

Do you meet the requirements of the Master program Microbiology?

Many more student than we can admit have applied for this program. Therefore, the competition is very high. Only complete sets of application and documentation are regarded.

Applications from foreign students who wish to study at Oldenburg University are processed by the Service Centre for International Applications for Study, uni-assist e.V. This means that all international students must submit their application and documentation to uni-assist e.V. The charge is 55 Euro for an application to the first and 15 Euro to every further university. For EU citizens the fee is 30 Euro, for applicants from China 25 Euro if they have already gone through the test procedure at the official testing agency in Beijing. Note: Your application to uni-assist e.V. will not be processed before the fee has been paid.

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To following questions might be useful for you to find out whether your current knowledge and skills might meet the requirements of the Master program Microbiology.

- Only, if you meet **all** requirements, you'll have a chance to get the admission.
- If some queries will be negated, the probability of getting the admission is very low. The final decision will be made by the admission committee.

		Yes	No
1	I acquired a Bachelor or equivalent degree made either at a German university or a university belonging to a country that has signed the Bologna declaration or I have obtained an equivalent qualification at another foreign university		
2	I studied Biology or an equivalent study programme and gained basic knowledge in the areas of Chemistry, Biochemistry, Physics and Mathematics. (These subjects were included in a study programme with a scope of 90 ECTS plus a case-by-case review (including a Bachelor dissertation or equivalent))		
3	My transcript of records delivers prove that I gained knowledge in the following subject areas:		
	Botany: structure and function of single and multi-celled plants, species and forms, plant kingdom, phylogeny, matter and energy balance		
	Zoology: structure and function of single and multi-celled animals (incl. humans), species and forms, animal kingdom		
	Microbiology: structure of prokaryotic cells of archaea and eubacteria, different types of metabolism and diversity, microbiological techniques		
	Genetics: structure and function of nucleic acid, genes in prokaryotes and eukaryotes, gene inheritance		
	Chemistry: general principles, knowledge of matter and substance from anorganic and organic chemistry, important relationships		
	Biochemistry: structure and metabolism of biomolecules, theory and practice of biochemical and molecular biological analytics		
	Physics: mechanics, electricity, magnetism, optics, nuclear physics, atom- and quantum physics, including mathematical and experimental methods used in these subsections		
	Mathematics: analysis and algebra (series, functions, techniques of differentiation and integration), stochastics (probability calculation and elementary methods of statistics)		
4	I completed the Bachelor study programme with a minimum grade of 1.5 or I have obtained at least 150 ECTS points and will obtain my degree in the following month		
5	I know the basic scientific principles and have basic competencies in molecules of organisms, energy and enzyme, central metabolism, respiration, photosynthesis, anaerobe metabolism, chemolithotrophy, cell structure of prokaryotes and eukaryotes, microbial diversity, significance of microorganisms for human, plant, animal, biotechnology and system of the earth, cell association, signal transmission and		

	communication between cells, meiosis, mitosis, Mendel's laws, chromosomal and molecular fundamentals of heredity, replication, transcription, translation, organization of genetic material, mutation and repair		
6	I know basic scientific working methods, such as cultivation of cells, inoculation of agar plates, determination of cell numbers and survival rate, harvesting material from micro-culture plates		
7	I have specific abilities and interests to study microbiology and I have completed an internship in a microbial lab voluntarily or I have already read research articles on microbiology voluntarily		
8	I identify myself with the profession of a microbiologist and I plan to work, e.g. in the fields microbiological research, geomicrobiology, molecular microbiology, marine or soil microbiology		
9	I am a native English speaker, or I can proof adequate English language skills; I passed an English language test with at least 79 points (TOEFL internet based test), 213 points (TOEFL computer based test), 550 points (TOEFL paper) or 6.5 points (IELTS) or B2 (CEFR)		
10	I am interested in the marine environment (water column or sediments) since most research projects will be conducted in the working groups of the Institute for Chemistry and Biology of the Marine Environment (ICBM)		