

## Module

### olt133 - Language courses

<b>Module label</b>	Language courses		
<b>Module code</b>	olt133		
<b>Credit points</b>	6.0 KP		
<b>Workload</b>	180 h		
<b>Applicability of the module</b>	<ul style="list-style-type: none"> <li>• Structured Doctoral Programme Environmental Sciences and Biodiversity (Doctoral Programme) &gt; Module</li> <li>• Structured Doctoral Programme Neurosensory Science and Systems (Doctoral Programme) &gt; Module</li> </ul>		
<b>Responsible persons</b>			
<b>Prerequisites</b>			
<b>Skills to be acquired in this module</b>	Development and/or improvement of language skills.		
<b>Module contents</b>	The PhD student should improve his or her language skills in a language not being his or her mother tongue. If the student is going for a lab visit abroad other languages than English or German can be chosen.		
<b>Recommended reading</b>			
<b>Links</b>			
<b>Languages of instruction</b>	German, English		
<b>Duration (semesters)</b>	1 Semester		
<b>Module frequency</b>	halbjährlich		
<b>Module capacity</b>	unlimited		
<b>Examination</b>	<b>Prüfungszeiten</b>	<b>Type of examination</b>	
<b>Final exam of module</b>		Active participation	
<b>Type of course</b>	Course selection		
<b>SWS</b>	0		
<b>Frequency</b>	SuSe and WiSe		

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## olt134 - Additional module in communication

<b>Module label</b>	Additional module in communication		
<b>Module code</b>	olt134		
<b>Credit points</b>	6.0 KP		
<b>Workload</b>	180 h		
<b>Applicability of the module</b>	<ul style="list-style-type: none"><li>• Structured Doctoral Programme Environmental Sciences and Biodiversity (Doctoral Programme) &gt; Module</li><li>• Structured Doctoral Programme Neurosensory Science and Systems (Doctoral Programme) &gt; Module</li></ul>		
<b>Responsible persons</b>			
<b>Prerequisites</b>			
<b>Skills to be acquired in this module</b>			
<b>Module contents</b>			
<b>Recommended reading</b>			
<b>Links</b>			
<b>Languages of instruction</b>	English , German		
<b>Duration (semesters)</b>	1 Semester		
<b>Module frequency</b>			
<b>Module capacity</b>	unlimited		
<b>Examination</b>	<b>Prüfungszeiten</b>	<b>Type of examination</b>	
<b>Final exam of module</b>		BE	
<b>Type of course</b>	Course selection		
<b>SWS</b>	0		
<b>Frequency</b>	SuSe and WiSe		

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## olt161 - Transferable skills / Scientific career

<b>Module label</b>	Transferable skills / Scientific career		
<b>Module code</b>	olt161		
<b>Credit points</b>	12.0 KP		
<b>Workload</b>	360 h		
<b>Applicability of the module</b>	<ul style="list-style-type: none"> <li>• Structured Doctoral Programme Environmental Sciences and Biodiversity (Doctoral Programme) &gt; Module</li> <li>• Structured Doctoral Programme Neurosensory Science and Systems (Doctoral Programme) &gt; Module</li> </ul>		
<b>Responsible persons</b>			
<b>Prerequisites</b>			
<b>Skills to be acquired in this module</b>			
<b>Module contents</b>			
<b>Recommended reading</b>			
<b>Links</b>			
<b>Languages of instruction</b>	English , German		
<b>Duration (semesters)</b>	1 Semester		
<b>Module frequency</b>			
<b>Module capacity</b>	unlimited		
<b>Examination</b>	<b>Prüfungszeiten</b>	<b>Type of examination</b>	
<b>Final exam of module</b>		Active participation	
<b>Type of course</b>	Course selection		
<b>SWS</b>	2		
<b>Frequency</b>	SuSe and WiSe		
<b>Workload attendance time</b>	28 h		

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## olt164 - Mentoring

<b>Module label</b>	Mentoring	
<b>Module code</b>	olt164	
<b>Credit points</b>	6.0 KP	
<b>Workload</b>	180 h	
<b>Applicability of the module</b>	<ul style="list-style-type: none"><li>• Structured Doctoral Programme Environmental Sciences and Biodiversity (Doctoral Programme) &gt; Module</li><li>• Structured Doctoral Programme Neurosensory Science and Systems (Doctoral Programme) &gt; Module</li></ul>	
<b>Responsible persons</b>		
<b>Prerequisites</b>		
<b>Skills to be acquired in this module</b>		
<b>Module contents</b>		
<b>Recommended reading</b>		
<b>Links</b>		
<b>Languages of instruction</b>	German, English	
<b>Duration (semesters)</b>	1 Semester	
<b>Module frequency</b>		
<b>Module capacity</b>	unlimited	
<b>Examination</b>	Prüfungszeiten	Type of examination
<b>Final exam of module</b>		KL
<b>Type of course</b>	Course selection	
<b>SWS</b>	0	
<b>Frequency</b>	SuSe and WiSe	

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## olt165 - Additional module "Transferable Skills"

<b>Module label</b>	Additional module "Transferable Skills"		
<b>Module code</b>	olt165		
<b>Credit points</b>	6.0 KP		
<b>Workload</b>	180 h		
<b>Applicability of the module</b>	<ul style="list-style-type: none"><li>• Structured Doctoral Programme Environmental Sciences and Biodiversity (Doctoral Programme) &gt; Module</li><li>• Structured Doctoral Programme Neurosensory Science and Systems (Doctoral Programme) &gt; Module</li></ul>		
<b>Responsible persons</b>			
<b>Prerequisites</b>			
<b>Skills to be acquired in this module</b>			
<b>Module contents</b>	Development of additional and improved knowledge on transferable skills.		
<b>Recommended reading</b>			
<b>Links</b>			
<b>Languages of instruction</b>	German, English		
<b>Duration (semesters)</b>	1 Semester		
<b>Module frequency</b>	halbjährlich		
<b>Module capacity</b>	unlimited		
<b>Examination</b>	<b>Prüfungszeiten</b>	<b>Type of examination</b>	
<b>Final exam of module</b>		Active participation	
<b>Type of course</b>	Course selection		
<b>SWS</b>	0		
<b>Frequency</b>	SuSe and WiSe		

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## olt201 - Summer School / Congress

<b>Module label</b>	Summer School / Congress			
<b>Module code</b>	olt201			
<b>Credit points</b>	6.0 KP			
<b>Workload</b>	180 h			
<b>Applicability of the module</b>	<ul style="list-style-type: none"> <li>Structured Doctoral Programme Neurosensory Science and Systems (Doctoral Programme) &gt; Module</li> </ul>			
<b>Responsible persons</b>	<ul style="list-style-type: none"> <li>Klump, Georg Martin (module responsibility)</li> <li>Mouritsen, Henrik (module responsibility)</li> </ul>			
<b>Prerequisites</b>	English language skills; Presentation skills;			
<b>Skills to be acquired in this module</b>	Development of competence in the presentation and discussion of research findings in the international context. Obtaining an overview of related research fields. Social skills (networking) in the international scientific community should be developed.			
<b>Module contents</b>	The PhD students participate at summer schools or international congresses. They prepare their own presentation, show their work in the form of posters or oral presentations and discuss their findings with an audience. Since the participation at summer schools and workshops includes the cooperation with scientists from other national and/or international research institutions, the students extend their knowledge and socialise with the scientific community.			
<b>Recommended reading</b>				
<b>Links</b>				
<b>Language of instruction</b>	English			
<b>Duration (semesters)</b>	1 Semester			
<b>Module frequency</b>	unregelmäßig			
<b>Module capacity</b>	unlimited			
Examination	Prüfungszeiten	Type of examination		
<b>Final exam of module</b>	at congresses: active participation with posterpresentation and/or talk at summer schools: active participation			
Type of course	Comment	SWS	Frequency	Workload of compulsory attendance
Lecture		2	SuSe and WiSe	28
Course selection			WiSe	0
<b>Total module attendance time</b>				28 h

## olt202 - Lab visit abroad

<b>Module label</b>	Lab visit abroad	
<b>Module code</b>	olt202	
<b>Credit points</b>	6.0 KP	
<b>Workload</b>	180 h	
<b>Applicability of the module</b>	<ul style="list-style-type: none"> <li>Structured Doctoral Programme Neurosensory Science and Systems (Doctoral Programme) &gt; Module</li> </ul>	
<b>Responsible persons</b>	<ul style="list-style-type: none"> <li>Klump, Georg Martin (module responsibility)</li> </ul>	
<b>Prerequisites</b>		
<b>Skills to be acquired in this module</b>	Development of competence in working in a foreign laboratory or in the field to extend and improve knowledge on sampling and analysis methods with adequate technologies. In addition, social skills (networking, teamwork, cross-cultural competence) should be developed.	
<b>Module contents</b>	The PhD students plan their schedule, prepare their practical work and organize their stay at the laboratory of a foreign research institution.	
<b>Recommended reading</b>		
<b>Links</b>		
<b>Languages of instruction</b>		
<b>Duration (semesters)</b>	1 Semester	
<b>Module frequency</b>	halbjährlich	
<b>Module capacity</b>	unlimited	
<b>Reference text</b>	Please plan the research trip in time.	
<b>Examination</b>	Prüfungszeiten	Type of examination
<b>Final exam of module</b>		oral or written report
<b>Type of course</b>	Course selection	
<b>SWS</b>	0	
<b>Frequency</b>	--	

## olt203 - Special techniques in Neurosensory Science and Systems

<b>Module label</b>	Special techniques in Neurosensory Science and Systems		
<b>Module code</b>	olt203		
<b>Credit points</b>	12.0 KP		
<b>Workload</b>	360 h		
<b>Applicability of the module</b>	<ul style="list-style-type: none"> <li>Structured Doctoral Programme Neurosensory Science and Systems (Doctoral Programme) &gt; Module</li> </ul>		
<b>Responsible persons</b>	<ul style="list-style-type: none"> <li>Klump, Georg Martin (module responsibility)</li> </ul>		
<b>Prerequisites</b>			
<b>Skills to be acquired in this module</b>	<p>Development of improved or additional competences in special scientific techniques including laboratory methodologies as well as analysing, modling and interpreting data.</p> <p>This Module will introduce the recommendations on good scientific practice of the German Science Foundation (DFG), and the official procedures for dealing with scientific misconduct at the University of Oldenburg.</p>		
<b>Module contents</b>	<p>The PhD students extend their knowledge on special scientific techniques or good scientific practice through participating at advanced courses including lectures, seminars or intensive courses. Intensive courses can be part of a summer school.</p>		
<b>Recommended reading</b>			
<b>Links</b>			
<b>Languages of instruction</b>	German, English		
<b>Duration (semesters)</b>	1 Semester		
<b>Module frequency</b>	halbjährlich		
<b>Module capacity</b>	unlimited		
<b>Examination</b>	Prüfungszeiten	Type of examination	
<b>Final exam of module</b>		Active participation	
<b>Type of course</b>	Course selection		
<b>SWS</b>	0		
<b>Frequency</b>	--		



## olt204 - Medical basics of Neurosensory Sciences and Systems

<b>Module label</b>	Medical basics of Neurosensory Sciences and Systems		
<b>Module code</b>	olt204		
<b>Credit points</b>	6.0 KP		
<b>Workload</b>	180 h		
<b>Applicability of the module</b>	<ul style="list-style-type: none"> <li>Structured Doctoral Programme Neurosensory Science and Systems (Doctoral Programme) &gt; Module</li> </ul>		
<b>Responsible persons</b>	<ul style="list-style-type: none"> <li>Kollmeier, Birger (module responsibility)</li> </ul>		
<b>Prerequisites</b>			
<b>Skills to be acquired in this module</b>	Development of additional and improved knowledge on numerous topics of scientific field of medicine. The knowledge of the medical bases of neurosensory should be developed.		
<b>Module contents</b>			
<b>Recommended reading</b>			
<b>Links</b>			
<b>Language of instruction</b>	English		
<b>Duration (semesters)</b>	1 Semester		
<b>Module frequency</b>	halbjährlich		
<b>Module capacity</b>	unlimited		
<b>Examination</b>	<b>Prüfungszeiten</b>	<b>Type of examination</b>	
<b>Final exam of module</b>		Active participation	
<b>Type of course</b>	Course selection		
<b>SWS</b>	0		
<b>Frequency</b>	--		

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## olt205 - Data analysis using Matlab

<b>Module label</b>	Data analysis using Matlab	
<b>Module code</b>	olt205	
<b>Credit points</b>	3.0 KP	
<b>Workload</b>	90 h	
<b>Applicability of the module</b>	<ul style="list-style-type: none"><li>• Structured Doctoral Programme Neurosensory Science and Systems (Doctoral Programme) &gt; Module</li></ul>	
<b>Responsible persons</b>	<ul style="list-style-type: none"><li>• Kretzberg, Jutta (module responsibility)</li></ul>	
<b>Prerequisites</b>		
<b>Skills to be acquired in this module</b>		
<b>Module contents</b>		
<b>Recommended reading</b>		
<b>Links</b>		
<b>Languages of instruction</b>	German, English	
<b>Duration (semesters)</b>	1 Semester	
<b>Module frequency</b>	halbjährlich	
<b>Module capacity</b>	unlimited	
<b>Examination</b>	Prüfungszeiten	Type of examination
<b>Final exam of module</b>		Active participation
<b>Type of course</b>	Seminar	
<b>Frequency</b>		

## olt206 - Journal club

<b>Module label</b>	Journal club	
<b>Module code</b>	olt206	
<b>Credit points</b>	3.0 KP	
<b>Workload</b>	90 h	
<b>Applicability of the module</b>	<ul style="list-style-type: none"> <li>Structured Doctoral Programme Neurosensory Science and Systems (Doctoral Programme) &gt; Module</li> </ul>	
<b>Responsible persons</b>	<ul style="list-style-type: none"> <li>Koch, Karl-Wilhelm (module responsibility)</li> </ul>	
<b>Prerequisites</b>	English language skills	
<b>Skills to be acquired in this module</b>	Development of additional and improved knowledge on specific research areas. Competences in discussing scientific topics and the general outline of a scientific publication should be developed.	
<b>Module contents</b>		
<b>Recommended reading</b>		
<b>Links</b>		
<b>Language of instruction</b>	English	
<b>Duration (semesters)</b>	1 Semester	
<b>Module frequency</b>	halbjährlich	
<b>Module capacity</b>	unlimited	
<b>Examination</b>	Prüfungszeiten	Type of examination
<b>Final exam of module</b>		Active participation and seminar talk.
<b>Type of course</b>	Seminar	
<b>Frequency</b>		

## olt207 - Colloquium Neurosensory Science and Systems

<b>Module label</b>	Colloquium Neurosensory Science and Systems	
<b>Module code</b>	olt207	
<b>Credit points</b>	3.0 KP	
<b>Workload</b>	90 h	
<b>Applicability of the module</b>	<ul style="list-style-type: none"> <li>Structured Doctoral Programme Neurosensory Science and Systems (Doctoral Programme) &gt; Module</li> </ul>	
<b>Responsible persons</b>	<ul style="list-style-type: none"> <li>Klump, Georg Martin (module responsibility)</li> <li>Kollmeier, Birger (module responsibility)</li> <li>Henrichs, Kathrin (module responsibility)</li> <li>Grünberg, Beate (module responsibility)</li> </ul>	
<b>Prerequisites</b>		
<b>Skills to be acquired in this module</b>	Development of scientific knowledge, networking skills and presentation skills.	
<b>Module contents</b>	PhD Students present their research topics and results to other PhD Students and discuss them. PhD Students participate in research seminars and get insight in current research topics.	
<b>Recommended reading</b>		
<b>Links</b>		
<b>Language of instruction</b>	English	
<b>Duration (semesters)</b>	1 Semester	
<b>Module frequency</b>	halbjährlich	
<b>Module capacity</b>	unlimited	
<b>Examination</b>	Prüfungszeiten	Type of examination
<b>Final exam of module</b>		SFB-Research seminar: Active participation Hot Topic Seminar and GK-Colloquium: Active participation with at least one talk or poster presentation
<b>Type of course</b>	Seminar	
<b>Frequency</b>		

## olt208 - Additional module "Specific knowledge"

<b>Module label</b>	Additional module "Specific knowledge"	
<b>Module code</b>	olt208	
<b>Credit points</b>	6.0 KP	
<b>Workload</b>	180 h	
<b>Applicability of the module</b>	<ul style="list-style-type: none"> <li>Structured Doctoral Programme Neurosensory Science and Systems (Doctoral Programme) &gt; Module</li> </ul>	
<b>Responsible persons</b>	<ul style="list-style-type: none"> <li>Henrichs, Kathrin (module responsibility)</li> </ul>	
<b>Prerequisites</b>		
<b>Skills to be acquired in this module</b>	Development of additional and improved knowledge on specific research areas.	
<b>Module contents</b>		
<b>Recommended reading</b>		
<b>Links</b>		
<b>Languages of instruction</b>	German, English	
<b>Duration (semesters)</b>	1 Semester	
<b>Module frequency</b>	halbjährlich	
<b>Module capacity</b>	unlimited	
<b>Reference text</b>	Courses of the modules olt201- olt207 or comparable courses can be accepted	
<b>Examination</b>	Prüfungszeiten	Type of examination
<b>Final exam of module</b>	See description of the module, from which the course was chosen	
<b>Type of course</b>	Course selection	
<b>SWS</b>	0	
<b>Frequency</b>	--	

## olt231 - Advanced presentation techniques

<b>Module label</b>	Advanced presentation techniques	
<b>Module code</b>	olt231	
<b>Credit points</b>	3.0 KP	
<b>Workload</b>	90 h	
<b>Applicability of the module</b>	<ul style="list-style-type: none"> <li>Structured Doctoral Programme Neurosensory Science and Systems (Doctoral Programme) &gt; Module</li> </ul>	
<b>Responsible persons</b>	<ul style="list-style-type: none"> <li>Mouritsen, Henrik (module responsibility)</li> </ul>	
<b>Prerequisites</b>	English language skills; Software PowerPoint	
<b>Skills to be acquired in this module</b>	Development of competences in presenting scientific topics.	
<b>Module contents</b>	<p>Courses on advanced presentation skills provide a practical opportunity to enhance current presentation skills and add finesse to the delivery of presentations. The training looks at how to make a presentation persuasive and includes structuring and designing of contributions for conferences, self-evaluation and body language.</p> <p>Other courses of this module focus on voice training for improving economic breathing and for generating an accurate pronunciation or on the formation of strategic networks in the community as key for successful careers in science and industry.</p> <p>The generation of knowledge on the use of special equipment and techniques or the design of a web page for presenting research findings are also included in this module.</p>	
<b>Recommended reading</b>		
<b>Links</b>		
<b>Languages of instruction</b>		
<b>Duration (semesters)</b>	1 Semester	
<b>Module frequency</b>	halbjährlich	
<b>Module capacity</b>	unlimited	
<b>Examination</b>	<b>Prüfungszeiten</b>	<b>Type of examination</b>
<b>Final exam of module</b>		Active participation: Assessment of a poster and/or assessment of two talks.
<b>Type of course</b>	Course selection	
<b>SWS</b>	0	
<b>Frequency</b>	WiSe	

## olt232 - Summer School / Congress

<b>Module label</b>	Summer School / Congress	
<b>Module code</b>	olt232	
<b>Credit points</b>	4.0 KP	
<b>Workload</b>	120 h	
<b>Applicability of the module</b>	<ul style="list-style-type: none"> <li>Structured Doctoral Programme Neurosensory Science and Systems (Doctoral Programme) &gt; Module</li> </ul>	
<b>Responsible persons</b>	<ul style="list-style-type: none"> <li>Klump, Georg Martin (module responsibility)</li> <li>Mouritsen, Henrik (module responsibility)</li> </ul>	
<b>Prerequisites</b>	English language skills, presentation skills	
<b>Skills to be acquired in this module</b>	Development of competence in the presentation and discussion of research findings in the international context. Obtaining an overview of related research fields. Social skills (networking) in the international scientific community should be developed.	
<b>Module contents</b>	The PhD students participate at summer schools or international congresses. They prepare their own presentation, show their work in the form of posters or oral presentations and discuss their findings with an audience. Since the participation at summer schools and workshops includes the cooperation with scientists from other national and/or international research institutions, the students extend their knowledge and socialise with the scientific community.	
<b>Recommended reading</b>		
<b>Links</b>		
<b>Language of instruction</b>	English	
<b>Duration (semesters)</b>	1 Semester	
<b>Module frequency</b>	halbjährlich	
<b>Module capacity</b>	unlimited	
<b>Reference text</b>	Module should be attended: At any time of the PhD work	
<b>Examination</b>	Prüfungszeiten	Type of examination
<b>Final exam of module</b>		at congresses: active participation with posterpresentation and/or talk at summer schools: active participation
<b>Type of course</b>	Course selection	
<b>SWS</b>	0	
<b>Frequency</b>	--	

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## olt233 - Didactics

<b>Module label</b>	Didactics	
<b>Module code</b>	olt233	
<b>Credit points</b>	6.0 KP	
<b>Workload</b>	180 h	
<b>Applicability of the module</b>	<ul style="list-style-type: none"><li>Structured Doctoral Programme Neurosensory Science and Systems (Doctoral Programme) &gt; Module</li></ul>	
<b>Responsible persons</b>		
<b>Prerequisites</b>		
<b>Skills to be acquired in this module</b>		
<b>Module contents</b>		
<b>Recommended reading</b>		
<b>Links</b>		
<b>Languages of instruction</b>		
<b>Duration (semesters)</b>	1 Semester	
<b>Module frequency</b>		
<b>Module capacity</b>	unlimited	
<b>Examination</b>	Prüfungszeiten	Type of examination
<b>Final exam of module</b>		BE
<b>Type of course</b>	Seminar	
<b>Frequency</b>		

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## olt261 - Basics in distribution-free statistics

<b>Module label</b>	Basics in distribution-free statistics	
<b>Module code</b>	olt261	
<b>Credit points</b>	3.0 KP	
<b>Workload</b>	90 h	
<b>Applicability of the module</b>	<ul style="list-style-type: none"> <li>Structured Doctoral Programme Neurosensory Science and Systems (Doctoral Programme) &gt; Module</li> </ul>	
<b>Responsible persons</b>	<ul style="list-style-type: none"> <li>Klump, Georg Martin (module responsibility)</li> <li>Langemann, Ulrike (Module counselling)</li> </ul>	
<b>Prerequisites</b>		
<b>Skills to be acquired in this module</b>	Basics in distribution-free statistics	
<b>Module contents</b>	Basic concepts of distribution-free statistics are introduced to the PhD student. Includes exercises.	
<b>Recommended reading</b>		
<b>Links</b>		
<b>Language of instruction</b>	English	
<b>Duration (semesters)</b>	1 Semester	
<b>Module frequency</b>	halbjährlich	
<b>Module capacity</b>	unlimited	
<b>Examination</b>	Prüfungszeiten	Type of examination
<b>Final exam of module</b>		Active participation
<b>Type of course</b>	Seminar	
<b>Frequency</b>		

## olt262 - Experimental design and variance analysis

<b>Module label</b>	Experimental design and variance analysis			
<b>Module code</b>	olt262			
<b>Credit points</b>	3.0 KP			
<b>Workload</b>	90 h			
<b>Applicability of the module</b>	<ul style="list-style-type: none"> <li>Structured Doctoral Programme Neurosensory Science and Systems (Doctoral Programme) &gt; Module</li> </ul>			
<b>Responsible persons</b>	<ul style="list-style-type: none"> <li>Colonus, Hans (module responsibility)</li> </ul>			
<b>Prerequisites</b>				
<b>Skills to be acquired in this module</b>	<p>Students should:</p> <ul style="list-style-type: none"> <li>understand the basic logic of statistical inference and experimental designs</li> <li>and be able to correctly interpret empirical statistical results;</li> <li>become familiar with the most common types of analysis of variance and experimental designs,</li> <li>be able to develop an appropriate experimental design for a given research question,</li> <li>and be able to correctly perform the statistical analyses of empirical data.</li> </ul>			
<b>Module contents</b>	<p>Principles of statistical inference, principals of analysis of variance; Contrasts and comparisons among means; single- and two-factor independent group designs; repeated measures designs; multivariate statistical methods</p> <p>Lecturers give input on basic and special topics of experimental designs and analysis of variance</p> <p>Data are analysed in class using SPSS and/or R.</p> <p>Students work in groups in order to prepare a statistical analysis on self-collected data. This is presented and the analysis is carried out by the participants in class.</p>			
<b>Recommended reading</b>				
<b>Links</b>				
<b>Language of instruction</b>	English			
<b>Duration (semesters)</b>	1 Semester			
<b>Module frequency</b>	halbjährlich			
<b>Module capacity</b>	unlimited			
<b>Examination</b>	<b>Prüfungszeiten</b>		<b>Type of examination</b>	
<b>Final exam of module</b>			Active participation	
Type of course	Comment	SWS	Frequency	Workload of compulsory attendance
Lecture		2	WiSe	28
Seminar				
Tutorial		2	SuSe and WiSe	28
<b>Total module attendance time</b>				56 h

## olt263 - Numeric and computer Skills

<b>Module label</b>	Numeric and computer Skills	
<b>Module code</b>	olt263	
<b>Credit points</b>	3.0 KP	
<b>Workload</b>	90 h	
<b>Applicability of the module</b>	<ul style="list-style-type: none"> <li>Structured Doctoral Programme Neurosensory Science and Systems (Doctoral Programme) &gt; Module</li> </ul>	
<b>Responsible persons</b>	<ul style="list-style-type: none"> <li>Hohmann, Volker (module responsibility)</li> </ul>	
<b>Prerequisites</b>		
<b>Skills to be acquired in this module</b>	Students acquire theoretical knowledge of basic numerical methods and practical skills to apply these methods on physical problems within all areas of experimental, theoretical and applied physics.	
<b>Module contents</b>	Basic concepts of numerical mathematics are introduced and applied to physics problems. Topics include: finite number representation and numerical errors linear and nonlinear systems of equations numerical differentiation and integration function minimization and model fitting discrete Fourier analysis ordinary and partial differential equations.	
<b>Recommended reading</b>		
<b>Links</b>		
<b>Language of instruction</b>	German	
<b>Duration (semesters)</b>	1 Semester	
<b>Module frequency</b>	halbjährlich	
<b>Module capacity</b>	unlimited	
<b>Reference text</b>	Language: English materials, including extensive script, tutorials in English; lecture in German	
	Module should be attended: At any time during the PhD project	
<b>Examination</b>	<b>Prüfungszeiten</b>	<b>Type of examination</b>
<b>Final exam of module</b>		Active participation
<b>Type of course</b>	Course selection	
<b>SWS</b>	0	
<b>Frequency</b>	--	

## olt264 - Scientific publishing

<b>Module label</b>	Scientific publishing	
<b>Module code</b>	olt264	
<b>Credit points</b>	6.0 KP	
<b>Workload</b>	180 h	
<b>Applicability of the module</b>	<ul style="list-style-type: none"> <li>Structured Doctoral Programme Neurosensory Science and Systems (Doctoral Programme) &gt; Module</li> </ul>	
<b>Responsible persons</b>	<ul style="list-style-type: none"> <li>Thiel, Christiane Margarete (module responsibility)</li> <li>Klump, Georg Martin (Module counselling)</li> <li>Kollmeier, Birger (Module counselling)</li> <li>van de Par, Steven (Module counselling)</li> </ul>	
<b>Prerequisites</b>	English language skills, PhD Studets should have data to publish.	
<b>Skills to be acquired in this module</b>	Development of competences in scientific writing for publishing in international peer-reviewed scientific journal.	
<b>Module contents</b>	The students learn about the importance and structure of scientific publications. For wirting their own (first) publication the PhD Students work together in tandems, small teams or intensive writing classes.	
<b>Recommended reading</b>		
<b>Links</b>		
<b>Language of instruction</b>	English	
<b>Duration (semesters)</b>	1 Semester	
<b>Module frequency</b>	halbjährlich	
<b>Module capacity</b>	unlimited	
<b>Reference text</b>	Events of this module including dates and locations: According to agreement with lecturers	
<b>Examination</b>	Prüfungszeiten	Type of examination
<b>Final exam of module</b>		skript to publish
<b>Type of course</b>	Seminar	
<b>Frequency</b>		

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## olt209 - Laboratory Animal Science

<b>Module label</b>	Laboratory Animal Science	
<b>Module code</b>	olt209	
<b>Credit points</b>	3.0 KP	
<b>Workload</b>	90 h	
<b>Applicability of the module</b>	<ul style="list-style-type: none"><li>Structured Doctoral Programme Neurosensory Science and Systems (Doctoral Programme) &gt; Module</li></ul>	
<b>Responsible persons</b>		
<b>Prerequisites</b>		
<b>Skills to be acquired in this module</b>		
<b>Module contents</b>		
<b>Recommended reading</b>		
<b>Links</b>		
<b>Language of instruction</b>	English	
<b>Duration (semesters)</b>	1 Semester	
<b>Module frequency</b>	jährlich	
<b>Module capacity</b>	unlimited	
<b>Examination</b>	<b>Prüfungszeiten</b>	<b>Type of examination</b>
<b>Final exam of module</b>		Webbasierte schriftliche Prüfung und aktive Teilnahme am praktischen Teil des Moduls
<b>Type of course</b>	Seminar	
<b>SWS</b>	2	
<b>Frequency</b>	SuSe or WiSe	
<b>Workload attendance time</b>	28 h	

