

Section: Biodiversity, Ecology and Nature Conservation

Consecutive Master's programme

Biodiversity, Ecology and Evolution BEE / DD-IMABEE

Info-Session 13.09.2023

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www.uni-goettingen.de/de/123968.html



Zentrum für Biodiversität und Nachhaltige Landnutzung

Über das CBL

Das Zentrum bündelt die am Standort Göttingen vorhandenen Kompetenzen auf dem Gebiet der Biodiversität und der Nachhaltigkeitsforschung. Forschende und Lehrende der Lebens- und Gesellschaftswissenschaften widmen sich dem weltweit ungelösten Problem, wie Bevölkerungswachstum, nachhaltiges Ressourcenmanagement und Biodiversität in Einklang zu bringen sind. Das Zentrum verfolgt dabei einen ganzheitlichen Ansatz: die interdisziplinären Projekte in Forschung und Lehre binden nationale und internationale Partner – schwerpunktmäßig aus Entwicklungs- und Schwellenländern – mit ein. So wird von Anfang an der Aufbau von Kompetenzen gefördert und ein tragfähiges weltweites Netzwerk geschaffen, das durch aktive Alumni-Arbeit lebendig gehalten wird. Trägerfakultäten des Zentrums sind die Fakultäten für Agrarwissenschaften, für Biologie und Psychologie und für Forstwissenschaften und Waldökologie.

GREMIEN UND ORDNUNG

Vorstand

Wissenschaftlicher Beirat

Ordnung

BIODIVERSITÄTSFORSCHUNG IN

GÖTTINGEN

Mehr Informationen

AKTUELLES UND MEDIEN

SoilMan-Projekt: EU-biodiversa-policy brief erschienen















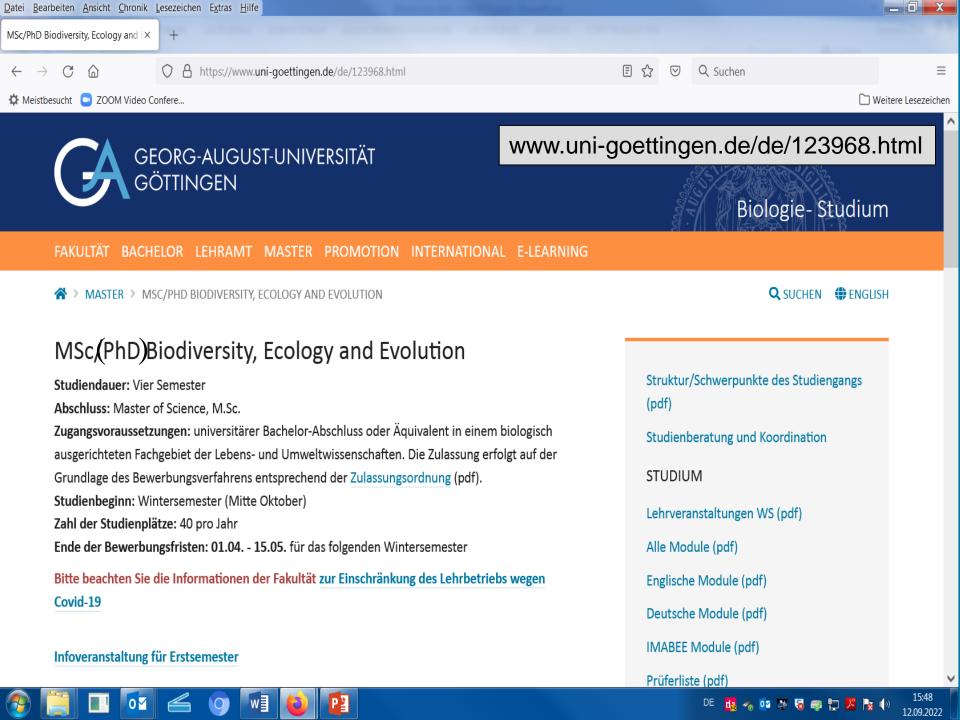










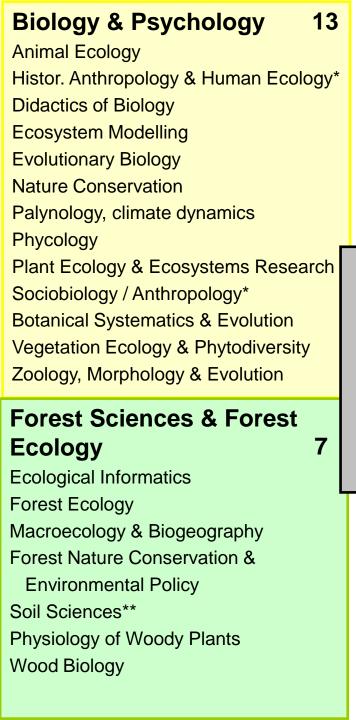




Main Tasks:

Research and Education (BSc, MSc, PhD): interdisciplinary and across faculties

Nearly 30 institutes out of four faculties
 <u>Biology & Psychology</u> (leading), Agricultural Sciences, Forest Sciences & Forest Ecology, Geosciences & Geography



Contributing Faculties + DPZ

Selection of 10 out of 86 modules in total

3

Agricultural Sciences Agricultural Ecology Agricultural Entomology

4

Geosciences & Geography Biogeochemistry Geobiology Landscape Ecology Palaeobiology, Palaeoecology

Biodiversity Economy

German Primate Center Primate Ecology Behavioural & Sociobiology

**expertise in soil science is required

Ecology & Evolution

Research Study Programmes:

MSc & PhD

Biodiversity,

*will end at the end of winter term 23/24

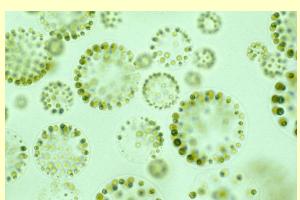


5 main research topics:

1. Disentanglement of Biodiversity

Systematics of Botany and Zoology, Evolution, Phylogeny, Ecology, Palaeobiology, Geobiology...









5 main research topics:

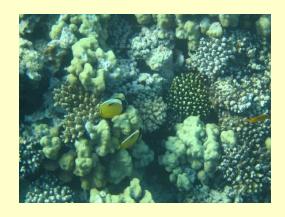
2. Spatial distribution of biodiversity

(e.g. biodiversity "hot spots")

Biogeography, Geobotany, Population Ecology, Ecosystems Research, Landscape Ecology...









5 main research topics:

3. Functions of biodiversity in ecosystems

Plant-, Animal-, Agro-, Forest-, Landscape-Ecology, Ecosystems Research & Modelling...









5 main research topics:

4. Temporal dynamics of biodiversity (life history on earth)

Evolution, Phylogeny, Geobiology, Palynology, Palaeoecology, Environmental history...









5 main research topics:

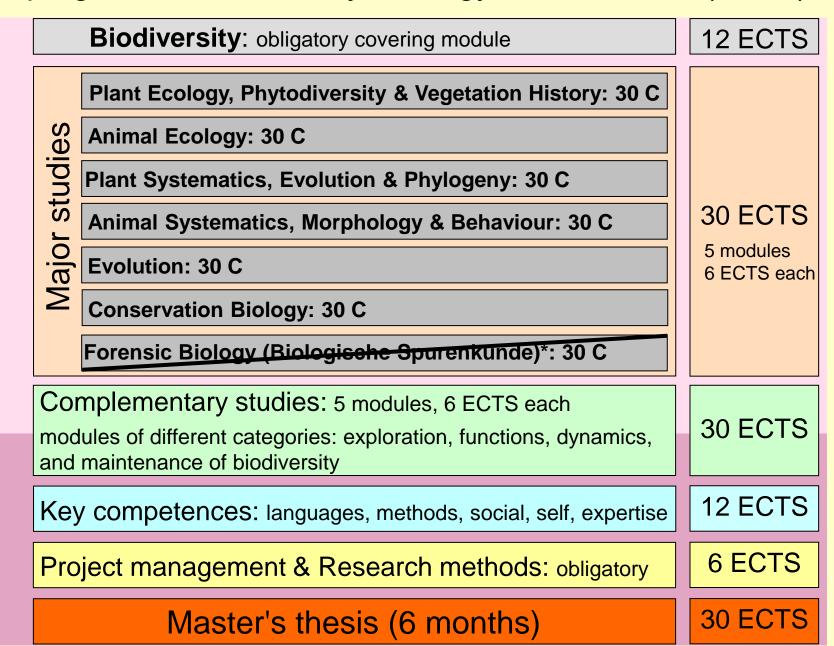
5. Development of strategies for maintenance of biodiversity e.g. sustainable ecosystem management

Nature Conservation, Environmental Education, Resource Management...





Master's programme Biodiversity, Ecology and Evolution (M.Sc.)



^{*}ends on 31.03.2024 (WiSe 23/24)

Seven fields of "Major Studies": 30 ECTS each

1) Plant Ecology, Phytodiversity & Vegetation History

- Experimental Plant Ecology & Ecosystems Research or
- Vegetation Ecology, Phytodiversity & Vegetation History

2) Plant Systematics, Evolution & Phylogeny

- Embryophyta *or*
- Pro- and Eucaryotic Algae

1) Plant Ecology, Phytodiversity & Vegetation History

- Experimental Plant Ecology & Ecosystems Research

M.Biodiv.402 Plant Ecology & Ecosystems Research (6 C)

Complementary Modules (Block I: 12 - 24 C)

M.Biodiv.421 Plant Ecology: Project Course: Plant Ecology (6 C)
M.Biodiv.422 Plant Ecology: CO₂- & H₂O-Balance of Trees (6 C)

M.Biodiv.423 Plant Ecology: Study of Habitats (6 C)

M.Biodiv.424 Plant Ecology: **Field Studies** in Plant Ecology, Phytodiversity, and Ecosystems

Research (6 C)

M.Biodiv.450 Plant Ecology: Impact of Global Climate Change on Plant Communities and their

Functional Traits (6 C)

Complementary Modules (Block II: 0 - 12 C)

M.Biodiv.431 Vegetation Ecology: Applied Veg. Ecology & Multivariate Analyses (6 C)

M.Agr.0061 Practical Course Nature Conservation in Agricultural Landscapes (6 C)

M.Forst.795 \ Forest Ecosystems (6 C)

M.Forst.775 \ Modern Methods in Ecology (6 C)

(M.Forst.754) \ (Soils of the Earth (6 C))

M.Forst.756 Practice in Soil Hydrology (9 C)

M.Forst.757 | Practice in Soil Microbiological (9 C)

M.Forst.774 / Stable Isotopes in Terrestrial Ecology (6 C)

M.FES.122 / Ecological Simulation Modelling (6 C)

M.Forst.213 Genetic Resources and Physiology of Wood Plants (6 C)

1) Plant Ecology, Phytodiversity & Vegetation History

- Vegetation Ecology, Phytodiversity & Vegetation History

M.Biodiv.403 Vegetation Ecology and Vegetation History (6 C)

Complementary Modules (Block I: 12 - 24 C)

M.Biodiv.406 Regional Vegetation Ecology and Phytodiversity (6 C)

M.Biodiv.430 Veg. History: Project Study: Paleoecology & Palynology (6 C)

M.Biodiv.431 Veg. Ecology: Applied Veg. Ecology & Multivariate Analysis (6 C)

M.Biodiv.435 Veg. Ecology and Veg. History: **Field studies** in Phytodiversity & Palaeoecology

(6 C)

M.Biodiv.436 Veg. Ecology: Project Study: Vegetation and Phytodiversity (6 C)

M.Biodiv.437 Veg. History: Methods in Paleoecology (6 C)

Complementary Modules (Block II: 0 - 12 C)

M.Biodiv.423 Plant Ecology: Study of Habitats (6 C)

M.Agr.0061 Practical Course Nature Conservation in Agricultural Landscapes (6 C)

M.Agr.0052 \ Ecology and Nature Conservation (6 C)

(M.Forst.754) \ (Soils of the Earth (6 C))

M.FES.115 Statistical Data Analysis with R (6 C)
M.Geg.02 Resource Utilisation Problems (6 C)

M.Geg.17 / Landscape Ecology (6 C)

M.Geg.06 (Biodiv) Quaternary Climate and Landscape Development (6 C)

M.Geo.116 Paleobotany



* > STUDIUM > ORIENTIERUNGS-PHASE IN DER BIOLOGIE

Q SUCHEN # ENGLISH

O-Phase

16. - 20.10.

^ 밑 ⑴ 12:38 ↑ 밑 ⑴ 12.09,2023

Orientierungs-Phase in der Biologie



Herzlich Willkommen!

Die Orientierungswoche, Orientierungsphase oder kurz O-Phase dient der Einführung in das Studium für "Erstsemester". In Informationsveranstaltungen erhalten Sie alle relevanten Informationen für Ihr Studium und einen guten Studienstart, daneben gibt es ein soziales Rahmenprogramm, das traditionell von der Fachgruppe organisiert wird. Hierbei lernen Sie die verschiedenen Institute der Biologie kennen und Stadtrallyes und Kneipenabende erleichtern das Kennenlernen Ihrer Kommiliton*innen und der Stadt.

Die O-Phase zum Studienbeginn im Wintersemester 2023/24 für Studierende der Biologie startet für die Bachelorstudiengänge immer in der Woche vor Vorlesungsbeginn, für Masterstudiengänge bereits Anfang Oktober.

Zudem findet eine zentrale Immatrikulationsfeier für die neu eingeschriebenen Studierenden der gesamten Universität statt.

Hier finden Sie einen Überblick über die Einführungsveranstaltungen und O-Phasen zum Wintersemester 2023/24:

Bachelorstudiengänge

- > Vorherige Anmeldungen zu Modulen und Veranstaltungen sind nicht nötig, es gibt alle Infos in der jeweiligen Einführungsveranstaltung!
- > Wir empfehlen unsere Vorkurse für Biologie und Biodiversität bzw. Biochemie zu besuchen.
- > Weitere Vorbereitungsmöglichkeiten auf das Bachelorstudium

2-Fächer-BA Biologie (Lehramt)

BSc Biochemie

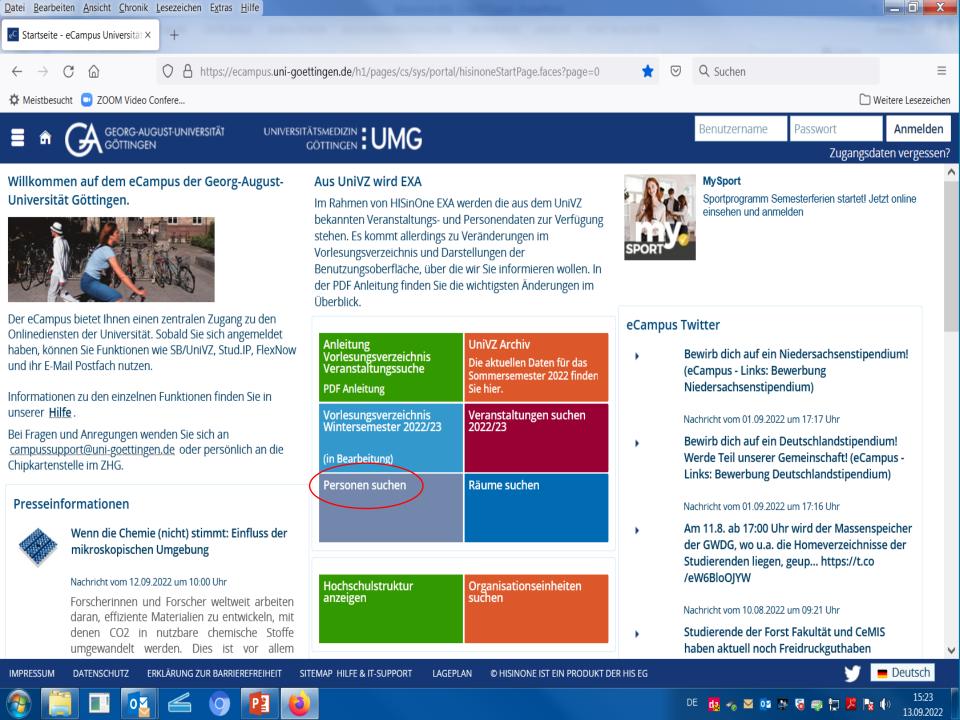
BSc Biologie & BSc Biodiversität

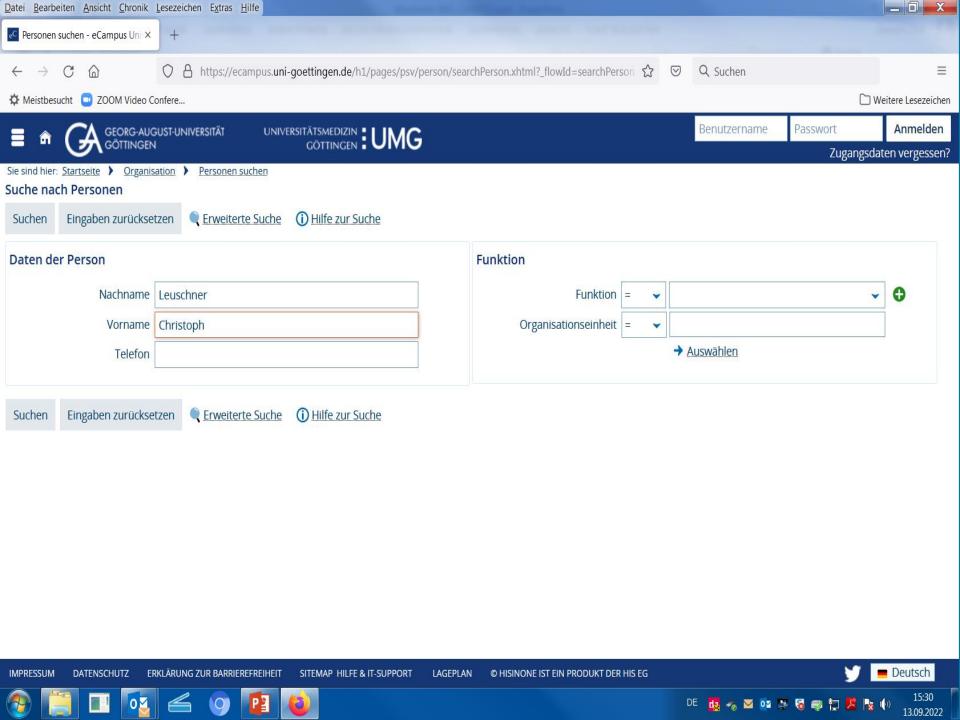


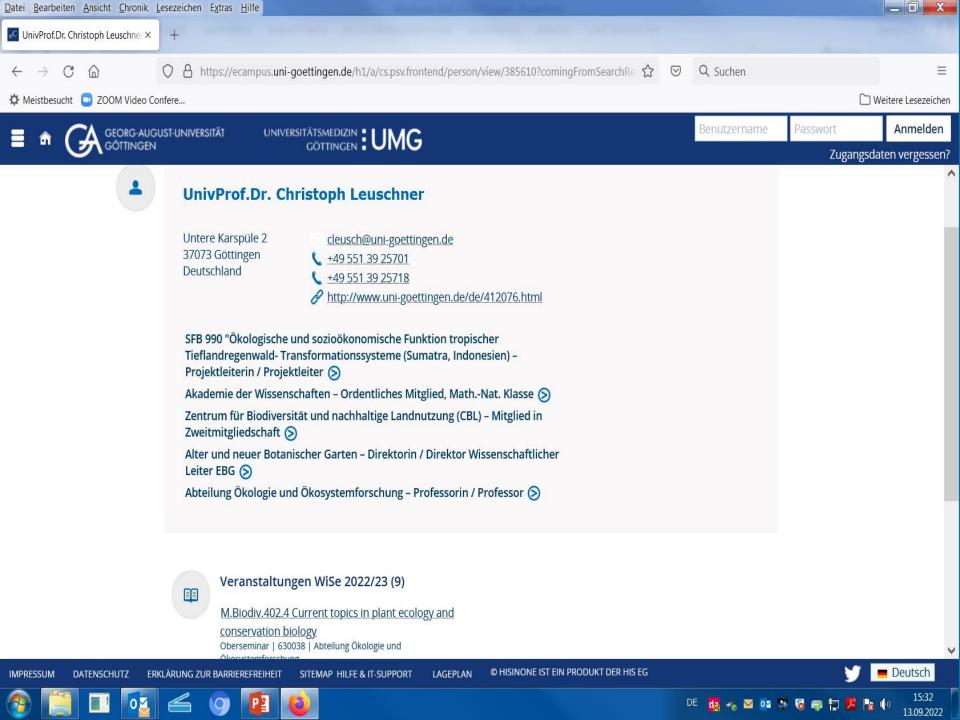


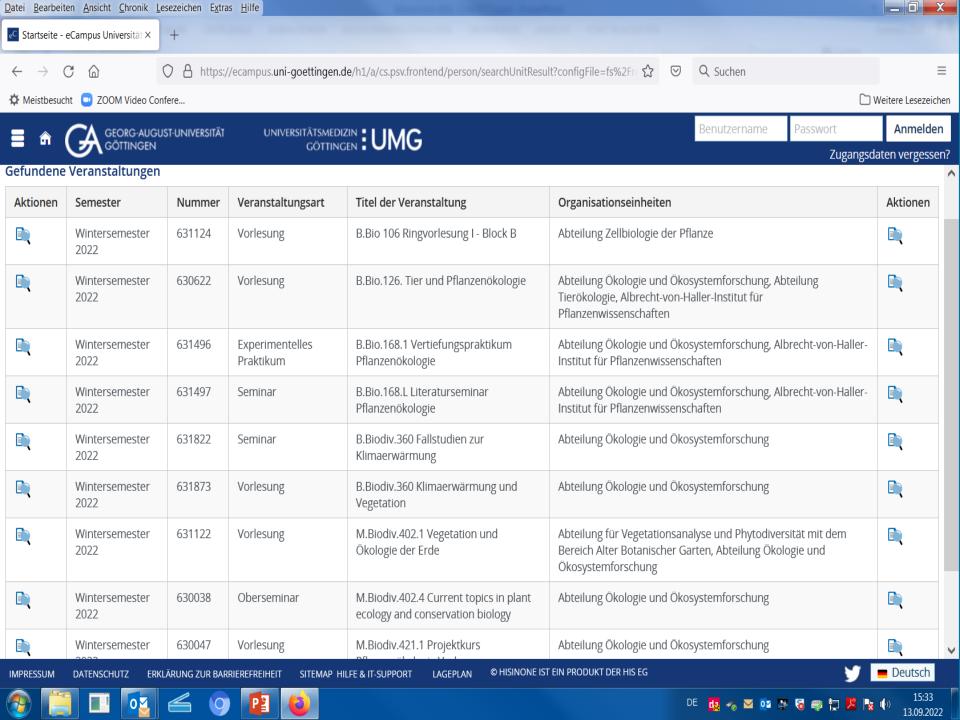
Steffen Strauß: 19.10.'23, 10:00 h, online



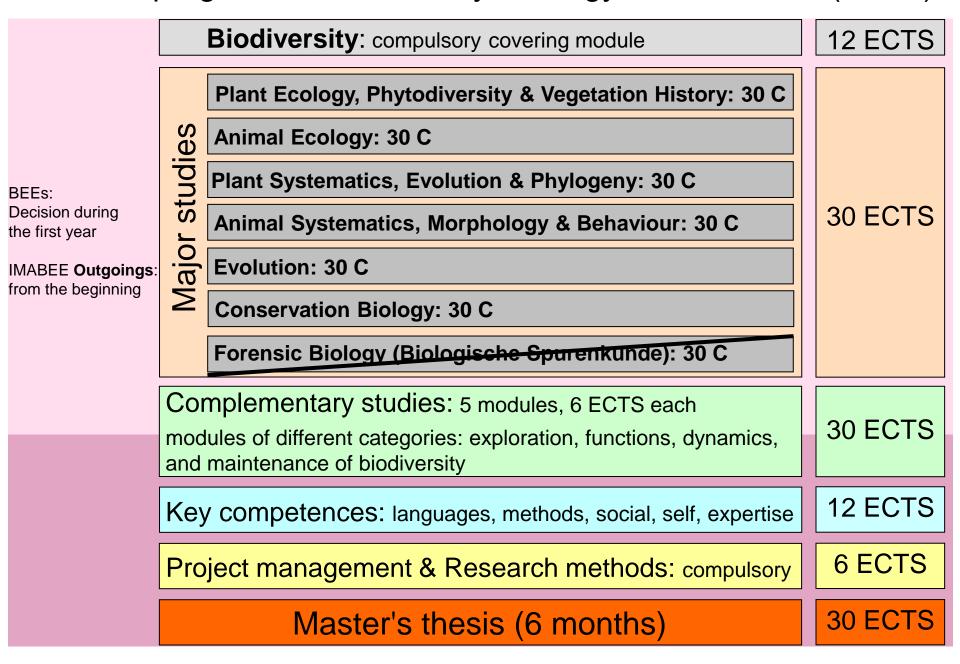








Master's programme Biodiversity, Ecology and Evolution (M.Sc.)



Compulsory module M.Biodiv.401 "Biodiversity" (12 C, no grade)

- One extended field trip for advanced students (zoology or botany)
- One out of seven species identification courses 3 C
- Four Saturday field trips in SoSe (2 botanical, 2 zoological) 4 C

FlexNow bookings will be done when courses complete and decisions were made

Compulsory module **M.Biodiv.417** (6 C, graded) "Scientific project management and specific research methods"

- Preparing module for MSc-Thesis: individual(!), off the regular schedule, no time limit
- Must be completed before start of MSc-Thesis, and supervisors were fixed
- One written report of a talk presented in a colloquium: Modern Research in Biodiversity and Ecology

"Go" for MSc-Thesis: 60 C must be reached, including M.Biodiv.401 and 417 (Scientific Project Management)

Scientific profile will be developed by

- 1) Selected field of "Major Studies" (30 C)
- 2) Synergism out of major and complementary studies (30 C)
- 3) Master's thesis (30 C)
- 4) Key competences (12 C)

Sum: 90 - 102 C in a total of 120 C, i.e. 75 – 85%

Pathways for International Research Training (up to 48 ECTS + MSc-Thesis = 65%)

For BEEs and IMABEEs (Incomings and Outgoings)

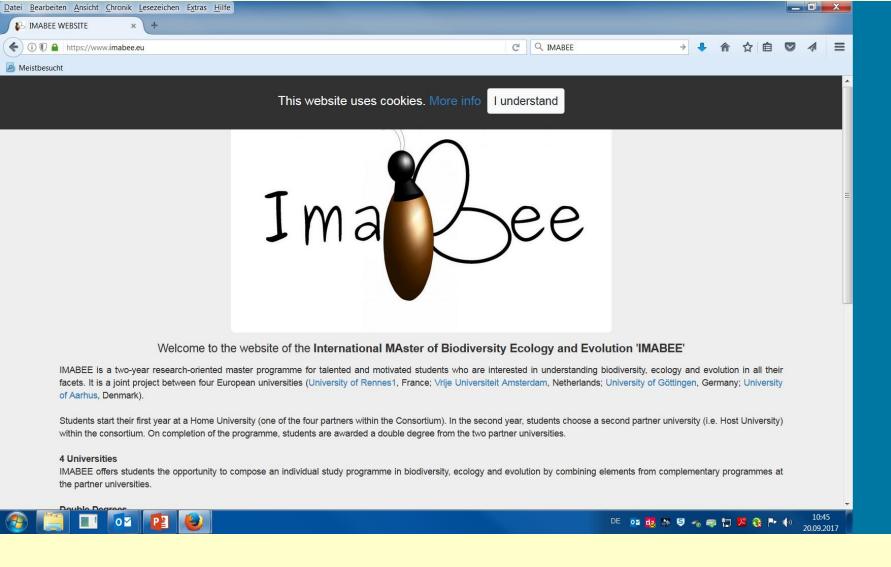
 Specific modules for individual research in international research facilities or foreign universities: "Field / Project studies in..." (M.Biodiv.424, 430, 435, 443, 482, 490, 605)

What is it good for?

- 2) Scientific Project Management and Research Methods (M.Biodiv.417)
- 3) Master's Thesis

MSc-Double Degree (DD) in Biodiversity, Ecology, and Evolution: IMABEE DD-Option Decision until 31.10.2022

- 1) Partner Universities:
 - Rennes 1, Bretagne, France,
 - Vrije Universiteit Amsterdam & University of Amsterdam, Netherlands
 - N.N. (Aarhus had to leave due to danish jurisdiction)
- 2) First year: study at university of origin (<u>Göttingen</u>), second year: study at **host university**, (including MSc-Thesis !!!)
- 3) Up to 12 students in exchange: up to 4 incomings and outgoings per university)
- 4) Göttingen students start in WiSe 2022/'23 and move to the host university in winter term 2023/'24 Start: **01 September**
- 5) Financial support via scholarship can be awarded (e.g. Erasmus+)



The **Double Degree** (DD) is a high-ranking international scientific qualification above a regular degree, based on the synergism of different academic education of **two** reputated universities.

It provides significant advantages for the future scientific career or international job offers.

Studying abroad for one semester

Erasmus+ programme

- ✓ attend courses/subjects which Faculty of Biology does not offer
- ✓ acquire broader theoretical knowlege

Voluntary practical project

- ✓ self-organised incl. funding
- ✓ acquire practical skills

Erasmus+ programme

Advantages

- ✓ CV "upgrade"
- ✓ can be recognised as profile module/key competence modules.
- ✓ holiday semester possible
- ✓ no study fees at partner university
- ✓ monthly living cost contribution

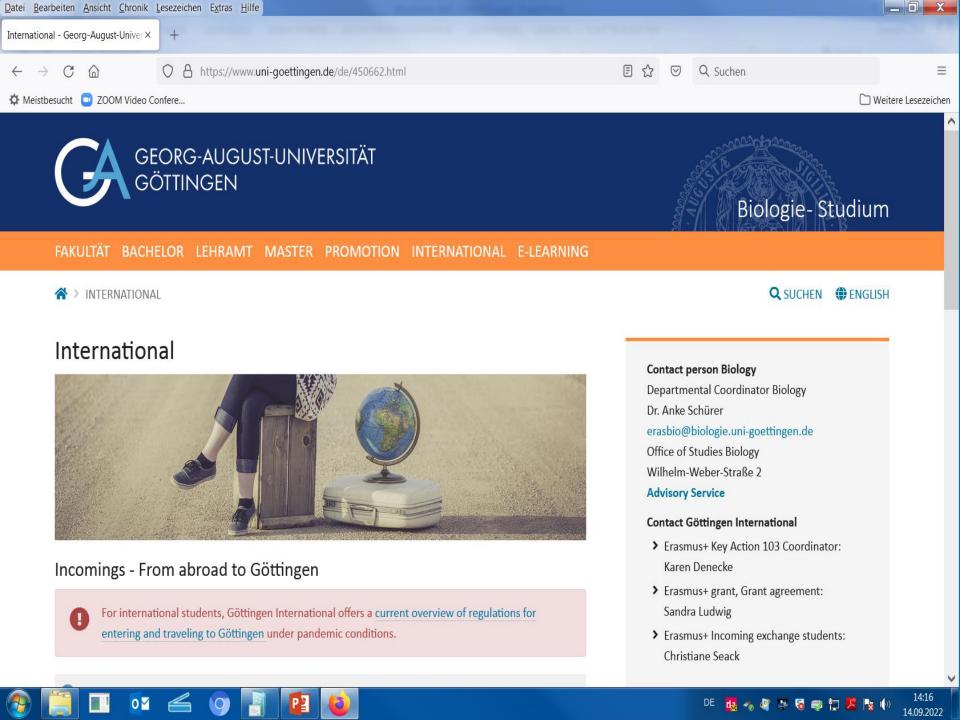
Erasmus places of Biology all over Europe

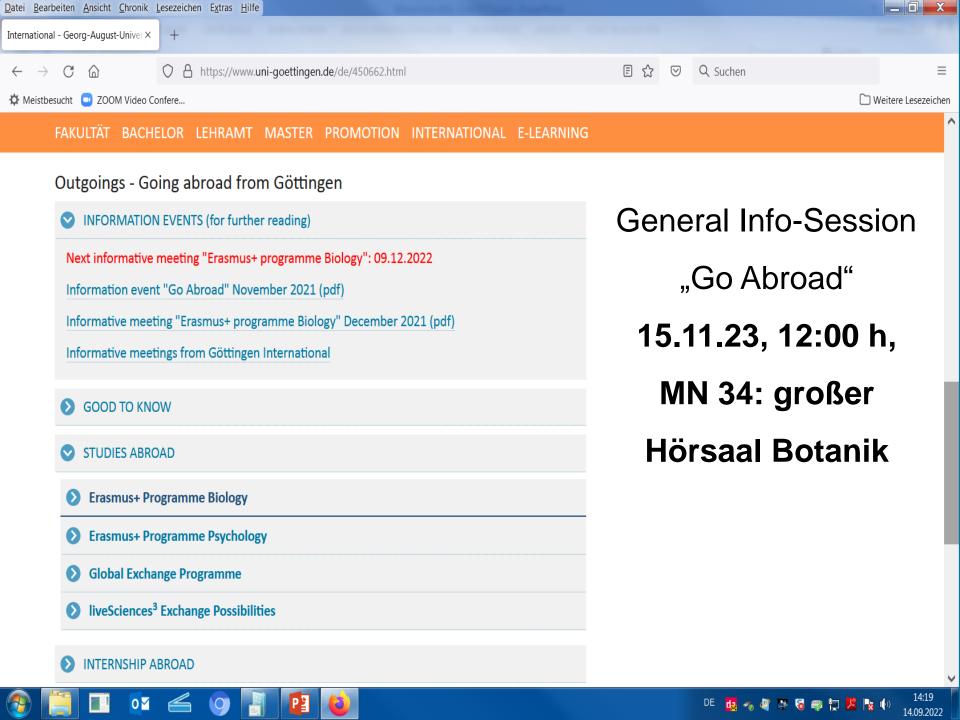


Global Exchange Programme - study world wide



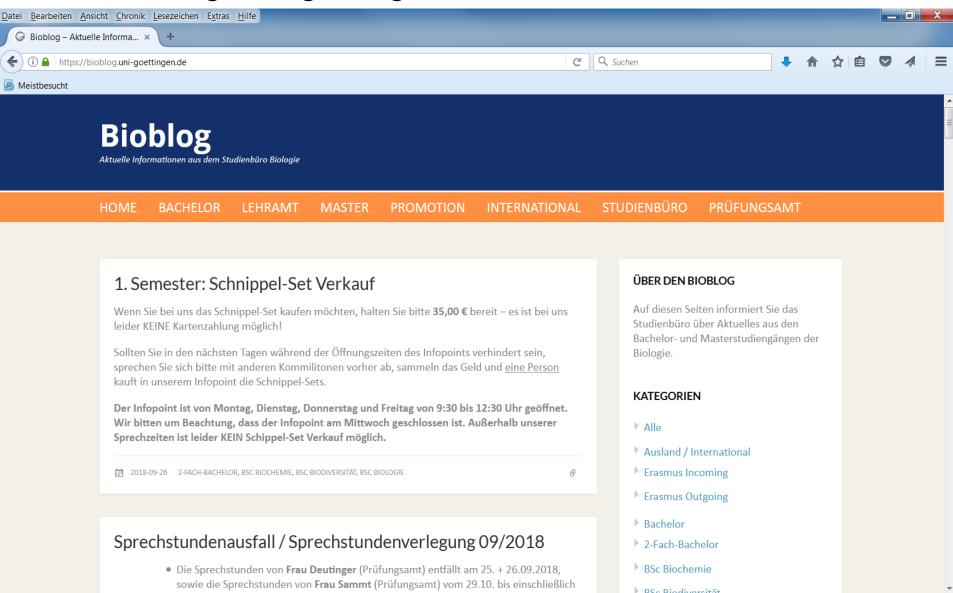
USA Mexico Columbia Israel India China Indonesia Japan Taiwan South Corea Australia





How to get more information: Webpage Bioblog

www.biologie.uni-goettingen.de: Studium



























Centre of Biodiversity and Sustainable Land Use Section: Biodiversity, Ecology, and Nature conservation



Further steps to the Master's programme:

- 1) Application until 15 May O.K.
- 2) Enrollment O.K.
- 3) Completion of documents: C1 English, B1 German: 15 November BSc certificate: 31 March 2022 at the latest
- 4) Acquaintance with the University's infrastructure
- 5) Arrangement of the personal schedule
- 6) Handling of EXA-database and FlexNow
- 7) Official start of teaching sessions 24.10.22