Georg-August-Universität Göttingen **Module M.Biodiv.480: Nature conservation inventories**	6 C 8 WLH

Learning outcome, core skills: For effective nature conservation the collection of reliable data on state and trend of the occurrence and abundance of animals and plants, on their habitats and on habitats shaping land use systems is indispensable. The planning and implementation of nature conservation measures and the evaluation of their effectiveness depend on the quality of information provided by nature conservation inventories and monitoring. At first the students will practically apply various data collection methods used in conservation practice and evaluate their advantages and disadvantages.The students then learn methods for surveying a selected species group (woodpeckers) and different methods for recording the composition, structure and utilization of Central European forest ecosystems. Students collect themselves data in the field under supervision and process and analyze them with integration of long-term data from a monitoring project. The students develop skills (a) to critically analyze and evaluate data sets and survey methods in nature conservation, (b) to plan and implement goal-oriented data collection in a statistically robust design, (c) to map habitats and species, (d) to manage data in databases and analyze them using statistical methods and geographic information systems and (e) to understand, structure and implement planning processes in conservation and to evaluate the information required.	**Workload:** Attendance time: 112 h Self-study time: 68 h

Course: M.Biodiv.480.VL **Nature Conservation Inventories** (Lecture)	2 WLH
Course: M.Biodiv.480.Ue **Nature Conservation Inventories** (Exercise)	6 WLH
Examination: Minutes / Lab report (max. 20 pages) M.Biodiv.480.Mp: Naturschutzbiologie: Naturschutzinventuren **Examination requirements:** Knowledge of (a) collecting and analyzing data relevant to nature conservation (sampling design, quality assurance, statistics, GIS), (b) data processing for nature conservation planning, (c) monitoring and evaluation of nature conservation measures, (d) nature conservation inventories.	6 C

Admission requirements: none	Recommended previous knowledge: none
Language: German	**Person responsible for module:** Dr. rer. nat. Hermann Hondong
Course frequency: each semester	**Duration:** 1 semester[s]
Number of repeat examinations permitted: twice	**Recommended semester:**
Maximum number of students: 12	