

	Date	Start	Time	Lecture / Exercise topic and information	Module	Room	Marshak Chapter	Teacher (Assistant)
Week 1	Mon	31-aug.	10:00	11:45 INTRODUCTION - Earth System Sciences	INTRODUCTION	Will-Olsson		Pete
			13:00	14:45 FORMATION OF THE UNIVERSE, SOLAR SYSTEM, AND EARTH	INHABITABLE PLANET	Will-Olsson	Ch. 1	Christophe
			15:00	16:45 READING				
	Tues	01-sep.	10:00	11:45 PRESENTATION OF GROUP RESEARCH - Geology, Geochemistry, Marine Geology	INTRODUCTION	Will-Olsson		Joakim, Martin, Volker
			13:00	14:45 READING				
			15:00	16:45				
	Wed	02-sep.	10:00	11:45 CHEMISTRY BASICS - Elements to minerals	BASIC SCIENCE	Will-Olsson	Ch. 5	Pete
			13:00	14:45 EARTH STRUCTURE	INHABITABLE PLANET	Will-Olsson	Ch. 2, 10 + Int. D	Alasdair
			15:00	17:00 STUDYING WITH AI?	BASIC SCIENCE	DeGeer		External
	Thurs	03-sep.	10:00	11:45 MINERALS in ROCKS - Mineral properties - Mineral identification	EARTH MATERIALS - MINERALS & IGNEOUS ROCK	Will-Olsson	Ch. 5	Joakim
Week 2			13:00	14:45 Exercise Group B - Mineral identification		Y11		Joakim (Ylva)
			15:00	16:45 Exercise Group A - Mineral identification		Y11		Joakim (Ylva)
	Fri	04-sep.	10:00	11:45 Online Quiz Exercise - Chemistry Basics	BASIC SCIENCE			
			13:00	14:45 Online Quiz Exercise - Inhabitable Planet	INHABITABLE PLANET			
			15:00	17:00 Exercise - Chemistry Basics (Group A: 15:00-16:00 ; Group B: 16:00-17:00)	BASIC SCIENCE	Y11		Pete
	Mon	07-sep.	10:00	11:45 MINERALS in ROCKS - Rock forming minerals	MINERALS AND IGNEOUS ROCKS	Will-Olsson	Interlude A	Joakim
			13:00	14:45 Exercise Group A - Mineral identification		Y11		Joakim (Sofie)
			15:00	16:45 Exercise Group B - Mineral identification		Y11		Joakim (Sofie)
	Tues	08-sep.	10:00	11:45 IGNEOUS ROCKS		Will-Olsson	Ch. 6	Joakim
			13:00	15:45 Exercise Group B - Igneous rock identification		Y11		Joakim (Sofie)
			15:00	16:45 Exercise Group A - Igneous rock identification		Y11		Joakim (Sofie)
	Wed	09-sep.	10:00	11:45 PLATE TECTONICS - Introduction	PLATE TECTONICS	Will-Olsson	Ch. 4	Martin
			13:00	14:45 Exercise Group A - Plate tectonics		Y11		(Ylva + TBD)
			15:00	17:00 ACADEMIC WRITING AND AI	BASIC SCIENCE	DeGeer		External
Week 3	Thurs	10-sep.	10:00	11:45 PLATE TECTONICS - Interaction at the boundaries	PLATE TECTONICS	Will-Olsson	Ch. 4	Martin
			13:00	14:45 Exercise Group B - Plate tectonics		Y11		(Ylva + TBD)
			15:00	16:45 READING				
	Fri	11-sep.	10:00	11:45 VOLCANOES	VOLCANOES	Will-Olsson	Ch. 6	Alasdair
			13:00	14:45 Exercise Group A - Volcanoes		Y11		Alasdair (Sofie + TBD)
			15:00	16:45 Exercise Group B - Volcanoes		Y11		Alasdair (Sofie + TBD)
	Mon	14-sep.	10:00	11:45 SEDIMENTOLOGY I - Surface processes, sediments, and sedimentary structures	SEDIMENTOLOGY	Will-Olsson	Int. B + Ch. 7	Pete
			13:00	14:45 SEDIMENTOLOGY II - Sedimentary environments, diagenesis, and classification of sedimentary rocks		Will-Olsson	Ch. 7	Pete
			15:00	16:45 READING				
	Tues	15-sep.	09:30	11:45 Exercise Group B - Sediments and sedimentary rocks		Y11		Pete (Flora + Lauren)
Week 4			13:00	15:15 Exercise Group A - Sediments and sedimentary rocks		Y11		Pete (Flora + Lauren)
			15:15	16:45 READING				
	Wed	16-sep.	10:00	11:45 METAMORPHISM	METAMORPHISM	Will-Olsson	Ch. 8	Alasdair
			13:00	14:45 Exercise Group B - Metamorphic rock identification		Y11/U28		Alasdair (Sofie + Deborah)
			15:00	16:45 Exercise Group A - Metamorphic rock identification		Y11/U28		Alasdair (Sofie + Deborah)
			15:00	16:45 READING				
	Thurs	17-sep.	10:00	11:45	MINERALS AND IGNEOUS ROCKS	Y11/U28		Joakim (TBD)
			13:00	14:45 Minerals and Rocks identification extra exercise time		Y11/U28		Joakim (TBD)
			15:00	16:45 Minerals and Rocks identification extra exercise time		Y11/U28		Joakim (TBD)
	Fri	18-sep.	10:00	11:45	CLOCKS IN ROCKS	Will-Olsson	Ch. 12	Helen
Week 5	Mon	21-sep.	10:00	11:45 CLOCKS IN ROCKS I - Stratigraphy and the Geological time scale		Outside IGV		Helen + Richard (Blanda)
			13:00	14:45 Exercise Groups A + B - Rock garden exercise		Outside IGV		Helen + Richard (Blanda)
			15:00	16:45 Exercise Groups A + B - Rock garden exercise		Will-Olsson	Ch. 12	Helen
	Tues	22-sep.	10:00	11:45 CLOCKS IN ROCKS II - Measuring time and Stratigraphic logs		Y11		Helen (Blanda)
			13:00	14:45 Exercise Group A - Identifying unconformities/Relative geological time		Y11		Helen (Blanda)
			15:00	16:45 Exercise Group B - Identifying unconformities/Relative geological time				
	Wed	23-sep.	10:00	11:45 EARTHQUAKES AND TSUNAMIS	NATURAL HAZARDS	Will-Olsson	Ch. 10	Alasdair
			13:00	14:45 Exercise Group B		Y11		Alasdair (Sofie + Deborah)
			15:00	16:45 Exercise Group A		Y11		Alasdair (Sofie + Deborah)
	Thurs	24-sep.	10:00	11:45 STATISTICS & DATA REPRESENTATION - Basic statistics for geoscientists	BASIC SCIENCE	Will-Olsson		Jan
Week 5			13:00	14:45 Exercise Group A - Statistical handling of geoscientific data		Y11		Jan (Ylva)
			15:00	16:45 Exercise Group B - Statistical handling of geoscientific data		Y11		Jan (Ylva)
	Fri	25-sep.	10:00	11:45 DEFORMATION	DEFORMATION	Will-Olsson	Ch. 11	Alasdair
			13:00	14:45 Exercise Group A		Y11		Alasdair (Deborah + Sofie)
			15:00	16:45 Exercise Group B		Y11		Alasdair (Deborah + Sofie)
	Mon	28-sep.	10:00	11:45 GIS METHODS I - Introduction to GIS	GIS METHODS	Will-Olsson		Richard
			13:00	14:45 Exercise Group A - Make a map using QGIS		U27		Richard (Jan)
			15:00	16:45 Exercise Group A - Make a map using QGIS		U27		Richard (Jan)
	Tue	29-sep.	10:00	11:45 GIS METHODS II - GIS in research		Will-Olsson		Martin
			13:00	14:45 Exercise Group B - Make a map using QGIS		U27		Richard (Jan + Ylva)
			15:00	16:45 Exercise Group B - Make a map using QGIS		U27		Richard (Jan + Ylva)
Week 5	Wed	30-sep.	10:00	11:45	READING AND EXAM PREPARATION			
			13:00	14:45				
			15:00	16:45				
Week 5	Thu	01-okt.	13:00	15:00	WRITTEN EXAM 1 (2.5 HP)			
					U10			
					Will-Olsson			
					U28, U27			

	Date	Start	Time	Lecture / Exercise topic and information	Module	Room	Marshak Chapter	Teacher (Assistant)		
Week 5	Fri 02-okt.			EXCURSION TO GOTLAND & UTÖ (Friday 2 Oct - Thursday 8 Oct)	FIELD EXCURSION	Utö: Alasdair, Elisabeth, Joakim, Richard, Sofie, Deborah Gotland: Otto, Christophe, Pete, Flore			Week 5	
	Sat 03-okt.									
	Sun 04-okt.									
Week 6	Mon 05-okt.	Transfer		SEE SEPARATE SCHEDULE					Week 6	
	Tues 06-okt.									
	Wed 07-okt.									
	Thurs 08-okt.									
Week 7	Fri 09-okt.	10:00	11:45	PALEONTOLOGY I - Fossil record and fossilization	PALEONTOLOGY	Will-Olsson	Interlude E	Otto	Week 7	
		13:00	14:45	Exercise Group B		Y11		Otto		
		15:00	16:45	Exercise Group A		Y11		Otto		
	Mon 12-okt.	10:00	11:45	PALEONTOLOGY II - Fossils of Gotland	LIFE AND ECOSYSTEMS	Will-Olsson	Ch. 13	Otto	Week 7	
		13:00	14:45	READING						
		15:00	16:45							
	Tues 13-okt.	10:00	11:45	THE HISTORY OF LIFE - Origin of life to recent		Will-Olsson	Ch. 13	Pete		
		13:00	14:45	Online Quiz Exercise						
		15:00	16:45	READING						
	Wed 14-okt.	10:00	11:45	ECOSYSTEM FORM AND FUNCTION - Ecology, concepts, past ecosystems		Will-Olsson	Ch. 23	Pete		
		13:00	14:45	Online Quiz Exercise						
	15:00	16:45	READING							
Thurs 15-okt.	10:00	11:45	READING (Lecture at 13.00!)							
	13:00	14:45	BIOGEOCHEMICAL CYCLES	BIOGEOCHEMICAL CYCLES	Will-Olsson	Ch. 23	Christophe	Week 7		
	15:00	16:45	Online Quiz Exercise							
Fri 16-okt.	10:00	11:45	CLIMATE SYSTEM	CLIMATE	Will-Olsson	Ch. 20, 23	Alasdair (Deborah)	Week 7		
	13:00	14:45	Exercise Group A		Y11		Alasdair (Sofie + Deborah)			
	15:00	16:45	Exercise Group B		Y11		Alasdair (Sofie + Deborah)			
Week 8	Mon 19-okt.	10:00	11:45	PROGRAMMING I	BASIC SCIENCE	Will-Olsson		Richard	Week 8	
		13:00	14:45	Exercise Group A - Programming (Bring your own computer if possible)		U27		Richard (Ylva)		
		15:00	16:45	Exercise Group B - Programming (Bring your own computer if possible)		U27		Richard (Ylva)		
	Tues 20-okt.	10:00	11:45	PROGRAMMING II		Will-Olsson		Richard		
		13:00	14:45	Exercise Group B - Programming (Bring your own computer if possible)		U27		Richard (Ylva)		
		15:00	16:45	Exercise Group A - Programming (Bring your own computer if possible)		U27		Richard (Ylva)		
	Wed 21-okt.	10:00	11:45	THE WORLD OCEAN - Ocean circulation (formation-size)	OCEANS	Will-Olsson	Ch. 18	Agatha		Week 8
		13:00	14:45	Exercise Group B		Y11		Agatha		
		15:00	16:45	Exercise Group A		Y11		Agatha		
	Thurs 22-okt.	10:00	11:45	ANTHROPOCENE	ANTHROPOCENE	Will-Olsson	Ch. 23	Alasdair		Week 8
		13:00	14:45	Exercise Group A		Y11		Alasdair (Sofie + Deborah)		
		15:00	16:45	Exercise Group B		Y11		Alasdair (Sofie + Deborah)		
	Fri 23-okt.	10:00	11:45	READING					Week 8	
	13:00	14:45								
	15:00	16:45								
Week 9	Mon 26-okt.	10:00	11:45	READING	SUMMARY	Will-Olsson		Richard, Pete	Week 9	
		13:00	14:45	COURSE CONCLUSION - including questions and answers						
		15:00	16:45	READING						
	Tues 27-okt.	10:00	11:45	Exam preparation					Week 9	
		13:00	14:45							
		15:00	16:45							
	Wed 28-okt.	10:00	11:45	Exam preparation					Week 9	
		13:00	14:45							
		15:00	16:45							
	Thurs 29-okt.	10:00	11:45	Exam preparation					Week 9	
		13:00	14:45							
		15:00	16:45							
Fri 30-okt.	09:00	14:00	WRITTEN EXAM 2 (10 HP)		Y11			Week 9		
					Will-Olsson					
					U13, U29					