	Mon.			Tue	We	∍d.		Thu	l .		Fri.			Intensive courses and other courses (Dates to be determined)			
	E S D	Advanced Course in Hydrological Cycle[J/E]	SATO	C204-2	Introduction to Global Environmental Management[E]	OKINO & others	s 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)
	E S S							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)
	1 B S	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 System III (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]
	E M S	II [0/ L]		D103	Advanced Course in Environmental Catalytic Chemistry [[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
	E S D				Adaptation [J]	NORO & others	C204-1	Advanced Course in Environmental Geoinformatics[E]	Avtar	C204-1	Advanced Course in Environmental Geoinformatics[E]		C204-1	Introduction to Environmental Adaptation [J]	NORO & others	C204-1	Advanced Course in Forest Sphere Science I [J]:(Eoosystem Function): TAKAGI and others (URYU• NAKAGAWA-TESHIO): Dates TBD Advanced Course in Forest Sphere Science II [J]:NAKAMIRA and others(WAKAYAMA) Dates TBD
2024	E S S	Ocean Physics [J]	OSHIMA FUJIWARA	D201	Fluid Dynamics[J]	KAWATANI	D102	Fundamental Course in Atmosphere-Ocean Physics [J]		D201	☆Advanced Course in Biogeochemical Cycles in Ecosystems[J] (Advanced Course in Biogeoscience	CHIKARAISHI TAKIZAWA	D102	Advanced Course in Atmospheric and Oceanographic Data Analysis[J/E]	FUKAMACHI AOKI	D102	Advanced Course in Forest Sphere Science III [J]: AGETSUMA and others(TOMAKOMAI) Dates TBD
	B S	[J/E]	NODA KOIZUMI KONISHI	D101	Fundamental Course in Marine Biological Processes [J/E] Advanced Course in Biomaterials	KUDO YOSHIMURA TAKAGI ONODA	D101	Advanced Course in Animal Ecology I [J/E] Fundamental Course in Materials	NODA KOIZUMI	D101	Fundamental Course in Marine Biological Processes [J/E]	KUDO YOSHIMURA TAKAGI	D101	Fundamental Course in Materials	SUGANUMA	D103	Special Lecture in Environmental Materials Science I[J]· II [J]· III[J]· IV[J] (Dates TBD)
Semester	M S	Ⅲ[J/E]			Chemistry I [J/E]			Science II [J/E] Advanced Course in Geoecological Resources [E]	HAYAKAWA	C204-2	Advanced Course in Academic English Writing for Environmental	Ranner	D101	Science I [J/E]			
First S	E S S	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]		D103	Sciences [E] Advanced Course in Polar Oceanography [J]	AOKI TOYODA NAKAYAMA	D103	Fundamental Course in Paleoenvironmental Science [J]	YAMAMOTO • SEKI • IRINO • MATOBA • IIZUKA	D103	
First Half,	3 B S										Molecular Biology I [J/E]	FUKUI MORIKAWA YAMAGUCHI OCHIAI KASAHARA WATANABE SONE YAMAUCHI	D102				
-	M S E	Introduction to Global Environmental Management [E]	OKINO & others	D102													
	E S S				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				
	B S E																
	E S D				Introduction to Practical Science for Environment II [J]	YAMANAKA	D103										
	5 s B																
	E M s																-

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First Half, First Semester 2024

	Mon.				Tue) .	Wed.			Thu	1.		Fri.	1		Intensive courses and other courses (Dates to be determined)	
		E S D															Special lecture in Environmental Science Development II [E]:Dates (June 10-12) A SATO C202
		E S S			Advanced Course in Remote Sensing Applications [J]	EBUCHI & others	D102				Advanced Course in Hydrologic Cycle in Cryosphere [J]	SHIRAIWA MATOBA MATSUSITA	LT2F				Special lecture in Environmental Science Development I (J)Dates TBD Saturdays from June to July)YAMANAKA SATAKE SUGAWARA
		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]	& others	D101				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
		E M S			Advanced Course in Environmental Catalytic Chemistry I[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	
		S S D			Advanced Course in Environmental Metrology [J]	TOYODA & others	C204-1							Advanced Course in Environmental Metrology [J]	TOYODA & others	C204-1	
2024	2	E Advanced Course in Ocean Dynamics [J] S S	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]	SHIRAIWA MATOBA MATSUSITA	LT2F	Advanced Course in Atmospheric and Oceanographic Data Analysis[J/E]	FUKAMACHI AOKI	D102	
		B S															
Semester		E M S			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	
eme		E S D						Advanced Course in Geoecological Resources [E]	HAYAKAWA	C204-2	Advanced Course in Academic English Writing for Environmental Sciences [E]	Renner	D101				
		S S						Advanced Course in Remote Sensing Applications [J]	EBUCHI & others	D103	Advanced Course in Polar Oceanography [J]	AOKI TOYODA NAKAYAMA	D103				
Half, First	3	Advanced Course in Plant Ecology/Biodiversity Science I[J/E] S	AIBA	A809							Advanced Course in Environmental Molecular Biology I [J/E]	FUKUI MORIKAWA YAMAGUCHI OCHIAI KASAHARA WATANABE SONE YAMAUCHI	D102				
		E M S										TANAGOTE					
Second		E S D												Advanced Course in Water Resource: [E]	WATANABE	D101	
		E S S						Advanced Course in Environmental Meteorology [J]	T WATANABE KAWASHIMA	D103							
	4	B Advanced Course in Plant Ecology/Biodiversity Science I[J/E] S	AIBA	A809													
		E M S															
		E S D			Introduction to Practical Science for Environment II [J]	YAMANAKA	D103							Advanced Course in Water Resource. [E]	WATANABE	D101	
		E S S															
	0	B S															
		E M S															

[Important] Time Venue

[important] From 1 April 2020, 8 new subjects has been added (marked 🖈). Student enrolling before 2019(Academic year), register subject [Fomer subject name].(The fomer subjects written in []). Please note: Students enrolling before 2019, cant not register unless former subject is written with 🖈.

[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 Please note: Students enrolling before 2018, cant not register unless former subject is written with *

[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

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Second Half, First Semester 2024

		Mon.				Tue.			Wed.			Thu.				Intensive courses and other courses (Dates to be determined)	
	1	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)
	1				Advanced Course in Ocean Biogeochemistry[E]	NISHIOKA WATANABE	C202	☆Fundamental Course in Biogeochemistry [E] [Advanced	SUZUKI KAMEYAMA	C202	★Fundamental Course in Biogeochemistry [E] [Advanced	SUZUKI KAMEYAMA	C202	Advanced Course in Ocean Bioseochemistry[E]	NISHIOKA WATANABE	G202	**Introduction to Circumpolar North[Advanced Course in Terrestrial Geochemical Cycle][E]: (Dates:TBD)
	E	3				YAMASHITA		Course in Tropospheric Chemistry I	MIYAZAKI		Course in Tropospheric Chemistry]	MIYAZAKI		Diogeocnemistry[E]	YAMASHITA		Advanced Course in Forest Sphere Science IV (Regional Resources Management)[J/E]:TYOSHIDA & others
	I N	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	(October)
	E .	S			Environmental Studies [J/E]	TSUYUZAKI NEGISHI SATO	D102							Introduction to Natural Environmental Studies [J/E]	TSUYUZAKI NEGISHI SATO	D102	
4	2	Advanced Course in Ocean Dynamics [J]	MITSUDERA	D102	Advanced Course in Climate Dynamics [J]	TANIMOTO	C202	Advanced Course in Atmospheric Dynamics [J]	HORINOUCHI	D102							
2024	E	[J/E]	NODA AGETSUMA KOIZUMI KISHIDA OHDACHI	D101	Advanced Course in Marine Biosphere Science I (Marine Environmental Biogeochemistry) [J/E]	KUDO YOSHIMURA TAKAGI	D101		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]	HOSHINO GOTOH	FSC 106	
Semester	i N	Catalytic Chemistry II [J/E]	TAKAKUSAKI		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	
Seme	:		SATO & others	C202	Advanced Course in Environmental Conservation [J/E]	CHIKARAISHI	C204-2	Advanced Course in Watershed Environmental Science [J/E] Advanced Course in	NEGISHI & others	D102	Advanced Course in Watershed Environmental Science [J/E] Advanced Course in Climate	NEGISHI & others	D102	Advanced Course in Environmental Conservation [J/E]	TSUYUZAKI	C204-2	
Second (3				Ecosystems and Environments [E] [Advanced Course in Environmental Analytical Chemistry]	TAKIZAWA		Meteorology and Climate in Cold Regions [J]			Modeling [J]	KAWASHIMA		학Advanced Course in Paleoclimatology[Advanced Course in Paleoceanography and Biomarker Geochemistry] [E]	SEKI IWASAKI		
Sec	E	S Ecology Blodiversity objetice is	G KUDO	A809													
Half,	Ņ	1	SATO	C202	Advanced Course of International	TOYODA	D101				Advanced Course in Applied Ecology	SENZAKI	A809	Advanced Course in Applied Ecology	SENZAKI	A809	
First	3	Impacts [E]	& others	LT2F	Science Communication Methods [E]	Greve Avtar CHIKARAISHI		Advanced Course in	T WATANABE	I T2F	[J/E] Advanced Course in Theoretical	Greve	LT313	[J/E]	YAMAMOTO	D103	
	4	Science [J/E]	IIZUKA MINOWA		Ecosystems and Environments [E] [Advanced Course in Environmental Analytical Chemistry]	TAKIZAWA	5100	Meteorology and Climate in Cold Regions [J]		LIZI	Glaciology [E]	dieve	21010	Paleoclimatology[Advanced Course in Paleoceanography and Biomarker Geochemistry] [E]	SEKI IWASAKI	5100	
	E	Ecology/Biodiversity Science II	G KUDO	A809				☆Fundamental Course in Biodiversity of Northern Ecosystems [F]	G KUDO & others	オンライン				☆ Fundamental Course in Biodiversity of Northern Ecosystems [E]	G KUDO & others	オンライン	
	:	Introduction to Practical Science for Environment I [J]	YAMANAKA	D103	Advanced Course in Practical Science for Environment [J]	YAMANAKA	D103										
	5	Fundamental Course in Biological	KOIZUMI	D101	Advanced Course in Ecological	KOSHIKAWA	C202	Fundamental Course in	KOIZUMI	D101	Advanced Course in Ecological	KOSHIKAWA	C202	Fundamental Course in Field Sciences		D102	
	i i	S Sversky [0]	& others		Genetics I [J/E]	UTSUMI		Biological Diversity [J]	& others		Genetics I [J/E]	UTSUMI		[J/E]	& others		
		'															

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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

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[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 Science SF(315) [LT3F]Institution of Low Temperature Science SF(315) [LT3F]Inst

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First Half, Second Semester 2024

		Mon.			Tue.			Wed.			Thu.			Fri.			Intensive courses and other courses (Dates to be determined)
	S																Advanced Course in Aquatic Biology I[J]: NAKAOKA & others (Dates :TBD) Advanced Course in Aquatic Biology I[E]: NAKAOKA &
	E S																others (Dates :TBD) Advanced Course in Aquatic Biology II[J]: MINAMI and others (December) Special Lecture in Biosphere Science I [J]: (Dates :TBD)
	1 B																Special Lecture in Biosphere Science II [J]: (Dates:TBD)
	E	Advanced Course in Environmental	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	
-	S E S		Liu & others	D102					Liu & others	D102							
4	E S				Advanced Course in Climate Dynamics [J]	TANIMOTO	G202										
2024	2 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)	HOSHINO	FSC 106	
ster	E	Advanced Course in Environmental	TAKAKUSAKI	D103	Advanced Course in Biomaterials Chemistry II [J/E]	UMEZAWA	D103	Photonics and Flectronics	BIJU	D103	Advanced Course in Molecular Environmental Science II [J/E]	TBD	D103	[J/E] Advanced Course in Environmental Nano-Materials Chemistry III [J/E]	YAGI	D103	
Semes	S	Advanced Course in Environmental	TOYODA & others	D101		ISHIKAWA	D102	Science I [E]						Advanced Course in Frozen Ground Environments [J]	ISHIKAWA	D102	
	D E		a outers		Ground Environments (o)						Advanced Course in Climate	NAKAMURA	D103	Environments [0]			
Second	3										Modeling [J]	KAWASHIMA					
Sec	S																
, E	M S		TOYODA	D101	Advanced Course of International	TOYODA	D101										
Half,	S	Pollution Comparison [E]	& others		Science Communication Methods	Greve Avtar	DIOI										
Second	4	Science [J/E]	SUGIYAMA IIZUKA MINOWA	LT2F							Advanced Course in Theoretical Glaciology [E]	Greve	LT313				
Se	B S																
	E M S																
	E S D	Environment I [J]	YAMANAKA	D103	Advanced Course in Practical Science for Environment [J]	YAMANAKA	D103										
	E S																
	5 B	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 Science: [J/E]	s YOTSUKURA & others	D102	
	E M																

[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
[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

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Second Half, Second Semester 2024