## Georg-August-Universität Göttingen Bachelor-Studiengang Geowissenschaften

## B.Geo.707

"An Introduction to Molecular, Phylogenetic and DNA Barcoding Methods "

Learning objectives, competencies and testing requirements:		Credits/SWS	
With rapid advances in DNA sequencing technologies molecular data is becoming more and more relevant to many fields of modern science. This course will provide students with an introduction to basic molecular procedures including genomic DNA extraction, PCR amplification and purification, DNA sequencing and sequence analysis with a variety of bioinformatic tools.  As an exercise we will collect a variety of invertebrates from local Göttingen habitats, and we will sequence a so called "DNA barcode"gene from each of these. In theorey this barcode has the potential to uniquely identify every species on the planet. In this course we will test that theorey.		insgesamt 3/2	
Students should have a basic understanding molecular experience is not necessary. The English, so students should have the ability write in English.			
Lehrveranstaltungen und Prüfungen		Credits/SWS	
V/Ü An Introduction to Molecular, Phylogenetic and DNA Barcoding Methods ' Jackson, D.J.		Einzeln 3/2	
Modulprüfung: Course participation (60%), poster presentation (40%).			
Wahlmöglichkeiten		Zugangsvoraussetzungen	
Wahl Wiederholbarkeit zweimalig	Keine (none)  Verwendbarkeit  Bachelor-und Master-Studiengang Geowissenschaften, Geowissenschaften als Nebenfach, Promotionsstudierende		
Angebotshäufigkeit Semesterlage Sommersemester	Dauer 1 Semester		
Sprache Englisch (english)	Maximale Studierendenzahl 10		
Modulverantwortliche/r (Stellvertreter/in) Jackson, D.J.			