

Department of Genetics
 Field of study: Genetics
 Degree: M.Sc.

Obligatory courses (13 weeks per semester)

Name of the course	Teachers	Year/Semester (W=winter; S=summer)	hour per week	Lecture (L) Practicals (P) Seminar (S)	Credits
Molecular biology of the cell (1) - Principles of cell regulations	Tomáška, Nosek, Neboháčová, Zeman	1/W	4	L	6
Advanced genetics (1) - Gene mapping and ontogenetics	Slaninová, Džugasová, Gregáň, Gálová, Švec, Ševčovičová, Sepšiová, Mentelová, Celec	1/W	4	L	6
Advanced practicals in genetics (1)	Sepšiová, Slaninová, Višacká, Gaplovská, Džugasová, Dušinský, Gálová, Ševčovičová	1/W	4	P	4
Diploma thesis practicals (1)	supervisors of the diploma theses	1/W	4	P	2
Seminar 1 - How to prepare a grant proposal	Mentelová, Sepšiová	1/W	2	S	2
Molecular biology of the cell (2) - Biogenesis of cellular compartments	Polčic, Mentel, Nosek, Valent, Tomáška	1/S	4	L	6
Advanced genetics (2) - Mutagenesis and genotoxicology	Miadoková, Ševčovičová, Piršel, Chovanec, Matúšková	1/S	4	L	6
Genomics	Nosek, Neboháčová, Tomáška, Valent, Kollár	1/S	2	L	3
Advanced practicals in genetics (2)	Višacká, Ševčovičová, Džugasová, Mentelová	1/S	4	P	4
Diploma thesis practicals (2)	supervisors of the diploma theses	1/S	4	P	2
Seminar 2 - How to write a scientific manuscript	Džugasová	1/S	2	S	2
Pre-diploma training	supervisors of the diploma theses	1/S	3 weeks	P	5
Advanced genetics (3) – Population, quantitative and behavioral genetics	Dušinský, Švec, Tomáška, Celec, Žitňan, Bilčík	2/W	4	L	6
Diploma project (1)	supervisors of the diploma theses	2/W	14	P	8
Special seminar to diploma thesis	supervisors of the diploma theses	2/W	2	S	2
Advanced seminar (1) - Critical reading of scientific papers	Slaninová	2/W	2	S	2
Selected topics from genetics	Dušinský	2/W	2	L	3
Diploma project (2)	supervisors of the diploma theses	2/S	18	P	14
Special seminar to diploma thesis (2)	supervisors of the diploma theses	2/S	2	S	2
Advanced seminar (2) - Poster presentations	Tomáška	2/S	2	S	2

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Facultative courses (13 weeks per semester)

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		(W=winter; S=summer)		Practicals (P) Seminar (S)	
Introduction to molecular biology	Tomáška	1/W	2	L	3
Seminar from molecular biology of the cell (1)	Gaplovská, Sepšiová, Neboháčová	1/W	2	S	2
Cell and molecular biology of yeasts	Džugasová	1/W	2+2	L+P	5
Seminar from molecular biology of the cell (2)	Polčic, Višacká	1/S	2	S	2
Human molecular genetics	Kádaši, Ficek	1/S	2+3	L+P	6
Methods in bioinformatics	Brejová, Vinař	1-2/W	2+2	L+P	6
Seminar in bioinformatics (1)	Vinař	1-2/W	2	S	5
Seminar in bioinformatics (2)	Brejová, Vinař	1-2/S	2	S	5

Final exams

Subject	Credits
Defence of the diploma thesis	10
Oral exam:	5
Advanced genetics	
Advanced molecular biology	
One of the following subjects:	
Molecular biology and genetics of prokaryotes	
Molecular biology and genetics of plants	
Molecular biology and genetics of animals	