Georg-August-Universität Göttingen **Module M.WIWI-VWL.0183: Geospatial Analysis for Development Economics**	6 C 2 WLH

Learning outcome, core skills: The goal of the course is twofold (i) to expose students to a large and relatively new literature in economics that uses geospatial data in innovative ways, and (ii) to provide students with the methodological skills needed to critically assess these papers. The participants will learn to “think spatially” and come up with their own original research questions utilizing spatial methods.	**Workload:** Attendance time: 28 h Self-study time: 152 h

Course: Geospatial Analysis for Development Economics (Seminar) *Contents*: This course provides an overview of how space is used in empirical economics with a particular focus on development economics. It introduces the basic tools that are employed in geospatial research. We will cover geographic projections, geospatial data types, vector and raster data processing, and a selection of more advanced topics. After obtaining the toolkit, we will then learn how these techniques are applied in development economics and beyond by replicating a selection of influential papers.	2 WLH
Examination: Learning journal ! Geospatial Analysis for Development Economics **Examination prerequisites:** Participation in class [at the margin]	6 C

Examination requirements: By writing a take-home exam, students demonstrate a good understanding of the literature in development economics that relies on geospatial data and of the methodological skills needed for such analyses. By a term paper, students demonstrate their ability to replicate a scholarly article in this field and critically discuss it.	

Admission requirements: none	**Recommended previous knowledge:** Students should be familiar with mathematical statistics, basic econometrics, and development economics. Some experience with R would be very helpful. In particular: M.WIWI-QMW.0004 Econometrics I, M.WIWI-QMW.0005 Econometrics II, M.WIWI-VWL.0008 Development Economics I
Language: English	**Person responsible for module:** Prof. Dr. Andreas Fuchs
Course frequency: irregular	**Duration:** 1 semester[s]
Number of repeat examinations permitted: twice	**Recommended semester:** 3 - 4
Maximum number of students:	

20	

Additional notes and regulations:

Explanation Learning Journal: short term paper [50%]; short take-home exam [50%].

This course is recommended for advanced Master students and open to PhD students.