

2024 Class Schedule

			Mon.			Tue.			Wed.			Thu.			Fri.			Intensive courses and other courses (Dates to be determined)
First Half, First Semester 2024	1	ESD	Advanced Course in Hydrological Cycle[J/E]	SATO	C204-2	Introduction to Global Environmental Management[E]	OKINO & others	D102	Advanced Course in Hydrological Cycle[J/E]	SATO	C204-2						【Inter-Graduate School Classes】 Introduction to Environmental Science [J] (April3-5) : YAMANAKA & others(D201)	
		ESS							Advanced Course in Chemical Oceanography[J]	NISHIOKA WATANABE YAMASHITA	C202	☆Advanced Course in Biogeochemical Cycles in Ecosystems[J] (Advanced Course in Biogeoscience [J])	CHIKARAISHI TAKIZAWA	D102	Advanced Course in Chemical Oceanography[J]	NISHIOKA WATANABE YAMASHITA	C202	Introduction to Environmental Science[E] (April3-5) : WATANABE & others (D101)
		BS	Advanced Course in Environmental Molecular Biology II [J/E]	TANAKA ITO TAKABAYASHI WASHIO HORI MIWA ONO	D101, LT2F				Fundamental Course in Molecular Biology[J] Fundamental Course in Molecular Biology[E]	MORIKAWA & others MORIKAWA & others	D101 D102				Advanced Course in Agro-Ecosystem Science I (Crop Production) [J/E]	HOSHINO GOTOH NAKAMURA HIRATA	FSC 106	Special lecture in Earth SystemⅢ(Intensive courses for Course in Atmosphere-ocean and climate Dynamics :: September Special lecture in Earth System Science I (Intensive courses for Course in Biogeochemistry ,Dates TBD [J]
		EMS	Fundamental Course in Materials Science II [J/E]	NAKAJIMA	D103	Advanced Course in Environmental Catalytic Chemistry I[J/E]	NAKAJIMA	D103	Fundamental Course in Materials Science I [J/E]	SUGANUMA	D103				Fundamental Course in Materials Science III[J/E]	KONISHI	D103	Special lecture in Earth System Science IV(Intensive courses for Course in Cryosphere Science) : September
	2	ESD				Introduction to Environmental Adaptation [J]	NORO & others	C204-1	Advanced Course in Environmental Geoinformatics[E]	Avtar	C204-1	Advanced Course in Environmental Geoinformatics[E]	Avtar	C204-1	Introduction to Environmental Adaptation [J]	NORO & others	C204-1	Advanced Course in Forest Sphere Science I [J]:(Ecosystem Function) :TAKAGI and others (URYU・NAKAGAWA・TESHIO) :Dates TBD Advanced Course in Forest Sphere Science II [J]:NAKAMURA and others(WAKAYAMA) Dates TBD Advanced Course in Forest Sphere Science III [J]: AGETSUMA and others(TOMAKOMAI) Dates TBD
		ESS	Fundamental Course in Atmosphere-Ocean Physics [J]	OSHIMA FUJIWARA	D201	Advanced Course in Geophysical Fluid Dynamics[J]	KAWATANI	D102	Fundamental Course in Atmosphere-Ocean Physics [J]	OSHIMA FUJIWARA	D201	☆Advanced Course in Biogeochemical Cycles in Ecosystems[J] (Advanced Course in Biogeoscience [J])	CHIKARAISHI TAKIZAWA	D102	Advanced Course in Atmospheric and Oceanographic Data Analysis[J/E]	FUKAMACHI AOKI	D102	
		BS	Advanced Course in Animal Ecology I [J/E]	NODA KOIZUMI	D101	Fundamental Course in Marine Biological Processes [J/E]	KUDO YOSHIMURA TAKAGI	D101	Advanced Course in Animal Ecology I [J/E]	NODA KOIZUMI	D101	Fundamental Course in Marine Biological Processes [J/E]	KUDO YOSHIMURA TAKAGI	D101				Special Lecture in Environmental Materials Science I[J]・II [J]・III[J]・IV[J] (Dates TBD)
		EMS	Fundamental Course in Materials Science III[J/E]	KONISHI	D103	Advanced Course in Biomaterials Chemistry I [J/E]	ONODA	D103	Fundamental Course in Materials Science II [J/E]	NAKAJIMA	D103				Fundamental Course in Materials Science I [J/E]	SUGANUMA	D103	
	3	ESD							Advanced Course in Geoeological Resources [E]	HAYAKAWA	C204-2	Advanced Course in Academic English Writing for Environmental Sciences [E]	Ranner	D101				
		ESS	Fundamental Course in Paleoenvironmental Science [J]	YAMAMOTO・SEKI・IRINO・MATOBA・IIZUKA	D103	Fundamental Course in Marine and Atmospheric Chemistry [J]	SUZUKI KAMEYAMA MIYAZAKI	D103	Fundamental Course in Marine and Atmospheric Chemistry [J]	SUZUKI KAMEYAMA MIYAZAKI	D103	Advanced Course in Polar Oceanography [J]	AOKI TOYODA NAKAYAMA	D103	Fundamental Course in Paleoenvironmental Science [J]	YAMAMOTO・SEKI・IRINO・MATOBA・IIZUKA	D103	
		BS												Advanced Course in Environmental Molecular Biology I [J/E]	FUKUI MORIKAWA YAMAGUCHI OCHIAI KASAHARA WATANABE SONE YAMAUCHI	D102		
		EMS																
	4	ESD	Introduction to Global Environmental Management [E]	OKINO & others	D102													
		ESS				Fundamental Course in Cold Region Sciences [J/E]	T WATANABE & others	D101	Advanced Course in Environmental Meteorology [J]	T WATANABE KAWASHIMA	D103	Fundamental Course in Cold Region Sciences [J/E]	T WATANABE & others	D101				
		BS																
		EMS																
	5	ESD				Introduction to Practical Science for Environment II [J]	YAMANAKA	D103										
		ESS																
		BS																
		EMS																

【Important】	From 1 April 2020, 8 new subjects has been added (marked ☆). Student enrolling before 2019(Academic year), register subject 【Former subject name】. (The former subjects written in 【】). Please note : Students enrolling before 2019, cant not register unless former subject is written with ☆.
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】Muroran Marine Station
Language	【INFO】Information Incentive Center 【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 【italics in blue】Classes for English program, open for all students

First Half,
First Semester 2024

2024 Class Schedule

		Mon.			Tue.			Wed.			Thu.			Fri.			Intensive courses and other courses (Dates to be determined)
Second Half, First Semester 2024	1	ESD															Special lecture in Environmental Science Development II [E] Dates (June 10-12) A SATO C202
		ESS			Advanced Course in Remote Sensing Applications [J]	EBUCHI & others	D102				Advanced Course in Hydrologic Cycle in Cryosphere [J]	SHIRAWA MATOBA MATSUSITA	LT2F				Special lecture in Environmental Science Development I [J] Dates TBD Saturdays from June to July YAMANAKA SATAKE SUGAWARA
		BS	Advanced Course in Environmental Molecular Biology II [J/E]	TANAKA ITO TAKABAYASHI WASHIO HORI MIWA ONO	D101, LT2F			Fundamental Course in Molecular Biology [J] <i>Fundamental Course in Molecular Biology [E]</i>	MORIKAWA & others MORIKAWA & others	D101 D102				Advanced Course in Agro-Ecosystem Science I (Crop Production) [J/E]	HOSHINO GOTOH NAKAMURA HIRATA	FSC 106	Fundamental Course in Biomass Production [J]: KAWAI (August-September) Special Lecture in Biosphere Science I [J]: TBD Special Lecture in Biosphere Science II [J]: TBD
		EMS			Advanced Course in Environmental Catalytic Chemistry [J/E]	NAKAJIMA	D103	Advanced Course in Molecular Photonics and Electronics Science II [J/E]	NAKAMURA	D103				Advanced Course in Environmental Nano-Materials Chemistry II [J/E]	KONISHI	D103	
	2	ESD			Advanced Course in Environmental Metrology [J]	TOYODA & others	C204-1							Advanced Course in Environmental Metrology [J]	TOYODA & others	C204-1	
		ESS	Advanced Course in Ocean Dynamics [J]	MITSUDERA	D101	Advanced Course in Geophysical Fluid Dynamics [J]	KAWATANI	D102	Advanced Course in Atmospheric Dynamics [J]	HORINOUCHI	D102	Advanced Course in Hydrologic Cycle in Cryosphere [J]	SHIRAWA MATOBA MATSUSITA	LT2F	Advanced Course in Atmospheric and Oceanographic Data Analysis [J/E]	FUKAMACHI AOKI	D102
		BS															
		EMS			Advanced Course in Biomaterials Chemistry I [J/E]	ONODA	D103	Advanced Course in Molecular Photonics and Electronics Science II [J/E]	NAKAMURA	D103				Advanced Course in Environmental Nano-Materials Chemistry II [J/E]	KONISHI	D103	
	3	ESD						<i>Advanced Course in Geoeological Resources [E]</i>	HAYAKAWA	C204-2	<i>Advanced Course in Academic English Writing for Environmental Sciences [E]</i>	Renner	D101				
		ESS						Advanced Course in Remote Sensing Applications [J]	EBUCHI & others	D103	Advanced Course in Polar Oceanography [J]	AOKI TOYODA NAKAYAMA	D103				
		BS	Advanced Course in Plant Ecology/Biodiversity Science I [J/E]	AIBA	A809							Advanced Course in Environmental Molecular Biology I [J/E]	FUKUI MORIKAWA YAMAGUCHI OCHIAI KASAHARA WATANABE SONE YAMAUCHI	D102			
		EMS															
	4	ESD														<i>Advanced Course in Water Resources [E]</i>	WATANABE D101
		ESS						Advanced Course in Environmental Meteorology [J]	T WATANABE KAWASHIMA	D103							
		BS	Advanced Course in Plant Ecology/Biodiversity Science I [J/E]	AIBA	A809												
	5	EMS															
		ESD				Introduction to Practical Science for Environment II [J]	YAMANAKA	D103								<i>Advanced Course in Water Resources [E]</i>	WATANABE D101
		ESS															
		BS															
		EMS															

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Venue	【A, B, C, D】Faulty 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】Muroran 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 【 <i>italics in blue</i> 】Classes for English program, open for all students

Second Half,
First Semester 2024

2024 Class Schedule

First Half, Second Semester 2024

		Mon.			Tue.			Wed.			Thu.			Fri.			Intensive courses and other courses (Dates to be determined)		
First Half, Second Semester 2024	1	A L L	Fundamental Course in Environmental Science Research[E]★	OKINO	D102									Fundamental Course in Environmental Science Research[E]★	OKINO	D102	Fundamental Course in Environmental Science [E]: Garcia Molinos (October 1,2,3) (D201)		
		E S D																	
		E S S				Advanced Course in Ocean Biogeochemistry[E]	NISHIOKA WATANABE YAMASHITA	C202	★Fundamental Course in Biogeochemistry [E] [Advanced Course in Tropospheric Chemistry]	SUZUKI KAMEYAMA MIYAZAKI	C202	★Fundamental Course in Biogeochemistry [E] [Advanced Course in Tropospheric Chemistry]	SUZUKI KAMEYAMA MIYAZAKI	C202	Advanced Course in Ocean Biogeochemistry[E]	NISHIOKA WATANABE YAMASHITA		C202	★Introduction to Circumpolar North[Advanced Course in Terrestrial Geochemical Cycle][E] : (Dates :TBD)
		B S																	Advanced Course in Forest Sphere Science IV (Regional Resources Management)[J/E]: T YOSHIDA & others (October)
		E M S	Advanced Course in Environmental Nano-Materials Chemistry I [J/E]	KAMIYA	D103	Fundamental Course in Materials Science III[E]	ONODA	D103	Fundamental Course in Materials Science II [E]	TAKANO	D103			Fundamental Course in Materials Science I [E]	SHICHIBU	D103			
	2	E S D				Introduction to Natural Environmental Studies [J/E]	TSUYUZAKI NEGISHI SATO	D102						Introduction to Natural Environmental Studies [J/E]	TSUYUZAKI NEGISHI SATO	D102			
		E S S	Advanced Course in Ocean Dynamics [J]	MITSUDERA	D102	Advanced Course in Climate Dynamics [J]	TANIMOTO	C202	Advanced Course in Atmospheric Dynamics [J]	HORINOUCHI	D102								
		B S	Advanced Course in Animal Ecology II [J/E]	NODA AGETSUMA KOIZUMI KISHIDA OHDACHI	D101	Advanced Course in Marine Biosphere Science I (Marine Environmental Biogeochemistry) [J/E]	KUDO YOSHIMURA TAKAGI	D101	Advanced Course in Animal Ecology II [J/E]	NODA AGETSUMA KOIZUMI KISHIDA OHDACHI	D101	Advanced Course in Marine Biosphere Science I (Marine Environmental Biogeochemistry) [J/E]	KUDO YOSHIMURA TAKAGI	D101	Advanced Course in Agro-Ecosystem Science II (Livestock Production) [J/E]	KAWAI HOSHINO GOTOH	FSC 106		
		E M S	Advanced Course in Environmental Catalytic Chemistry II [J/E]	TAKAKUSAKI	D103	Advanced Course in Biomaterials Chemistry II [J/E]	UMEZAWA	D103	Advanced Course in Molecular Photonics and Electronics Science I [E]	BIJU	D103	Advanced Course in Molecular Environmental Science II [J/E]	TBD	D103	Advanced Course in Environmental Nano-Materials Chemistry III [J/E]	YAGI	D103		
		3	E S D	Advanced Course in Climate Change Impacts [E]	SATO & others	C202	Advanced Course in Environmental Conservation [J/E]	TSUYUZAKI	C204-2	Advanced Course in Watershed Environmental Science [J/E]	NEGISHI & others	D102	Advanced Course in Watershed Environmental Science [J/E]	NEGISHI & others	D102	Advanced Course in Environmental Conservation [J/E]	TSUYUZAKI	C204-2	
	E S S					★Advanced Course in Ecosystems and Environments [E] [Advanced Course in Environmental Analytical Chemistry]	CHIKARAISHI TAKIZAWA	D103	Advanced Course in Meteorology and Climate in Cold Regions [J]	T WATANABE	LT2F	Advanced Course in Climate Modeling [J]	NAKAMURA KAWASHIMA	D103	★Advanced Course in Paleoclimatology[Advanced Course in Paleogeography and Biomarker Geochemistry] [E]	YAMAMOTO SEKI IWASAKI	D103		
	B S		Advanced Course in Plant Ecology/Biodiversity Science II	G KUDO	A809														
	E M S																		
	4		E S D	Advanced Course in Climate Change Impacts [E]	SATO & others	C202	Advanced Course of International Science Communication Methods [E]	TOYODA Greve Avtar	D101					Advanced Course in Applied Ecology [J/E]	SENZAKI	A809	Advanced Course in Applied Ecology [J/E]	SENZAKI	A809
		E S S	Advanced Course in Glacier/Ice Sheet Science [J/E]	SUGIYAMA IIZUKA MINOWA	LT2F	★Advanced Course in Ecosystems and Environments [E] [Advanced Course in Environmental Analytical Chemistry]	CHIKARAISHI TAKIZAWA	D103	Advanced Course in Meteorology and Climate in Cold Regions [J]	T WATANABE	LT2F	Advanced Course in Theoretical Glaciology [E]	Greve	LT313	★Advanced Course in Paleoclimatology[Advanced Course in Paleogeography and Biomarker Geochemistry] [E]	YAMAMOTO SEKI IWASAKI	D103		
		B S	Advanced Course in Plant Ecology/Biodiversity Science II	G KUDO	A809				★Fundamental Course in Biodiversity of Northern Ecosystems [E]	G KUDO & others					★Fundamental Course in Biodiversity of Northern Ecosystems [E]	G KUDO & others			
		E M S																	
		5	E S D	Introduction to Practical Science for Environment I [J]	YAMANAKA	D103	Advanced Course in Practical Science for Environment [J]	YAMANAKA	D103										
	E S S																		
	B S		Fundamental Course in Biological Diversity [J]	KOIZUMI & others	D101	Advanced Course in Ecological Genetics I [J/E]	KOSHIKAWA UTSUMI	C202	Fundamental Course in Biological Diversity [J]	KOIZUMI & others	D101	Advanced Course in Ecological Genetics I [J/E]	KOSHIKAWA UTSUMI	C202	Fundamental Course in Field Sciences [J/E]	YOTSUKURA & others	D102		
E M S																			

2024 Class Schedule

			Mon.			Tue.			Wed.			Thu.			Fri.			Intensive courses and other courses (Dates to be determined)
Second Half, Second Semester 2024	1	E S D															Advanced Course in Aquatic Biology I[J]:NAKAOKA & others (Dates :TBD) Advanced Course in Aquatic Biology I[E]:NAKAOKA & others (Dates :TBD) Advanced Course in Aquatic Biology II[J]: MINAMI and others (December) Special Lecture in Biosphere Science I [J] : (Dates :TBD) Special Lecture in Biosphere Science II [J] : (Dates :TBD)	
		E S S																
		B S																
		E M S	Advanced Course in Environmental Nano-Materials Chemistry I [J/E]	KAMIYA	D103	Fundamental Course in Materials Science III[E]	ONODA	D103	Fundamental Course in Materials Science II [E]	TAKANO	D103			Fundamental Course in Materials Science I [E]	SHICHIBU	D103		
	2	E S D	Advanced Course in Environmental Adaptation [E]	Liu & others	D102				Advanced Course in Environmental Adaptation [E]	Liu & others	D102							
		E S S				Advanced Course in Climate Dynamics [J]	TANIMOTO	C202										
		B S				Advanced Course in Marine Biosphere Science II [J]	URA	HAKODATE				Advanced Course in Marine Biosphere Science II [J]	URA	HAKODATE	Advanced Course in Agro-Ecosystem Science II (Livestock Production) [J/E]	KAWAI HOSHINO GOTOH	FSC 106	
		E M S	Advanced Course in Environmental Catalytic Chemistry II [J/E]	TAKAKUSAKI	D103	Advanced Course in Biomaterials Chemistry II [J/E]	UMEZAWA	D103	Advanced Course in Molecular Photonics and Electronics Science I [E]	BIJU	D103	Advanced Course in Molecular Environmental Science II [J/E]	TBD	D103	Advanced Course in Environmental Nano-Materials Chemistry III [J/E]	YAGI	D103	
	3	E S D	Advanced Course in Environmental Pollution Comparison [E]	TOYODA & others	D101	Advanced Course in Frozen Ground Environments [J]	ISHIKAWA	D102							Advanced Course in Frozen Ground Environments [J]	ISHIKAWA	D102	
		E S S										Advanced Course in Climate Modeling [J]	NAKAMURA KAWASHIMA	D103				
		B S																
		E M S																
	4	E S D	Advanced Course in Environmental Pollution Comparison [E]	TOYODA & others	D101	Advanced Course of International Science Communication Methods [E]	TOYODA Greve Avtar	D101										
		E S S	Advanced Course in Glacier/Ice Sheet Science [J/E]	SUGIYAMA IZUKA MINOWA	LT2F							Advanced Course in Theoretical Glaciology [E]	Greve	LT313				
		B S																
		E M S																
	5	E S D	Introduction to Practical Science for Environment I [J]	YAMANAKA	D103	Advanced Course in Practical Science for Environment [J]	YAMANAKA	D103										
		E S S																
		B S	Fundamental Course in Ecology [J/E]	KOSHIKAWA & others	D102	Advanced Course in Ecological Genetics II [J]	KOSHIKAWA YOSHIDA	C202	Fundamental Course in Ecology [J/E]	KOSHIKAWA & others	D102	Advanced Course in Ecological Genetics II [J]	KOSHIKAWA YOSHIDA	C202	Fundamental Course in Field Sciences [J/E]	YOTSUKURA & others	D102	
		E M S																

【Important】	
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
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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 【 <i>italics in blue</i> 】Classes for English program, open for all students

Second Half,
Second Semester 2024