

Georg-August-Universität Göttingen Module M.Biodiv.483: Assessment of wildlife species for nature conservation	6 C 8 WLH
Learning outcome, core skills: Population monitoring of endangered species is an essential component of adaptive conservation management. Therefore, students need to acquire basic theoretical and practical knowledge of population assessment and monitoring of animal populations. Graduates of the course will be able to design, conduct and analyze surveys that allow precise and defensible population estimates. In the module, the theoretical basics for quantitative surveys are taught, and practical experience in designing and conducting wildlife surveys is presented. The understanding of concepts such as strip width, cluster size, encounter rate, detection probability, as well as the influence of these variables on the estimation of population density/abundance and their variance will be taught. In the exercise part, concrete data will be analyzed using the Distance Sampling framework (e.g. Buckland et al. 2001). Line transect data of vertebrates (birds, primates, other large mammals) from tropical habitats (savannah and forest) are made available.	Workload: Attendance time: 112 h Self-study time: 68 h
Course: M.Biodiv.483.VL Theoretical background of population assessment (Lecture)	2 WLH
Course: M.Biodiv.483.Ue Analysis, interpretation and communication of population data (Exercise)	6 WLH
Examination: Minutes / Lab report (max. 20 pages) M.Biodiv.483.Mp: Assessment of wildlife species for nature conservation Examination prerequisites: Oral presentation (ca. 15 minutes) Examination requirements: Basics of adaptive conservation management and knowledge of the realization of wildlife surveys. Basics on survey design and practice-oriented estimation of wildlife populations.	6 C
Admission requirements: none	Recommended previous knowledge: none
Language: English	Person responsible for module: Prof. Dr. rer. nat. Matthias Waltert
Course frequency: each winter semester	Duration: 1 semester[s]
Number of repeat examinations permitted: twice	Recommended semester:
Maximum number of students: 10	