

<b>Georg-August-Universität Göttingen</b> <b>Module M.WIWI-VWL.0113: Macroeconometrics</b>	6 C 4 WLH
<b>Learning outcome, core skills:</b> Upon graduation, students acquire the following skills: <ul style="list-style-type: none"> <li>• estimation and diagnosis of important econometric models in macroeconomics, basic non-linear models, extensions to more complex scenarios,</li> <li>• work with real-world data using the acquired programming skills in MATLAB,</li> <li>• verify the robustness of their results by applying statistical test procedures,</li> <li>• present and discuss the research results.</li> </ul>	<b>Workload:</b> Attendance time: 56 h Self-study time: 124 h
<b>Course:</b> M.WIWI-VWL.0113.Lec <b>Macroeconometrics</b> (Lecture) <i>Contents:</i> <ol style="list-style-type: none"> <li>1. How to forecast key macroeconomic indicators</li> <li>2. Using Bayesian econometrics in macroeconomics</li> <li>3. Modelling structural change</li> <li>4. Measuring the business cycle</li> <li>5. Common factors across countries in macroeconomic variables</li> </ol>	2 WLH
<b>Course:</b> M.WIWI-VWL.0113.Ex <b>Macroeconometrics</b> (Exercise) <i>Contents:</i> <ol style="list-style-type: none"> <li>1. In the accompanying practice sessions students deepen and broaden their knowledge from the lectures.</li> <li>2. Students are introduced to statistical software MATLAB and solve programming exercises.</li> <li>3. Empirical project: writing code to analyze real world data and present the results in class.</li> </ol>	2 WLH
<b>Examination: Project work (max.15 pages) or written examination (90 minutes)</b> M.WIWI-VWL.0113.Mp: Macroeconometrics <b>Examination prerequisites:</b> Up to three submission homework items; length of up to five typewritten pages each (condition for admission to the examination is the achievement of 60% of the total number of attainable points) or group work (30 minutes presentation).	6 C
<b>Examination requirements:</b> <ul style="list-style-type: none"> <li>• Demonstrate a profound knowledge of the core theoretical concepts in macroeconometrics,</li> <li>• differentiate between various econometric models for macroeconomic data,</li> <li>• understand core concepts of state-space modeling,</li> <li>• be able to apply learned models and testing procedures to real world data.</li> </ul>	
<b>Admission requirements:</b> none	<b>Recommended previous knowledge:</b> M.WIWI-QMW.0004 Econometrics I, M.WIWI-QMW.0009 Introduction to Time Series Analysis
<b>Language:</b>	<b>Person responsible for module:</b>

English	Prof. Dr. Tino Berger
<b>Course frequency:</b> each summer semester	<b>Duration:</b> 1 semester[s]
<b>Number of repeat examinations permitted:</b> twice	<b>Recommended semester:</b> 3 - 4
<b>Maximum number of students:</b> not limited	