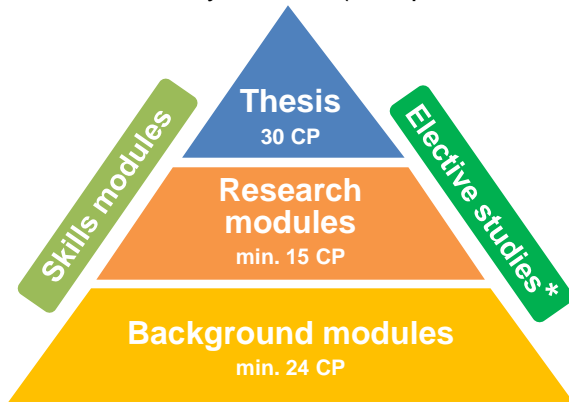


Curriculum

- 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) and German (DSH level 2 or equivalent). Refer to admissions regulations for details.

Preferred application dates:

winter term: 15.07., summer term: 15.01.

Application via: www.uni-oldenburg.de/studium/en/students/application/

Contact:

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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



M.Sc. Biology



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

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



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	Shared / similar previous Module	Teaching staff	Winter Semester		Semester break	Summer Semester		Semester break
				1. Half	2. Half		1. Half	2. Half	
bio703	Basic Concepts in Plant Sciences	bio700	Albach, Zotz, Laubinger, von Hagen	12 CP					
bio655	Ornithologie	bio650	Bairlein, Klump, Bouwhuis, Köppl, Langemann, Mouritsen, Schmaljohann	12 CP					
bio733	Evolutionary Population Genetics	bio730	Gerlach, Albach	6 CP					
bio736	Evolutionary Transcriptomics	bio730	Nolte, Laubinger		6 CP				
bio845	Development & Evolution	bio840 neu10	Sienknecht, Nothwang, Köppl	6 CP					
bio846	Lab Exercises in Development & Evolution	bio840 neu20	Sienknecht, Nothwang, Köppl		6 CP				
bio605	Molecular Genetics & Cell Biology	bio600 neu170	Neidhardt, Koch, Thedieck	12 CP					
bio765	Current Methods in Plant Sciences - Ecology, Phylogeny and Molecular Biology	bio760	Laubinger, Albach, Zotz		12 CP				
bio720	Marine Biodiversität		Martinez Arbizu, Glatzel		15 CP				
bio695	Biochem. Conc. in Signal Transduct.	bio690 neu90	Koch, Scholten		12 CP				
neu210	Neurosensory Science & Behaviour	bio610	Klump, Hildebrandt, Langemann, Mouritsen		9 CP				
neu220	Neurocognition & Psychopharmacology	psy180 bio610	Thiel, Giessing		6 CP				
bio675	Molecular Ecology	bio670	Nolte, Gerlach				12 CP		
neu141	Visual Neuroscience: Physiology & Anatomy	bio620 neu140/150	Greschner, Dedek, Janssen-Bienhold, Puller				12 CP		
neu150	Visual Neuroscience: Anatomy	bio620 neu141	Janssen-Bienhold, Puller				6 CP		
neu290	Biophysics of sensory reception		Winklhofer				6 CP		
neu360	Auditory Neuroscience		Köppl, Klump					6 CP	
neu340	Invertebrate Neuroscience		Kretzberg					6 CP	
neu300	Functional MRI Data Analysis	bio640 neu305/ 270 psy270/275	Gießing, Thiel					12 CP	
neu310	Psychophysics of Hearing	bio640 neu270	Klump, Langemann					12 CP	
bio860	Comparative Developmental Biology		Sienknecht, NN						6 CP
bio770	Field Methods in Organismal Biology		Zotz, Gerlach, Albach, Glatzel, von Hagen, Mouritsen						15 CP
bio780	Biodiversität litoraler Lebensgemeinschaften		Glatzel, Martinez-Arbizu						15 CP
bio870	Communicating Biology		Zotz, Laubinger, Albach	6 CP					
bio880	Plant Diversity		Albach, von Hagen, Janzen	6 CP					
neu770	Basics of Statistical Data Analysis		Sobotka	6 CP					
bio890	Current Topics in Biology**		Gerlach, teaching staff	3 CP (option 1)			3 CP (option 2)		
neu790	Communicating Neuroscience		Kretzberg, Köppl, Hildebrandt	3 CP (option 1)			3 CP (option 2)		
neu720	Statistical Programming in R	ph050	Sobotka				6 CP		
neu730	Biowiss. i. d. gesellschaftl. Debatte	PB227	Köppl, Sienknecht				6 CP		
neu740	Molecular Mechanisms of Ageing	PB267	Thedieck				6 CP (irregular)		
neu751	Laboratory Animal Science		Köppl, Klump, Langemann, Nolte			3 CP			
neu760	Scientific English		Hildebrandt			6 CP			
neu780	Introduction Data Analysis with Python	PB328	Winklhofer			6 CP			
neu800	Introduction to Matlab	bio640 neu710/270	Gießing					3 CP	
neu810	International Meeting Contribution		Kretzberg						3 CP flexible timing
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

Background Modules

Skills Modules

Research

- 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 offer several project options

**multiple registration possible

Modules with shared course components, similar content or previous versions (see list) cannot be credited twice.

full-time block courses



weekly courses / irregular meetings

