4.5. Course List of Environmental Engineering for Symbiosis Major

4.5.1. Master's Program (For students entering in 2019 and after)

4.5.1.1 Code	Master's Program (For students entering in 2 Course Title	Credits	Year	Semester	Class instructors	Remark
	e Courses (14 credits or more)	Torcaits	rcar	Ocinicator	Olass Instructors	Remark
	Environmental Chemistry Field>					
	Geochemistry	2	1.2	Spring	Khatri Pradeep	
	Biogeochemistry	2	1.2	Fall	YAMAMOTO Shuichi	
	Environmental Soil Science	2	1.2	Spring	SATO Shinjiro	*ET/DD
	re Science Field>			-18		
	Methods for Ecological Study	2	1.2	Spring	FURUYA Ken	*ET
	Microbial Ecology	2	1.2	Spring	KUROSAWA Norio	*ET/DD
	Restoration Ecology	2	1.2	Fall	TODA Tatsuki	*ET/DD
	Environmental Biology	2	1.2	Summer Intensive	Victor S. KUWAHARA	*ET
<environr< td=""><td>nental Response Engineering Field></td><td>L</td><td></td><td>l .</td><td></td><td></td></environr<>	nental Response Engineering Field>	L		l .		
	Physical Chemistry	2	1.2	Spring	MATSUYAMA Tatsushi	DD
ENES522	Organic Chemistry of Environmental Substances	2	1.2	TBD	TBD	*ET
	Environmental Toxicology	2	1.2	TBD	TBD	
		2	1.2	Fall	KUROSAWA Norio	DD
	Physiologically Active Substances	2	1.7	rall	WATANABE Mitsugu	טט
	ble Environmental Engineering Field>		1.0	F 11	TD 4 T . 11	*ET/DD
	Environmental Process Engineering	2	1.2	Fall	IDA Junichi	*ET/DD
	Green and Sustainable Chemistry	2	1.2	Spring	NAKASAKI Kiyohiko	*ET(O)/DD
	Engineering of Resource and Energy	2	1.2	Fall	MATSUYAMA Tatsushi	*ET
	Environmental Materials Science	2	1.2	Spring	IDA Junichi	DD
	n Courses> Introduction to Technical Presentations		1.2	TDD	TDD	
		2	1.2	TBD	TBD	DD
ENES514	Society and Environmental Technology	2	1.2	Spring	YAMAMOTO Shuichi	DD
ENES515	Engineering for Developing Countries	2	1.2	Fall	NAKASAKI Kiyohiko TAKAGI Isao	DD
					SATO Shinjiro	
	Sustainable Development Technology	2	1.2	Fall	TODA Tatsuki	*ET/*1
ENES523					IDA Junichi	
					IMAMURA Hiroki	
ENES516	Current Topics in Ecological Study	2	1.2	Summer Intensive	SATO Shinjiro	
ENES550	Special Lectures: Intellectual Property	2	1.2	Spring	UNEMI Tatsuo	
				. •	TORII Naoya	
ENES517	Internship in Graduate Course	2	1.2	Sp/Fall	MATSUYAMA Tatsushi	
ENES518	Instrumental Analysis 1	2	1.2	Summer Intensive	MATSUYAMA Tatsushi	
ENIEG510	T	_	1.2	Winte	MATSUYAMA Tatsushi	
	Instrumental Analysis 2	2		Intensive	TODA Tatsuki	
*The foll	owing courses are offered by ISS Major, but can be counted as	elective	credi	its for EES		
INFO528	Presentation Skills 1	2	1.2	Spring	UNEMI Tatsuo	
					Colin Rundle UNEMI Tatsuo	
INFO529	Presentation Skills 2	2	1.2	Fall	Colin Rundle	
ORequir	ed Courses (17 credits) *16 credits are required for students ent	ering in 2	2019-2	2021, exclud		
ENES520	Scientific English Writing	2	1.2	Fall	Victor S. KUWAHARA SATO Shinjiro	*ET/DD
ENES570	Research Ethics	1	1	Spring	KAWAI Hideki IYOTA Taketoshi	*ET/*2
ENES600	Advanced Seminar in Environmental Engineering for Symbiosis 1	2	1	Sp/Fall	Each Supervisor	
ENES601	Advanced Seminar in Environmental Engineering for Symbiosis 2	2	1	Sp/Fall	Each Supervisor	
	Advanced Seminar in Environmental Engineering for Symbiosis 3	2	2	Sp/Fall	Each Supervisor	
	Advanced Seminar in Environmental Engineering for Symbiosis 4	2	2	Sp/Fall	Each Supervisor	
	Advanced Research in Environmental Engineering for Symbiosis 1	2	1	Sp/Fall	Each Supervisor	
	Advanced Research in Environmental Engineering for Symbiosis 2	2	1	Sp/Fall	Each Supervisor	
	Advanced Research in Environmental Engineering for Symbiosis 3	2	2	Sp/Fall	Each Supervisor	
ENES607	Advanced Research in Environmental Engineering for Symbiosis 4	2	2	Sp/Fall	Each Supervisor	

^{*1:} Sustainable Development Technology [ENES523] is a course offered for students entering in 2022–; students in 2019–2021 are not required to take this course.

^{*2:} Research Ethics [ENES570] is a course offered for students entering in 2022; students in 2019–2021 are not required to take this course.

^{**}The "*ET" in the Remarks indicates that the course is an English Track course; an "E" or "O" after "ET" indicates that the course is offered as an English Track course in an even or odd year in the Western calendar. Courses with "*ET" may be offered in Japanese if there are no students enrolled in the English Track.

^{**}Courses marked with "DD" in the remarks column are designated courses that must be completed before studying in Spain.

4.5.2. Doctoral Program (For students entering in 2019 and after)

Code	Course Title	Credits	Year	Semester	Class instructors	Remark		
ORequired Courses (28 credits)								
ENES720	Advanced Scientific English Writing 1	2	1.2	Spring	Each Supervisor			
ENES721	Advanced Scientific English Writing 2	2	1.2	Fall	Each Supervisor			
ENES700	Advanced Seminar in Environmental Engineering for Symbiosis 5	2	1	Sp/Fall	Each Supervisor			
ENES701	Advanced Seminar in Environmental Engineering for Symbiosis 6	2	1	Sp/Fall	Each Supervisor			
ENES702	Advanced Seminar in Environmental Engineering for Symbiosis 7	2	2	Sp/Fall	Each Supervisor			
ENES703	Advanced Seminar in Environmental Engineering for Symbiosis 8	2	2	Sp/Fall	Each Supervisor			
ENES704	Advanced Seminar in Environmental Engineering for Symbiosis 9	2	3	Sp/Fall	Each Supervisor			
ENES705	Advanced Seminar in Environmental Engineering for Symbiosis 10	2	3	Sp/Fall	Each Supervisor			
ENES706	Advanced Research in Environmental Engineering for Symbiosis 5	2	1	Sp/Fall	Each Supervisor			
ENES707	Advanced Research in Environmental Engineering for Symbiosis 6	2	1	Sp/Fall	Each Supervisor			
ENES708	Advanced Research in Environmental Engineering for Symbiosis 7	2	2	Sp/Fall	Each Supervisor			
ENES709	Advanced Research in Environmental Engineering for Symbiosis 8	2	2	Sp/Fall	Each Supervisor			
ENES710	Advanced Research in Environmental Engineering for Symbiosis 9	2	3	Sp/Fall	Each Supervisor			
ENES711	Advanced Research in Environmental Engineering for Symbiosis 10	2	3	Sp/Fall	Each Supervisor			

4.6. Instructors teaching research guidance courses

Fiel	d		Name	Remark
Global Environmental	- Environmental and Ecological System Engineering	Professor	SATO Shinjiro	
Chemistry		Associate professor	Khatori Pradeep	Master's Program Only
		Professor	FURUYA Ken	
Biosphere Science		Professor	TODA Tatsuki	
Biosphere Science		Professor	KUROSAWA Norio	
		Professor	Victor S. KUWAHARA	
Sustainable	Environmental Chemistry System Engineering	Professor	MATSUYAMA Tatsushi	
Environmental		Professor	IDA Junichi	
Engineering		Professor	NAKASAKI Kiyohiko	