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

UFOP

COURSE OF ENVIRONMENTAL ENGINEERING - 2026/2(curriculum 2)

OURO PRETO'S CAMPUS

CODE	MANDATORY DISCIPLINES	PREREQUISITE	SWL/EWL	CWL	CLASSES		SEM
					T	P	
AMB101	INTRODUCTION TO ENVIRONMENTAL ENGINEERING		30/0	36	2	0	1
AMB113	FUNDAMENTALS OF CELL BIOLOGY		60/0	72	3	1	1
GEO110	GENERAL GEOLOGY		45/0	54	3	0	1
MTM122	DIFFERENTIAL AND INTEGRAL CALCULUS I		90/0	108	6	0	1
MTM730	ANALYTICAL GEOMETRY AND LINEAR ALGEBRA		60/0	72	4	0	1
QUI200	GENERAL CHEMISTRY		90/0	108	4	2	1
ARQ212	GRAPHIC EXPRESSION I		60/0	72	2	2	2
BCC701	COMPUTER PROGRAMMING I		60/0	72	2	2	2
FIS106	FUNDAMENTALS OF MECHANICS	MTM122	60/0	72	4	0	2
GEO113	MINERALS, ROCKS, AND SOILS	GEO110	75/0	90	3	2	2
MTM123	DIFFERENTIAL AND INTEGRAL CALCULUS II	MTM122	60/0	72	4	0	2
QUI153	ENVIRONMENTAL ORGANIC CHEMISTRY	QUI200	60/0	72	4	0	2
AMB102	LAND USE AND PLANNING	GEO113	45/0	54	3	0	3
BEV214	BASIC ECOLOGY		45/0	54	3	0	3
FIS107	FUNDAMENTALS OF THERMODYNAMICS	FIS106	30/0	36	2	0	3
FIS108	FUNDAMENTALS OF FLUIDS, OSCILLATIONS AND WAVES	FIS106	30/0	36	2	0	3
MTM124	DIFFERENTIAL AND INTEGRAL CALCULUS III	MTM122	60/0	72	4	0	3
MTM125	INTRODUCTION TO ORDINARY DIFFERENTIAL EQUATIONS	BCC701 MTM123	60/0	72	4	0	3
QUI117	PHYSICAL CHEMISTRY	MTM123 QUI200	90/0	108	4	2	3
ARQ202	TOPOGRAPHY A		45/0	54	1	2	4
BEV208	ECOSYSTEMS	BEV214	60/0	72	2	2	4
CBI012	ENVIRONMENTAL MICROBIOLOGY	AMB113	30/0	36	2	0	4
CBI078	MICROBIAL PROSPECTING	AMB113	30/0	36	0	2	4
EST202	STATISTICS AND PROBABILITY	MTM122	60/0	72	4	0	4
FIS109	FUNDAMENTALS OF ELECTROMAGNETISM	MTM124	60/0	72	4	0	4
GEO169	ENVIRONMENTAL GEOCHEMISTRY	GEO113	45/0	54	3	0	4
MEC124	TRANSPORT PHENOMENA	FIS108	60/0	72	2	2	4
AMB107	PRINCIPLES OF BIOTECHNOLOGY	FIS107	60/0	72	2	2	5
AMB112	APPLIED CARTOGRAPHY	ARQ202	60/0	72	2	2	5
AMB115	CLIMATOLOGY	FIS106	60/0	72	4	0	5
CIV271	HYDRAULICS	MEC124	75/0	90	3	2	5
CIV610	STRENGTH OF MATERIALS	FIS106 MTM124	60/0	72	2	2	5
FIS105	FUNDAMENTALS OF EXPERIMENTAL PHYSICS	FIS106 FIS107 FIS108	30/0	36	0	2	5
GEO115	EROSION AND SEDIMENT DEPOSITION	AMB102	45/0	54	1	2	5
AMB105	UNIT OPERATIONS	MEC124	60/0	72	4	0	6
AMB114	GEOPROCESSING	AMB112	60/0	72	1	3	6
AMB118	ENVIRONMENTAL DEGRADATION AND POLLUTION	BEV208 GEO169	45/0	54	3	0	6
CIV226	APPLIED HYDROLOGY	EST202 MEC124	60/0	72	3	1	6
CIV273	SEDIMENT TRANSPORT	CIV271	60/0	72	2	2	6
MIN101	PROCESSES IN MINING	GEO113	60/0	72	2	2	6
MIN215	GEOTECHNICS	CIV610 GEO113 MEC124	75/0	90	3	2	6
AMB119	ENERGY SOURCES AND ENVIRONMENT	1500 hours	60/0	72	4	0	7
DIR751	ENVIRONMENTAL LAW	1500 hours	30/0	36	2	0	7
FAR102	ENVIRONMENTAL EPIDEMIOLOGY	EST202	45/0	54	1	2	7
FAR103	BIOLOGICAL METHODS IN WASTEWATER TREATMENT	AMB107	45/0	54	1	2	7
GEO126	ENVIRONMENTAL HYDROGEOLOGY	AMB102 CIV226	60/0	72	2	2	7
MET205	PROCESSES IN METALLURGY	1500 hours	60/0	72	2	2	7
PRO241	ECONOMICS I	1150 hours	30/0	36	2	0	7
PRO243	ORGANIZATION AND ADMINISTRATION I	1150 hours	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

CODE	MANDATORY DISCIPLINES	PREREQUISITE	SWL/EWL	CWL	CLASSES		SEM
					T	P	
AMB176	ENVIRONMENTAL IMPACT ASSESSMENT AND LICENSING	DIR751	60/0	72	4	0	8
CIV274	HYDRAULIC SYSTEMS AND SANITATION	CIV271	60/0	72	2	2	8
MET206	SOLID WASTE AND EFFLUENTS IN METALLURGY	1800 hours	45/0	54	3	0	8
MIN102	EFFLUENTS TREATMENT IN MINING	MIN101	45/0	54	3	0	8
PRO242	ECONOMICS II	PRO241	30/0	36	2	0	8
PRO244	ORGANIZATION AND ADMINISTRATION II	PRO243	30/0	36	2	0	8
AMB106	EFFLUENT GAS TREATMENT	AMB105	60/0	72	3	1	9
AMB109	FINAL RESEARCH PROJECT I	2700 hours	60/0	72	4	0	9
AMB128	ENVIRONMENTAL PLANNING TOOLS AND MANAGEMENT SYSTEMS	AMB176	60/0	72	4	0	9
AMB392	INTERNSHIP	1800 hours	160/0	160	0	2	9
CIV275	URBAN SOLID WASTE TREATMENT	2700 hours	30/0	36	2	0	9
CIV423	SEWAGE TREATMENT	CIV274	45/0	54	2	1	9
MET207	METALLURGY AND ENVIRONMENT	1800 hours	45/0	54	3	0	9
MIN103	MINING AND ENVIRONMENT	MIN101	45/0	54	3	0	9
AMB108	FINAL RESEARCH PROJECT	AMB109	60/0	72	4	0	10

CODE	ELECTIVE DISCIPLINES	PREREQUISITE	SWL/EWL	CWL	CLASSES		SEM
					T	P	
AMB001	CLIMATE SCIENCE AND ENVIRONMENTAL GOVERNANCE		45/0	52	3	0	
AMB301	AIR QUALITY MANAGEMENT	1800 hours	60/0	72	4	0	
AMB302	FIELD VISITS IN ENVIRONMENTAL ENGINEERING	1800 hours	45/0	54	0	3	
AMB303	ENVIRONMENTAL ENGINEERING SEMINARS	1500 hours	30/0	36	2	0	
AMB304	ENVIRONMENTAL AUDIT AND EXPERTISE	AMB176	30/0	36	2	0	
AMB306	INDUSTRIAL ECOLOGY AND SUSTAINABILITY	1650 hours	45/0	54	3	0	
AMB307	CONTAMINATION AND REMEDIATION: SOIL AND GROUND WATER	GEO126 GEO169 MIN215	45/0	54	3	0	
BCC445	MODELING AND SIMULATION OF LAND SYSTEMS	900 hours	60/0	72	4	0	
BCC702	COMPUTER PROGRAMMING II	BCC701	60/0	72	2	2	
BEV180	LIMNOLOGY		60/0	72	2	2	
BEV182	ENVIRONMENTAL EDUCATION		60/0	72	2	2	
BEV202	BIOGEOGRAPHY	BEV214	60/0	72	2	2	
BEV263	AQUATIC ECOLOGY	BEV208 BEV214	45/0	54	2	1	
CBI213	ENVIRONMENTAL PATHOLOGY		30/0	36	2	0	
CIV424	WATER RESOURCES MANAGEMENT A	CIV271	45/0	54	3	0	
CIV425	SIMULATION OF WATER QUALITY IN LAKES AND ESTUARIES	CIV271	45/0	54	1	2	
CIV428	URBAN DRAINAGE		45/0	54	2	1	
CSO117	RESEARCH METHODOLOGY		30/0	36	2	0	
FAR031	ECOTOXICOLOGY	BEV208 QUI153	45/0	54	3	0	
FAR402	WATER QUALITY	QUI200	60/0	72	2	2	
FIL200	INTRODUCTION TO PHILOSOPHY OF SCIENCE IDEAS		30/0	36	2	0	
FIS110	FUNDAMENTALS OF OPTICS AND QUANTUM MECHANICS	FIS109	30/0	36	2	0	
GEO137	INSTRUMENTAL TECHNIQUES IN ENVIRONMENTAL GEOCHEMISTRY	GEO169 QUI117	30/0	36	0	2	
GEO164	PEDOLOGY	AMB102	75/0	90	2	3	
GEO227	DIGITAL IMAGE PROCESSING		45/0	54	1	2	
GEO297	ENGINEERING GEOLOGY	MIN215	60/0	72	2	2	
GEO308	ENVIRONMENTAL GEO-HYDROGEOLOGICAL SURVEY	GEO126	60/0	72	2	2	
LET966	INTRODUCTION TO THE BRAZILIAN SIGN LANGUAGE		60/0	72	2	2	
MIN105	REGENERATION IN AREAS DEGRADED BY MINING	AMB118	45/0	54	3	0	
MIN111	ROCK MECHANICS	MIN215	60/0	72	2	2	
MIN217	URBAN GEOTECHNICS	MIN215	45/0	54	3	0	
MIN220	MANAGEMENT OF MINING WASTES	MIN215	45/0	54	3	0	
MIN243	SLOPES STABILITY	MIN215	60/0	72	3	1	
MIN256	MINERAL PROCESSING I	GEO113 QUI117	60/0	72	2	2	

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					T	P	
MIN257	MINERAL PROCESSING II	MIN256	60/0	72	2	2	
MIN258	MINERAL PROCESSING III	MIN257	60/0	72	2	2	
MIN262	INTRODUCTION TO GEOSTATISTICS	EST202	60/0	72	2	2	
MTM154	APPLIED STATISTICS I	EST202	60/0	72	4	0	
MTM155	APPLIED STATISTICS I	MTM154	60/0	72	4	0	
PRO255	ECONOMIC ENGINEERING	PRO242	30/0	36	2	0	
PRO302	ENTREPRENEURIAL ACTIVITIES	PRO242 PRO244	60/0	72	1	3	
PRO316	REVERSE LOGISTICS	1800 hours	60/0	72	4	0	
PRO336	ENERGY ECONOMY		60/0	72	4	0	
PRO338	ENVIRONMENTAL MANAGEMENT OF ENERGY SYSTEMS	1800 hours	60/0	72	4	0	
PRO556	INTEGRATED ENERGY PLANNING		60/0	72	4	0	
PRO562	ENERGY EFFICIENCY AND CONSERVATION		60/0	72	4	0	
QUI137	ANALYTICAL CHEMISTRY		45/0	54	1	2	
QUI175	ORIGIN AND CHARACTERIZATION OF OIL AND DERIVATIVES	QUI153	45/0	54	2	1	
QUI301	INDUSTRIAL EFFLUENT TREATMENT	AMB105 QUI117 QUI153	60/0	72	4	0	

CODE	ACTIVITIES	PREREQUISITE	CHARACTER	SWL	SEM
ATV100	ACADEMIC-SCIENTIFIC-CULTURAL ACTIVITY		MANDATORY	60	
ATV105	ACADEMIC-SCIENTIFIC-CULTURAL ACTIVITY		ELECTIVE	60	

Required Courses Load		Work Load
Mandatory Disciplines		3505
Elective Disciplines		285
Optative Disciplines		0
Facultative Disciplines		0
Activities		60
Extensions		0
	Total	3850

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