Stockholms universitet

Schedule for Geological Sciences (GG2010), HT2026, 15 hp (Page 1/2)

Version **23-7-2026**

		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	Week 1
			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, Volker, Martin	
			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	
			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 - Earth Structure	INHABITABLE PLANET				
			15:00	16:45	Exercise Groups A + B - Chemistry Basics	BASIC SCIENCE	Y11		Pete	
Week 2	Mon	07-sep.	10:00	11:45	MINERALS in ROCKS: Rock forming minerals	MINERALS AND IGNEOUS ROCKS	Will-Olsson	Interlude A	Joakim	Week 2
			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	
	Thur	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 + Deborah)	
			15:00	16:45	Exercise Group B - Volcanoes		Y11		Alasdair (Sofie + Deborah)	
Week 3	Mon	14-sep.	10:00	11:45	SEDIMENTOLOGY I - Surface processes, sediments, and sedimentary structures	SEDIMENTOLOGY	Will-Olsson	Int. B + Ch. 7	Pete	Week 3
			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 (Flore + Lauren)	
			13:00	**15:15**	Exercise Group A - Sediments and sedimentary rocks		Y11		Pete (Flore + 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)	
	Thurs	17-sep.	10:00	11:45	READING					
			13:00	14:45						
			15:00	16:45						
	Fri	18-sep.	10:00	11:45	Minerals and Rocks identification extra exercise time	MINERALS AND IGNEOUS ROCKS	Y11/U28		Joakim (Sofie)	
			13:00	14:45	Minerals and Rocks identification extra exercise time		Y11/U28		Joakim (Sofie)	
			15:00	16:45	Minerals and Rocks identification extra exercise time		Y11/U28		Joakim (Sofie)	
Week 4	Mon	21-sep.	10:00	11:45	CLOCKS IN ROCKS I - Stratigraphy and the Geological time scale	CLOCKS IN ROCKS	Will-Olsson	Ch. 12	Helen	Week 4
			13:00	14:45	Exercise Groups A + B - Rock garden exercise		Outside IGV		Helen (Blanda)	
			15:00	16:45	Exercise Groups A + B - Rock garden exercise		Outside IGV		Helen (Blanda)	
	Tues	22-sep.	10:00	11:45	CLOCKS IN ROCKS II - Measuring time and Stratigraphic logs		Will-Olsson	Ch. 12	Helen	
			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		Y11		Helen (Blanda)	
	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	
			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 (TBD + TBD)	
			15:00	16:45	Exercise Group B		Y11		Alasdair (TBD + TBD)	
Week 5	Mon	28-sep.	10:00	11:45	METHOD: Introduction to GIS	GIS METHODS	Will-Olsson		Richard	Week 5
			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 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)	
	Wed	30-sep.	10:00	11:45	READING AND EXAM PREPARATION					
			13:00	14:45						
			15:00	16:45						
	Thu	01-okt.	13:00	15:00	**WRITTEN EXAM 1 (2.5 HP)**		**U10 Will-Olsson U28**			

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		Date	Start	Time	Lecture / Exercise topic and information	Module	Room	Marshak Chapter	Teacher (Assistant)	
Week 5	Fri	02-okt.			**EXCURSION TO GOTLAND & UTÖ**	**FIELD EXCURSION**	**Utö**: Alasdair, Elisabeth, Joakim, Richard, Sofie, Deborah **Gotland**: Otto, Christophe, Pete, Flore			Week 5
	Sat	03-okt.								
	Sun	04-okt.								
Week6	Mon	05-okt.	*Transfer*		**(Friday 2 Oct - Thursday 8 Oct)**					Week6
	Tues	06-okt.								
	Wed	07-okt.			**SEE SEPARATE SCHEDULE**					
	Thurs	08-okt.								
	Fri	09-okt.	10:00	11:45	PALEONTOLOGY I - Fossil record and fossilization	**PALEONTOLOGY**	Will-Olsson	**Interlude E**	**Otto**	
			13:00	14:45	Exercise Group B		Y11		**Otto (TBD)**	
			15:00	16:45	Exercise Group A		Y11		**Otto (TBD)**	
Week 7	Mon	12-okt.	10:00	11:45	PALEONTOLOGY II - Fossils of Gotland		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	**LIFE AND ECOSYSTEMS**	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**	
			15:00	16:45	Online Quiz Exercise					
	Fri	16-okt.	10:00	11:45	CLIMATE SYSTEM	**CLIMATE**	Will-Olsson	**Ch. 20, 23**	**Alasdair (Deborah)**	
			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**	
			13:00	14:45	Exercise Group B		Y11		**Agatha (Flore)**	
			15:00	16:45	Exercise Group A		Y11		**Agatha (Flore)**	
	Thurs	22-okt.	10:00	11:45	ANTHROPOCENE	**ANTHROPOCENE**	Will-Olsson	**Ch. 23**	**Alasdair (TBD)**	
			13:00	14:45	Exercise Group A		Y11		**Alasdair (Sofie + TBD)**	
			15:00	16:45	Exercise Group B		Y11		**Alasdair (Sofie + TBD)**	
	Fri	23-okt.	10:00	11:45						
			13:00	14:45	**READING**					
			15:00	16:45						
Week 9	Mon	26-okt.	10:00	11:45	**READING**					Week 9
			13:00	14:45	COURSE CONCLUSION - including questions and answers	**SUMMARY**	Will-Olsson		**Richard, Pete**	
			15:00	16:45	**READING**					
	Tues	27-okt.	10:00	11:45	**Exam preparation**					
			13:00	14:45						
			15:00	16:45						
	Wed	28-okt.	10:00	11:45	**Exam preparation**					
			13:00	14:45						
			15:00	16:45						
	Thurs	29-okt.	10:00	11:45	**Exam preparation**					
			13:00	14:45						
			15:00	16:45						
	Fri	30-okt.	09:00	14:00	**WRITTEN EXAM 2 (10 HP)**		**Y11** **Will-Olsson** **U13**			