

Georg-August-Universität Göttingen Bachelor-Studiengang Geowissenschaften B.Geo.704 „An Introduction to Geomicrobiology“	
Learning objectives, competencies and testing requirements: (Lernziele und Kompetenzen) Microbes have played an extremely important role in shaping Earth's history. They can dramatically alter the geochemistry of habitats, and control many important geological processes such as rock weathering and mineral precipitation. This interdisciplinary course will provide students with a comprehensive background to the current theory and basic experimental techniques in Geomicrobiology. It will cover relevant aspects of geology, microbial ecology, biogeochemistry, and molecular biology. The course will include a laboratory-based component which will introduce students to techniques such as DNA cloning, Fluorescence in situ Hybridization (FISH) and microscopy. Students will work in groups of 2-3 on laboratory exercises and present a final report. Integrative key competencies: teamwork; good scientific practice; safety in the lab, learning lab protocols. <i>Note: Students should have a basic understanding of biology, geology and microbiology. The course will be held in English, so students should have the ability to understand, read and write in English.</i>	Credits/SWS insgesamt 6/4 Anteil Schlüsselkompetenzen: 1/1
Lehrveranstaltungen und Prüfungen 1. V 'An Introduction to Geomicrobiology' Dattagupta, S. 2. Ü 'Experimental Techniques in Geomicrobiology' Dattagupta, S. Modulprüfung: zu 1. Klausur, 90 Min, 60% (written exam, 90 min, 60% of total grade) zu 2: Protokoll, max. 10 S., 40% (protocol, max. 10 pages; 40% of total grade)	Credits/SWS Einzel 3/2 3/2
Wahlmöglichkeiten Wahl (elective)	Zugangsvoraussetzungen Keine (none)
Wiederholbarkeit Zweimal (twice)	Verwendbarkeit Bachelor-Studiengang Geowissenschaften Master-Studiengang Geowissenschaften
Angebotshäufigkeit Semesterlage Jedes Wintersemester (every winter semester)	Dauer 1 Semester
Sprache Englisch (english)	Maximale Studierendenzahl 10
Modulverantwortliche/r (Stellvertreter/in) Dattagupta, S.	