

<b>Georg-August-Universität Göttingen</b>		6 C 4 WLH
<b>Module M.Geg.18: Earth surface dynamics and associated hazards</b>		
<b>Learning outcome, core skills:</b> The students understand past, present and future landscape dynamics, their natural and human drivers, path-dependent processes and scale-dependent impacts. They know how to identify relevant Earth surface dynamics and associated hazards from the geological, geomorphological, hydrological and ecological configuration of a landscape. The students can apply suitable methods to analyze a landscape through field mapping and (geo-)statistical data analyses. They are able to use theoretical and data-based knowledge to identify path-dependencies and dynamics that act across different spatial and temporal scales. They can develop strategies to inform regional land management and to anticipate and mitigate future environmental and resource crises.		<b>Workload:</b> Attendance time: 56 h Self-study time: 124 h
<b>Course: Earth surface dynamics and challenges in managing associated hazards</b> (Lecture, Seminar)		2 WLH
<b>Course: Practical course Earth surface dynamics</b> (Exercise)		2 WLH
<b>Examination: Presentation (approx. 20 min.) with term paper (15 pages max.) or presentation (approx. 20 min.) with written report (15 pages max.)</b> <b>Examination prerequisites:</b> Presentation (approx. 15 min.) in the practical course		6 C
<b>Examination requirements:</b> The students prove that they understand past, present and future landscape dynamics, their natural and human drivers, path-dependent processes and scale-dependent impacts. They demonstrate that they can identify relevant Earth surface dynamics and associated hazards from the geological, geomorphological, hydrological and ecological configuration of a landscape.  The students show that they are able to use theoretical and data-based knowledge to identify path-dependencies and dynamics that act across different spatial and temporal scales. They prove that they can develop strategies to inform regional land management and to anticipate and mitigate future environmental and resource crises.		
<b>Admission requirements:</b> none	<b>Recommended previous knowledge:</b> none	
<b>Language:</b> English, German	<b>Person responsible for module:</b> Prof. Dr. Elisabeth Dietze	
<b>Course frequency:</b> once a year	<b>Duration:</b> 1-2 semester[s]	
<b>Number of repeat examinations permitted:</b> twice	<b>Recommended semester:</b> from 1	
<b>Maximum number of students:</b> 20		