Conservation Biogeography

Biogeographie und Naturschutz

Bachelor – Summer Term (Sommersemester) The course will be given in English

Module 7, 10 or 11		Conservation Biogeography <i>Biogeographie und Naturschutz</i>		Study Points (SP) 10		
This module seeks to provide an introduction to conservation biogeography and the role of science in the effective safeguarding of the Earth's remaining flora and fauna. Student get acquainted with the scientific basis of nature conservation, including motivations for the conservation of nature, his- tory of biodiversity conservation, threats to biodiversity (e.g., habitat loss and fragmentation, inva- sive species, pollution and climate change), approaches for protecting nature and conservation planning. Course participants will learn critically read, reflect on, and summarize primary literature, as well as train presentation skills. Students will learn computer-based tools to answer questions re- lated to analyzing threats to species and communities and to guide conservation planning.						
Prerequisites: Modules M3 (Statistics) and M6 (GIS) Type SWS Workload (SP) Topics						
Lecture	2	90 hours (3 SP) 25 hours in the class- room, 65 hours prepara- tion, exercises and readings	 Introduction to consel cluding the following tr What makes speci Motivations for cor Systematic conser Protected areas a man dominated lar Population dynami genetics Threats to biodive mentation, overhasive species, tro change, and syner Conservation polic conservation meas 	rvation biogeography, in- opics: es go extinct? nserving biodiversity vation planning and conservation in hu- ndscapes ics and conservation rsity (habitat loss & frag- rvesting, pollution, inva- phic cascades, climate gistic effects) by and implementation of sures		
Seminar	2	<u>150 hours (5 SP)</u> 25 hours in the class- room, 125 hours prepa- ration, exercises and readings	Deepening of lecture to literature, critical think topics' in conservation include: - Setting conservation - deciding where an - reserve design, - species population - trade-offs related to goals and biodiver - quantifying habitato effects.	topics via reading current ing, and debating 'hot a. Practical exercises will on goals d what to protect a modeling, o agricultural production sity, loss and fragmentation		
TEX		30 hours (1 SP) 8 hour excursion, 22 hours preparation, read- ings, report	1 Excursion (e.g., to a protected a	rea outside of Berlin)		
Final exam		<u>30 hours (1 SP)</u>	Exam, 90 min (1 SP) o Project report (5 page acters without append	or s ~ 8.000 - 10.000 char- lices) (1 SP)		
Duration		🛛 1 term	2 terms			

Start 🗌 Wint	er term or	Summer term
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