



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



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

CODE	MANDATORY DISCIPLINES	PREREQUISITE	SWL	CWL	CLASSES		SEM
					T	P	
ARQ208	DESCRIPTIVE GEOMETRY		90	108	4	2	1
EFD301	PHYSICAL EDUCATION AND SPORTS I		30	36	0	2	1
GEO151	GENERAL GEOLOGY		75	90	3	2	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
ARQ209	TECHNICAL DRAWING	ARQ208	30	36	1	1	2
BCC701	COMPUTER PROGRAMMING I		60	72	2	2	2
EFD302	PHYSICAL EDUCATION AND SPORTS II		30	36	0	2	2
FIS130	PHYSICS I	MTM122 MTM131	60	72	3	1	2
GEO104	MINERALOGY		60	72	2	2	2
GEO239	CRYSTALLOGRAPHY		30	36	2	0	2
MTM112	INTRODUCTION TO LINEAR ALGEBRA	MTM131	60	72	4	0	2
MTM123	DIFFERENTIAL AND INTEGRAL CALCULUS II	MTM122	60	72	4	0	2
ARQ202	TOPOGRAPHY A	ARQ209	45	54	1	2	3
FIS131	PHYSICS II	FIS130 MTM123	60	72	3	1	3
FIS132	PHYSICS III	FIS130 MTM123	60	72	3	1	3
GEO152	MACROSCOPIC PETROGRAPHY	GEO104 GEO151 QUI200	60	72	1	3	3
MTM124	DIFFERENTIAL AND INTEGRAL CALCULUS III	MTM123	60	72	4	0	3
MTM125	INTRODUCTION TO ORDINARY DIFFERENTIAL EQUATIONS	MTM112 MTM122	60	72	4	0	3
QUI147	ORGANIC CHEMISTRY	QUI200	30	36	2	0	3
FIS133	PHYSICS IV	FIS132 MTM125	60	72	3	1	4
FIS214	RATIONAL MECHANICS	FIS130 MTM124 MTM125	60	72	2	2	4
GEO132	OPTICAL CRYSTALLOGRAPHY	GEO104 GEO239	75	90	1	4	4
GEO147	PALEONTOLOGY I	GEO151	45	54	1	2	4
GEO153	SEDIMENTOLOGY	GEO104 GEO151 QUI200	90	108	2	4	4
QUI117	PHYSICAL-CHEMISTRY	QUI200	90	108	4	2	4
BCC760	NUMERICAL CALCULUS	BCC701 MTM124 MTM125	60	72	2	2	5
FIS215	CONTINUUM MECHANICS	FIS131 FIS214	60	72	4	0	5
GEO148	PALEONTOLOGY II	GEO147	45	54	1	2	5
GEO154	DRAWING GEOLOGICAL	ARQ202 ARQ208 GEO152	60	72	1	3	5
GEO155	STRATIGRAPHY	GEO152 GEO153	105	126	2	5	5
GEO156	GEOMORPHOLOGY	ARQ202 GEO152	75	90	1	4	5
GEO232	MAGMATIC PETROLOGY	GEO132 GEO152 QUI117	60	72	2	2	5
EST202	STATISTICS AND PROBABILITY	MTM122	60	72	4	0	6
GEO157	METAMORPHIC PETROLOGY	GEO232	90	108	3	3	6
GEO158	GEOCHEMISTRY	GEO232 QUI117	105	126	4	3	6
GEO159	STRUCTURAL GEOLOGY	GEO154 GEO155	105	126	3	4	6
GEO216	REMOTE SENSING	GEO154 GEO155 GEO156	75	90	1	4	6
GEO270	STRATIGRAPHIC SURVEYS TECHNIQUES - PART I/II	GEO155	120	144	0	1	6
AMB110	ENVIRONMENTAL ENGINEERING	1800 hours	45	54	3	0	7
GEO142	DIGITAL CARTOGRAPHY		30	36	0	2	7
GEO161	GEOPHYSICS	FIS133 FIS214 GEO159	120	144	4	4	7
GEO229	SEDIMENTARY PETROLOGY	GEO132 GEO152 GEO153	45	54	1	2	7
GEO272	FIELD GEOLOGY	GEO159 GEO216	120	144	0	8	7
GEO293	HYDROGEOLOGY	GEO159	60	72	2	2	7
GEO163	ECONOMIC GEOLOGY	GEO158 GEO159	120	144	4	4	8
GEO164	PEDOLOGY	GEO156 GEO158	75	90	2	3	8
GEO167	GEOTECTONICS	GEO158 GEO159	90	108	4	2	8
GEO297	ENGINEERING GEOLOGY	GEO272 GEO293	60	72	2	2	8
GEO393	SUPERVISED INTERNSHIP	GEO132 GEO154 GEO155	160	192	0	1	8
GEO493	GEOLOGICAL MAPPING	GEO157 GEO270 GEO272	120	144	2	0	8



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					T	P	
PRO241	ECONOMICS I	1650 hours	30	36	2	0	8
PRO243	ORGANIZATION AND ADMINISTRATION I	1650 hours	30	36	2	0	8
GEO143	HISTORICAL GEOLOGY	GEO167	45	54	3	0	9
GEO165	ENVIRONMENTAL GEOLOGY	AMB110 GEO293	60	72	1	3	9
GEO166	BRAZIL GEOLOGY	GEO167	75	90	3	2	9
GEO299	MINERAL SURVEY	EST202 GEO161 GEO163	75	90	3	2	9
GEO367	ENERGY RESOURCES	GEO163	30	36	2	0	9
TCC401	UNDERGRADUATE THESIS I	GEO163 GEO164 GEO493	30	36	0	2	9
DIR250	INTRODUCTION AT LAW AND LEGISLATION	2400 hours	30	36	2	0	10
MIN244	BRAZILIAN MINERAL ECONOMY	2400 hours	30	36	2	0	10
PRO242	ECONOMICS II	PRO241	30	36	2	0	10
PRO244	ORGANIZATION AND ADMINISTRATION II	PRO243	30	36	2	0	10
TCC402	UNDERGRADUATE THESIS II	TCC401	180	180	0	12	10

CODE	ELECTIVE DISCIPLINES	PREREQUISITE	SWL	CWL	CLASSES		SEM
					T	P	
BCC443	GEOPROCESSING AND GEOGRAPHIC INFORMATION SYSTEMS	1200 hours	60	72	4	0	
BCC702	COMPUTER PROGRAMMING II	BCC701	60	72	2	2	
CIV226	APPLIED HYDROLOGY	EST202	60	72	3	1	
CIV237	CONSTRUCTION MATERIALS I	1260 hours	60	72	2	2	
CIV244	SOIL MECHANICS I	GEO297	60	72	2	2	
CIV245	SOIL MECHANICS II	CIV244	60	72	2	2	
CIV246	FOUNDATIONS	CIV244 CIV245	45	54	3	0	
CIV247	EARTHWORKS	CIV244 CIV245	45	54	1	2	
FIL200	INTRODUCTION TO THE PHILOSOPHY OF SCIENCE IDEAS		30	36	2	0	
FIS212	STRUCTURE OF MATTER	FIS132 FIS133	60	72	2	2	
GEO021	ENVIRONMENTAL GEOCHEMISTRY	GEO158	45	54	3	0	
GEO022	TRAINING COURSE ON GEOLOGICAL MAPPING	GEO157 GEO270 GEO272	150	180	0	10	
GEO023	GEOCRONOLOGY		30	36	2	0	
GEO123	ADVANCED STRATIGRAPHY	GEO270	30	36	2	0	
GEO133	APPLIED TECTONOPHYSICS	GEO161	60	72	2	2	
GEO138	GEOCONSERVATION	1800 hours	30	36	1	1	
GEO173	WELLS PROFILES	GEO161	45	54	1	2	
GEO227	DIGITAL IMAGE PROCESSING	EST202 GEO216	45	54	1	2	
GEO236	GEMOLOGY	GEO132	60	72	2	2	
GEO246	SEDIMENTARY BASINS ANALYSIS	GEO159	30	36	2	0	
GEO250	GEOLOGY OF MINERAL GEMOLOGICAL DEPOSITS	GEO157	30	36	2	0	
GEO301	GEOLOGICAL MODELS: CONSTRUCTION AND EPISTEMOLOGY	GEO143	60	72	2	2	
GEO302	ENVIRONMENTAL RECOVERY	AMB110 GEO165	45	54	3	0	
GEO306	GEOLOGICAL COMMUNICATION	GEO159	60	72	2	2	
GEO308	ENVIRONMENTAL GEOHYDROGEOLOGICAL SURVEY I	1260 hours	60	72	2	2	
GEO309	SPELEOLOGY	GEO156 GEO159 QUI117	90	108	2	4	
GEO311	STRUCTURAL ANALYSIS	GEO159	60	72	1	3	
GEO312	MINING GEOLOGY	GEO159	90	108	2	4	
GEO313	GEOLOGICAL PROCESSES AND ENVIRONMENT	1800 hours	45	54	2	1	
GEO314	GEOPHYSIC INTERPRETATION	GEO161	60	72	1	3	
GEO315	HYDROGEOLOGICAL AND GEOTECHNICAL MODELING	GEO293 GEO297	45	54	1	2	
GEO316	INDUSTRIAL ROCKS AND MINERALS	GEO163	45	54	2	1	
GEO344	MICROPALEONTOLOGY	GEO148 GEO229	60	72	2	2	
LET966	INTRODUCTION TO BRAZILIAN SIGN LANGUAGE (LIBRAS)		60	72	2	2	
MET216	ELEMENTS OF MATERIALS	1260 hours	60	72	3	1	
MIN111	ROCKS MECHANICS	1500 hours	60	72	2	2	
MIN206	TECHNOLOGICAL CHARACTERIZATION OF MINERAL	1260 hours	60	72	2	2	
MIN213	ENVIRONMENTAL ENGINEERING	2100 hours	45	54	3	0	



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					T	P	
MIN238	PROCESS ENGINEERING	1500 hours	60	72	4	0	
MIN243	SLOPE STABILITY	1500 hours	60	72	3	1	
MIN256	MINERAL PROCESSING I	1260 hours	60	72	2	2	
MIN262	INTRODUCTION TO GEOSTATISTICS	2100 hours	60	72	2	2	
PRO255	ECONOMIC ENGINEERING	1500 hours	30	36	2	0	
PRO302	ENTREPRENEURIAL ACTIVITIES	1500 hours	60	72	1	3	

CODE	ACTIVITIES	PREREQUISITE	CHARACTER	SWL	SEM
ATV100	ACADEMIC-SCIENTIFIC-CULTURAL ACTIVITY		MANDATORY	135	

Required Courses Load	Work Load
Mandatory Disciplines	4360
Elective Disciplines	90
Optative Disciplines	0
Facultative Disciplines	0
Activities	135
Total	4585