

**Module variant to: Advanced Biodiversity, Evolution and Ecology**

<b>Module: Evolutionary Parasitology</b>			
<b>University/Department/Teaching Unit:</b> Freie Universität Berlin/Department of Biology, Chemistry, Pharmacy/Biology			
<b>Module coordinator:</b> Sophie Armitage			
<b>Prerequisites:</b> none			
<b>Learning objectives:</b> After completing the module, the students will have in-depth knowledge of host-parasite co-evolution, virulence evolution, host defences, parasite life histories and how to conduct evolutionary experiments. Moreover they will know examples how evolutionary approaches help in tackling applied issues related to health and food security			
<b>Content:</b> The course will introduce parasitic systems and some other symbioses, within the context of evolution, ecology, parasitology and immunology. It will involve delving into the theoretical background related to parasitic organisms, the development of hypotheses and experiments designed to test these hypotheses, and practical experience with host-parasite systems.			
<b>Modes of instruction</b>	<b>Contact hours</b> (hours per week during the semester)	<b>Types of active participation</b>	<b>Workload</b> (in hours)
Lecture (V)	2	–	Class attendance (lecture) 30 Preparation, before and after (lecture) 30
Seminar (S)	1	Presentation and discussion	Class attendance (seminar) 15 Preparation, before and after (seminar) 30
Safety Lab (sP)	5	Carrying out and documenting experiments in the lab	Class attendance (safety lab) 75 Preparation, before and after (safety lab) 40 Exam preparation and exam 80
<b>Module assessment</b>		Written exam (60 minutes), wholly or partially in multiple-choice format; can also be carried out electronically or written report on research results (approx. 10 pages) or examination colloquium (approx. 20 minutes)	
<b>Language</b>		English	
<b>Regular attendance required</b>		Seminar and safety lab: yes, lecture: attendance strongly recommended	
<b>Total workload</b>		300 hours	10 credit points
<b>Duration</b>		one semester	
<b>Frequency</b>		irregular	
<b>Applicability</b>		Master's degree program M.Sc. Biology; Master's degree program M.Sc. Biodiversity, Evolution and Ecology	

Utilization in the following specializations (decision by the examining board):

Biodiversity, Evolution and Ecology	X
Genetics and Genomics	
Microbiology	X
Molecular- and Cellular Biology	
Molecular Plant Sciences	
Neurobiology	
Biology	X