, Ehime and Kochi universities (香川・愛媛・高知大教員)
Kagawa 970025 Ehime 1 6 X 0 0 Kochi 1 B G 0 1	Summer seminar*4 (サマーセミナー)	2	2				Staff of Kagawa, Ehime and Kochi universities (香川・愛媛・高知大教員)
Kagawa 970030 Ehime 2 6 X 0 3 Kochi 1 B G 0 3	General agriculture*3 (総合農学セミナー)	1	1 ( 0.2 credits 5 subjects )				Staff of Kagawa, Ehime and Kochi universities (香川・愛媛・高知大教員)

Note

Spring term: April-September Fall term: October-March (春学期: 4月~9月 秋学期: 10月~3月)

\*1 Class codes may differ at each university. (授業コードは、各大学で異なる。)

\*2 Methodology and duration may differ at each university. (実施時期および方法は、各大学で異なる。)

\*3 Conducted as joint teleconferencing sessions by the 3 universities. (原則として、3大学間 TV 共同授業で行う。)

\*4 Conducted as a joint intensive session by the 3 universities (3大学間共同で、集中合宿により行う。)

2. Research subjects (Compulsory subjects) (研究科目／必修科目)

Course subject code No. (授業コード)*1	Special course subject (授業科目)	Credits (単位)	Classes per week (週授業コマ数)				Lecturer or instructor (担当教員)
			1st year (1年)		2nd year (2年)		
			Spring term (春学期)	Fall term (秋学期)	Spring term (春学期)	Fall term (秋学期)	
Kagawa 970110 Ehime*2 Kochi*2	Research planning (生物資源管理研究計画法)	1	1 must take in your first term				Advising professors (指導教員)
Kagawa 970111 Ehime*2 Kochi*2	Research experiment・investigation I (生物資源管理実験・調査I)	2	2 must take in your first term				Advising professors (指導教員)
Kagawa 970112 Ehime*2 Kochi*2	Research experiment・investigation II (生物資源管理実験・調査II)	2	2 must take in your second term				Advising professors (指導教員)
Kagawa 970113 Ehime*2 Kochi*2	Research experiment・investigation III (生物資源管理実験・調査III)	2			2 must take in your first term		Advising professors (指導教員)
Kagawa 970114 Ehime*2 Kochi*2	Research experiment・investigation IV (生物資源管理実験・調査IV)	2			2 must take in your second term		Advising professors (指導教員)
Kagawa 970115 Ehime*2 Kochi*2	Research presentation I (研究プレゼンテーション技法I)	1			1 must take in your first term		Advising professors (指導教員)
Kagawa 970116 Ehime*2 Kochi*2	Research presentation II (研究プレゼンテーション技法II)	1			1 must take in your second term		Advising professors (指導教員)
Kagawa 970117 Ehime*2 Kochi*2	Thesis writing (科学論文作成法)	1			1 must take in your second term		Advising professors (指導教員)

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\*2 Class codes may differ at each advising professor. (授業コードは、各指導教員で異なる。)

Course subject code No. (授業コード)*1	Special course subject (授業科目)	Credits (単位)	Classes per week (週授業コマ数)				Lecturer or instructor (担当教員)
			1st year (1年)		2nd year (2年)		
			Spring term (春学期)	Fall term (秋学期)	Spring term (春学期)	Fall term (秋学期)	
Kagawa 970121 Ehime*2 Kochi*2	Special seminar on bioresource management I (生物資源管理特別演習 I)	1	1 must take in your first term				Advising professors (指導教員)
Kagawa 970122 Ehime*2 Kochi*2	Special seminar on bioresource management II (生物資源管理特別演習 II)	1	1 must take in your second term				Advising professors (指導教員)
Kagawa 970123 Ehime*2 Kochi*2	Special seminar on bioresource management III (生物資源管理特別演習 III)	1			1 must take in your first term		Advising professors (指導教員)
Kagawa 970124 Ehime*2 Kochi*2	Special seminar on bioresource management IV (生物資源管理特別演習 IV)	1			1 must take in your second term		Advising professors (指導教員)

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\*2 Class codes may differ at each advising professor. (授業コードは、各指導教員で異なる。)

### 3. Specialized subjects (Elective subjects) (専門科目／選択必修科目)

6 subjects (1 credit × 6 subjects) are to be selected from the list on pp. 8~27.

(8~28頁の表にある授業から、合計6授業(1単位×6授業)を選択する。)



4. Practical subjects (Elective subjects) (実践科目／選択必修科目)

One subject is to be selected from the following three subjects. (下記の3授業から1授業を選択する。)

Course subject code No. (授業コード)*1	Special course subject (授業科目)	Credits (単位)	Classes per week (週授業コマ数)				Lecturer or instructor (担当教員)
			1st year (1年)		2nd year (2年)		
			Spring term (春学期)	Fall term (秋学期)	Spring term (春学期)	Fall term (秋学期)	
Kagawa 970209 Ehime*3 Kochi 1 B F 0 3	Field study (フィールドスタディー)	2	2		2		Staff of Kagawa, Ehime and Kochi universities (香川・愛媛・高知大教員)
Kagawa 970210 Ehime 2 6 X 0 4 Kochi 1 B F 0 4	Orientation training: Studies on Japanese culture/Community exchange*2 (日本事情・地域交流)	2	2		2		Staff of Kagawa, Ehime and Kochi universities (香川・愛媛・高知大教員)
Kagawa 970211 Ehime*3 Kochi 1 B F 0 5	Internship (インターンシップ)	2	2		2		Staff of Kagawa, Ehime and Kochi universities (香川・愛媛・高知大教員)

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\*3 Class codes may differ at each advising professor. (授業コードは、各指導教員で異なる。)

(3. Specialized subjects (Elective subjects) (専門科目／選択必修科目))

Totally 6 subjects (1 unit × 6 subjects) are to be selected from the following list.

(下表の授業から、合計 6 授業 (1 単位×6 授業) を選択する。)

Course subject code No. (授業コード)*1	Special course subject (授業科目)	Credits (単位)	Classes per week*2 (週授業コマ数)				Lecturer or instructor (担当教員)	
			1st year (1年)		2nd year (2年)		Name (氏名)	University (大学)
			Spring term (春学期)	Fall term (秋学期)	Spring term (春学期)	Fall term (秋学期)		
Bioresource Production Science／Plant Resource Production							Kagawa	
970310	Introduction of horticultural production and technology	1		1			MOCHIOKA, Ryosuke	Kagawa
970315	Advanced vegetable crop production	1	1				OKUDA, Nobuyuki	Kagawa
970320	Postharvest physiology in horticulture	1	1				KOSUGI, Yusuke	Kagawa
970325	Fruit production and improvement	1	1				BEPPU, Kenji	Kagawa
970330	Crop ecophysiology	1	1				TOYOTA, Masanori	Kagawa
970480	Crop production science	1	1				TOYOTA, Masanori	Kagawa
970481	Crop production science II	1		1			MOROKUMA, Masahiro	Kagawa
Bioresource Production Science／Plant and Animal Production under Structure							Kagawa	
970340	Propagation and breeding of horticultural resources	1				1	TAKAMURA, Takejiro	Kagawa
970515	Advanced floricultural science	1	1				NARUMI, Takako	Kagawa
970530	Advanced animal production science I	1	1				MATSUMOTO, Yoshiki	Kagawa

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\*2 If time schedule is not specified, ask it to the lecturer directly or through your advising professor. (開講時期が明示されていない場合は、直接あるいは指導教員を通じて授業担当教員に確認すること。)

Course subject code No. (授業コード)*1	Special course subject (授業科目)	Credits (単位)	Classes per week*2 (週授業コマ数)				Lecturer or instructor (担当教員)	
			1st year (1年)		2nd year (2年)		Name (氏名)	University (大学)
			Spring term (春学期)	Fall term (秋学期)	Spring term (春学期)	Fall term (秋学期)		
Bioresource Production Science/Business and Agricultural Economics							Kagawa	
970485	Agricultural economics	1	1				MUTO, Yukio	Kagawa
970490	Agricultural marketing and development	1			1		MUTO, Yukio	Kagawa
Applied Bioresource Science/Food Science							Kagawa	
970360	Food protein functionalities	1	1				OGAWA, Masahiro	Kagawa
970365	Mycotoxins and food safety	1	1				KAWAMURA, Osamu	Kagawa
970375	Molecular nutrition and flavor chemistry of functional foods	1		1			YONEKURA, Lina	Kagawa
970380	Applied enzymology	1				1	WATANABE, Akira · TAKATA, Goro · MORIMOTO, Kenji	Kagawa
Applied Bioresource Science/Bioresource Science for Manufacturing								
970385	Advanced biophysical chemistry	1				1	FUKADA, Kazuhiro	Kagawa
970390	Bioorganic chemistry and plant biochemistry	1		1			YANAGITA, Ryo	Kagawa
970395	Plant nutrition	1		1			NOMURA, Mika	Kagawa
970410	Advanced wood biomass chemistry and tree biochemistry	1		1			SUZUKI, Toshisada	Kagawa
970535	Bioactive natural products chemistry	1				1	SATO, Masashi	Kagawa
970540	Biomolecules: Basics and recent developments	1		1			KONG, Lingbing	Kagawa

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			1st year (1年)		2nd year (2年)		Name (氏名)	University (大学)
			Spring term (春学期)	Fall term (秋学期)	Spring term (春学期)	Fall term (秋学期)		
Applied Bioresource Science/Bioresource Science for Manufacturing							Kagawa	
970415	Molecular biology and biochemistry of extremophiles	1		1			SAKURABA, Haruhiko	Kagawa
970495	Molecular and cellular biology	1		1			TABUCHI, Mitsuaki	Kagawa
970500	Applied microbiology	1		1			TANAKA, Naotaka	Kagawa
970505	Animal cell biology	1	1				SUGIYAMA, Yasunori SUEYOSHI, Noriyuki	Kagawa
970520	Molecular plant stress response II	1	1				ICHIMURA, Kazuya	Kagawa
970525	Molecular plant pathology	1		1			AKIMITSU, Kazuya	Kagawa
970545	Microbial and plant metabolism	1	1				MOCHIZUKI, Susumu	Kagawa
970550	Bacterial biochemistry	1				1	KATO, Shiro	Kagawa
Life Environment Conservation Science/Environmental Science							Kagawa	
970420	Material cycles and biological processes in the shallow coastal water environment	1		1			ICHIMI, Kazuhiko ・TADA, Kuninao	Kagawa
970425	Limnology	1			1		YAMADA, Yoshihiro	Kagawa
970430	Behavior of biophilic elements in the marine environment	1		1			TADA, Kuninao ・ICHIMI, Kazuhiko	Kagawa
970510	Evolutionary ecology	1		1			YASUI, Yukio	Kagawa
970555	Plants in ecological systems	1		1			KOBAYASHI, Tsuyoshi	Kagawa

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Course subject code No. (授業コード)*1	Special course subject (授業科目)	Credits (単位)	Classes per week*2 (週授業コマ数)				Lecturer or instructor (担当教員)	
			1st year (1年)		2nd year (2年)		Name (氏名)	University (大学)
			Spring term (春学期)	Fall term (秋学期)	Spring term (春学期)	Fall term (秋学期)		
Bioresource Production Science/Plant Resource Production							Ehime	
	Crop production physiology	1	1				ARAKI, Takuya	Ehime
	Molecular genetics of plant virus resistance	1		1			KOBAYASHI, Kappei	Ehime
	Soil fertility and plant production	1	1				UENO, Hideto	Ehime
	Organismal ecology and evolution	1	1				KAMIYA, Koichi	Ehime
	Terrestrial global productivity	1	1				TSUZUKI, Hayato	Ehime
Bioresource Production Science/Plant and Animal Production under Structure							Ehime	
	Information technology	1		1			HATO, Kenji	Ehime

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			1st year (1年)		2nd year (2年)		Name (氏名)	University (大学)
			Spring term (春学期)	Fall term (秋学期)	Spring term (春学期)	Fall term (秋学期)		
Bioresource Production Science/Aquaculture and Livestock Production							Ehime	
	Conservation genetics	1		1			TAKAGI, Motohiro Ehime	
	Fish reproductive physiology	1		1			MIURA, Takeshi Ehime	
Bioresource Production Science/Bioresource Economics							Ehime	
	Agricultural land management	1		1			MATSUOKA, Atsushi Ehime	
	Social management system of coastal zone	1			1 or	1	TAKENOUCHI, Naruhito Ehime	
Bioresource Production Science/Food Science							Ehime	
	Nutritional epidemiology	1	1				MARUYAMA, Kotatsu Ehime	

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Course subject code No. (授業コード)*1	Special course subject (授業科目)	Credits (単位)	Classes per week*2 (週授業コマ数)				Lecturer or instructor (担当教員)	
			1st year (1年)		2nd year (2年)		Name (氏名)	University (大学)
			Spring term (春学期)	Fall term (秋学期)	Spring term (春学期)	Fall term (秋学期)		
Applied Bioresource Science/Bioresource Science for Manufacturing							Ehime	
	Organic chemistry	1	1				YAMAUCHI, Satoshi	Ehime
	Organic synthesis	1			1		YAMAUCHI, Satoshi	Ehime
	Cellular regulation technology	1	1				SUGAHARA, Takuya	Ehime
	Mode of action of bioactive molecules in foods	1		1			NISHI, Kosuke	Ehime
	Chemistry of wood products	1		1			ITO, Kazutaka	Ehime
	Genetic engineering and molecular biology	1		1			AKIYAMA, Koichi	Ehime
	Wood science and technology	1		1			SUGIMORI, Masatoshi	Ehime
	Biomass conversion	1	1 or	1			EDASHIGE, Yusuke	Ehime

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Course subject code No. (授業コード)*1	Special course subject (授業科目)	Credits (単位)	Classes per week*2 (週授業コマ数)				Lecturer or instructor (担当教員)	
			1st year (1年)		2nd year (2年)		Name (氏名)	University (大学)
			Spring term (春学期)	Fall term (秋学期)	Spring term (春学期)	Fall term (秋学期)		
Life Environment Conservation Science/Land Conservation and Irrigation Engineering							Ehime	
	Biospheric aspects of atmospheric and hydrological processes	1		1 or		1	OUE, Hiroki	Ehime
	Wastewater treatment and reuse	1	1				HARUTA, Shinsuke	Ehime
Life Environment Conservation Science/Environmental Science							Ehime	
	Taxonomy and systematics	1		1			YOSHITOMI, Hiroyuki	Ehime
	Conservation of shallow water ecosystem	1		1 or		1	TAKEUCHI, Ichiro	Ehime
	Environmental physical chemistry	1	1				MATSUE, Naoto	Ehime

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\*2 If time schedule is not specified, ask it to the lecturer directly or through your advising professor. (開講時期が明示されていない場合は、直接あるいは指導教員を通じて授業担当教員に確認すること。)



Course subject code No. (授業コード)*1	Special course subject (授業科目)	Credits (単位)	Classes per week*2 (週授業コマ数)				Lecturer or instructor (担当教員)	
			1st year (1年)		2nd year (2年)		Name (氏名)	University (大学)
			Spring term (春学期)	Fall term (秋学期)	Spring term (春学期)	Fall term (秋学期)		
Agriculture, Forestry, Bioresource and Environmental Sciences Course							Kochi	
1 BH 0 1	Advanced Agriculture, Forestry, Bioresource and Environmental Sciences I-I	2	2				Staff of Kochi university	Kochi
	Advanced Agriculture, Forestry, Bioresource and Environmental Sciences I-II							
1 BH 0 2	Advanced Agriculture, Forestry, Bioresource and Environmental Sciences II-I	2	2				Staff of Kochi university	Kochi
	Advanced Agriculture, Forestry, Bioresource and Environmental Sciences II-II							

Note

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			Spring term (春学期)	Fall term (秋学期)	Spring term (春学期)	Fall term (秋学期)		
Agriculture, Forestry, Bioresource and Environmental Sciences Course							Kochi	
1 BH 0 3	Advanced Tropical and Warm Temperate-zone Fruit Science I	2	2				NAKANO, Michiharu	Kochi
	Advanced Tropical and Warm Temperate-zone Fruit Science II							
1 BH 0 5	Advanced Vegetable Crop Science I	2	2				NISHIMURA, Yasuyo	Kochi
	Advanced Vegetable Crop Science II							
1 BH 0 6	Advanced Local Resources Utilization I	2		2			MASUDA, Kazuya	Kochi
	Advanced Local Resources Utilization II							
1 BH 0 7	Advanced Animal Science I	2			2		MATSUKAWA, Kazutsugu	Kochi
	Advanced Animal Science II							
1 BH 0 9	Advanced Crop Science I	2		2			MIYAZAKI, Akira	Kochi
	Advanced Crop Science II							
1 BH 1 3	Advanced Behavioural Ecology I	2		2			ITO, Katsura	Kochi
	Advanced Behavioural Ecology II							
1 BH 1 4	Advanced Biodiversity Management I	2			2		SUZUKI, Noriyuki	Kochi
	Advanced Biodiversity Management II							

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Agriculture, Forestry, Bioresource and Environmental Sciences Course							Kochi	
1 B H 1 5	Advanced Ecological Biochemistry I	2	2				TEBAYASHI, Shin-ichi	Kochi
	Advanced Ecological Biochemistry II							
1 B H 1 6	Advanced Agricultural Meteorology I	2		2			MORI, Makito	Kochi
	Advanced Agricultural Meteorology II							
1 B H 1 7	Advanced Plant Resources and Functional Science I	2	2				SAKATA, Mitsukazu	Kochi
	Advanced Plant Resources and Functional Science II							
1 B H 1 8	Advanced lecture on forest products I	2		2			ICHIURA, Hideaki	Kochi
	Advanced lecture on forest products II							
1 B H 1 9	Advanced tropical forest tree ecophysiology I	2	2				ICHIE, Tomoaki	Kochi
	Advanced tropical forest tree ecophysiology II							
1 B H 2 0	Advanced lecture on forest engineering I	2		2			SUZUKI, Yasushi	Kochi
	Advanced lecture on forest engineering II							
1 B H 2 3	Advanced Food Production Process Technology I	2	2				KAWANO, Toshio	Kochi
	Advanced Food Production Process Technology II							

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Agriculture, Forestry, Bioresource and Environmental Sciences Course							Kochi	
1 B H 2 4	Advanced Water Environmental Engineering I	2		2			IHARA, Masaru	Kochi
	Advanced Water Environmental Engineering II							
1 B H 2 7	Advanced Environmental Water Management Engineering I	2	2				SATO, Shushi	Kochi
	Advanced Environmental Water Management Engineering II							
1 B H 2 9	Advanced Geographic Information Science I	2	2				HASHIMOTO, Naoyuki	Kochi
	Advanced Geographic Information Science II							
Agricultural Chemistry Course							Kochi	
1 B L 0 1	Advanced Plant Growth Environmental Science I	2	2				MORITSUKA, Naoki	Kochi
	Advanced Plant Growth Environmental Science II							
1 B L 0 2	Advanced Plant Nutrition I	2	2				UENO, Daisei	Kochi
	Advanced Plant Nutrition II							
1 B L 0 3	Advanced Soil Environmental Science I	2	2				KANG, Yumei	Kochi
	Advanced Soil Environmental Science II							

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Agricultural Chemistry Course							Kochi	
1 B L 0 4	Advanced Soil Science and Ecology I	2	2				TANAKA Sota	Kochi
	Advanced Soil Science and Ecology II							
1 B L 0 5	Advanced Plant-Microbe Interactions Study I	2		2			HIKICHI, Yasufumi	Kochi
	Advanced Plant-Microbe Interactions Study II							
1 B L 0 6	Advanced Plant Pathology I	2	2				KIBA, Akinori	Kochi
	Advanced Plant Pathology II							
1 B L 0 7	Advanced Animal Reproduction Technology I	2		2			EDASHIGE, Keisuke	Kochi
	Advanced Animal Reproduction Technology II							
1 B L 0 8	Advanced Biomaterials Chemistry I	2		2			ASHIUCHI, Makoto	Kochi
	Advanced Biomaterials Chemistry II							
1 B L 1 1	Advanced Food Functional Chemistry I	2	2				KASHIWAGI, Takehiro	Kochi
	Advanced Food Functional Chemistry II							
1 B L 1 2	Advanced Food Chemistry I	2	2				SHIMAMURA, Tomoko	Kochi
	Advanced Food Chemistry II							
1 B L 1 5	Advanced Microbial Molecular Genetics I	2	2				OHNISHI, Kouhei	Kochi
	Advanced Microbial Molecular Genetics II							

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Agricultural Chemistry Course							Kochi	
1 B N 0 1	Plant Growth Environmental Science Laboratory I	2		2			MORITSUKA, Naoki	Kochi
	Plant Growth Environmental Science Laboratory II							
1 B N 0 2	Plant Growth Environmental Science Laboratory III	2	2				MORITSUKA, Naoki	Kochi
	Plant Growth Environmental Science Laboratory IV							
1 B N 0 3	Plant Growth Environmental Science Laboratory V	2				2	MORITSUKA, Naoki	Kochi
	Plant Growth Environmental Science Laboratory VI							
1 B N 0 4	Plant Growth Environmental Science Laboratory VII	2			2		MORITSUKA, Naoki	Kochi
	Plant Growth Environmental Science Laboratory VIII							
1 B N 0 5	Plant Nutrition Laboratory I	2		2			UENO, Daisei	Kochi
	Plant Nutrition Laboratory II							
1 B N 0 6	Plant Nutrition Laboratory III	2	2				UENO, Daisei	Kochi
	Plant Nutrition Laboratory IV							

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Agricultural Chemistry Course							Kochi	
1 B N 0 7	Plant Nutrition Laboratory V	2				2	UENO, Daisei	Kochi
	Plant Nutrition Laboratory VI							
1 B N 0 8	Plant Nutrition Laboratory VII	2			2		UENO, Daisei	Kochi
	Plant Nutrition Laboratory VIII							
1 B N 0 9	Soil Environmental Science Laboratory I	2		2			KANG, Yumei	Kochi
	Soil Environmental Science Laboratory II							
1 B N 1 0	Soil Environmental Science Laboratory III	2	2				KANG, Yumei	Kochi
	Soil Environmental Science Laboratory IV							
1 B N 1 1	Soil Environmental Science Laboratory V	2				2	KANG, Yumei	Kochi
	Soil Environmental Science Laboratory VI							
1 B N 1 2	Soil Environmental Science Laboratory VII	2			2		KANG, Yumei	Kochi
	Soil Environmental Science Laboratory VIII							
1 B N 1 3	Soil Science Laboratory I	2		2			TANAKA Sota	Kochi
	Soil Science Laboratory II							
1 B N 1 4	Soil Science Laboratory III	2	2				TANAKA Sota	Kochi
	Soil Science Laboratory IV							
1 B N 1 5	Soil Science Laboratory V	2				2	TANAKA Sota	Kochi
	Soil Science Laboratory VI							
1 B N 1 6	Soil Science Laboratory VII	2			2		TANAKA Sota	Kochi
	Soil Science Laboratory VIII							

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Agricultural Chemistry Course							Kochi	
1 B N 1 7	Plant-Microbe Interactions Study seminar Laboratory I	2		2			HIKICHI, Yasufumi	Kochi
	Plant-Microbe Interactions Study seminar Laboratory II							
1 B N 1 8	Plant-Microbe Interactions Study seminar Laboratory III	2	2				HIKICHI, Yasufumi	Kochi
	Plant-Microbe Interactions Study seminar Laboratory IV							
1 B N 1 9	Plant-Microbe Interactions Study seminar Laboratory V	2				2	HIKICHI, Yasufumi	Kochi
	Plant-Microbe Interactions Study seminar Laboratory VI							
1 B N 2 0	Plant-Microbe Interactions Study seminar Laboratory VII	2			2		HIKICHI, Yasufumi	Kochi
	Plant-Microbe Interactions Study seminar Laboratory VIII							
1 B N 2 1	Plant Pathology Laboratory I	2		2			KIBA, Akinori	Kochi
	Plant Pathology Laboratory II							
1 B N 2 2	Plant Pathology Laboratory III	2	2				KIBA, Akinori	Kochi
	Plant Pathology Laboratory IV							
1 B N 2 3	Plant Pathology Laboratory V	2				2	KIBA, Akinori	Kochi
	Plant Pathology Laboratory VI							
1 B N 2 4	Plant Pathology Laboratory VII	2			2		KIBA, Akinori	Kochi
	Plant Pathology Laboratory VIII							

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Agricultural Chemistry Course							Kochi	
1 B N 2 5	Animal Reproduction Technology Laboratory I	2		2			EDASHIGE, Keisuke	Kochi
	Animal Reproduction Technology Laboratory II							
1 B N 2 6	Animal Reproduction Technology Laboratory III	2	2				EDASHIGE, Keisuke	Kochi
	Animal Reproduction Technology Laboratory IV							
1 B N 2 7	Animal Reproduction Technology Laboratory V	2				2	EDASHIGE, Keisuke	Kochi
	Animal Reproduction Technology Laboratory VI							
1 B N 2 8	Animal Reproduction Technology Laboratory VII	2			2		EDASHIGE, Keisuke	Kochi
	Animal Reproduction Technology Laboratory VIII							
1 B N 2 9	Biomaterials Chemistry Laboratory I	2		2			ASHIUCHI, Makoto	Kochi
	Biomaterials Chemistry Laboratory II							
1 B N 3 0	Biomaterials Chemistry Laboratory III	2	2				ASHIUCHI, Makoto	Kochi
	Biomaterials Chemistry Laboratory IV							
1 B N 3 1	Biomaterials Chemistry Laboratory V	2				2	ASHIUCHI, Makoto	Kochi
	Biomaterials Chemistry Laboratory VI							
1 B N 3 2	Biomaterials Chemistry Laboratory VII	2			2		ASHIUCHI, Makoto	Kochi
	Biomaterials Chemistry Laboratory VIII							

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Agricultural Chemistry Course							Kochi	
1 B N 4 1	Food Functional Chemistry Laboratory I	2		2			KASHIWAGI, Takehiro	Kochi
	Food Functional Chemistry Laboratory II							
1 B N 4 2	Food Functional Chemistry Laboratory III	2	2				KASHIWAGI, Takehiro	Kochi
	Food Functional Chemistry Laboratory IV							
1 B N 4 3	Food Functional Chemistry Laboratory V	2				2	KASHIWAGI, Takehiro	Kochi
	Food Functional Chemistry Laboratory VI							
1 B N 4 4	Food Functional Chemistry Laboratory VII	2			2		KASHIWAGI, Takehiro	Kochi
	Food Functional Chemistry Laboratory VIII							
1 B N 4 5	Food Chemistry Laboratory I	2		2			SHIMAMURA, Tomoko	Kochi
	Food Chemistry Laboratory II							
1 B N 4 6	Food Chemistry Laboratory III	2	2				SHIMAMURA, Tomoko	Kochi
	Food Chemistry Laboratory IV							
1 B N 4 7	Food Chemistry Laboratory V	2				2	SHIMAMURA, Tomoko	Kochi
	Food Chemistry Laboratory VI							
1 B N 4 8	Food Chemistry Laboratory VII	2			2		SHIMAMURA, Tomoko	Kochi
	Food Chemistry Laboratory VIII							

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Agricultural Chemistry Course							Kochi	
1 B N 5 7	Microbial Molecular Genetics Laboratory I	2		2			OHNISHI, Kouhei	Kochi
	Microbial Molecular Genetics Laboratory II							
1 B N 5 8	Microbial Molecular Genetics Laboratory III	2	2				OHNISHI, Kouhei	Kochi
	Microbial Molecular Genetics Laboratory IV							
1 B N 5 9	Microbial Molecular Genetics Laboratory V	2				2	OHNISHI, Kouhei	Kochi
	Microbial Molecular Genetics Laboratory VI							
1 B N 6 0	Microbial Molecular Genetics Laboratory VII	2			2		OHNISHI, Kouhei	Kochi
	Microbial Molecular Genetics Laboratory VIII							
Marine Resource Science Course							Kochi	
1 B P 0 4	Advanced Aquatic Environmental Science I	2	2				ADACHI, Masao	Kochi
	Advanced Aquatic Environmental Science II							
1 B P 0 5	Advanced Coastal Ecology and Conservation I	2	2				IKEJIMA, Kou	Kochi
	Advanced Coastal Ecology and Conservation II							

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Marine Resource Science Course							Kochi	
1 B P 1 0	Advanced Marine Biotechnology I	2		2			ADACHI, Kohsuke	Kochi
	Advanced Marine Biotechnology II							
1 B P 1 1	Advanced Fish Ecology I	2	2				NAKAMURA, Yohei	Kochi
	Advanced Fish Ecology II							
1 B P 1 2	Advanced Fish Nutrient Physiology I	2		2			FUKADA, Haruhisa	Kochi
	Advanced Fish Nutrient Physiology II							
1 B P 1 3	Advanced Aquatic Microbial Ecology I	2		2			YAMAGUCHI, Haruo	Kochi
	Advanced Aquatic Microbial Ecology II							
1 B P 2 8	Advanced Food Science and Nutrition I	2		2			KUBOTA, Satoshi	Kochi
	Advanced Food Science and Nutrition II							
1 B P 2 9	Advanced Marine Virology I	2	2				NAGASAKI, Keizo	Kochi
	Advanced Marine Virology II							
1 B P 3 2	Advanced Microbiology I	2	2				TERAMOTO, Maki	Kochi
	Advanced Microbiology II							
1 B P 3 3	Advanced Molecular Pharmacology I	2	2				NAMBA, Takushi	Kochi
	Advanced Molecular Pharmacology II							

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