

Semester 1 at Ruhr-Universität Bochum						
#	Module	CP	weekly hours (SWS)	Term (WS or SoSe)	Comments	mandatory or optional
	Groundwater hydraulics	12		1		
177304	Introduction to groundwater hydraulics		4	WS	Both courses have to be attended, mandatory attendance in "Hydraulic groundwater modelling"; both courses are examined in one module exam	<i>mandatory</i>
177310	Hydraulic groundwater modelling		4	WS		<i>mandatory</i>
	Single courses					
177303	Inorganic hydrochemistry	6	4	WS		<i>mandatory</i>
177396	Shallow geothermal energy	3	2	end of WS	Block course in February (3 full days, mandatory attendance)	<i>mandatory</i>
177457	Mineralization in geothermal systems	7	4	WS		<i>mandatory</i>
	Excursion Geothermics	2		WS		<i>mandatory</i>
	Language course	2		WS		<i>mandatory</i>
177322	Organic hydrochemistry	6	4	WS		optional
177807	Structural Geology	3	2	WS		optional
177368	Hydrochemical modelling	6	4	WS		optional
139080	Geothermal drilling engineering and subsurface technologies	5	4	WS	offered at the IEG; sign-up not via e-Campus but via the examination office Civil Engineering or in person.	optional
	Hydrogeochemical methods I	6				Only electable as full module; optional
177309	Isotope hydrogeochemistry lecture		2	WS		
177309	Isotope hydrogeochemistry exercise		2	WS		

Semester 2 at UNSJ						
Semester 3 at Ruhr-Universität Bochum						
#	Module	CP	weekly hours (SWS)	Term (WS or SoSe)	Comments	mandatory or optional
	Single courses					
	Language course	2		WS		<i>mandatory</i>
177807	Structural Geology	3	2	WS		optional
177322	Organic hydrochemistry	6	4	WS		optional
139080	Geothermal drilling engineering and subsurface technologies	5	4	WS	offered at the IEG; sign-up not via e-Campus but via the examination office Civil Engineering or in person. Mandatory attendance	optional
	Hydrogeochemical methods I	6				Only electable as full module; optional
177309	Isotope hydrogeochemistry lecture		2	WS		
177309	Isotope hydrogeochemistry exercise		2	WS		
	Hydrogeochemical methods II	9				optional
177323	Environmental forensics and tracer development		2	WS		
177368	Hydrogeochemical modelling		4	WS		
	Environmental sciences	6				optional
177311	Toxic trace elements in groundwater		2	WS		
177399	Climate change and water resources		2	WS		3 day block course in February or March

#	Module	CP	weekly hours (SWS)	Term (WS or SoSe)	Comments	mandatory or optional
	Geological engineering for subsurface energy systems	10				Only electable as full module; optional
	Reservoir geomechanics		2	Ws		
	Simulation of geological systems		1	WS		
	Subsurface energy utilization project		1	WS		
	Semester 4: RUB or UNSJ: MSc thesis					