Suggested learning paths Specialisation C - Biology and Chemistry of Soil and Water

Aquatic Ecology and Water Quality (thesis at AEW)

<table>
<tr><th></th><th>Period 1</th><th>Period 2</th><th>Period 3</th><th>Period 4</th><th>Period 5</th><th>Period 6</th><th></th></tr>
<tr><td rowspan="2">MO</td><td rowspan="2">YWU-30306
Interdisciplinary Topics in Earth and Environment</td><td rowspan="2">AEW-30306
Complexity in Ecological Systems
OR
SOC-36306
Biogeochemical Cycles and Climate Change Mitigation</td><td rowspan="2">FEM-31806
Models for Ecological Systems</td><td rowspan="2">AEW-31306
Water Quality

OR (if already done in BSc)

SOC-34806
Applications in Soil and Water Chemistry</td><td>TOX-30806
Environmental Toxicology
OR
SBL-35306
The Soil Carbon Dilemma</td><td rowspan="2">AEW-40306
Trending Topics in Biology and Chemistry of Soil and Water</td><td rowspan="2">AEW-20706
Practical Aquatic Ecology and Water Quality

OR (if already done in BSc)

PEN-30306
Plant, Vegetation and Systems Ecology</td></tr>
<tr><td>AF</td><td>YWU-30806
Environmental Data Collection and Analysis</td><td>SLM-32806
Quantitative Ecohydrology</td><td>AEW-30806
Chemical Stress Ecology and Ecotoxicology</td></tr>
</table>

Compulsory course
Compulsory specialization course
Specialization courses (at least 2 required)
Recommended free choice course

Terrestrial Ecosystems Ecology (thesis at PEN)

	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	
MO	YWU-30306 Interdisciplinary Topics in Earth and Environment	AEW-30306 Complexity in Ecological Systems	FEM-31806 Models for Ecological Systems	PEN-30806 Restoration Ecology	SBL-35306 The Soil Carbon Dilemma	AEW-40306 Trending Topics in Biology and Chemistry of Soil and Water	PEN-30306 Plant, Vegetation and Systems Ecology
AF	YWU-30806 Environmental Data Collection and Analysis	SLM-32806 Quantitative Ecohydrology **OR** SBL-32806 Biological Interactions in Soils			Free Choice		

Soil Biology (thesis at SBL)

	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	
MO	YWU-30306 Interdisciplinary Topics in Earth and Environment	PPS-31806 Functional Agricultural Resource Management	SOC-33806 Environmental Analytical Techniques	SBL-51306 The Living Soil	SBL-35306 The Soil Carbon Dilemma	AEW-40306 Trending Topics in Biology and Chemistry of Soil and Water	FTE-50806 Conservation Agriculture
AF	YWU-30806 Environmental Data Collection and Analysis	SBL-32806 Biological Interactions in Soils			SBL-40306 Nutrients in a Circular Agriculture		

Subpath: Soil Chemistry - Soil Fertility (thesis at SOC)

	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	
MO	YWU-30306 Interdisciplinary Topics in Earth and Environment	SOC-36306 Biogeochemical Cycles and Climate Change Mitigation	Free choice	SOC-34806 Applications in Soil and Water Chemistry	SBL-35306 The Soil Carbon Dilemma	AEW-40306 Trending Topics in Biology and Chemistry of Soil and Water	Free choice
AF	YWU-30806 Environmental Data Collection and Analysis	SBL-32806 Biological Interactions in Soils			Free choice		

Subpath: Soil Chemistry - Environmental geochemistry (thesis at SOC)

	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	
MO	YWU-30306 Interdisciplinary Topics in Earth and Environment	SOC-36306 Biogeochemical Cycles and Climate Change Mitigation	SOC-33806 Environmental Analytical Techniques	SOC-34806 Applications in Soil and Water Chemistry	SBL-35306 The Soil Carbon Dilemma	AEW-40306 Trending Topics in Biology and Chemistry of Soil and Water	Free choice
AF	YWU-30806 Environmental Data Collection and Analysis	Free choice			Free choice		

Subpath: Soil Chemistry - Soil carbon (thesis at SOC)

	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	
MO	YWU-30306 Interdisciplinary Topics in Earth and Environment	SOC-36306 Biogeochemical Cycles and Climate Change Mitigation	Free choice	SOC-34806 Applications in Soil and Water Chemistry	SBL-35306 The Soil Carbon Dilemma	AEW-40306 Trending Topics in Biology and Chemistry of Soil and Water	SOC-40806 Field Training Soil-Vegetation-Atmosphere Interactions
AF	YWU-30806 Environmental Data Collection and Analysis	Free choice			Free choice		

Soil Chemistry

	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6

MO	YWU-30306 Interdisciplinary Topics in Earth and Environment	SOC-36306 Biogeochemical Cycles and Climate Change Mitigation	SOC-33806 Environmental Analytical Techniques	SOC-34806 Applications in Soil and Water Chemistry	SBL-35306 The Soil Carbon Dilemma	AEW-40306 Trending Topics in Biology and Chemistry of Soil and Water	SOC-40806 Field Training Soil-Vegetation-Atmosphere Interactions
AF	YWU-30806 Environmental Data Collection and Analysis	SBL-32806 Biological Interactions in Soils			SBL-40306 Nutrients in a Circular Agriculture		