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Georg-August-Universität, Göttingen Doctoral degree course "Mathematical Sciences" P.Mat.7101: Scientific colloquia and courses	
Learning objectives a) scientific contribution in a research area b) Review of scientific talks at mathematical conferences Competencies a. Fundamental ability to engage in scientific appraisal and discourse within the framework of academic events of research-based relevance to the candidate's own research area b. Presentation of research results to a specialist audience	Scope of the module 3 C / 2 WLH Workload in hours: 90 Attendance in hours: 28 Self study in hours: 62
Courses and examinations Advance graduate seminar Performance record prerequisites: – Student lecture (approx. 75 minutes) and discussion	WLH individual 2 WLH
Options Compulsory module	Qualifications for entry None
Reassessment Twice	Applicability Doctoral degree course "Mathematical Sciences"
Frequency of course Each semester	Duration The module can be completed in one semester
Language English or German	Maximum number of students None
Module coordinator Dean of Studies for Mathematics	

Georg-August-Universität, Göttingen Doctoral degree course "Mathematical Sciences" P.Mat.7102: Research activities at mathematical conferences	
Learning objectives a) Participation in external scientific conferences in the research area b) Review of scientific lectures at mathematical conferences c) Preparation of a specialist lecture to present own results at a conference outside of Göttingen Competencies a) Acquisition of more advance skills in scientific appraisal and discourse within the framework of academic events of research-based relevance to the candidate's own research area b) Presentation of own research results to a specialist audience	Scope of the module 3 C / 4 WLH Workload in hours: 90 Attendance in hours: 28 Conference in hours: 28 Self study in hours: 36
Courses and examinations a) Advance graduate seminar b) External block course (conference) Performance record prerequisites: – Student lecture (approx. 60 minutes) and discussion	WLH individual a) 2 WLH b) 2 WLH
Options Compulsory module	Qualifications for entry None
Reassessment Twice	Applicability Doctoral degree course "Mathematical Sciences"
Frequency of course Each semester	Duration The module can be completed in one semester
Language English or German	Maximum number of students None
Module coordinator Dean of Studies for Mathematics	

Georg-August-Universität, Göttingen Doctoral degree course "Mathematical Sciences" P.Mat.7201: Advanced studies in the research area	
Learning objectives a) Acquisition of advanced mathematical contents in the area of specialisation b) Knowledge of the systematic structure of a research area with direct relevance to the dissertation topic Competencies a) Command of the methodologies typically applied in the research areas in the order to solve problems in the research area b) Ability to design solution strategies and to present solutions in problems typical of the research area	Scope of the module 6 C / 6 WLH Workload in hours: 180 Attendance in hours: 56 Exercises in hours: 28 Self study in hours: 96
Courses and examinations <ul style="list-style-type: none"> - Lecture - Exercises Performance record prerequisites: <ul style="list-style-type: none"> - Oral examination (approx. 20 minutes) 	WLH individual <ul style="list-style-type: none"> - 4 WLH - 2 WLH
Options Compulsory module	Qualifications for entry None
Reassessment Twice	Applicability Doctoral degree course "Mathematical Sciences"
Frequency of course Each semester	Duration The module can be completed in one semester
Language English or German	Maximum number of students None
Module coordinator Dean of Studies for Mathematics	

Georg-August-Universität, Göttingen Doctoral degree course "Mathematical Sciences" P.Mat.7202: Advanced studies in the research area	
Learning objectives a) Acquisition of advanced mathematical contents in the area of specialisation b) Knowledge of the systematic structure of a research area with direct relevance to the dissertation topic Competencies – Command of essential methodologies in the area of specialisation – Ability to classify results in own research area within a broader context	Scope of the module 3 C / 4 WLH Workload in hours: 90 Attendance in hours: 28 Exercises in hours: 28 Self study in hours: 34
Courses and examinations – Lecture – Exercises, alternatively course Performance record prerequisites: – Oral examination (approx. 20 minutes)	WLH individual – 2 WLH – 2 WLH
Options Compulsory module	Qualifications for entry None
Reassessment Twice	Applicability Doctoral degree course "Mathematical Sciences"
Frequency of course Each semester	Duration The module can be completed in one semester
Language English or German	Maximum number of students None
Module coordinator Dean of Studies for Mathematics	

Georg-August-Universität, Göttingen Doctoral degree course "Mathematical Sciences" P.Mat.7203: Extended studies in addition to the research area	
Learning objectives a) Expansion on mathematical skills in the area of specialisation b) Expansion on knowledge of the systematic structure of a research area with direct relevance to the dissertation topic Competencies – Command of an expanded methodical repertoire in the area of specialisation – Ability to classify results in own research area within a broader context	Scope of the module 3 C / 4 WLH Workload in hours: 90 Attendance in hours: 28 Exercises in hours: 28 Self study in hours: 34
Courses and examinations – Lecture – Exercises, alternatively course Performance record prerequisites: – Oral examination (approx. 20 minutes)	WLH individual – 2 WLH – 2 WLH
Options Compulsory module	Qualifications for entry None
Reassessment Twice	Applicability Doctoral degree course "Mathematical Sciences"
Frequency of course Each semester	Duration The module can be completed in one semester
Language English or German	Maximum number of students None
Module coordinator Dean of Studies for Mathematics	

Georg-August-Universität, Göttingen Doctoral degree course "Mathematical Sciences" P.Mat.7301: Accompanying course for familiarisation with a research area			
Learning objectives <ul style="list-style-type: none"> - Acquisition of summarised knowledge of essential literature within an active research area Competencies <ul style="list-style-type: none"> - Advanced methodical competency for the treatment of current research results - The ability to produce current research results on the basis of critical study of recent specialist literature 	Scope of the module 3 C / 2 WLH Workload in hours: 90 Attendance in hours: 28 Self study in hours: 62		
Courses and examinations <table border="1" style="width: 100%;"> <tr> <td style="padding: 5px;"> <ul style="list-style-type: none"> - Course (2 WLH) </td> </tr> <tr> <td style="padding: 5px;"> Performance record prerequisites: <ul style="list-style-type: none"> - Lecture (about 60 minutes) and discussion </td> </tr> </table>	<ul style="list-style-type: none"> - Course (2 WLH) 	Performance record prerequisites: <ul style="list-style-type: none"> - Lecture (about 60 minutes) and discussion 	WLH individual <ul style="list-style-type: none"> - 2 WLH
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Options Compulsory module	Qualifications for entry None		
Reassessment Twice	Applicability Doctoral degree course "Mathematical Sciences"		
Frequency of course Each semester	Duration The module can be completed in one semester		
Language English or German	Maximum number of students None		
Module coordinator Dean of Studies for Mathematics			

Georg-August-Universität, Göttingen Doctoral degree course "Mathematical Sciences" P.Mat.7302: Accompanying course on the scientific processing mathematical questions			
Learning objectives <ul style="list-style-type: none"> - Expansion of the methodical repertoire for solution strategies to process mathematical problems Competencies <ul style="list-style-type: none"> - The ability to formulate mathematical problems and describe adequate solution strategies - The ability to communicate ideas for solutions and difficulties 	Scope of the module 3 C / 2 WLH Workload in hours: 90 Attendance in hours: 28 Self study in hours: 62		
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Reassessment Twice	Applicability Doctoral degree course "Mathematical Sciences"		
Frequency of course Each semester	Duration The module can be completed in one semester		
Language English or German	Maximum number of students None		
Module coordinator Dean of Studies for Mathematics			

Georg-August-Universität, Göttingen Doctoral degree course "Mathematical Sciences" P.Mat.7303: Accompanying course on the documentation of mathematical questions				
Learning objectives <ul style="list-style-type: none"> - Development of a personal writing style for scientific work, oriented towards the appropriate standards of adequate scientific work and the format designed for specialised mathematical sciences Competencies <ul style="list-style-type: none"> - The ability to formulate mathematical problems and describe corresponding solution strategies - The ability to document the results of mathematical research - Knowledge of the rules of good scientific practice 	Scope of the module 3 C / 2 WLH Workload in hours: 90 Attendance in hours: 28 Self study in hours: 62			
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Options Compulsory module	Qualifications for entry None			
Reassessment Twice	Applicability Doctoral degree course "Mathematical Sciences"			
Frequency of course Each semester	Duration The module can be completed in one semester			
Language English or German	Maximum number of students None			
Module coordinator Dean of Studies for Mathematics				

Georg-August-Universität, Göttingen Doctoral degree course "Mathematical Sciences" P.Mat.7901: Key qualification for university teaching				
Learning objectives <ul style="list-style-type: none"> a) The ability to communicate mathematical contents to first-semester students and to lead a heterogeneous study group b) Competent deployment of various teaching methods and visualisation technologies c) Confident manner Competencies <ul style="list-style-type: none"> — Rhetorical and presentation skills — Teamwork skills (in particular the ability to motivate and a sure hand in dealing with conflict situations) — Time management — Intercultural communication if necessary 	Scope of the module 3 C / 2 WLH Workload in hours: 90 Attendance in hours: 28 Self study in hours: 62			
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Reassessment Twice	Applicability Doctoral degree course "Mathematical Sciences"			
Frequency of course Each semester	Duration The module can be completed in one semester			
Language English or German	Maximum number of students None			
Module coordinator Dean of Studies for Mathematics				