

Course Title	ECTS Credit	Contact Hours	Course Prerequisites	Semester I	Semester II	Semester III	Semester IV	Lecture	Status
<b>Required courses (24 credits)</b>									
Contemporary research in ecology and biodiversity	6	38		x				N.Kopaliani, o.Abdaladze, D.Tarkhnishvili	req'd
Master seminar	6	52	Contemporary research in ecology and biodiversity		x			All person involved in learning processes	req'd
Statistics for Biologists	6	44		x	x	x		D.Tarkhnishvili, A.gavashelishvili. L. Mumladze	req'd
Applied Statistics using R software		32		x	x	x		A.gavashelishvili.	req'd
Basics of R and Statistics for Ecologists		44		x	x	x		L. Mumladze	req'd
Synecology	6	34		x				O.Abdaladze	req'd
<b>Communication block - 6 credits</b>									
Academic Writing	6	32				x		L.Mumladze	elec.
Effective Scientific Communications: Science Writing	6	48	B2 level -English Language		x			C. Anderson	elec.
<b>Block: Animal Ecology - Minimum 12 credits</b>									
Ecology of Behavior	6	44			x			N.Kopaliani	elec.
Ichthyology	6	40				x		B.Japoshvili	elec.
Wildlife Management	6	42				x		Z.Javakhishvili	elec.
Theriology (Diversity and Research of Mammals)	6	32				x		N.Kopaliani	elec.
Cave Ecology	6	51		x				SH.Barjadze	elec.
Entomology	6	32			x			SH.Barjadze	elec.
Ornithology	6	60			x			Z.Javakhishvili	elec.

<b>Block: Plant Ecology - Minimum 12 credits</b>									
Field Practice in Plant Ecology	6	74			x			O.Abdaladze. Z.Asanidze. M. Mosulishvili. Q.Batsatsashvili. Z.Ekhvaia. T.Jolokhava	elec.
Woody Plants of Georgia (Dendrology)	6	36				x		M.Mosulishvili	elec.
Ethnobotany and Ethnobiology of the Caucasus	6	32	B2 level -English Language	x				Z.Kikvidze. R.Busmani. Sh.Sikharulidze	elec.
Higher Plant Systematics	6	38			x			M.Mosulishvili	elec.
Plant Genetic Diversity Methods	6	32	Molecular-Genetic Research Methods in Ecology			x		Z.Ekhvaia	elec.
Vegetation of Georgia	6	58			x			O.Abdaladze	elec.
Community Ecology (Biocoenology): Interactions among the Organisms and their Distribution In space	6	34	Statistics for Biologists; Synecology		x			Z.Kikvidze	elec.
Plant Functional Ecology	6	32	Contemporary research in ecology and biodiversity		x			O.Abdaladze	elec.
Plant identification and Habitats Floristic Assessment in the Caucasus	6	66		x				D.Tchelidze; Vasil Metreveli	elec.
Qualitative and Quantitative Ethnobotany (ENG)	6	32	English Language B2 Level	x				Rainer W. Bussmann,	elec.
<b>Environmental Block - Minimum 18 credits</b>									
Environment and Sustainable Development	6	32	Contemporary research in ecology and biodiversity				x	K.Ugrekheldze, I.Akobia	elec.
Scientific Research in Wildlife Conservation and Management	6	46			x			Z.Javakhishvili	elec.
Conservation of Species	6	38	Contemporary research in ecology and biodiversity; Wildlife Management				x	Z.Gurielidze	elec.
Environmental Impact Assessment by Bioindicators	6	44					x	B.Japoshvili. Q.Batsatsashvili	elec.
Marine Ecosystems	6	32	Contemporary research in ecology and biodiversity;			x		Z.Gurielidze	elec.
Ecological Perspectives of Climate Global Changes	6	32	Contemporary research in ecology and biodiversity;			x		KH.Gigauri	elec.
Policy, Planning and Management of Protected Territories	6	42			x			Z.Javakhishvili	elec.
Nature and Forest economics	6	34	B1 level -English Language		x			N.Gobronidze, V.Metreveli; F. Carbone	elec.
Impact Assessment	6	32	Contemporary research in ecology and biodiversity;			x		M.Gvilava	elec.

<b>Methodological block - Minimum 12 credits</b>									
Spatial Analysis in Ecology	6	32			x	x		A.Gavashelishvili	elec.
Methods of Animal Research/Monitoring	6	32			x			Z.Gurielidze	elec.
Molecular-Genetic Research Methods in Ecology	6	38	Contemporary research in ecology and biodiversity		x			M.Murtskhvaladze	elec.
Field Methods of Biodiversity Assessment	6	64	Contemporary research in ecology and biodiversity;		x			D.Tarkhnishvili; G. Iankoshvili	elec.
Taxonomic, Molecular, and Geophysical Drivers of Biodiversity (and biodiversity research) in the Caucasus	6	34			x		x	D.Tarkhnishvili; M.Murtskhvaladze . C.Anderson	elec.
<b>Elective courses - maximum 12 credits *</b>									
Population Biology and Genetics	6	32	Contemporary research in ecology and biodiversity; Statistics for Biologists		x			D.Tarkhnishvili	elec.
Introduction to Forest Sciences	6	56		x				K.Ugrekheldze	elec.
Quantitative Analysis of Biodiversity	6	32				x		L.Mumladze	elec.
Environmental Modeling	6	42	Statistics for Biologists;			x		L.Mumladze	elec.
Evolutionary Research Methods	6	36	Population Ecology and Genetics			x		D,Tarkhnishvili. C.Anderson	elec.
Arrangement of Scientific Activity and Presentation of Research Results	6	32	Contemporary research in ecology and biodiversity;			x		Z.Asanidze	elec.
Special Course in English Language for Bio Scientists	6	47	B1 level -English Language		x			M.Sepashvili	elec.
Bioinformatic analysis in Evolutionary Genomics	6	32		x				Oleksiy (Alexey) Yanchukov	elec.
<b>Master Thesis</b>	24		<b>Master Seminar; 1 course from communication block</b>				x	<b>All professors and lecturers involved in the program</b>	
* Instead of elective course, the student has the right to take additional courses from other blocks, except the communication and required block									