		Mon.			Tue.			Wed.			Thu.		Fri.			Intensive courses and other courses (Dates to be determined)	
	S		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] (April 5-7): YAMANAKA & others(D201) Introduction to Environmental Science[E] (April 5-7): WATANABE & others (D101)
	S							Oceanography[J]	NISHIOKA WATANABE YAMASHITA	C202	☆Advanced Course in Biogeochemical Cycles in Ecosystems[J] (Advanced Course in Biogeoscience	CHIKARAISHI TAKIZAWA	D102	Advanced Course in Chemical Oceanography[J]	WATANABE YAMASHITA	C202	WATAWADE & others (UTUT)
	1 B		TANAKA ITO TAKABAYASH I WASHIO HORI MIWA	D101,ILTS				Biology[J] Fundamental Course in Molecular	MORIKAWA & others MORIKAWA & others	D101				Advanced Course in Agro- Ecosystem Science I (Crop Production) [J/E]	HOSHINO HIRATA NAKAMURA	FSC 106	
	M S		KAMIYA	D103	Advanced Course in Environmental Catalytic Chemistry II [E]	KOWALSKA	D103	Fundamental Course in Materials Science II [J/E]	KAMIYA	D103	Advanced Course in Environmental Catalytic Chemistry I[J/E]	OHTANI	D103	Fundamental Course in Materials Science III[J/E]	YAMADA	D103	Special lecture in Earth System Science I (Intensive courses for Course in Atmosphere-ocean and climate Dynamics): Dates TBD [J]
2022	S				Introduction to Environmental Adaptation [J]	NORO & others	C204-1	Geoinformatics[E]	Avtar	C204-1	Advanced Course in Environmental Geoinformatics[E]	Avtar	C204-1	Introduction to Environmental Adaptation [J]	NORO & others	C204-1	Special lecture in Earth System Science II (Intensive courses for Course in Cryosphere Science Dates TBD [J] Special lecture in Earth System Science IV(Intensive courses for Course in Biogeochemistry: Dates TBD [J]
	2 S	Atmosphere-Ocean Physics [J] Fundamental Course in	OSHIMA FUJIWARA MIZUTA YASUNARI	D201 C202	Advanced Course in Geophysical Fluid Dynamics[J]	KUBOKAWA	D102	Atmosphere-Ocean Physics[J] Fundamental Course in	OSHIMA FUJIWARA MIZUTA YASUNARI	D201 C202	☆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	Advanced Course in Forest Sphere Science I [J]:(Ecosystem Function): TAKAGI and others (URYU-NAKAGAWA-TESHIO) Advanced Course in Forest Sphere Science II [J]:NAKAMURA and others(WAKAYAMA) Dates TBD Advanced Course in Forest Sphere Science III [J]:UTSUIMI and others(TOMAKOMAI) Dates TBD (May)
Semester	B		KOIZUMI	D101	Fundamental Course in Marine Biological Processes [J/E]	KUDO YOSHIMURA TAKAGI	D101	Advanced Course in Animal Ecology I [J/E]	KOIZUMI	D101	Fundamental Course in Marine Biological Processes [J/E]	KUDO YOSHIMURA TAKAGI	D101				
First S	N S	Science III [J/E]	YAMADA	D103				Fundamental Course in Materials Science I [J/E] Advanced Course in Geoecological	OTOMO	D103	Advanced Course in Molecular Environmental Science I [J/E] Advanced Course in Academic	OHTANI	D103	Fundamental Course in Materials Science I [J/E]	отомо	D103	Special Lecture in Environmental Materials Science [[J]· II [J]· III[J/E]·IV[J] (Dates TBD)
Ē	S D		уамамото •	D103	Fundamental Course in Marine and	SUZUKI	D103	Resources [E] Fundamental Course in Marine and		D103	English Writing for Environmental Sciences [E] Advanced Course in Polar	AOKI	D103	Fundamental Course in	уамамото •	D103	
Half,	3	Paleoenvironmental Science [J]	SEKI • IRINO • MATOBA • IIZUKA			KAMEYAMA MIYAZAKI			KAMEYAMA MIYAZAKI		Oceanography [J]	TOYODA NAKAYAMA		Paleoenvironmental Science [J]	SEKI • IRINO • MATOBA • IIZUKA		
First	B				Advanced Course in Plant Ecology I [J]	ONO	LT2F				Advanced Course in Environmental Molecular Biology I [J/E]	FUKUI MORIKAWA YAMAGUCHI OCHIAI KASAHARA	D102				
	E S	Introduction to Global Environmental Management [E]	OKINO & others	D102													
	4 S				Fundamental Course in Cold Region Sciences [J/E]	T WATANABE & others	D101		T WATANABE KAWASHIMA	D102	Fundamental Course in Cold Region Sciences [J/E]	T WATANABE & others	D101				
	B S E M																
	ESD	for Environment I [J]	YAMANAKA & others	D103	Introduction to Practical Science for Environment II [J]	YAMANAKA	D103										
	5 s																
	E M S	Every 1 April 2020 9 years sub															

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First Half, First Semester 2022

		Mon.			Tue.			Wed.			Thu.			Fri.			Intensive courses and other courses (Dates to be determined)
	E S D																Special lecture in Environmental Science Development I [J]Dates (August 29-31):YAMAGATA (D103) Special lecture in Environmental Science Development II [E]:Dates (August 8-10) A SATO and YAMASHIT A (D101)
	E S S				Advanced Course in Remote Sensing Applications [J]	EBUCHI & others	D102				Advanced Course in Hydrologic Cycle in Cryosphere [J]	SHIRAIWA SONE MATSUZAWA	LT3F				
	B		TANAKA ITO TAKABAYASH I WASHIO HORI MIWA	D101,ILTS				Fundamental Course in Molecular Biology[J] Fundamental Course in Molecular Biology[E]	MORIKAWA & others MORIKAWA & others	D101				Advanced Course in Agro- Ecosystem Science I (Grop Production) [J/E]	HOSHINO HIRATA NAKAMURA	FSC 106	Special Lecture in Biosphere Science I [J]: TBD(August and February) Fundamental Course in Biomass Production [J]: YAMAHA and others (August-September) Special Lecture in Biosphere Science II [J]: TBD(August)
	E M S	Chemistry I [J/E]	YAMADA	D103	Advanced Course in Environmental Catalytic Chemistry II [E]	KOWALSKA	D103	Advanced Course in Molecular Photonics and Electronics Science II [J/E]	NAKAMURA	D103	Advanced Course in Environmental Catalytic Chemistry I [J/E]	OHTANI	D103	Advanced Course in Environmental Nano-Materials Chemistry II [J/E]	KONISHI	D103	
	E S D				Advanced Course in Environmental Metrology [J]	TOYODA & others	C204-1							Advanced Course in Environmental Metrology [J]	TOYODA & others	G204-1	
2022	2 E S	Advanced Course in Ocean Dynamics [J]	MITSUDERA	D101	Advanced Course in Geophysical Fluid Dynamics [J]	KUBOKAWA	D102	Advanced Course in Atmospheric Dynamics [J]	HORINOUCHI	D101	Advanced Course in Hydrologic Cycle in Cryosphere [J]	SHIRAIWA SONE MATSUZAWA	LT3F	Advanced Course in Atmospheric and Oceanographic Data Analysis[J/E]	FUKAMACHI AOKI	D102	
	B																
stei	M S	Chemistry I [J/E]	YAMADA	D103				Advanced Course in Molecular Photonics and Electronics Science II [J/E]	NAKAMURA	D103	Advanced Course in Molecular Environmental Science I [J/E]	OHTANI	D103	Advanced Course in Environmental Nano-Materials Chemistry II [J/E]	KONISHI	D103	
Semester	E S D	Pollution Comparison [E]	TOYODA & others	D101				Advanced Course in Geoecological Resources [E]	HAYAKAWA	C204-2	Advanced Course in Academic English Writing for Environmental Sciences [E]	Renner	D101				
	E S								EBUCHI & others	D103	Advanced Course in Polar Oceanography [J]	AOKI TOYODA NAKAYAMA	D103				
f, First	3 B	Advanced Course in Biodiversity Science I [J/E]	AIBA KUBO NAGASATO	A809	Advanced Course in Plant Ecology I [J]	ONO	LT2F				Advanced Course in Environmental Molecular Biology I [J/E]	FUKUI MORIKAWA YAMAGUCHI OCHIAI KASAHARA	D102				
Half,	M S																
Second	E S D		TOYODA & others	D101													
0,	4 S							Advanced Course in Environmental Meteorology [J]	T WATANABE KAWASHIMA	D102							
	B	Advanced Course in Biodiversity Science I [J/E]	AIBA KUBO NAGASATO	A809													
	E M S																
	E S D	Introduction to Practical Science for Environment I [J]	YAMANAKA & others	D103	Introduction to Practical Science for Environment II [J]	YAMANAKA	D103										
	5 S																
	B																
	E M S																

[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 [italics in blue] Classes for English program, open for all students

Second Half, First Semester 2022

		Mon.									Thu		Fri.		Intensive courses and other courses (Dates to be determined)		
	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]: HIRATA (October 3,4.5) (D201)
	s D E				Advanced Course in Ocean	NISHIOKA WATANABE	C202	★Fundamental Course in	SUZUKI	C202	☆Fundamental Course in	SUZUKI KAMEYAMA	C202	Advanced Course in Ocean	NISHIOKA WATANABE	C202	☆Introduction to Circumpolar North[Advanced Course in
	S				Biogeochemistry[E]	YAMASHITA		Biogeochemistry [E] [Advanced Course in Tropospheric Chemistry]	KAMEYAMA MIYAZAKI		Biogeochemistry [E] [Advanced Course in Tropospheric Chemistry]	MIYAZAKI		Biogeochemistry[E]	YAMASHITA		Terrestrial Geochemical Cycle [[E] : FUKAMACHI and Other (Dates :TBD) Advanced Course in Forest Sphere Science IV (Regional
	S E				Fundamental Course in Materials Science III[E]	KONISI	D103	Fundamental Course in Materials Science II [E]	KOWALSKA	D103				Fundamental Course in Materials Science I [E]	КАТО	D103	Resources Management)[J/E]:T YOSHIDA & others (October)
_	M S				Introduction to Natural	TSUYUZAKI	D102	Science II [E]						Introduction to Natural	TSUYUZAKI	D102	
	E S D				Environmental Studies [J/E]	NEGISHI SATO								Environmental Studies [J/E]	NEGISHI SATO		
ار	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	D201 (10/5, 10/26 D102)							
70,	2 B S		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] Advanced Course in Biodiversity	KUDO YOSHIMURA TAKAGI UTSUMI NAKAOKA	D101	Advanced Course in Agro- Ecosystem Science II (Livestock Production) [J/E]	KAWAI MITANI	FSC 106	
Semester	E M S	Advanced Course in Environmental Nano-Materials Chemistry I [J/E]	KAMIYA	D103	Advanced Course in Biomaterials Chemistry II [J/E]	UMEZAWA	D103	Advanced Course in Molecular Photonics and Electronics Science I [E]	BIJU	D103	Science II [J/E] Advanced Course in Molecular Environmental Science III [J/E]	TBD	D103	Advanced Course in Environmental Nano-Materials Chemistry III [J/E]	YAGI	D103	
Se	E S D		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	
Second	8 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 Paleoceanography and Biomarker Geochemistry] [E]	YAMAMOTO SEKI IRINO	D103	
	B S	Advanced Course in Plant Ecology II [J/E]	G KUDO	A809							Advanced Course in Biodiversity Science II [J/E]	UTSUMI NAKAOKA	C204-2				
□ □	E M S																
LIEST	E S D		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	
	4 s	Sheet Science [J/E]	SUGIYAMA SONE MATOBA IIZUKA	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 Paleoceanography and Biomarker Geochemistry] [E]	YAMAMOTO SEKI IRINO	D103	
	B	Advanced Course in Plant Ecology II [J/E]	G KUDO	A809				☆Fundamental Course in Biodiversity of Northern Ecosystems [E]	G KUDO & others	D101				☆Fundamental Course in Biodiversity of Northern Ecosystems [E]	G KUDO & others	D101	
	E M S																
	E S D				Advanced Course in Practical Science for Environment [J]	YAMANAKA	D103										
į	5 s s		KOIZUMI & others	D101	Advanced Course in Ecological Genetics I [J/E]	OHARA KOSHIKAWA	C202	Fundamental Course in Biological Diversity [J]	KOIZUMI & others	D101	Advanced Course in Ecological Genetics I [J/E]	OHARA KOSHIKAWA	C202	Fundamental Course in Field Sciences [J/E]	YOTSUKURA & others	D102	
	E M S																-

[A B, C, D] Faulty of Environmental Earth Science Side, A B, C, D [LT2F] Institution of Low Temperature Science 2F(215) [LT3F] Institution of Low Temperature Science 3F(N3T) [FSC] For Institution of Low Temperature Science

INFO Information Incentive Center

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First Half, Second Semester 2022

		Mon.			Tue.			Wed.			Thu.			Fri.			Intensive courses and other courses (Dates to be determined)
	E S D																Special lecture in Environmental Science Development III[E] (June 4-7):KAWAKAMI (D201)
	S S																
	1 B																Advanced Course in Aquatic Biology I[J]: NAKAOKA & others (Dates :TBD) Advanced Course in Aquatic Biology I[E]: NAKAOKA &
	Е				Fundamental Course in Materials Science III[E]	KONISI	D103	Fundamental Course in Materials Science II [E]	KOWALSKA	D103				Fundamental Course in Materials Science I [E]	КАТО	D103	others (Dates :TBD) Advanced Course in Aquatic Biology II[J]: YAMAHA and
	M S	Advanced Course in Environmental	NORO	D102	Colorido III _L EJ			Advanced Course in Environmental	NORO	D102				Colonia ()			others (December) Special Lecture in Biosphere Science I [J] : (August and
	E S		& others	D102				Adaptation [E]	& others	D102							February)
2022	D				Advanced Course in Climate	TANIMOTO	C202										
20	2				Dynamics [J]							1104	UAKODAT.		IVANUAT.	500 400	
	В				Advanced Course in Marine Biosphere Science II [J]	URA	HAKODAT E				Advanced Course in Marine Biosphere Science II [J]	URA	E	Advanced Course in Agro- Ecosystem Science II (Livestock Production) [J/E]	KAWAI HOSHINO	FSC 106	
est	S																
emester	М	Advanced Course in Environmental Nano-Materials Chemistry I [J/E]	KAMIYA	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 III [J/E]	TBD		Advanced Course in Environmental Nano-Materials Chemistry III [J/E]	YAGI	D103	
Š	S E S				Advanced Course in Frozen Ground Environments [J]	ISHIKAWA	D102							Advanced Course in Frozen Ground Environments [J]	ISHIKAWA	D102	
pu	E										Advanced Course in Climate Modeling [J]	NAKAMURA KAWASHIMA	D103				
Second	3 8										modeling [0]	RAWASHIMA					
Š	B S																
Ψ,	M S				Advanced Course of International	TOYODA	D101							Advanced Course in Water	WATANABE	D101	
Half,	S				Science Communication Methods [E]	Greve Avtar								Resources [E]			
þ	E	Sheet Science [J/E]	SONE	LT2F							Advanced Course in Theoretical Glaciology [E]	Greve	LT313				
Second	4 5 5		MATOBA IIZUKA														
Se																	
	B S																
	M S				Advanced Course in Practical	YAMANAKA	D103							Advanced Course in Water	WATANABE	D101	
	S				Science for Environment [J]	MAINAINA	5700							Resources [E]	MAIANA	5101	
	S S																
	5 B		KOSHIKAWA & others	D102	Advanced Course in Ecological Genetics II [J]	SUZUKI & others	C202		KOSHIKAWA & others	D102	Advanced Course in Ecological Genetics II [J]	SUZUKI & others	C202	Fundamental Course in Field Sciences [J/E]	YOTSUKURA & others	D102	
	E																
	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 |
| Venue | [RB]FSC Research Bidg, 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 [italics in blue]Classes for English program, open for all students

Second Half, Second Semester 2022