MINISTÉRIO DA EDUCAÇÃO
UNIVERSIDADE FEDERAL DE OURO PRETO
PRÓ-REITORIA DE GRADUAÇÃO

UFOP

COURSE OF BIOLOGICAL SCIENCE - 2026/2(curriculum 4)

OURO PRETO'S CAMPUS

CODE	MANDATORY DISCIPLINES	PREREQUISITE	SWL/EWL	CWL	CLASSES		SEM
					T	P	
BEV278	INTRODUCTION TO PHYLOGENETIC SYSTEMATIC		30/0	36	2	0	1
CBI011	CONCEPTS IN BIOTECHNOLOGY AND HEALTH		30/0	36	2	0	1
CBI270	CELL BIOLOGY		45/0	54	2	1	1
CSO117	RESEARCH METHODOLOGY		30/0	36	2	0	1
GEO110	GENERAL GEOLOGY		45/0	54	3	0	1
MTM141	MATHEMATICS APPLIED TO BIOLOGICAL SCIENCES		60/0	72	4	0	1
QUI309	GENERAL CHEMISTRY		30/0	36	2	0	1
QUI310	EXPERIMENTAL GENERAL CHEMISTRY		30/0	36	0	2	1
BEV281	PLANT MORPHOLOGY		60/0	72	2	2	2
BEV302	INVERTEBRATE ZOOLOGY I	CBI270	60/0	72	2	2	2
CBI271	BIOCHEMISTRY		90/0	108	6	0	2
CBI272	GENERAL HISTOLOGY	CBI270	60/0	72	2	2	2
EST211	BIOSTATISTICS	MTM141	60/0	72	4	0	2
FIS120	PHYSICS APPLIED TO BIOLOGY	MTM141	60/0	72	3	1	2
BEV280	SYSTEMATICS OF ALGAE AND FUNGI	BEV278	30/0	36	1	1	3
BEV282	GENETICS	CBI270	60/0	72	2	2	3
BEV303	INVERTEBRATE ZOOLOGY II	BEV302	60/0	72	2	2	3
CBI114	HUMAN ANATOMY	CBI272	60/0	72	2	2	3
CBI237	DEVELOPMENTAL BIOLOGY	CBI270 CBI272	60/0	72	2	2	3
CBI279	COMPARATIVE IMUNOLOGY	CBI271	30/0	36	2	0	3
EST212	BIOSTATISTICS I	EST211	60/0	72	2	2	3
BEV277	FUNDAMENTALS OF ECOLOGY I		60/0	72	2	2	4
BEV283	PLANT SYSTEMATICS	BEV278 BEV281	60/0	72	2	2	4
BEV285	VERTEBRATE ZOOLOGY		60/0	72	2	2	4
CBI149	BASIC PHYSIOLOGY	CBI114	60/0	72	2	2	4
CBI275	PARASITES AND VECTORS BIOLOGY		60/0	72	3	1	4
CBI277	BIOLOGY OF MICROORGANISMS	CBI279	60/0	72	2	2	4
GEO247	PALEONTOLOGY	GEO110	45/0	54	2	1	4
BEV111	PLANT ECOPHYSIOLOGY	BEV281 CBI271	30/0	36	2	0	5
BEV112	METHODS IN PLANT ECOPHYSIOLOGY	BEV281 CBI271	30/0	36	0	2	5
BEV113	MARINE BIOLOGY	BEV277 BEV281 BEV303	30/0	36	2	0	5
BEV137	EXPERIMENTAL MARINE BIOLOGY	BEV277 BEV281 BEV303	45/0	54	0	3	5
BEV279	FUNDAMENTALS OF ECOLOGY II	BEV277	60/0	72	2	2	5
BEV289	EVOLUTION	BEV282	60/0	72	4	0	5
CBI281	MOLECULAR BIOLOGY	CBI271	45/0	54	3	0	5
CBI063	BIOSAFETY		30/0	36	2	0	5
CBI064	SPECIAL TOPICS IN BIOMOLECULES	CBI271	60/0	72	4	0	5
CBI065	TOPICS IN BIOLOGICAL SCIENCES: BIOCHEMISTRY, PHYSIOLOGY, MORPHOLOGICAL SCIENCES AND PATHOLOGY.		60/0	72	4	0	5
CBI066	TOPICS IN BIOLOGICAL SCIENCES: MICROBIOLOGY, IMMUNOLOGY, PARASITOLOGY AND MOLECULAR BIOLOGY.		60/0	72	4	0	6
CBI067	PHYSIOLOGY APPLIED TO HEALTH RESEARCH	CBI149	60/0	72	4	0	6
CBI068	SYSTEMATIC HISTOLOGY	CBI272	60/0	72	2	2	6
CBI069	MICROORGANISMS AND BIOTECHNOLOGY	CBI277	60/0	72	4	0	6
CBI070	IMMUNOLOGY	CBI271	30/0	36	2	0	6
CBI071	TOPICS IN METABOLISM AND REDOX PROCESS	CBI149 CBI271	30/0	36	2	0	6
CBI072	GENERAL PATHOLOGY		60/0	72	2	2	7
CBI073	INNOVATION AND ENTREPRENEURSHIP IN BIOTECHNOLOGY		60/0	72	2	2	7
CBI074	MOLECULAR TOOLS APPLIED TO BIOTECHNOLOGY	CBI271	30/0	36	0	2	7
CBI075	ANIMAL CELL CULTURE TECHNOLOGY	CBI068	30/0	36	2	0	7

SWL – SEMESTER WORKLOAD IN HOURS; EWL – EXTENSION WORKLOAD IN HOURS; CWL - 50 MINUTE CLASS WORKLOAD; P - PRACTICAL CLASSES; T - THEORY CLASSES; SEM - SEMESTER

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CODE	MANDATORY DISCIPLINES	PREREQUISITE	SWL/EWL	CWL	CLASSES		SEM
					T	P	
CBI076	BIOINFORMATICS: CONCEPTS AND APPLICATIONS	CBI271	60/0	72	2	2	7
CBI260	RESEARCH SEMINARS AND UNDERGRADUATE THESIS I		180/0	216	2	10	7
CBI077	INFECTIOUS AND PARASITIC DISEASES	CBI275 CBI277	60/0	72	2	2	8
CBI261	RESEARCH SEMINARS AND UNDERGRADUATE THESIS II	CBI260	180/0	216	2	10	8
CBI280	SCIENCES LAB	CBI272	90/0	108	2	4	8
BEV114	ANGIOSPERMS TAXONOMY	BEV283	30/0	36	1	1	5
BEV115	INTRODUCTION TO BEHAVIOURAL ECOLOGY	BEV285	60/0	72	2	2	5
BEV116	POPULATION GENETICS	BEV282	60/0	72	2	2	5
AMB201	ENVIRONMENTAL IMPACT AND MANAGEMENT	BEV277	60/0	72	2	2	6
BEV117	ECOLOGICAL PLANT ANATOMY	BEV281	60/0	72	2	2	6
BEV120	BASIC TECHNIQUES IN FIELD ECOLOGY	BEV277	60/0	72	1	3	6
BEV121	FUNDAMENTALS OF ECOLOGY III	BEV279	60/0	72	2	2	6
BEV122	MOLECULAR ECOLOGY	BEV282	60/0	72	2	2	7
BEV180	LIMNOLOGY	BEV279	60/0	72	2	2	7
BEV250	CONSERVATION BIOLOGY	BEV279	60/0	72	3	1	7
BEV260	RESEARCH SEMINARS AND UNDERGRADUATE THESIS I		180/0	216	2	10	7
BEV123	BIOGEOGRAPHY		60/0	72	2	2	8
BEV124	ECOLOGY OF TROPICAL MOUNTAIN ECOSYSTEMS	BEV279	60/0	72	3	1	8
BEV261	RESEARCH SEMINARS AND UNDERGRADUATE THESIS II	BEV260	180/0	216	2	10	8

CODE	ELECTIVE DISCIPLINES	PREREQUISITE	SWL/EWL	CWL	CLASSES		SEM
					T	P	
ALI311	BIOTERISM		60/0	72	2	2	
AMB107	PRINCIPLES OF BIOTECHNOLOGY		60/0	72	2	2	
AMB118	ENVIRONMENTAL DEGRADATION AND POLLUTION	1200 hours	45/0	54	3	0	
AMB176	ENVIRONMENTAL IMPACT ASSESSMENT AND LICENSING	DIR751	60/0	72	4	0	
AMB304	ENVIRONMENTAL AUDIT AND EXPERTISE	AMB176	30/0	36	2	0	
BCC443	GEOPROCESSING AND GEOGRAPHIC INFORMATION SYSTEMS		60/0	72	4	0	
BCC445	MODELING AND SIMULATION OF LAND SYSTEMS		60/0	72	4	0	
BEV109	TOPICS ON BIOLOGY		30/0	36	2	0	
BEV110	PLANT CULTIVATION	BEV281	60/0	72	1	3	
BEV125	BIOLOGICAL COLLECTIONS		60/0	72	2	2	
BEV126	PHYTOGEOGRAPHY	BEV277 BEV283	60/0	72	2	2	
BEV127	ETHNOECOLOGY		60/0	72	2	2	
BEV128	EXPERIMENTAL AQUATIC ECOLOGY	BEV277	60/0	72	1	3	
BEV129	CYTOGENETIC		60/0	72	2	2	
BEV130	ECOLOGICAL ENTOMOLOGY	BEV303	75/0	90	2	3	
BEV131	HERPETOLOGY	BEV285	60/0	72	2	2	
BEV132	ORNITHOLOGY	BEV285	60/0	72	2	2	
BEV133	BIODIVERSITY	BEV279	60/0	72	2	2	
BEV134	POPULATION BIOLOGY OF HOSTS AND PARASITES		60/0	72	2	2	
BEV135	DISEASE VECTOR INSECTS: BIOLOGY AND EXPERIMENTAL DELIMITATION FOR FIELD WORK		60/0	72	2	2	
BEV136	WOOD ANATOMY	BEV281	45/0	54	1	3	
BEV185	FUNDAMENTALS OF BIOETHICS		30/0	36	2	0	
BEV204	BIOMETRICS WITH R	EST212	90/0	108	3	3	
BEV266	MOLECULAR EVOLUTION	BEV289 CBI281	60/0	72	2	2	
BEV267	MOLECULAR GENETICS OF THE DEVELOPMENT	CBI237 CBI281	60/0	72	4	0	
BEV271	HUMAN EVOLUTION	BEV282 BEV289	30/0	36	2	0	
BEV274	CONSERVATION GENETICS		30/0	36	2	0	
BEV290	ENVIRONMENTAL EDUCATION		60/0	72	2	2	
BEV299	FUNDAMENTALS OF BIOETHICS		30/0	36	2	0	
CBI003	CELLULAR, MUSCLE AND NERVOUS SYSTEM PHYSIOLOGY	CBI149	90/0	108	4	2	
CBI006	CARDIOVASCULAR, RESPIRATORY AND RENAL PHYSIOLOGY	CBI149	120/0	144	4	4	
CBI007	PHYSIOLOGY OF DIGESTIVE AND ENDOCRINE SYSTEMS	CBI149	75/0	90	3	2	
CBI078	MICROBIAL PROSPECTING	CBI277	30/0	36	0	2	

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CODE	ELECTIVE DISCIPLINES	PREREQUISITE	SWL/EWL	CWL	CLASSES		SEM
					T	P	
CBI079	MICROBIOLOGY APPLIED TO WHO-ONE HEALTH CONCEPT		45/0	54	2	1	
CBI080	INDUSTRIAL MICROBIOLOGY	CBI277	30/0	36	2	0	
CBI081	CLINICAL VIROLOGY	CBI070 CBI277	30/0	36	2	0	
CBI213	ENVIRONMENTAL PATHOLOGY		30/0	36	2	0	
CBI251	ENVIRONMENTAL MICROBIOLOGY	CBI277	60/0	72	2	2	
CBI269	ADVANCED TOPICS:IMPORTANCE OF THE PHYSIOLOGY IN UNDERGRADUATE COURSES OF BIOLOGICAL SCIENCES AND HEALTH		30/0	36	2	0	
CBI282	FUNDAMENTAL PARASITOLOGY		30/0	36	2	0	
CBI283	BIOTECHNOLOGY FOR DIAGNOSIS ON HEALTH	CBI070	60/0	72	2	2	
CSO006	URBAN SOCIOLOGY		60/0	72	4	0	
CSO008	RURAL SOCIOLOGY		60/0	72	4	0	
CSO010	SOCIOLOGY OF KNOWLEDGE		60/0	72	4	0	
CSO012	TERRITORIES AND INDIVIDUALS		60/0	72	4	0	
CSO013	PUBLIC POLICIES ANALYSIS		60/0	72	4	0	
CSO112	TOPICS IN POLITICAL THEORY		60/0	72	4	0	
CSO114	TOPICS IN ANTHROPOLOGY		60/0	72	4	0	
CSO115	TOPICS IN SOCIOLOGY		60/0	72	4	0	
CSO119	TOPICS IN ANTHROPOLOGY		60/0	72	4	0	
CSO120	TOPICS IN SOCIOLOGY		60/0	72	4	0	
DIR751	ENVIRONMENTAL LAW	1800 hours	30/0	36	2	0	
EST002	STATISTICS II		90/0	108	6	0	
EST008	SAMPLING TECHNIQUES I		60/0	72	4	0	
EST009	DEMOGRAPHICS	EST002	60/0	72	4	0	
FAR031	ECOTOXICOLOGY		45/0	54	3	0	
FAR102	ENVIRONMENTAL EPIDEMIOLOGY	EST211	45/0	54	1	2	
FAR408	BIOTECHNOLOGY II (INDUSTRIAL)	FAR617	60/0	72	0	4	
FAR413	BIOTECHNOLOGY III	FAR617	45/0	54	1	2	
FAR609	PUBLIC HEALTH		30/0	36	2	0	
FAR617	BIOTECHNOLOGY	CBI271 CBI277 CBI281	45/0	54	3	0	
FIL643	PHILOSOPHY OF SCIENCE: 20TH CENTURY		60/0	72	3	1	
GEO344	MICROPALEONTOLOGY		60/0	72	2	2	
LET966	INTRODUCTION TO THE BRAZILIAN SIGN LANGUAGE		60/0	72	2	2	
MED162	GENERAL PSYCHOLOGY		30/0	36	2	0	
MED425	HEALTH AND SPIRITUALITY		45/0	54	3	0	
MTM122	DIFFERENTIAL AND INTEGRAL CALCULUS I		90/0	108	6	0	
NCS160	INTRODUCTION TO CLINICAL NUTRITION	1800 hours	30/0	36	1	1	
PRO126	ENERGY, SOCIETY AND ENVIRONMENT		60/0	72	4	0	
PRO226	MACROECONOMICS		60/0	72	4	0	
PRO227	MICROECONOMICS		60/0	72	4	0	
PRO301	ENTREPRENEURSHIP		60/0	72	4	0	
QUI175	ORIGIN AND CHARACTERIZATION OF OIL AND DERIVATIVES		45/0	54	2	1	

CODE	ACTIVITIES	PREREQUISITE	CHARACTER	SWL	SEM
ATV100			MANDATORY	200	

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Required Courses Load		Work Load
Mandatory Disciplines		4005
Elective Disciplines		0
Optative Disciplines		0
Facultative Disciplines		0
Activities		200
Extensions		0
	Total	4205

Required Courses Load on LICENCIATURA		Work Load
Mandatory Disciplines		2805
Elective Disciplines		270
Optative Disciplines		0
Facultative Disciplines		0
Activities		200
Extensions		0
	Total	3275

Required Courses Load on LICENCIATURA		Work Load
Mandatory Disciplines		2955
Elective Disciplines		120
Optative Disciplines		0
Facultative Disciplines		0
Activities		200
Extensions		0
	Total	3275