Georg-August-Universität Göttingen	6 C
Module M.WIWI-WIN.0001: Modeling and System Development	2 WLH
<ul> <li>Learning outcome, core skills:</li> <li>Upon successful completion, students are able to: <ul> <li>describe and explain the principles and elements of modeling techniques and design possibilities of systems,</li> <li>apply selected methods for modeling systems independently,</li> <li>select an appropriate method for modeling a task and delineate versus the benefits of other methods,</li> <li>outline the development of systems in the business environment and to evaluate and to transfer this to related situations,</li> <li>analyze and reflect critically selected current trends in the field of system development in group work and</li> <li>work in groups on tasks with the help of acquired communication and organizational skills.</li> </ul> </li> </ul>	Workload: Attendance time: 28 h Self-study time: 152 h
Course: M.WIWI-WIN.0001.Lec Modeling and System Development (Lecture) Contents: Basics of systems, models and Software development System survey (information retrieval and areas of analysis) Process-oriented analysis and process modeling Object-oriented analysis and process modeling Design of systems Implementation of systems Integration of systems Quality management in system development Configuration management and change management Cost estimate of system developments	2 WLH
Examination: Written examination (120 minutes) M.WIWI-WIN.0001.Mp: Modeling and System Development Examination prerequisites: Two successfully passed case studies (max. 12 pages each).	6 C
<ul> <li>Examination requirements:</li> <li>Students show in the exam that they</li> <li>can explain, evaluate and apply theories and concepts for modeling processes, application systems and software, evaluate and apply,</li> <li>can explain and assess what they learned in the lectures regarding aspects of system development ,</li> <li>can analyze complex problems in system development in a short time and can identify both challenges and solutions,</li> <li>are able to transfer the approaches teached in the lectures to similar problems.</li> </ul>	

Admission requirements:

Recommended previous knowledge:

none	none
<b>Language:</b>	Person responsible for module:
English	Prof. Dr. Matthias Schumann
Course frequency:	Duration:
each winter semester	1 semester[s]
Number of repeat examinations permitted:	Recommended semester:
twice	1 - 3
Maximum number of students: not limited	