

## Mineralogy and Petrology

Week	Weekday	Date	Time	Room	Topic	Activity
v 3	Mon	2024-01-15	10:00-12:00	Y11	1. Introduction to mineralogy	Lecture
			13:00-16:00	Y11	Lab. 1 Review of physical properties of minerals	Lab
v 3	Tue	2024-01-16	10:00-12:00	Y11	2. Optical Mineralogy	Lecture
			13:00-16:00	U28	Lab. 2 Optics practical	Lab
v 3	Wed	2024-01-17	10:00-12:00	Y11	3. Rock forming minerals 1	Lecture
			13:00-16:00	U28	Lab. 3 Ortho, di, chain silicates	Lab
v 3	Thur	2024-01-18	10:00-12:00	Y11	4. Rock forming minerals 2	Lecture
			13:00-16:00	U28	Lab. 4 Sheet and framework silicates	Lab
v 3	Fri	2024-01-19			Self study	
					Self study	
v 4	Mon	2024-01-22	10:00-12:00	Y11	5. Carbonates, Ti oxides and chemical formulae recalculation	Lecture
			13:00-16:00	U28	Lab. 5 Minerals and chemical formulae	Lab
v 4	Tue	2024-01-23	10:00-12:00	Y11	6. Introduction to Siliciclastic sedimentology	Lecture
			13:00-16:00	U28	Lab. 6 Siliciclastic sediments and rocks - thin sections	Lab
v 4	Wed	2024-01-24	10:00-12:00	Y11	7. Igneous Rock classification	Lecture
			13:00-16:00	U28	Lab. 7 IUGS modal classification	Lab
v 4	Thur	2024-01-25	10:00-12:00	Y11	8. Igneous textures	Lecture
			13:00-16:00	U28	Lab. 8 Describing thin sections	Lab
v 4	Fri	2024-01-26			Self study	
					Self study	
v 5	Mon	2024-01-29	10:00-12:00	Y11	9. Igneous Volcanic Textures	Lecture
			13:00-16:00	U28	Lab. 9 Volcanic thin-sections	Lab
v 5	Tue	2024-01-30	10:00-12:00	Y11	10. Igneous Petrology - Intrusive textures	Lecture
			13:00-16:00	U28	Lab. 10 Plutonic thin-sections	Lab
v 5	Wed	2024-01-31	10:00-12:00	Y11	11. Introduction to metamorphism	Lecture
			13:00-16:00	U28	Lab. 11 Metamorphic rocks in hand sample-thin section	Lab
v 5	Thur	2024-02-01	10:00-12:00	Y11	12. Metamorphic textures	Lecture
			13:00-16:00	U28	Lab. 12 Metamorphic textures in thin-section	Lab
v 5	Fri	2024-02-02			Self study	
					Self study	
v 6	Mon	2024-02-05	10:00-12:00	Y11	13. Phase Rule	Lecture
			13:00-16:00	U28	Lab. 13 Phase rule	Lab
v 6	Tue	2024-02-06	10:00-12:00	Y11	14. Metamorphic reactions	Lecture
			13:00-16:00	U28	Lab. 14 Metamorphic reactions in thin-section	Lab
v 6	Wed	2024-02-07	10:00-12:00	Y11	15. Project	Project
			12:00-16:00	Aula Magna	Career day	
v 6	Thur	2024-02-08	10:00-16:00	U28	Microscope day /Self study	Lab/Reading
v 6	Fri	2024-02-09		Y11	Paper presentation and discussion	Exam
				Y11	Paper presentation and discussion	Exam
v 7	Mon	2024-02-12	10:00-12:00	Y11	Revision for the exam	
			13:00-16:00	U28	Microscope/Self study	
v 7	Tues	2024-02-13	10:00-12:00		Self study	
			13:00-16:00		Self study	
v 7	Wed	2024-02-14	9:30-12:30	U28	<b>EXAM</b>	Exam
			13:30-16:30	U28	<b>EXAM</b>	Exam

### Course literature

C. Klein & A. Philpotts, 2012 or 2017. Earth Materials: Introduction to Mineralogy and Petrology. Cambridge University Press.  
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