FORMAL REQUIREMENTS AND ADMINISTRATION OF DOCTORAL STUDIES

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Ph.D. programme: Ecological and Evolutionary Biology (Ekologická a evoluční biologie)

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General outline:

- Semesters 1-4 (first 2 years of study): students work on their research project and fulfil other requirements (i.e., theoretical courses, preparing for state doctoral exam, teaching assistance)
- End of 4th semester: SDE (State Doctoral Exam)*
- Semesters 5-8: main focus on research (work on doctoral project and thesis, publications, presentations at conferences, etc.)

General requirements for all students in the programme (please see detailed requirements for the Individual Study Plan in this table):

Mandatory duties: checked by Dean's Office

XD100	Ph.D. thesis / Příprava dizertační práce	Enrolled every semester during the entire studies; recommended 20-25 ECTS for semesters 1-4, 30 ECTS
		for semesters 5-8, 20 ECTS for semesters 9 +
Bi0807	Zoological or Botanical seminar and one of	Enrolled in semesters 1-8 (except during stays abroad)
or	the specialized seminars	Select one of the specialized seminars: Bi9666 or Bi9678 (Botanical), Bi7801 (Hydrobiological), Bi5027
Bi9656		(Evertebratological), Bi6479 (Parasitological), Bi4007 (Vertebratological)
C7777	Handling chemical substances	Enrolled every year of studies, every autumn semester
	/ Zacházení s chemickými látkami	
XD102	Teaching Assistance / Pomoc při výuce	Enrolled 4-times in semesters 1-4, maximum 150 hours in total (recommended 0 ECTS)
XD106	Lecture in the foreign language	Minimum once during studies (recommended 0 ECTS)
	/ Odborná přednáška v cizím jazyce	
XD110	Placement Abroad / Zahraniční pracovní	Minimum 2 months in total (usually 5 ECTS/month), requirement given by the law
	pobyt	Instructions for recognition of Placement Abroad (the recognition is done via IS application Internship
		and Stays, by creating record of the stay and request for recognition; the course is then registered by
		Dean's Office): https://www.sci.muni.cz/en/students/go-abroad/recognition-of-stay-abroad

Theoretical courses and all other requirements: checked by the Head of Specialization Board / Head of Doctoral Committee

• minimum 4 courses during semesters 1-4 with corresponding ECTS (before SDE)

(*) Requirements for theoretical SDE:

Theoretical preparation for SDE (in the middle of standard study duration). The Examining committee will check following aspects:

1/ proficiency in the fundamentals of the broader scientific discipline, i.e. research of interaction between environment and health (20% weight)

2/ deep understanding of the particular scientific specialization (30% weight)

3/ detailed knowledge within the topic(s) of the doctoral research project including context (50% weight)

Individual study plan elements		Milestones				
		Enrolment to studies	End of Semester 1	End of Semester 4	End of Semester 8	
		(Before semester 1)		(Theoretical State Doctoral	(Preparation for PhD defence)	
				Exam, SDE *)		
(A)	1. Research, dissertation	Define framework topic	Detailed study plan for	Prepare the review of the	Submit PhD thesis according to	
Research and	project, literature search	of your PhD project with	your PhD work needs to be	study topic (about 10 pages;	instructions of Doctoral Board,	
development	of the actual state of the	your supervisor for	filled in IS.MUNI. Define	text may later be used as an	format according to SCI MUNI	
activities (ca.	topic, planning and the	enrolment. Should	main goals, timeline of	Introduction-Background to	requirements.	
50% of	scientific activities itself	contain the background,	foreseen activities,	the final PhD thesis). Should		
workload).	(20%).	research hypothesis and	including data collection,	optimally be written during	CHECK: Dean's office	
		objectives, approach-	methods, presentations,	the first year, depending on		
		methods, timeline of	expected outcomes	the supervisor's		
		foreseen activities,	(publications).	recommendation, but has to		
		expected outcomes		be delivered to the Chair of		
		(publications).	CHECK: Supervisor,	the examination committee		
			Specialization board head	at least a week before the		
		CHECK: Doctoral Board	or selected members of the	State Doctoral Exam.		
		and boards of all	Specialization board			
		specializations [entrance		CHECK: Supervisor,		
		competition]		Examining committee [SDE		
				assessment]		
		C7777 - every year of				
		study, every autumn				
		semester				
		- CHECK: Dean's office				



	2. Publications (theses should be based on three products demonstrating quality and scientific creativity of the student) (15%)	No formal check needed.		No formal check needed. Publications of the student may be included in the review of the study topic for SDE (if relevant).	Minimum criteria: two papers published or accepted in IF- journal (ISI WOS) and one manuscript submitted; at two out of these the candidate is the first author; all are related to the dissertation topic. CHECK: Supervisor, Defence committee [Thesis].
	3. Presentation of results on scientific seminars, symposia, conferences etc., including preparation of talks and/or poster presentations (5%).	No formal check needed.	Introduction of the PhD project at Zoological or Botanical seminar. No formal check needed. CHECK: Student	No formal check needed. List of presentations may be included in the review of the study topic for SDE (if relevant).	At minimum one documented oral presentation in English at an international conference. CHECK: Dean's office [XD106]
(B) Specialized courses and theoretical preparation (20%).	4. Theoretical courses, preparation to the state doctoral exam - SDE (15%).	To identify student's knowledge gaps and what should be learned for SDE. Plan corresponding courses, trainings for the first two years. Consider courses at MU or outside. Minimum 4 credited courses are required. Selection can be changed/updated for each semester. CHECK: Supervisor	No formal check needed.	Successfully pass at least 4 credited theoretical courses. CHECK: Specialization Board [IS.MUNI] Have all the other requirements fulfilled and submit the application to theoretical SDE (Doctoral Board organizes SDE further).	Not relevant anymore, all requirements fulfilled before.



	5. Doctoral seminars (5%)	Zoological or Botanical seminar and specialized seminars (obligatory for 8 semesters). CHECK: Student	No formal check needed.	CHECK: Dean's office [two seminars in each semester; choice of seminars based on supervisor's recommendations]	Get credits for two seminars per semester for all semesters when student works at MU in Brno. Semesters when student is at international stay abroad are excluded. CHECK: Dean's office [IS.MUNI]
(C) International experience and competitiven ess (20%).	6. Further improving of English competences (attending courses, seminars, conferences, writing publications, all in English). (5%)	No formal check needed.	No formal check needed.	No formal check needed.	No formal check needed
	7. Stay or internship abroad - mandatory participation in international cooperation. (15%)	No formal check needed.	No formal check needed.	No formal check needed.	Minimum is a two-month foreign stay, longer stays (3+ months) are preferred considering the topic. CHECK: Dean's office [stay abroad in IS; e.g. XD110]
(D) Pedagogical competences (10%).	8. Teaching assistance - classrooms, exercises, advising undergrad students and comparable.	Up to 150 hours through the entire doctoral studies. Passed during the first four semesters. CHECK: Student, Guarantors of respective courses	No formal check needed.	CHECK: Dean's office [IS; XD102 for 4 semesters]	Not relevant anymore, all requirements fulfilled before.
(E) Other transferrable skills.	9. Career development - preparation and management of projects, scientific writing, communication, other soft-skills.	No formal check needed.	No formal check needed.	No formal check needed. Up to student's choice; can be included in the review of the study topic for SDE.	No formal check needed.



Recommended theoretical courses based on supervisor's recommendations:

In the field of botany, zoology, hydrobiology, parasitology, ecology, palaeoecology, statistical analyses, and the others select preferentially from the master programs of Botany and Zoology; see: https://is.muni.cz/predmety/studijni_plan?plan_id=24806 https://is.muni.cz/predmety/studijni_plan?plan_id=24806