

# Course list summer term „Go Explore – Study abroad in Göttingen”

## Compulsory modules

**At least 9 credits of mandatory courses must be successfully completed in accordance with the following provisions.**

**a) The following mandatory course must be completed with a total of 3 credits:**

SK.AS.DK-09-EN.Mp:      Germany's Ethnic and Cultural Diversity      3 Credits

**b) One of the following mandatory courses must be completed with a total of 6 credits:**

SK.DaF.A1.1-4Std:	Deutsch - Sprachkurs A1.1	6 Credits
SK.DaF.A1.2-4Std:	Deutsch - Sprachkurs A1.2	6 Credits
SK.DaF.A2.1-4Std:	Deutsch - Sprachkurs A2.1	6 Credits
SK.DaF.A2.2-4Std:	Deutsch - Sprachkurs A2.2	6 Credits
SK.DaF.B1-1-4Std:	Deutsch - Sprachkurs B1.1	6 Credits
SK.DaF.B1-2-4Std:	Deutsch - Sprachkurs B1.2	6 Credits
SK.DaF.B1-4Std:	Deutsch - Sprachkurs B1	6 Credits
SK.DaF.B2-1-4Std:	Deutsch - Sprachkurs B2.1	6 Credits
SK.DaF.B2-2-4Std:	Deutsch - Sprachkurs B2.2	6 Credits
SK.DaF.B2-4Std:	Deutsch - Sprachkurs B2	6 Credits
SK.DaF.C1-1-4Std:	Deutsch - Sprachkurs C1.1	6 Credits
SK.DaF.C1-2-4Std:	Deutsch - Sprachkurs C1.2	6 Credits
SK.DaF.C1-4Std:	Deutsch - Sprachkurs C1	6 Credits

## Elective modules

Go Explore students are permitted to choose one or more modules from the following list. Please note that the total number of credits should not exceed approximately 30 credits per semester. This corresponds to a workload that students can generally manage well. Go Explore students are also allowed to choose other courses that are not listed here. In such cases, the selection of modules must be discussed with the Go Explore coordinator ([goexplore@uni-goettingen.de](mailto:goexplore@uni-goettingen.de)).

### **Summer semester - Undergraduate modules**

B.Agr.0320	Introduction to Tropical and International Agriculture	6 Credits
B.Agr.0430	Food Systems and Healthy Diets	6 Credits
B.Inf.1236	Machine Learning	6 Credits
B.Inf.1240	Visualization	6 Credits
B.Inf.1242	Streaming Algorithms	5 Credits
B.Inf.1244	Data Management for Data Science	5 Credits
B.Inf.1709*	Advanced Algorithms and Data Structures	5 Credits
B.Inf.1711*	Advanced Sensor Data Processing	5 Credits
B.Mat.0922	Mathematics information services and electronic publishing	3 Credits
B.Mat.3044	Life insurance mathematics	6 Credits

B.Phi.18a*	Detailed Philosophical Studies	6 Credits
B.Phi.19a*	Special Philosophical Topics	3 Credits
B.Phy.1512	Particle physics II - of and with quarks	6 Credits
B.Phy.1609	Foundations of the Unity of Human and Nature	4 Credits
B.Phy.5403*	Fluctuation theorems, stochastic thermodynamics and molecular machines	3 Credits
B.Phy.5404*	Introduction to Statistical Machine Learning	3 Credits
B.Phy.5406*	Physics with fluctuating paths: stochastic and trajectory thermodynamics	3 Credits
B.Phy.5411*	Magnetohydrodynamics	3 Credits
B.Phy.5513*	Numerical fluid dynamics	6 Credits
B.Phy.5538	Stellar Atmospheres	6 Credits
B.Phy.5602	Theoretical and Computational Neuroscience II	3 Credits
B.Phy.5607	Seminar: Mechanics and dynamics of the cytoskeleton	4 Credits
B.Phy.5608****	Micro- and Nanofluidics	3 Credits
B.Phy.5613****	Soft Matter Physics	3 Credits
B.Phy.5624	Introduction to Theoretical Neuroscience	4 Credits
B.Phy.5631	Self-organization in physics and biology	4 Credits
B.Phy.5632	Current topics in turbulence research	4 Credits
B.Phy.5649	Biomolecular Physics and Simulations	4 Credits
B.Phy.5656	Experimental work at large scale facilities for X-ray photons	3 Credits
B.Phy.5658****	Statistical Biophysics	6 Credits
B.Phy.5659****	Seminar on current topics in theoretical biophysics	4 Credits
B.Phy.5665	Processing of Signals and Measured Data	3 Credits
B.Phy.5671*	Dynamics of living systems	3 Credits
B.Phy.5673	Cell Mechanics	6 Credits
B.Phy.5675	Machine Learning, hands-on	4 Credits
B.Phy.5677*	Seminar on Advanced Topics in Cellular Biophysics	4 Credits
B.Phy.5678*	Seminar on Advanced Methods in Biophysics	4 Credits
B.Phy.5682	Seminar: Special Topics in Cell Mechanics	4 Credits
B.Phy.5717****	Mechanisms and Materials for Renewable Energy	6 Credits
B.Phy.5718****	Mechanisms and Materials for Renewable Energy: Photovoltaics	4 Credits
B.Phy.5718****	Mechanisms and Materials for Renewable Energy: Solar heat, Thermoelectric, solar fuel	4 Credits
B.Phy.5723	Hands-on course on Density-Functional calculations 1	3 Credits
B.Phy.5724	Hands-on course on Density-Functional calculations 1 + 2	6 Credits
B.Phy.5725****	Renormalization group theory and applications	6 Credits
B.Phy.5807****	Physics of particle accelerators	3 Credits
B.Phy.5810****	Physics of the Higgs boson	3 Credits
B.Phy.5811*	Statistical methods in data analysis	3 Credits
B.Phy.5812****	Physics of the top-quark	3 Credits
B.Phy.5815	Seminar on Introductory Topics in Particle Physics	4 Credits
B.Phy.5901****	Advanced Computer Simulation	6 Credits
B.SPL.929*	Introduction to Content and Language Integrated Learning	4 Credits
B.SPL.932*	Teaching Natural Science Subjects	3 Credits or 6 Credits
B.WIWI-BWL.0089	Corporate Financial Management	6 Credits
B.WIWI-VWL.0009*	Labor Economics	6 Credits

B.WIWI-VWL.0069*	Urban Economics	6 Credits
B.WIWI-VWL.0070*	International Economic Policy	6 Credits
B.WIWI-VWL.0074*	Indian Economic Development	6 Credits
B.WIWI-VWL.0084	Introduction to Global Health	6 Credits
B.WIWI-VWL.0088*	Empirical Macroeconomics	6 Credits
B.WIWI-VWL.0091*	Introduction to Gender and Development	6 Credits
B.WIWI-VWL.0095	Topics in Empirical Macroeconomics	6 Credits
B.WIWI-VWL.0103*	Topics of Long-Run Development	6 Credits
B.WIWI-VWL.0104*	Topics of Global Health	6 Credits
B.WIWI-VWL.0105*	Topics of Poverty and Inequality	6 Credits
B.WIWI-VWL.0108	Current Topics in International Trade	6 Credits
B.WIWI-VWL.0109*	Introduction to Natural Language Processing in Macroeconomics	6 Credits
B.WIWI-QMW.0014	International Development Finance: Applied Research Using Stata	6 Credits
S.RW.1175	Sports and Competition Law	6 Credits
S.RW.1218	Public International Law II (International Organizations)	6 Credits
S.RW.1326	Cases and Developments in International Criminal Law	6 Credits
SK.Bio-NF.7001	Neurobiology	3 Credits
SK.Bio.7002	Basic virology	3 Credits
SK.Bio.7008	Molecular biology of HIV replication and pathogenesis	2 Credits
SK.IKG-ISZ.02	From Reading to Writing Academic Texts for Undergraduate Students	4 Credits
SK.IKG-ISZ.07	Preparing for and Writing Exams	3 Credits
SK.IKG-ISZ.13	Academic Writing Partnerships	4 Credits
SK.IKG-ISZ.19	Writing Proposals	3 Credits
SK.IKG-ISZ.40	Academic Writing and Academic Practice in Multilingual Contexts in the Humanities and the Social Sciences	6 Credits
SK.IKG-ISZ.45	Academic Writing for Law Students in a Multilingual Context (MultiConText)	3 Credits
SK.IKG-ISZ.48	Academic Writing and Presentation in the Natural Sciences: German, English, Multilingual	6 Credits
SK.IKG-ISZ.63	Autoethnographic Writing	6 Credits

\* The events are offered on an irregular basis, either in the winter or the summer semester. They are, however, always held during the regular lecture period.

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\*\*\*\*The module is only offered every 4th semester

<sup>w</sup> The module is held in Witzenhausen (near Göttingen).