

Module B

Core Courses for the Specialization Pure & Applied Quaternary Sciences (PAQS)

1:21:10 Uhr Montag, 20. April 2026

(will be updated continuously)

sorted by semester and frequency Courses title (32 courses)

Courses	all semesters or unassigned	ECTS	Lecturers	Uni (held in)	Frequency	Year	Sem.	Speciality
Electron Microprobe Analysis - EMPA: Practical course (prer)		1	FPI	BE	annually in fall and spring			ELE, EM, ERG, GEOL, PAQS
Electron microbeam techniques (laboratory)		1	ES/CN	FR	on request			ELE, EM, ERG, GEOL, PAQS
Scanning Electron Microscopy (SEM): Practical course. (Bern) on request (prer)		1	AB	BE	on request			ELE, EM, ERG, GEOL, PAQS

Courses	Fall Semester HS	ECTS	Lecturers	Uni (held in)	Frequency	Year	Sem.	Speciality
Alpine Cryosphere		3	FRHöl	FR	annually in fall		HS	GEOL, PAQS
Digging Deeper: Minerals, Metals, and the Making of Tomorrow		3	MAN	BE	annually in fall		HS	ELE, EM, ERG, GEOL, PAQS
Geo-Information Systems. Lecture and practical		3	/MaiD	BE	annually in fall		HS	GEOL, PAQS
Hazards, risks and vulnerability		3	FRDel	FR	annually in fall		HS	GEOL, PAQS
Glacial Geology Field Course		3	NA	BE	biennially in fall	even	HS	GEOL, PAQS
Marine Geology		3	AF/ES/AR	FR	biennially in fall	even	HS	ELE, GEOL, PAQS
Natural Hazards: Process & Methods		3	MKe/FA	BE	biennially in fall	even	HS	GEOL, PAQS
Rock Deformation: Brittle regime (prer)		1	MH/GS/JM	BE	biennially in fall	even	HS	EM, ERG, GEOL, PAQS
Paleontology of Mammals		3	WJ/OMa	FR	biennially in fall	odd	HS	ELE, PAQS
Quaternary Paleoclimate and Paleoenvironment		2	HV	BE	biennially in fall	odd	HS	ELE, PAQS
Sedimentology of Glaciofluvial Deposits		1.5	NA	BE	biennially in fall	odd	HS	GEOL, PAQS

Courses	Spring Semester FS	ECTS	Lecturers	Uni (held in)	Frequency	Year	Sem.	Speciality
Applied Geophysical Methods		3	FRHau	FR	annually in spring		FS	GEOL, PAQS
Electron Beam Microanalysis: Theory - EMPA, SEM, CL		2	/AB//FPI	BE	annually in spring		FS	ELE, EM, ERG, GEOL, PAQS
Engineering and Quaternary Geology - Advanced Lab Course		1.5	FA/FNY/SCS	BE	annually in spring		FS	PAQS
Glacial Geology		3	NA	BE	annually in spring		FS	GEOL, PAQS
Interpretation of Seismic Profiles around the world		1.5	ASO	FR	annually in spring		FS	GEOL, PAQS
Interpretation of Seismic Profiles in the Alpine foreland		1.5	ASO	FR	annually in spring		FS	GEOL, PAQS
Modelling of glaciers and permafrost		3	FRHöl	FR	annually in spring		FS	GEOL, PAQS
Mountain Geomorphology		3	FRDel	FR	annually in spring		FS	GEOL, PAQS
Using small drones for geoscientific applications		1	MaiD	BE	annually in spring		FS	ELE, EM, ERG, GEOL, PAQS
Environmental- and Limnogeology (incl. field course)		3	FA, HV	BE	biennially in spring	even	FS	PAQS
Field Logging of Tunnels and Boreholes		2.5	UM/MM/MH	BE	biennially in spring	even	FS	ERG, GEOL, PAQS
From Waste to Resources - and the Challenges in between (Excursion)		1	GW/DVH/miw	BE/FR	biennially in spring	even	FS	EM, ERG, PAQS
Geotopes and Geoparks – The Geopark Vulkan-Eifel as an example		2	MJ/TBu	BE	biennially in spring	even	FS	ELE, EM, ERG, GEOL, PAQS
Surface Processes, Geomorphology (prer)		3	FS	BE	biennially in spring	even	FS	GEOL, PAQS
Applied Sedimentology		3	AF/AFa/FS	FR	biennially in spring	odd	FS	GEOL, PAQS
Geostatistics		2	GK	BE	biennially in spring	odd	FS	ELE, EM, ERG, GEOL, PAQS
Soil Mechanics		3	MS	BE/B'do	biennially in spring	odd	FS	PAQS
Unconsolidated Quaternary Sediments in Drillholes and Outcrops (incl. 1d field c.)		3	FA	BE	biennially in spring	odd	FS	PAQS

red courses: new or changed courses
 ,prer": Prerequisite courses necessary

73.5
 Total ECTS