

Igneous and metamorphic petrology, GG4048
Course organizers: V Pease, P Manzotti

v 4	Mon	2025-01-20	09:30-11:30	U10	Igneous rocks, part 1	VP	Lecture	Winter Ch. 1 & 2	Ig & Met Petrology
			13:00-16:00	U28	Lab 1. Plutonic textures		Lab		
	Tue	2025-01-21			Reading day				
	Wed	2025-01-22	09:30-11:30	U10	Igneous rocks, part 2	VP	Lecture	Winter Ch. 3	
			13:00-16:00	U10	Lab 2. Binary Phase diagrams		Lab		
	Thur	2025-01-23	09:30-12:00	U28	Project work		Lab		
	Fri	2025-01-24	09:30-11:30	U10	Chemical classification & magma series	VP	Lecture	Winter Ch. 6	
			13:00-16:00	U28	Lab 3. Volcanic textures		Lab		
v 5	Mon	2025-01-27	09:30-11:30	U10	Trace & REE elements	VP	Lecture	Winter Ch. 6	
			13:00-16:00	U27	Lab 4. REE normalization		Lab		
	Tue	2025-01-28			Reading day				
	Wed	2025-01-29	09:30-11:30	U10	Isotopes	VP	Lecture	Winter Ch. 8	
			13:00-16:00	U27	Lab 5. Ds & Kds (lab 2 P&T)				
	Thur	2025-01-30	09:30-11:30	U28	Project work				
	Fri	2025-01-31	09:30-11:30	U10	Mantle sources	VP	Lecture	Winter Ch. 9	
			13:00-16:00	U28	Lab 6. Mantle rocks in thin-section		Lab		
v 6	Mon	2025-02-03	09:30-11:30	U10	Magma diversification	VP	Lecture	Winter Ch. 9	Ig & Met Petrology
			13:00-16:00	U27	Lab 7. Mantle & melt extraction (Lab 4 P &T)				
	Tue	2025-02-04			Reading day				
	Wed	2025-02-05	09:30-11:30	U10	Layered mafic intrusions	VP	Lecture	Winter Ch. 10	
			13:00-16:00	U27	Lab 8. Partial melting (Lab 3 P&T)				
	Thur	2025-02-06	09:30-11:30	U27	Project work				
	Fri	2025-02-07	09:30-11:30	U10	MORB & Ocean intraplate	VP	Lecture	Winter Ch. 11	
			13:00-16:00	U28	Lab 9. Oman ophiolite (Lab 7 P&T)				
v 7	Mon	2025-02-10	09:30-11:30	U10	Subduction zones	VP	Lecture	Winter Ch. 12	
			13:00-16:00	U27	Lab 10. Arc chem				
	Tue	2025-02-11			Reading day				
	Wed	2025-02-12	09:30-17:00	U27	Project work	VP	Lecture	Winter Ch. 13	
	Thur	2025-02-13	09:30-16:00	U10	Project seminars				
	Fri	2025-02-14	09:30-13:30	U10	Igneous revision				
v 8	Mon	2025-02-17	09:30-1300	U10	Exam (combined lab + lecture)	VP	Lecture	Winter Ch. 16, 17	
	Tue	2025-02-18	09:30-11:30	U10	1. Metamorphism: some refreshments	PM	Lecture	Winter Ch. 21, 23, 25	
			13:00-15:00	U10	Lab. 1		Lab		
	Wed	2025-02-19	09:30-16:00	U28	Project work				
	Thur	2025-02-20	09:30-11:30	U10	2. Chemographic representations	PM	Lecture	Winter Ch. 22	
			13:00-15:00	U28	Lab. 2		Lab		
	Fri	2025-02-21	09:30-11:30	U10	3. Metamorphic reactions I	PM	Lecture	Winter Ch. 24	
			13:00-15:00	U28	Lab. 3		Lab		
v 9	Mon	2025-02-24	09:30-11:30	U10	4. Univariant vs divariant reactions	PM	Lecture	Winter Ch. 26	Ig & Met Petrology
			13:00-15:00	U28	Lab. 4		Lab		
	Tue	2025-02-25			Reading day		Reading		
	Wed	2025-02-26	09:30-16:00	U28	Project work		Lab		
	Thur	2025-02-27	09:30-11:30	U10	5. Pelitic rocks in the KFMASH system	PM	Lecture	Winter Ch. 26	
			13:00-15:00	U28	Lab. 5		Lab		
	Fri	2025-02-28	09:30-11:30	U10	6.High-temperature metamorphism	PM	Lecture	Winter Ch. 27	
			13:00-15:00	U28	Lab. 6		Lab		
v 10	Mon	2025-03-03	09:30-11:30	U10	7. Geothermobarometry (bring your own computer!)	PM	Lecture	Winter Ch. 28	
			13:00-15:00	U28	Lab. 7		Lab		
	Tue	2025-03-04			Reading day		Reading		
	Wed	2025-03-05	09:30-16:00	U28	Project work		Lab		
	Thur	2025-03-06	09:30-11:30	U10	8. Tectonic architecture of the Alpine belt	PM	Lecture	Geodynamics of the	
			13:00-15:00	U28	Alps maps		Lab	Alps Ch. 5	
	Fri	2025-03-07	09:30-11:30	U10	8. Tectonic architecture of the Alpine belt	PM	Lecture	Geodynamics of the	
			13:00-15:00	U28	Alps maps		Lab	Alps Ch. 5	
v 11	Mon	2025-03-10	09:30-11:30	U10	Metamorphic revision	PM	Lecture		Ig & Met Petrology
	Tue	2025-03-11			Reading day		Reading		
	Wed	2025-03-12	09:30-16:00	U28	Project work	PM	Lecture		
	Thur	2025-03-13	09:30-16:00	U27	Project seminars		Exam		
	Fri	2025-03-14	09:30-13:30	U28	Exam (combined lab + lecture)	PM	Exam		
	Sat	2025-03-15							
	Sun	2025-03-16			Travel to Milano Malpensa (suggested flight: 7.20-10.05 829 SEK)		Excursion		
v 12	Mon	2025-03-17			Ivrea		Excursion		
	Tue	2025-03-18			Ivrea		Excursion		
	Wed	2025-03-19			Aosta valley		Excursion		
	Thur	2025-03-20			Aosta valley		Excursion		
	Fri	2025-03-21			Aosta valley		Excursion		
	Sat	2025-03-22			Back to Stockholm from Milano MXP (suggested flighth: 20.15-23.00 1231 SEK)		Excursion		

NEXT PERIOD BEGINS Monday Mar 24