

		Mon.	Tue.	Wed.	Thu.	Fri.	Intensive courses and other courses (Dates to be determined)	
First Half, First Semester 2018	1	ESD	Advanced Course in Hydrological Cycle [J/E] SATO SUGIMOTO C204-2	Introduction to Practical Science for Environment I [J] YAMANAKA C204-2 Introduction to Global Environmental Management [E] OKINO & others D102	Advanced Course in Hydrological Cycle [J/E] SATO SUGIMOTO C204-2			[Inter-Graduate School Classes] Introduction to Environmental Science [J] (April 9-11): YAMANAKA & others D201 Introduction to Environmental Science [E] (April 9-11): WATANABE & others D102
		ESS			Advanced Course in Environmental Analytical Chemistry [J] Y WATANABE & others C202	Advanced Course in Atmospheric Chemistry [J] MIYAZAKI D102	Advanced Course in Chemical Oceanography [J] NISHIOKA & others C202	Special Lecture in Earth System Science III [J] (Intensive courses for Course in Atmosphere-Ocean and Climate Dynamics): Dates TBD Special Lecture in Earth System Science IV [J] (Intensive courses for Course in Geochemistry): TAKAHASHI Dates TBD Special Lecture in Earth System Science I [J] (Intensive courses for Course in Cryosphere Science): NAKAI Dates TBD
		BS	Fundamental Lecture in Molecular Biology [J/E] MORIKAWA & others D101				Advanced Course in Agricultural Environment for Crop Production I [J/E] ARAKI HOSHINO FSC 106	
	2	EMS	Course in Materials Science II [J/E] TAKANO D103	Advanced Course in Environmental Catalytic Chemistry II [E] KOWALSKA D103	Course in Materials Science I [J/E] YAGI D103	Advanced Course in Environmental Catalytic Chemistry I [J/E] OHTANI D103	Course in Materials Science III [J/E] MATSUDA D103	
		ESD		Introduction to Environmental Adaptation [J] NORO & others C204-1 Introduction to Practical Science for Environment I [J] YAMANAKA C204-2	Advanced Course in Mathematical Analysis in Ecology [J/E] TAKADA & others A809 Advanced Course in Environmental Geoinformatics [E] AVTAR C204-2	Advanced Course in Mathematical Analysis in Ecology [J/E] TAKADA & others A809 Advanced Course in Environmental Geoinformatics [E] AVTAR C204-2	Introduction to Environmental Adaptation [J] NORO & others C204-1	Advanced Course in Forest Sphere Science I [J] (Ecosystem function): SATOH & others (June) (Uryu-Nakagawa-Teshio) Advanced Course in Forest Sphere Science II [J] (Forest Dynamics): HIURA & others (June) Advanced Course in Forest Sphere Science III [J] (Conservation Biology): SAITOH & others (Teshio) (Dates TBD) Fundamental Lecture in Biomass Production [J]: YAMAHA and others (Dates TBD)
		ESS	Fundamental Lecture in Atmosphere-Ocean Physics [J] OSHIMA FUJIWARA D102 Fundamental Lecture in Atmosphere-Ocean Physics [E] HASEBE YOSHIMORI C202	Advanced Course in Geophysical Fluid Dynamics [J] KUBOKAWA D102	Fundamental Lecture in Atmosphere-Ocean Physics [J] OSHIMA FUJIWARA D102 Fundamental Lecture in Atmosphere-Ocean Physics [E] HASEBE YOSHIMORI C202	Advanced Course in Paleoclimatology [J] YAMAMOTO CHIKARAISHI SEKI D102	Advanced Course in Atmospheric and Oceanographic Data Analysis [J/E] FUKAMACHI AOKI D102	
	3	BS	Advanced Course in Animal Ecology I [J/E] NODA KOIZUMI SAITOH D101	Fundamental Lecture in Marine Biological Processes [J/E] KUDO YOSHIMURA SHIMIZU D101	Advanced Course in Animal Ecology I [J/E] NODA KOIZUMI SAITOH D101	Fundamental Lecture in Marine Biological Processes [J/E] KUDO YOSHIMURA SHIMIZU D101		Special Lecture in Environmental Materials Science I: II + III + IV (Dates TBD)
		EMS	Course in Materials Science III [J/E] MATSUDA D103	Advanced Course in Environmental Nano-Materials Chemistry I [J/E] KAMIYA HIROKAWA D103	Course in Materials Science II [J/E] TAKANO D103	Advanced Course in Molecular Environmental Science I [J/E] OHTANI D103	Course in Materials Science I [J/E] YAGI D103	
		ESD				Advanced Course in Academic English Writing for Environmental Sciences [E] Joseph KARUZIS D101	Introduction to Environment Analysis [J] FUJII D101	
	4	ESS	Fundamental Lecture in Paleoclimatology and Paleoceanography [J/E] YAMAMOTO SEKI IRINO MATOBA IIZUKA D103	Fundamental Lecture in Marine and Atmospheric Chemistry [J/E] SUZUKI & others D103	Fundamental Lecture in Marine and Atmospheric Chemistry [J/E] SUZUKI & others D103	Advanced Course in Polar Oceanography [J] OSHIMA AOKI TOYODA D103	Fundamental Lecture in Paleoclimatology and Paleoceanography [J/E] YAMAMOTO SEKI IRINO MATOBA IIZUKA D103	
		BS	Advanced Course in Plant Ecology I [J/E] SUMIDA HARA ONO HASEGAWA LT2F			Advanced Course in Environmental Molecular Biology I [J/E] FUKUI MORIKAWA YAMAGUCHI OCHIAI KASAHARA D102		
		ESD	Introduction to Global Environmental Management [E] OKINO & others D102					
5	ESS		Fundamental Lecture in Cold Region Sciences [J/E] T WATANABE & others D102	Advanced Course in Environmental Meteorology [J] HASEBE T WATANABE KAWASHIMA D102	Fundamental Lecture in Cold Region Sciences [J/E] T WATANABE & others D102			
	BS	Advanced Course in Plant Ecology I [J/E] SUMIDA HARA ONO HASEGAWA LT2F						
	ESD		Introduction to Practical Science for Environment II [J] YAMANAKA D103					

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Time [1st] 8:45-10:15 [2nd] 10:30-12:00 [3rd] 13:00-14:30 [4th] 14:45-16:15 [5th] 16:30-18:00

Venue [A, B, C, D]Faculty of Environmental Earth Science Bldg. A, B, C, D [LT2F]Institution of Low Temperature Science 2F(215) [LT3F]Institution of Low Temperature Science 3F(N311) [FSC]Field Science Center of Northern Biosphere Bldg. [RB]FSC Research Bldg. 2F [TM] Tomakomai FSC [H]School of Fisheries Sciences [NF]FSC North Administration Section [U]FSC Uryu (Moshiri) [T]FSC Teshio [N]FSC Nakagawa [M]Muroan Marine Station

[INFO]Information Incentive Center

Language [E]Conducted in English [J/E]Whether it is conducted in English or Japanese will be decided after finishing students registration [J]Conducted in Japanese

First Half,
First Semester 2018

		Mon.	Tue.	Wed.	Thu.	Fri.	Intensive courses and other courses (Dates to be determined)										
Second Half, First Semester 2018	1	ESD		Advanced Course in Environmental Pollution Comparison [E]	TOYODA & others	D101		Special Lecture in Environmental Science Development I [J] (September 25-27): YAMAGATA (D102)									
		ESS		Advanced Course in Remotesensing Applications [J]	EBUCHI & others	D102	Advanced Course in Environmental Analytical Chemistry [J]	Y WATANABE & others	C202	Advanced Course in Atmospheric Chemistry [J]	MIYAZAKI	D102	Advanced Course in Chemical Oceanography [J]	NISHIOKA & others	C202	Special lecture in Environmental Science Development II [E] (August 6-8): A SATOH, YAMASHITA (D201)	
		BS	Fundamental Lecture in Molecular Biology [J/E]	MORIKAWA & others	D101									Advanced Course in Agricultural Environment for Crop Production I [J/E]	ARAKI HOSHINO	FSC 106	Special Lecture in Environmental Science Development III [E] (June 11-14):KAWAKAMI (C204-1)
	2	EMS		Advanced Course in Environmental Catalytic Chemistry II [E]	KOWALSKA	D103				Advanced Course in Environmental Catalytic Chemistry I [J/E]	OHTANI	D103	Advanced Course in Molecular Photonics and Electronics Science II [J]	NAKAMURA	D103		
		ESD		Advanced Course in Environmental Adaptation [J]	KURASAKI & others	D101	Advanced Course in Conservation Ecology [J/E]	TAKADA & others	INFO 2F	Advanced Course in Conservation Ecology [J/E]	TAKADA & others	INFO 2F	Advanced Course in Environmental Adaptation [J]	KURASAKI & others	D101	Special Lecture in Biosphere Science I [J/E] : (Late September) Special Lecture in Biosphere Science II [J/E] : (August or September)	
		ESS	Advanced Course in Ocean Dynamics [J]	MITSUDERA	D101	Advanced Course in Geophysical Fluid Dynamics [J]	KUBOKAWA	D102	Advanced Course in Atmospheric Dynamics [J]	HORINOUCI	D102	Advanced course in Paleoclimatology [J]	YAMAMOTO CHIKARAISHI SEKI	D102	Advanced Course in Atmospheric and Oceanographic Data Analysis [J/E]	FUKAMACHI AOKI	D102
	3	BS															
		EMS	Advanced Course in Biomaterials Chemistry I [J/E]	SAKAIRI	D103	Advanced Course in Environmental Nano-Materials Chemistry I [J/E]	KAMIYA HIROKAWA	D103	Advanced Course in Biomaterials Chemistry I [J/E]	SAKAIRI	D103	Advanced Course in Molecular Environmental Science I [J/E]	OHTANI	D103	Advanced Course in Molecular Photonics and Electronics Science II [J]	NAKAMURA	D103
		ESD								Advanced Course in Academic English Writing for Environmental Sciences [E]	Joseph KARUZIS	D101	Introduction to Environment Analysis [J]	FUJII	D101		
	4	ESS		Advanced Course in Hydrologic Cycle in Cryosphere [J]	ISHII SONE MATSUZAWA	LT3F	Advanced Course in Remotesensing Applications [J]	EBUCHI & others	D103	Advanced Course in Polar Oceanography [J]	OSHIMA AOKI TOYODA	D103					
		BS	Advanced Course in Biodiversity Science I [J/E]	KOHYAMA KUBO	A809					Advanced Course in Environmental Molecular Biology I [J/E]	FUKUI MORIKAWA YAMAGUCHI OCHIAI KASAHARA	D102					
		EMS															
	5	ESD	Advanced Course in Environmental Pollution Comparison [E]	TOYODA & others	D101												
		ESS		Advanced Course in Hydrologic Cycle in Cryosphere [J]	ISHII SONE MATSUZAWA	LT3F	Advanced Course in Environmental Meteorology [J]	HASEBE T WATANABE KAWASHIMA	D102								
		BS	Advanced Course in Biodiversity Science I [J/E]	KOHYAMA KUBO	A809	Advanced Course in Aquatic Biology I [J]	MOTOMURA & others	Marine Stations		Advanced Course in Aquatic Biology I [J]	MOTOMURA & others	Marine Stations					
5	ESD		Introduction to Practical Science for Environment II [J]	YAMANAKA	D103												
	ESS																
	BS																

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Second Half,
First Semester 2018

		Mon.	Tue.	Wed.	Thu.	Fri.	Intensive courses and other courses (Dates to be determined)												
First Half, Second Semester 2018	1	ESD		Advanced Course in Water Resources [E]	SHIRAWA D102	Advanced Course in Water Resources [E]	SHIRAWA D102										Fundamental Lecture in Environmental Science [E] (October 1-3):KURASAKI (C204-1)		
		ESS			Advanced Course in Ocean Biogeochemistry [E]		NISHIOKA & others	C202			Advanced Course in Ocean Biogeochemistry [E]	NISHIOKA & others	C202						
		EMS			Course in Materials Science III [J/E]	KONISHI D103				Course in Materials Science I [J/E]	OHTANI D103	Course in Materials Science II [E]	TOYODA D103						Advanced Course in Forest Sphere Science IV (Regional Resources Management) [J/E]: T YOSHIDA & others (Early to mid-October)
	2	ESD	Advanced Course in Environmental Metrology [J]	TOYODA & others C204-2	Advanced Course in Natural Environmental Studies [J/E]	TSUYUZAKI NEGISHI SATO D102	Advanced Course in Environmental Metrology [J]	TOYODA & others C204-2	Advanced Course in Watershed Environmental Science [J/E]	NEGISHI & others C202	Advanced Course in Watershed Environmental Science [J/E]	NEGISHI & others C202	Advanced Course in Natural Environmental Studies [J/E]	TSUYUZAKI NEGISHI SATO D102					
		ESS	Advanced Course in Ocean Dynamics [J]	MITSUDERA D102	Advanced Course in Climate Dynamics [J]	TANIMOTO C202	Advanced Course in Atmospheric Dynamics [J]	HORINOUCI D102											
		BS	Advanced Course in Animal Ecology II [J/E]	SAITOH NODA AGETSUMA KOIZUMI OHDACHI D101	Advanced Course in Marine Environmental Biogeochemistry I [J/E]	KUDO YOSHIMURA D101	Advanced Course in Animal Ecology II [J/E]	SAITOH NODA AGETSUMA KOIZUMI OHDACHI D101	Advanced Course in Marine Environmental Biogeochemistry I [J/E]	KUDO YOSHIMURA D101	Advanced Course in Biodiversity Science II [J/E]	G KUDO & others A809	Advanced Course in Environment and Management in Livestock Production [J/E]	KAWAI ARAKI FSC 106					
	3	EMS	Advanced Course in Environmental Nano-Materials Chemistry II [J/E]	KONISHI SHICIBU D103	Advanced Course in Biomaterials Chemistry II [J/E]	MATSUDA D103	Advanced Course in Environmental Nano-Materials Chemistry III [J/E]	YAGI D103	Advanced Course in Molecular Environmental Science II [J/E]	All the teaching staff of the division	D103	Advanced Course in Molecular Photonics and Electronics Science I [E]	BJU TAKANO D103						
		ESD	Advanced Course in Climate Change Impacts [E]	SATO & others C202	Advanced Course in Environmental Conservation [J/E]	TSUYUZAKI C204-2						Advanced Course of International Science Communication Methods [E]	TOYODA GREVE AVTAR D101						
		ESS			Advanced Course in Biogeoscience [J]	SUGIMOTO YAMASHITA D103	Advanced Course in Meteorology and Climate in Cold Regions [J]	T WATANABE LT2F	Advanced Course in Climate Modeling [J]	NAKAMURA YOSHIMORI KAWASHIMA D103	Advanced Course in Paleoclimatology and Biomarker Geochemistry [E]	YAMAMOTO CHIKARASHI SEKI D102							
	4	BS	Advanced Course in Plant Ecology II [J/E]	SUMIDA ONO HASEGAWA LT2F			Advanced Course in Environmental Molecular Biology II [J/E]	YAMAZAKI WASHIO MIWA C202	Advanced Course in Biodiversity Science II [J/E]	G KUDO & others A809	Advanced Course in Environmental Molecular Biology II [J/E]	YAMAZAKI WASHIO MIWA C202							
		ESD	Advanced Course in Climate Change Impacts [E]	SATO & others C202															
		ESS	Advanced Course in Glacier/Ice Sheet Science [J/E]	SUGIYAMA SONE MATOBA IIZUKA LT2F	Advanced Course in Biogeoscience [J]	SUGIMOTO YAMASHITA D103	Advanced Course in Meteorology and Climate in Cold Regions [J]	T WATANABE LT2F	Advanced Course in Theoretical Glaciology [E]	GREVE LT2F									
	5	BS			Fundamental Lecture in Biological Diversity [E]	KOYAMA & others D102						Fundamental Lecture in Biological Diversity [E]	KOYAMA & others D102						
		ESD			Advanced Course In Practical Science for Environment [J]	YAMANAKA C204-2													
		BS	Fundamental Lecture in Biological Diversity [J]	SUZUKI & others D101	Advanced Course in Ecological Genetics I [J/E]	OHARA KOSHIKAWA C202	Fundamental Lecture in Biological Diversity [J]	SUZUKI & others D101	Advanced Course in Ecological Genetics I [J/E]	OHARA KOSHIKAWA C202	Fundamental Lecture in Field Sciences [J]	YOTSUKURA & others D102							

First Half, Second Semester 2018

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First Half,
Second Semester 2018

		Mon.	Tue.	Wed.	Thu.	Fri.	Intensive courses and other courses (Dates to be determined)					
Second Half, Second Semester 2018	1	ESD					Advanced Course in Aquatic Biology II [J/E]: NAKAOKA & others (offered in December - January)					
		ESS										
	BS											
	EMS		Course in Materials Science III [J/E]	KONISHI D103		Course in Materials Science I [J/E]	OHTANI D103	Course in Materials Science II [E]	TOYODA D103			
	ESD	Advanced Course in Environmental Adaptation [E]	KURASAKI & others D102	Advanced Course in Frozen Ground Environments [J]	ISHIKAWA C204-2	Advanced Course in Environmental Adaptation [E]	KURASAKI & others D102		Advanced Course in Frozen Ground Environments [J]	ISHIKAWA C204-2		
	ESS			Advanced Course in Climate Dynamics [J]	TANIMOTO C202							
	BS	Advanced Course in Marine Ecological Modeling II (offered through Polycom at D101 for students in Sapporo) [J]	SHIMIZU MIYASHITA H			Advanced Course in Marine Ecological Modeling II (offered through Polycom at D101 for students in Sapporo) [J]	SHIMIZU MIYASHITA H		Advanced Course in Environment and Management in Livestock Production [J/E]	KAWAI ARAKI FSC 106		
	EMS	Advanced Course in Environmental Nano-Materials Chemistry II [J/E]	KONISHI SHICHIBU D103	Advanced Course in Biomaterials Chemistry II [J/E]	MATSUDA D103	Advanced Course in Environmental Nano-Materials Chemistry III [J/E]	YAGI D103	Advanced Course in Molecular Environmental Science II [J/E]	All the teaching staff of the division	D103	Advanced Course in Molecular Photonics and Electronics Science I [E]	BIJU TAKANO D103
	ESD								Advanced Course of International Science Communication Methods [E]	TOYODA GREVE AVTAR D101		
	ESS						Advanced Course in Climate Modeling [J]	NAKAMURA YOSHIMORI KAWASHIMA D103	Advanced Course in Paleoclimatology and Biomarker Geochemistry [E]	YAMAMOTO CHIKARAISHI SEKI D102		
	BS	Advanced Course in Plant Ecology II [J/E]	SUMIDA ONO HASEGAWA LT2F									
	EMS											
	ESD								Advanced Lecture in Geoeological Resources [E]	T WATANABE C204-2		
	ESS	Advanced Course in Glacier/Ice Sheet Science [J/E]	SUGIYAMA SONE MATOBA IIZUKA LT2F				Advanced Course in Theoretical Glaciology [E]	GREVE LT2F				
	BS											
	EMS											
	ESD			Advanced Course in Practical Science for Environment [J]	YAMANAKA C204-2					Advanced Lecture in Geoeological Resources [E]	T WATANABE C204-2	
	ESS											
	BS	Fundamental Lecture in Ecology [J/E]	OHARA & others D102	Advanced Course in Ecological Genetics II [J]	SUZUKI & others C202	Fundamental Lecture in Ecology [J/E]	OHARA & others D102	Advanced Course in Ecological Genetics II [J]	SUZUKI & other C202	Fundamental Lecture in Field Sciences [J]	YOTSUKURA & others D102	
	EMS											

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Second Half,
Second Semester 2018