



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



COURSE OF ENVIRONMENTAL ENGINEERING - 2020/1(curriculum 2)  
OURO PRETO'S CAMPUS

CODE	MANDATORY DISCIPLINES	PREREQUISITE	SWL	CWL	CLASSES		SEM
					T	P	
AMB101	INTRODUCTION TO ENVIRONMENTAL ENGINEERING		30	36	2	0	1
CBI232	CELLULAR BIOLOGY AND MICROBIOLOGY APPLIED TO ENVIRONMENTAL ENGINEERING		45	54	2	1	1
GEO110	GENERAL GEOLOGY		45	54	3	0	1
MTM122	DIFFERENTIAL AND INTEGRAL CALCULUS I		90	108	6	0	1
MTM131	ANALYTICAL GEOMETRY AND VECTOR CALCULUS		60	72	4	0	1
QUI200	GENERAL CHEMISTRY		90	108	4	2	1
ARQ212	GRAPHIC EXPRESSION I		60	72	2	2	2
BCC701	COMPUTER PROGRAMMING I		60	72	2	2	2
FIS130	PHYSICS I	MTM122 MTM131	60	72	3	1	2
GEO113	MINERALS, ROCKS AND SOILS	GEO110	75	90	3	2	2
MTM112	INTRODUCTION TO LINEAR ALGEBRA	MTM131	60	72	4	0	2
MTM123	DIFFERENTIAL AND INTEGRAL CALCULUS II	MTM122	60	72	4	0	2
QUI153	ENVIRONMENTAL ORGANIC CHEMISTRY	QUI200	60	72	4	0	2
AMB102	LAND USE AND PLANNING	GEO113	45	54	3	0	3
BEV214	BASIC ECOLOGY	CBI232	45	54	3	0	3
FIS131	PHYSICS II	FIS130 MTM123	60	72	3	1	3
MTM124	DIFFERENTIAL AND INTEGRAL CALCULUS III	MTM123	60	72	4	0	3
MTM125	INTRODUCTION TO ORDINARY DIFFERENTIAL EQUATIONS	BCC701 MTM112 MTM123	60	72	4	0	3
QUI117	PHYSICAL-CHEMISTRY	MTM123 QUI200	90	108	4	2	3
ARQ213	APPLIED TOPOGRAPHY		45	54	1	2	4
BEV208	ECOSYSTEMS	BEV214	60	72	2	2	4
CBI234	MICROBIOLOGY APPLIED TO ENVIRONMENTAL ENGINEERING	CBI232	75	90	3	2	4
EST202	STATISTICS AND PROBABILITY	MTM122	60	72	4	0	4
FIS132	PHYSICS III	FIS130 MTM124	60	72	3	1	4
GEO169	ENVIRONMENTAL GEOCHEMISTRY	GEO113 QUI117	45	54	3	0	4
MEC122	TRANSPORT PHENOMENA	MTM123	60	72	2	2	4
AMB107	PRINCIPLES OF BIOTECHNOLOGY		60	72	2	2	5
CIV108	MECHANICAL ENGINEERING	FIS130 MTM124	60	72	2	2	5
CIV271	HYDRAULICS	MEC122	75	90	3	2	5
GEO114	CLIMATOLOGY	BEV214 EST202 FIS131	60	72	2	2	5
GEO115	EROSION AND SEDIMENT DEPOSITION	AMB102	45	54	1	2	5
GEO116	APPLIED CARTOGRAPHIC	AMB102 ARQ212	60	72	2	2	5
AMB105	UNIT OPERATIONS	MEC122	60	72	4	0	6
AMB118	ENVIRONMENTAL POLLUTION AND DEGRADATION	BEV208 GEO169	45	54	3	0	6
BCC443	GEOPROCESSING AND GEOGRAPHIC INFORMATION SYSTEMS	GEO116	60	72	4	0	6
CIV272	APPLIED HYDROLOGY	EST202 MEC122	60	72	2	2	6
CIV273	SEDIMENT TRANSPORT	CIV271	60	72	2	2	6
MIN101	MINING PROCESSES	GEO113 QUI117	60	72	2	2	6
MIN215	GEOTECHNICS	CIV108 CIV271 GEO113	75	90	3	2	6
AMB119	ENERGY SOURCES AND ENVIRONMENT	MIN101	60	72	4	0	7
DIR751	ENVIRONMENTAL LAW	1650 hours	30	36	2	0	7
FAR102	ENVIRONMENTAL EPIDEMIOLOGY	EST202	45	54	1	2	7
FAR103	BIOLOGICAL METHODS IN WASTEWATER TREATMENT	AMB107	45	54	1	2	7
GEO126	ENVIRONMENTAL HYDROGEOLOGY	AMB102 CIV272 GEO169	60	72	2	2	7
MET205	METALLURGICAL PROCESSES	1650 hours	60	72	2	2	7
PRO241	ECONOMICS I	1650 hours	30	36	2	0	7
PRO243	ORGANIZATION AND ADMINISTRATION I	1650 hours	30	36	2	0	7
AMB176	ENVIRONMENTAL LICENSING AND IMPACT ASSESSMENT	DIR751	60	72	4	0	8
CIV274	HYDRAULIC SYSTEMS AND SANITATION	CIV271	60	72	2	2	8



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CODE	MANDATORY DISCIPLINES	PREREQUISITE	SWL	CWL	CLASSES		SEM
					T	P	
MET206	METALLURGICAL SOLID WASTE AND WASTEWATER	1800 hours	45	54	3	0	8
MIN102	MINING WASTEWATER TREATMENT	MIN101	45	54	3	0	8
PRO242	ECONOMICS II	PRO241	30	36	2	0	8
PRO244	ORGANIZATION AND ADMINISTRATION II	PRO243	30	36	2	0	8
AMB106	GAS EFFLUENT TREATMENT	1950 hours AMB105	60	72	3	1	9
AMB109	UNDERGRADUATE PROJECT I	AMB176	60	72	4	0	9
AMB128	ENVIRONMENTAL PLANNING AND MANAGEMENT SYSTEMS	AMB176	60	72	4	0	9
AMB392	INTERNSHIP	1800 hours	160	160	0	2	9
CIV275	URBAN SOLID WASTES TREATMENT	CIV274	30	36	2	0	9
CIV423	WASTEWATER TREATMENT	CIV274	45	54	2	1	9
MET207	METALLURGY AND ENVIRONMENT	1950 hours	45	54	3	0	9
MIN103	MINING AND ENVIRONMENT	AMB118 MIN101	45	54	3	0	9
AMB108	UNDERGRADUATE PROJECT II	AMB109	60	72	4	0	10

CODE	ELECTIVE DISCIPLINES	PREREQUISITE	SWL	CWL	CLASSES		SEM
					T	P	
AMB301	AIR QUALITY MANAGEMENT	1800 hours	60	72	4	0	
AMB302	ENVIRONMENTAL ENGINEERING TECHNICAL VISITS	1800 hours	45	54	0	3	
AMB303	ENVIRONMENTAL ENGINEERING SEMINARS	1500 hours	30	36	2	0	
AMB304	ENVIRONMENTAL AUDIT AND INVESTIGATION	AMB176	30	36	2	0	
AMB306	INDUSTRIAL ECOLOGY AND SUSTAINABILITY	1650 hours	45	54	3	0	
AMB307	CONTAMINATION AND RECOVERING: SOIL AND GROUND WATER	GEO126 GEO169 MIN215	45	54	3	0	
BCC445	MODELING AND SIMULATION OF LAND SYSTEMS	900 hours	60	72	4	0	
BCC702	COMPUTER PROGRAMMING II	BCC701	60	72	2	2	
BEV182	ENVIRONMENTAL EDUCATION		60	72	2	2	
BEV202	BIOGEOGRAPHY	BEV214	60	72	2	2	
BEV263	AQUATIC ECOLOGY	BEV208 BEV214	45	54	2	1	
CAT304	ENERGY MODELS AND REGIONAL PLANNING		60	72	4	0	
CAT305	ENERGY DEMAND ANALYSIS AND PROJECT		60	72	4	0	
CBI213	ENVIRONMENTAL PATHOLOGY		30	36	2	0	
CIV424	WATER RESOURCES MANAGEMENT A	CIV271 CIV272	45	54	3	0	
CIV425	SIMULATION OF LAKES AND RESERVOIRS WATER QUALITY	CIV271 CIV272	45	54	1	2	
CIV426	SIMULATION OF LAKES AND RESERVOIRS WATER QUALITY	CIV271 CIV272	45	54	1	2	
CIV437	MATHEMATICS MODELING II	CIV271	60	72	2	2	
EDU303	SCIENTIFIC METHODOLOGY		30	36	2	0	
FAR104	ECOTOXICOLOGY	BEV208 QUI153	45	54	3	0	
FAR402	WATER QUALITY	CBI232 QUI200	60	72	2	2	
FIL200	INTRODUCTION TO THE PHILOSOPHY OF SCIENCE IDEAS		30	36	2	0	
FIS133	PHYSICS IV	FIS132	60	72	3	1	
GEO127	WATER RESOURCES MANAGEMENT B	GEO126	45	54	3	0	
GEO129	PROCESSES AND DEPOSITS ON HILLSIDE	AMB102 GEO113	60	72	2	2	
GEO130	COASTAL DYNAMICS AND EROSION PROCESSES	GEO115	30	36	2	0	
GEO134	GEOCHEMISTRY OF EXOGENOUS PROCESSES	GEO169	30	36	2	0	
GEO137	INSTRUMENTAL TECHNIQUES IN ENVIRONMENTAL GEOCHEMISTRY	GEO169 QUI117	30	36	0	2	
GEO164	PEDOLOGY	AMB102	75	90	2	3	
GEO227	DIGITAL IMAGE PROCESSING	BCC443	45	54	1	2	
GEO297	ENGINEERING GEOLOGY	GEO115 MIN215	60	72	2	2	
GEO308	ENVIRONMENTAL GEOHYDROGEOLOGICAL SURVEY I	GEO126	60	72	2	2	
LET966	INTRODUCTION TO BRAZILIAN SIGN LANGUAGE (LIBRAS)		60	72	2	2	
MIN105	MINING RECLAMATION	AMB118	45	54	3	0	
MIN111	ROCKS MECHANICS	CIV108 MIN215	60	72	2	2	
MIN217	GEOTECHNICS URBAN	MIN215	45	54	3	0	
MIN220	MANAGEMENT OF MINING WASTES AND OVERBURDEN	MIN215	45	54	3	0	



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					T	P	
MIN243	SLOPE STABILITY	CIV108 MIN215	60	72	3	1	
MIN256	MINERAL PROCESSING I	GEO113 QUI117	60	72	2	2	
MIN257	MINERAL PROCESSING II	MIN256	60	72	2	2	
MIN258	MINERAL PROCESSING III	MIN257	60	72	2	2	
MIN262	INTRODUCTION TO GEOSTATISTICS	EST202	60	72	2	2	
MTM154	APPLIED STATISTICS I	EST202	60	72	4	0	
MTM155	APPLIED STATISTICS I	MTM154	60	72	4	0	
PRO255	ECONOMIC ENGINEERING	PRO242	30	36	2	0	
PRO302	ENTREPRENEURIAL ACTIVITIES	PRO242 PRO244	60	72	1	3	
PRO316	REVERSE LOGISTICS	1800 hours	60	72	4	0	
PRO338	ENVIRONMENTAL MANAGEMENT OF ENERGY SYSTEMS	1800 hours	60	72	4	0	
QUI129	ANALYTICAL CHEMISTRY I D	QUI200	75	90	2	3	
QUI175	ORIGIN AND CHARACTERIZATION OF OIL AND DERIVATIVES	QUI153	45	54	2	1	
QUI180	PHYSICAL-CHEMISTRY OF SURFACES	QUI117	30	36	2	0	
QUI301	INDUSTRIAL EFFLUENT TREATMENT	AMB105 QUI117 QUI153	60	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	3535
Elective Disciplines	285
Optative Disciplines	0
Facultative Disciplines	0
Activities	60
<b>Total</b>	<b>3880</b>