



Consecutive Master program

Biodiversity: Ecology, Evolution, and Conservation (BEEC)

- with option of double-degree IMABEE -

Info-Session – 07 February 2025

Study program director: Prof. Dr. Stefan Scheu

Coordination: Dr. Barbara Wick





Agenda

- 1. Application and admission
- 2. Program and study structure
- 3. Modules and study plans where to find information
- 4. Double-Degree IMABEE
- 5. Outlook Professional perspective





Application and admission

- Admission to each winter semester: 40 students
- Application period: 01 April 15 May
- Criteria see website (below):
 - BSc degree (completed or with at least 150 ECTS at time of application)
 - Proof of German (B1)
 - Proof of English (C1)
 - CV, Letter of motivation

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





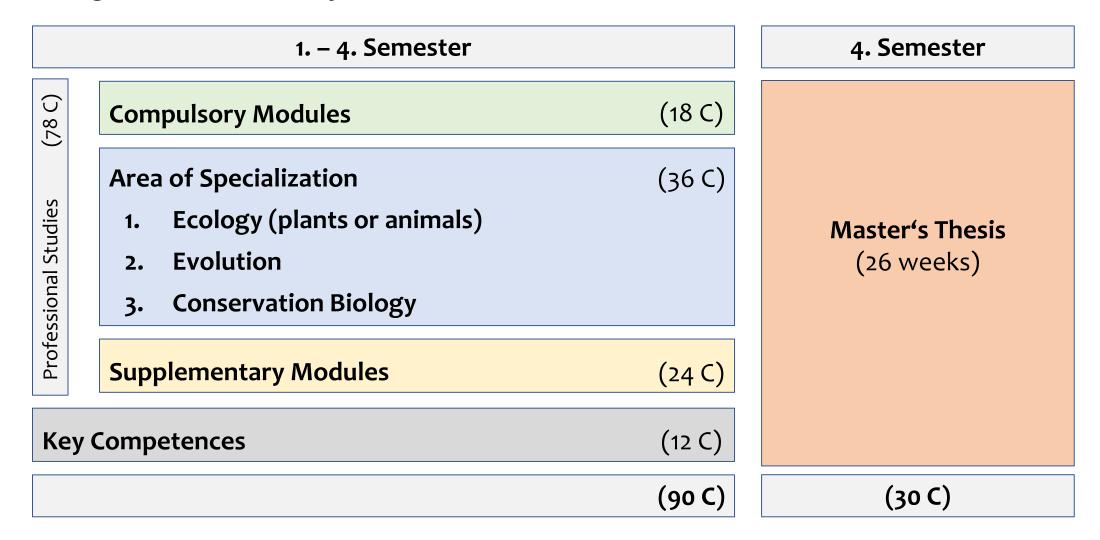
Program and study structure - BEEC

- Two years, four semesters (120 ECTS)
- Organized modularly (block and semester-long courses)
 - ✓ Selection from 47 BEEC modules
 - ✓ Selection from 39 modules from other master programs (Biology, Agricultural Sciences, Forest Sciences & Forest Ecology, Geoscience & Geography
- English as main teaching language
- Possibility of double degree International Master of Biodiversity,
 Ecology and Evolution (IMABEE)





Program and study structure







- Three main areas of specialization
 - A. <u>Ecology</u> (with specification in plants or animals): Functionality of biodiversity
 - B. Evolution: Development of biodiversity
 - C. Conservation Biology: Preserving biodiversity
- One area of specialization must be selected
 - ✓ Note: Demand from students for Conservation Biology is high it might not be possible to take all the desired courses as planned





A. Ecology (with specification in plants or animals)

- a. Two core modules (12 C) selection from 3
 - i. Plant ecology & ecosystem research
 - ii. Vegetation ecology & vegetation history
 - iii. Animal ecology







ii. Prof. Behling



iii. Prof. Scheu

- b. Compulsory elective modules (12-24 C)
 - Plants: selection from 10
 - Animals: selection from 5
- c. Elective modules (0-12 C) selection from 18





B. Evolution

- a. Two core modules (12 C)
 - i. Evolutionary biology
 - ii. Evolution of embryophyta







ii. Prof. Hörandl

- b. Compulsory elective modules (12-24 C) selection from 10
- c. Elective modules (0-12 C) selection from 8





C. Conservation biology

- a. Three (from 4) core modules (18 C)
 - i. Conservation biology
 - ii. Animal ecology
 - iii. Plant ecology & ecosystem research or
 - iv. Vegetation ecology & vegetation history









i. Prof. Kamp ii. Prof. Scheu

iii. Dr. Hertel

iv. Prof. Behling

- b. Compulsory elective modules (12-18 C) selection from 4
- c. Elective modules (0-6 C) selection from 14





Program and study structure – Compulsory modules

Compulsory modules (18 C)

- a. M. Biodiv.400 (8 C):
 - Species identification courses
 - 4 one-day field trips: 2 zoological, 2 botanical
- b. M.Biodiv.405 (4 C):
 - One extended field trip / excursion (botanical or zoological focus)
- c. M.Biodiv.417 (6 C) preparing module for MSc thesis:
 - Research colloquia: 14 talks over one or several semester
 - Project management: development + defense of thesis proposal, identification of supervisors





Program and study structure

- Master thesis (30 C, 26 weeks)
 - Prerequisite for the beginning of the thesis:
 - 60 C accomplished, including compulsory modules (18 C)
 - In Göttingen or abroad





Modules and study plans

- > Where to find information and overviews?:
 - 1. List of modules Module handbook: https://uni-goettingen.de/en/37262.html
 - 2. Exemplary study plans for each area of specialization in:

 Examination and study regulation: https://uni-goettingen.de/en/37262.html +

 OwnCloud: https://owncloud.gwdg.de/index.php/s/JSDGzWcQXF4u3bf
 - 3. **BEEC modules**: times and course places available OwnCloud: https://owncloud.gwdg.de/index.php/s/JSDGzWcQXF4u3bf



Modules and study plans

2. Exemplary study plans for each area of specialization - Ecology

Schwerpunkt "Ökologie" / Specialization "Ecology"												
Sem. Σ C	Modul	Modul	Modul	Modul	Modul							
1. Σ 30 C	M.Biodiv.404 Animal ecology 6 C (Mon & Tue, 16.15-17:45)	M.Biodiv.403 Vegetation ecology and vegetation history 6 C (401.1: Wed, 14:15-15:45, 403.4: Mon, 09:00-10:30)	M.Biodiv.492 Molecular methods for "Next Generation Sequencing" 6 C (10.0221.02.)	M.Biodiv.441 Animal ecology: Evolutionary ecology 6 C (03.0321.03.)	Key competences 6 C							
2. Σ 30 C	M.Biodiv.400 Species identification and natural history 8 C (400.1d, 1e, early mornings or evenings)	M.Biodiv.445 Molecular analysis of soil food webs 6 C (05.0523.05.)	M.Biodiv.442 Community ecology of animals 6 C (26.0513.06.)	M.Biodiv.422 Plant Ecology: CO₂ and water relations of plants 6 C (23.06.11.07.)	M.Biodiv.405 Botanical or zoological field trip 4 C (Jul or Sep)							
3. Σ 30 C	M.Biodiv.417 Research colloquia and project management 6 C (individual)	M.Biodiv.470* Morphology of animals 6 C (21.1008.11.)	M.Biodiv.447 Biodiversity, ecology and evolution of terrestrial invertebrates. 6 C (02.1220.12.)	M.Biodiv.421 Project course: Plant Ecology 6 C (03.0321.03.)	Key competences 6 C							
4. Σ 30 C	Master thesis											
	Hi. 400 06 01 24 01 or M Di		Σ 120 C									

^{*}or M.Biodiv 480, 06.01.-24.01. or M.Biodiv.435 Project studies (individual)

13





Modules and study plans

3. BEEC modules: times and course places available – WS 2024/25

								Lectur	e weeks													
Lecti	ure-free	1	2	2 3	4	5	6	7	8	9	10	11	12	13	14			Lecture	-free			
By arra	angement	21	1.10	8.11.24		11.11. – 29	.11.24	02	2.24	06.01. – 24.01.25			27.01 07.02.25		10.02	28.02.20	25	03.03 21.03	.2025			
Impact of change	odiv.450 global climate e on plant munities arruda, Hertel)	(Fischer/Helm) (6 pl., 21.1008.11.)		M.Biodiv.447 Biodiversity, ecology and evolution of terrestrial invertebrates (Scheu) (15 pl., 11.1129.11.)		species for nature inv			Natu inven	M.Biodiv.480 Nature conservation inventories (Hondong) (12 pl., 06.0124.01.2024)		M.Biodiv.400.1a Pollen analysis (Behling) (15 pl., 27.1 07.02.)		M.Biodiv.400.1b Mosses & lichens (Kaufmann, Drehwald) (12 pl., 10.0221.02.)			M.Biodiv.421 Project course: Plant ecology (Hertel) (8 pl., 03.0321.03)					
`	5.0916.10.)				(13 Pis, 11.11	29.11.)	(/ P	1., 02.12. 2	.0.12.)				07.	32.)	(12 pl., 10	.02. 21.02.)					
Population nature co (Got	odiv.481 ^A on biology in onservation tschalk) 1.1008.11.)				(D	M.INC.10 ta analysis biologi Daskalova, 15 pl., 11.11	for field sts Kamp)									Molecula for Next (Seque (Tome	div.492 or methods Generation encing asello) .0221.02.)		M.Biodiv.4 Animal ecolo Evolutionary (Heimburge (12 pl., 03.032	ogy: ecol er)		
WI.DIC	odiv of algae +	M.Biodiv.402 Vegetation and ecology of the world (Lecture series, Hertel) M.Biodiv.402.4 Current topics in plant ecology and nature conservation (Seminar, Hertel) (20 pl.)										(Wed, 14 (Thur, 08	:15-15:45) 15-09:45)	Hymer	iv.400.1f		M.Biodiv.6o6 Identification of					
•		M.Biodiv.403.4 Modern issues of vegetation science in agricultural landscapes (Seminar, Bergmeier, Schellenberg) (12 pl.)									(Mon, 09:	00-10:30)		l, Bleidorn) .0221.02.)		bird feathers (Stumpner)						
		M.Biodiv.404 Animal ecology (Lecture, Scheu) M.Biodiv.404 Topics of animal ecology and evolution (Seminar, Scheu) (25 pl.)												:15-17:45) :15-17:45)		.Biodiv.610		(16 pl., 03.03 07.03.)				
						0,			ture, Bergmeier/Walentowski)						15-18:45)		ersity resea		2712319			
		M.Biodiv.412.1 Origins of Conservation Biology (Lecture, Waltert) M.Biodiv.412.2 International Nature Conservation (Lecture, Kamp) M.Biodiv.412.3 Current topics in conservation biology (Seminar, Kamp) (20 pl.)								l.)				(Wed, 14	:15-17:45) :15-15:45) :15-17:45)	, ,	(Aguado Molina) (12 pl., 10.0228.02.)					
		M.Biodiv.415 Evolutionary biology (Lecture series, Friedl)										:15-17:45)										
		M.Biodiv.425 Speciation and evolution of land plants (Lecture, Hörandl) M.Biodiv.425 Plant systematics and phycology (Seminar, Hörandl) (20 pl.)											:15-17:45) :15-14:45)									
		M.Biodiv	/.430	430 Current topics in palynology and climate dynamics (Seminar, Behling) (20 pl.)								(Mon, 16	:15-17:45)		Compulsory modules Core and compulsory elective modules in specialization "Evolution"							
		M.Biodiv	/.438	Isolation of pl	ants and	d animal sp	ecies in fra	ies in fragmented habitats (Lecture+Seminar, Goedecke, Ramirez)								Core and compulsory elective modules in specialization "Ecology" and "Conservation (402, 403, 404)"						
request																			ive modules in spec			
art WiSe 2025	/26															Electi	ve modules	(M.INC.10	006 / Conservation+	+ M.Biodiv.43	38 / Ecology) and Key Competencies (M.Biodiv.	

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Double – Degree IMABEE

- Double Degree Program (https://www.imabee.eu/)
 - Partner universities: Rennes 1, France (coordination) + Vrije Universiteit Amsterdam, Netherlands
 - 12 Incomings + 12 Outgoings per year: 6 FRA and 6 NL
 - Double Degree
 - √ 1st year home university (60 C)
 - ✓ 2nd year host university (60 C, including MSc thesis)





Double – Degree IMABEE

- Göttingen students who start in winter term 2025/26 move to host university in winter term 2026/27 – start: 01 September
- No separate application needed indication of interest in letter of motivation for regular application to the Master program BEEC
- The students' final decision is made at the end of the first semester





Outlook – Professional perspectives

- Scientific career PhD programs at Göttingen, e.g. Biological Diversity and Ecology (https://www.uni-goettingen.de/de/promotion/20917.html)
- ➤ Governmental authorities (e.g. Federal Agency for Nature Conservation)
- Inter/National Environmental Organisations (e.g. WWF, BUND German Federation for the Environment and Nature Conservation, NABU The Nature and Biodiversity Conservation Union, IUCN International Union for Conservation of Nature)
- Educational Institutions (e.g. museum, regional environmental education centers)
- > Public media (e.g. science journalism)





Communication and documentation/information

Contact – Barbara Wick:

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Documentation and information:

- Website
- OwnCloud (tab <u>Programme overview / Information</u>, website BEEC)
- BioBlog: https://bioblog.uni-goettingen.de/





Questions?

Thank you for your attention.....

Image-Film about studying and life in: Collect Lasting Memories | University of Göttingen - YouTube



..... we look forward to receiving your applications