

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

v 4	Mon	2026-01-19	09:30-11:30	U10	Igneous rocks, part 1	VP	Lecture	Winter Ch. 1 & 2
			13:00-16:00	U28	Lab 1. Plutonic textures		Lab	Winter Ch. 3
	Tue	2026-01-20			Reading day			
	Wed	2026-01-21	09:30-11:30	U10	Igneous rocks, part 2	VP	Lecture	Winter Ch. 3
			13:00-16:00	U27	Lab 2. Binary Phase diagrams		Lab	Winter Ch. 6
	Thur	2026-01-22	09:30-12:00	U28	Project work			
	Fri	2026-01-23	09:30-11:30	U10	Chemical classification & magma series	VP	Lecture	Winter Ch. 8
			13:00-16:00	U28	Lab 3. Volcanic textures		Lab	Winter Ch. 3
v 5	Mon	2026-01-26	09:30-11:30	U10	Trace & REE elements	VP	Lecture	Winter Ch. 9
			13:00-16:00	U27	Lab 4. REE normalization		Lab	
	Tue	2026-01-27			Reading day			
	Wed	2026-01-28	09:30-11:30	U10	Isotopes	VP	Lecture	Winter Ch. 9
			13:00-16:00	U27	Lab 5. Ds & Kds		Lab	
	Thur	2026-01-29	09:30-12:00	U28	Project work			
	Fri	2026-01-30	09:30-11:30	U10	Mantle sources	VP	Lecture	Winter Ch. 10
			13:00-16:00	U28	Lab 6. Mantle rocks in thin-section		Lab	
v 6	Mon	2026-02-02	09:30-11:30	U10	Magma diversification	VP	Lecture	Winter Ch. 11
			13:00-16:00	U27	Lab 7. Mantle & melt extraction		Lab	
	Tue	2026-02-03			Reading day			
	Wed	2026-02-04	09:30-11:30	U10	Layered mafic intrusions	VP	Lecture	Winter Ch. 12
			13:00-16:00	U27	Lab 8. Binary mixing		Lab	
	Thur	2026-02-05	09:30-11:30	U27	Project work			
	Fri	2026-02-06	09:30-11:30	U10	MORB & Ocean intraplate	VP	Lecture	Winter Ch. 13-14
			13:00-16:00	U28	Lab 9. Oman ophiolite		Lab	
v 7	Mon	2026-02-09	09:30-11:30	U10	Subduction zones	VP	Lecture	Winter Ch. 16-17
			13:00-16:00	U27	Lab 10. Partial melting		Lab	
	Tue	2026-02-10			Reading day			
	Wed	2026-02-11	09:30-11:30	U27	Project work			
	Thur	2026-02-12	09:30-16:00	U10	Project seminars	VP		
	Fri	2026-02-13	09:30-11:30	U10	Igneous revision	VP		
v8	Mon	2026-02-16	09:30-12:30	U10	Exam (combined lab + lecture)			
	Tue	2026-02-17	10:00-12:00	U10	1. Metamorphism: revision	PM	Lecture	Winter Ch. 21, 23, 25
			13:00-16:00	U10	Lab. 1			
	Wed	2026-02-18	10:00-16:00	U28	Project work			
	Thur	2026-02-19	10:00-12:00	U10	2. Chemographic representations	PM	Lecture	Winter Ch. 22
			13:00-16:00	U28	Lab. 2			

	Fri	2026-02-20	10:00-12:00	U10	3. Metamorphic reactions I	PM	Lecture	Winter Ch. 22
			13:00-16:00	U28	Lab. 3		Lab	
v 9	Mon	2026-02-23	10:00-12:00	U10	4. Metamorphic reactions (univariant, divariant)	PM	Lecture	Winter Ch. 24
			13:00-16:00	U28	Lab. 4 (bring your own computer)		Lab	
	Tue	2026-02-24			Reading day		Reading	
	Wed	2026-02-25	10:00-16:00	U28	Project work		Lecture	Winter Ch. 26
	Thur	2026-02-26	10:00-12:00	U10	5. Pelitic rocks in the KFMASH system	PM	Lab	
			13:00-16:00	U28	Lab. 5			
	Fri	2026-02-27	10:00-12:00	U10	6. High-temperature metamorphism	PM	Lecture	Winter Ch. 26
			13:00-16:00	U28	Lab. (your own computer)		Lab	
v 10	Mon	2026-03-02	10:00-12:00	U10	7. Geothermobarometry (your own computer)	PM	Lecture	Winter Ch. 27
			13:00-16:00	U10	Lab. 7 (your own computer)		Lab	
	Tue	2026-03-03			Reading day		Reading	
	Wed	2026-03-04	10:00-16:00	U28	Project work			
	Thur	2026-03-05	10:00-12:00	U10	8: Tectonic architecture of the Alpine belt	PM	Lecture	Winter Ch. 28
			13:00-16:00	U10	Alpine maps		Lab	
	Fri	2026-03-06	10:00-12:00	U10	8: Tectonic architecture of the Alpine belt	PM	Lecture	
			13:00-16:00	U10	Alpine maps		Lab	
v 11	Mon	2026-03-09	10:00-12:00	U28	Metamorphic revision	PM	Lecture	
	Tue	2026-03-10			Reading day		Reading	
	Wed	2026-03-11	10:00-16:00	U28	Project work			
	Thur	2026-03-12	10:00-12:00	U10	Project seminars		Exam	
	Fri	2026-03-13	09:30-12:30	U28	Exam (combined lab + lecture)		Exam	
	Sat				pack for excursion			
	Sun	2026-03-15			Travel to Italy (Milano Malpensa)		Excursion	
v 12	Mon	2026-03-16			Ivrea		Excursion	
	Tue	2026-03-17			Ivrea		Excursion	
	Wed	2026-03-18			Aosta valley		Excursion	
	Thur	2026-03-19			Aosta valley		Excursion	
	Fri	2026-03-20			Aosta valley		Excursion	
	Sat	2026-03-21			Return to Stockholm from Milano (MXP)		Excursion	

Course literature

An Introduction to igneous and metamorphic petrology. J.D. Winter . Prentice Hall.

