

Igneous and metamorphic petrology, GG4045

Course organizer: Victoria Pease

This 2nd year course runs for the first time in 2024.
Cross-ck mic/comp rooms with Min/Pet.

v 3	Mon	2024-01-15	09:30-11:30 13:00-16:00	U13 Igneous rocks, part 1 U28 Lab 1. Cumulate textures	VP Lecture Lab	Winter Ch. 1 & 2
	Tue	2024-01-16		Reading day		
	Wed	2024-01-17	09:30-11:30 13:00-16:00	U13 Chemical classification & magma series U27 Lab 2. Binary Phase diagrams	VP Lecture Lab	Winter Ch. 6
	Thur	2024-01-18	09:30-12:00	U28 Project work	Lab	
	Fri	2024-01-19	09:30-11:30 13:00-16:00	U13 Igneous rocks, part 2 U28 Lab 3. Volcanic textures	VP Lecture Lab	Winter Ch. 3
v 4	Mon	2024-01-22	09:30-11:30 13:00-16:00	U13 Trace & REE elements U27 Lab 4. REE normalization	VP Lecture Lab	Winter Ch. 6
	Tue	2024-01-23		Reading day		
	Wed	2024-01-24	09:30-11:30 13:00-16:00	U13 Isotopes U27 Lab 5. Ds & Kds (lab 2 P&T)	VP Lecture	Winter Ch. 8
	Thur	2024-01-25	09:30-11:30	U28 Project work		
	Fri	2024-01-26	09:30-11:30 13:00-16:00	U13 Mantle sources U28 Lab 6. Mantle rocks in thin-section (Lab 1 P&T)	VP Lecture Lab	Winter Ch. 9
v 5	Mon	2024-01-29	09:30-11:30 13:00-16:00	U13 Magma diversification U27 Lab 7. Mantle & melt extraction (Lab 4 P &T)	VP Lecture	Winter Ch. 9
	Tue	2024-01-30		Reading day		
	Wed	2024-01-31	09:30-11:30 13:00-16:00	U13 Layered mafic intrusions U27 Lab 8. Partial melting (Lab 3 P&T)	VP Lecture	Winter Ch. 10
	Thur	2024-02-01	09:30-11:30	U27 Project work		
	Fri	2024-02-02	09:30-11:30 13:00-16:00	U13 MORB & Ocean intraplate U28 Lab 9. Oman ophiolite (Lab 7 P&T)	VP Lecture	Winter Ch. 11
v 6	Mon	2024-02-05	09:30-11:30 13:00-16:00	U13 Subduction zones U27 Lab 10. Arc chem	VP Lecture	Winter Ch. 12
	Tue	2024-02-06		Reading day		
	Wed	2024-02-07	09:30-11:30	U27 Project work	VP Lecture	Winter Ch. 13
	Thur	2024-02-08	09:30-16:00	U13 Project seminars		
	Friday	2024-02-09	09:30-13:30	U13 Igneous revision		
v 7	Mon	2024-02-12	09:30-12:30	U13 Exam (combined lab + lecture)	VP Lecture	Winter Ch. 16, 17
	Tue	2024-02-13		Reading day		
	Wed	2024-02-14	09:30-11:30 13:00-16:00	U13 1 Metamorphism: some refreshments U13 Lab. 1	PM Lecture Lab	Winter Ch. 21, 23, 25
	Thur	2024-02-15	09:30-16:00	U28 Project work		
	Fri	2024-02-16	09:30-11:30 13:00-16:00	U13 2 Two intensive variables: P and T U28 Lab. 2	PM Lecture Lab	Winter Ch. 22
v 8	Mon	2024-02-19	09:30-11:30 13:00-16:00	U13 3 Chemographic (ACF, AKF, AFM) representations U28 Lab. 3	PM Lecture Lab	Winter Ch. 24
	Tue	2024-02-20		Reading day		
	Wed	2024-02-21	09:30-11:30 13:00-16:00	U13 4 Metamorphic reactions (univariant, divariant) U28 Lab. 4	PM Lecture Lab	Winter Ch. 26
	Thur	2024-02-22	09:30-16:00	U28 Project work	Lab	
	Fri	2024-02-23	09:30-11:30 13:00-16:00	U13 5 Petrogenetic grids U28 Lab. 5	PM Lecture Lab	Winter Ch. 26
v 9	Mon	2024-02-26	09:30-11:30 13:00-16:00	U13 6 Geothermobarometers U28 Lab. 6	PM Lecture Lab	Winter Ch. 27
	Tue	2024-02-27		Reading day		
	Wed	2024-02-28	09:30-11:30 13:00-16:00	U13 7 High temperature metamorphism and partial mel U28 Lab. 7	PM Lecture Lab	Winter Ch. 28
	Thur	2024-02-29	09:30-16:00 13:00-16:00	U13 8: Tectonic architecture of the Alpine belt U28 Alps map	PM Lecture Lab	Geodynamics of the Alps Ch. 5
	Fri	2024-01-01	09:30-16:00	U28 Project work	Lab	
v 10	Mon	2024-03-04	09:30-11:30 13:00-16:00	U13 9: Metamorphic history of the Alpine belt U28 Alps maps	PM Lecture Lab	Geodynamics of the Alps Ch. 5
	Tue	2024-03-05		Reading day		
	Wed	2024-03-06	09:30-16:00	U28 Project work	PM Lecture	
	Thur	2024-03-07	09:30-16:00	U27 Project seminars	Lab	
	Fri	2024-03-08	09:30-11:30	U13 Metamorphic revision	PM Lecture	
v 11	Mon	2024-03-11	09:30-12:30	U28 Exam (combined lab + lecture)	PM	
	Tue	2024-03-12				
	Wed	2024-03-13		Travel to Milano Malpensa		
	Thur	2024-03-14		Ivrea		
	Fri	2024-03-15		Ivrea		
v 12	Sat	2024-03-16		Aosta valley		
	Sun	2024-03-17		Aosta valley		
	Mon	2024-03-18		Aosta valley		
	Tue	2024-03-19		Back to Stockholm from Milano Malpensa		
	Wed	2024-03-20		End termin B		

U27 = computer
note thqt this yr students will not have had phase diagrams with P.
Part of the phase rule to PM...
Lab 3. Phase rule; remove

Project work
Ivrea mantle rocks (UM, gb, and gr, rhy)