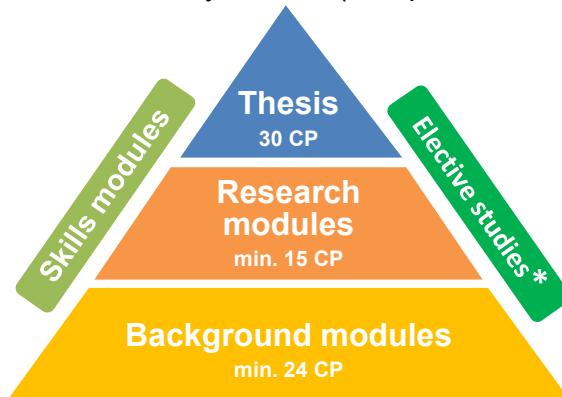


Curriculum

- Design your own curriculum
- Choose from the wide range of biology modules
- Choose from related M.Sc. Programs in Landscape Ecology, Marine Environmental Sciences, Neuroscience or Molecular Biomedicine (elective studies *)
- No mandatory courses (except Master thesis)



Application

Application requirements:

B.Sc. in Biology or closely related field, Language proficiency: English (level B2). Refer to admissions regulations for details.

Application date:

winter term: 15.05. -15.06.

Application via:

<https://uol.de/studium/bewerben/master>

<https://uol.de/en/application/international-students/master>

Contact:

Prof. Dr. Arne Nolte, arne.nolte@uol.de
Student body: fachschaft.biologie@uol.de

Why study Biology in Oldenburg?

Study Atmosphere:

- Flexible: Individual study plans, wide choice of courses
- Intensive: Block courses focus on one topic at a time
- Hands-on: Most modules include lab time or field trips
- Science-orientated: Individual student research projects
- Personal: Small groups, close contact to teachers and scientists
- International: Most courses in English, optional semester abroad



Environment:

- Collaborations: Alfred Wegener Institute, Senckenberg Institute, Institut für Vogelforschung, Helmholtz Institute for Functional Marine Biodiversity, botanical garden, cluster of excellence Hearing4all
- Future perspectives in Oldenburg: Graduate schools, collaborative science projects



M.Sc. Biology



<https://uol.de/en/biology/studies/master-of-science-biology/>

The M.Sc. Biology in Oldenburg offers teaching from leading scientists to train the next generation of researchers. The aim of this program is to provide students theoretical backgrounds and practical skills to study complex ecosystems down to the function of individual genes.

It prepares students to work independently in industry, business, research or at other private or public institutions and lays the groundwork for PhD work.

Specialization profiles:

From genes to ecosystems: Marine, aquatic and terrestrial biodiversity, ecology and evolution (BEE)

From genes to behaviour: Sensory systems, ornithology, migration and navigation

Modules M.Sc. Biology

NR	Module	Teaching staff	Winter Semester		Semester break	Summer Semester		Semester break
			1. Half	2. Half		1. Half	2. Half	
			12 CP					
bio703	Basic Concepts in Plant Sciences	Zotz, Albach, von Hagen	12 CP					
bio655	Ornithology in theoretical Concepts	Liedvogel, Bouwhuis, Köpll, Langemann, Mouritsen, Schmaljohann, Feenders	12 CP					
bio733	Evolutionary Population Genetics	Gerlach, Albach, Khan	6 CP					
bio736	Evolutionary Transcriptomics	Nolte, Dennenmoser		6 CP				
bio845	Development & Evolution	Sienknecht, Claußen	6 CP					
bio846	Lab Exercises in Development & Evolution	Sienknecht, Claußen, Ebbers		6 CP				
bio605	Molecular Genetics & Cell Biology	Neidhardt, Koch	12 CP					
bio765	Current Methods in Plant Sciences - Ecology, Phylogeny and Molecular Biology	Albach, Zotz, Will, Khan, von Hagen		12 CP				
bio720	Marine Biodiversity	Martinez Arbizu		15 CP				
bio695	Biochem. Conc. in Signal Transduct.	Koch, Scholten		12 CP				
neu210	Neurosensory Science & Behaviour	Langemann, Mouritsen		9 CP				
neu220	Neurocognition & Psychopharmacology	Thiel, Gießing		6 CP				
bio675	Molecular Ecology	Nolte, Gerlach				12 CP		
neu141	Visual Neuroscience: Physiology & Anatomy	Greschner, Dedeck, Janssen-Bienhold, Puller				12 CP		
neu150	Visual Neuroscience: Anatomy	Janssen-Bienhold, Puller				6 CP		
bio663	Ornithology in Practice	Liedvogel, Bouwhuis, Langemann, Vedder, Moiron, Schmaljohann				12 CP		
bio773	Sequence based Biomonitoring	Nolte, Dennenmoser, Martinez, Albach					12 CP	
neu360	Auditory Neuroscience	Köpll					6 CP	
neu340	Invertebrate Neuroscience	Kretzberg					6 CP	
psy270	Functional MRI Data Analysis	Gießing, Thiel					9 CP	
neu310	Psychophysics of Hearing	Beutelmann					12 CP	
bio860	Comparative Developmental Biology	Sienknecht					6 CP	
bio770	Field Methods in Organismal Biology	Zotz, Gerlach, Albach, Nolte, Mouritsen, von Hagen					15 CP	
bio780	Biodiversity of Littoral Communities	Martinez-Arbizu					15 CP	
bio870	Communicating Biology	Zotz, Albach, Schmaljohann	6 CP					
bio880	Plant Diversity	Albach, von Hagen	6 CP					
bio777	Objekte in wissenschaftl. Sammlungen: Konserv., Management & Forschungsfragen	Will, NN	6 CP					
neu790	Communicating Neuroscience	Kretzberg, Köpll	3 CP					
bio890	Current Topics in Biology*	Gerlach, teaching staff	3 CP (option 1)			3 CP (option 2)		
neu730	Biosciences in the Public Eye and in our Laws	Köpll, Sienknecht				6 CP		
neu751	Laboratory Animal Science	Köpll, Langemann			3 CP opt. 1		opt. 2	3 CP opt. 3
neu760	Scientific English	Manley, Köpll				6 CP		
neu780	Introduction Data Analysis with Python	Winklhofer			6 CP			
neu800	Introduction to Matlab	Gießing					3 CP	
bio783	Object-based research projects in biological collections	Will, Albach				6 CP flexible timing		
neu810	International Meeting Contribution	Kretzberg, Köpll				3 CP flexible timing		
neu820	Neuroscience Journal Club	Mertsch				3 CP weekly course		
bio810	External Research Project*	Zotz, teaching staff				15 CP flexible timing		
bio900	Biology Research Module*	Zotz, teaching staff				15 CP flexible timing		
mam	Master Thesis Module	teaching staff				30 CP flexible timing		

*multiple registration possible

For official regulations see <https://uol.de/studium/pruefungen> and www.uol.de/amtliche-mitteilungen

Status: 10/2022

Program requirements:

- 30 CP Master Thesis Module

- 24 CP Background Modules

- 15 CP Research Modules

- 21 CP any further module(s)

from Biology curriculum

• 30 CP free choice:

any further Biology Module(s)

or (subject to approval) Course(s)

from other M.Sc. programs,

from other universities,

or from abroad.

Modules bio900 and bio810

- 30 CP Master Thesis Module

offer several project options;

bio900 is mandatory in combination with external master thesis.

Modules with shared course

components, similar content

or previous versions (see list)

cannot be credited twice.

block courses



weekly courses / irregular meetings

