



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



COURSE OF GEOLOGICAL ENGINEERING - 2026/1(curriculum 3)

OURO PRETO'S CAMPUS

CODE	MANDATORY DISCIPLINES	PREREQUISITE	SWL/EWL	CWL	CLASSES		SEM
					T	P	
GEO028	GENERAL GEOLOGY		75/15	90	3	2	1
GEO176	MINERALOGY		45/0	54	1	2	1
MTM700	DIFFERENTIAL AND INTEGRAL CALCULUS A		60/0	72	4	0	1
MTM730	ANALYTICAL GEOMETRY AND LINEAR ALGEBRA		60/0	72	4	0	1
QUI022	EXPERIMENTAL GENERAL CHEMISTRY AB		30/0	36	0	2	1
QUI075	GENERAL CHEMISTRY B		30/0	36	2	0	1
ARQ108	TOPOGRAPHY AND SURVEY DRAWING		60/0	72	3	1	2
BCC104	ALGORITHMS AND PROGRAMMING I	MTM700	60/0	72	2	2	2
FIS106	FUNDAMENTALS OF MECHANICS	MTM700	60/0	72	4	0	2
FIS107	FUNDAMENTALS OF THERMODYNAMICS	QUI075	30/0	36	2	0	2
GEO029	PETROGRAPHY	GEO028 GEO176	45/15	54	1	2	2
GEO037	GEOLOGICAL COMMUNICATION AND EXPRESSION	GEO028	30/15	36	1	1	2
MTM702	DIFFERENTIAL AND INTEGRAL CALCULUS B	MTM700	60/0	72	4	0	2
FIS108	FUNDAMENTALS OF FLUIDS, OSCILLATIONS AND WAVES	FIS106	30/0	36	2	0	3
FIS109	FUNDAMENTALS OF ELECTROMAGNETISM	FIS106	60/0	72	4	0	3
GEO038	GEOMORPHOLOGY	ARQ108 GEO029	45/15	54	2	1	3
GEO039	SEDIMENTOLOGY	GEO029	75/0	90	3	2	3
MTM703	DIFFERENTIAL AND INTEGRAL CALCULUS C	MTM702	60/0	72	4	0	3
QUI117	PHYSICAL CHEMISTRY	FIS107 MTM702	90/0	108	4	2	3
FIS105	FUNDAMENTALS OF EXPERIMENTAL PHYSICS	FIS107 FIS108 FIS109	30/0	36	0	2	4
GEO045	GEOLOGICAL MAPS AND SECTIONS I	ARQ108 GEO029 GEO038	45/0	54	1	2	4
GEO046	OPTICAL MINERALOGY	GEO029	75/0	90	1	4	4
GEO048	GEOCHEMISTRY	GEO029 QUI117	75/15	90	3	2	4
GEO049	STRATIGRAPHIC PALEONTOLOGY	GEO039	75/15	90	2	3	4
GEO055	STRATIGRAPHY	GEO039	75/0	90	3	2	4
GEO056	SOLID MECHANICS	FIS106 MTM703	30/0	36	2	0	4
EST202	STATISTICS AND PROBABILITY	MTM703	60/0	72	4	0	5
GEO057	GEOMECHANICS	GEO056	60/0	72	2	2	5
GEO058	GEOLOGICAL MAPS AND SECTIONS II	GEO045 GEO055	60/15	72	1	3	5
GEO059	GEOLOGIC INTERPRETATION OF IMAGENS	GEO045 GEO055	45/0	54	1	2	5
GEO065	IGNEOUS PETROLOGY	GEO046 GEO048	75/0	90	2	3	5
GEO229	SEDIMENTARY PETROLOGY	GEO046 GEO049 GEO055	45/0	54	1	2	5
GEO066	FIELD WORK I	GEO058 GEO229	120/0	144	1	7	6
GEO067	GEOPHYSICS I	FIS105 GEO056 GEO058	75/0	90	2	3	6
GEO068	STRUCTURAL GEOLOGY	GEO057 GEO058	75/0	90	2	3	6
GEO070	GEOPROCESSING	GEO058 GEO059	45/0	54	1	2	6
GEO071	METAMORPHIC PETROLOGY	GEO065 GEO229	75/0	90	2	3	6
GEO072	PEDOLOGY	GEO038	45/15	54	2	1	6
GEO073	SCIENTIFIC METHODS IN GEOSCIENCES	GEO037 GEO055	30/0	36	2	0	6
GEO179	HYDROGEOLOGY	GEO048 GEO058	75/15	90	2	3	6
GEO074	GEOTECHNICS	GEO068 GEO072 GEO179	75/15	90	2	3	7
GEO077	GEOLOGICAL E GEOTECHNICAL CARTOGRAPHY	GEO038 GEO057 GEO068 GEO070 GEO071 GEO072	135/75	160	0	9	7
GEO078	GEOPHYSICS II	GEO067	45/0	54	2	1	7
GEO079	GEOTECTONICS	GEO068 GEO071	60/0	72	3	1	7
GEO084	ECONOMIC GEOLOGY	GEO068 GEO071 GEO072	90/15	108	4	2	7
GEO393	SUPERVISED INTERNSHIP	GEO058	160/0	192	0	1	7
GEO085	FIELDWORK II (GEOLOGICAL MAPPING)	GEO066	135/0	160	0	9	8
GEO086	HISTORICAL AND BRAZILIAN GEOLOGY I	GEO079	45/0	54	3	0	8
GEO087	ENVIRONMENTAL GEOLOGY	GEO072 GEO179	45/15	54	1	2	8
GEO088	ORE PETROGRAPHY	GEO084	30/0	36	0	2	8



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					T	P	
GEO089	MINERAL SURVEY	GEO078 GEO084	75/0	90	4	1	8
GEO090	GEOSTATISTICS	EST202 GEO084	60/0	72	2	2	8
GEO175	PETROLEUM GEOLOGY	GEO078 GEO079	45/0	54	2	1	8
DIR250	INTRODUCTION TO LAW AND LEGISLATIONS	2400 hours	30/0	36	2	0	9
GEO091	FIELDWORK III (REGIONAL GEOLOGY FIELDTRIP)	GEO086	45/0	54	0	3	9
GEO095	MINING GEOLOGY	GEO066 GEO089	75/0	90	2	3	9
GEO106	FINAL PROJECT I	GEO085	30/0	36	1	1	9
MIN021	MINERAL ECONOMY	2500 hours	30/15	36	1	1	9
PRO241	ECONOMICS I	2500 hours	30/0	36	2	0	9
PRO245	ORGANIZATION AND ADMINISTRATION I	2500 hours	30/0	36	2	0	9
GEO139	EVALUATION OF MINERALS PROJECTS	GEO095 PRO245	45/0	54	3	0	10
GEO144	FINAL PROJECT II	GEO106	90/0	108	1	5	10

CODE	ELECTIVE DISCIPLINES	PREREQUISITE	SWL/EWL	CWL	CLASSES		SEM
					T	P	
BCC106	ALGORITHMS AND PROGRAMMING II	BCC104	60/0	72	2	2	
CIV028	EARTHWORKS	CIV244 CIV245	45/15	54	2	1	
CIV029	APPLIED HYDROLOGY	EST202	60/0	72	4	0	
CIV237	BUILDING MATERIALS I	1260 hours	60/0	72	2	2	
CIV244	SOIL MECHANICS I	GEO074	60/0	72	2	2	
CIV245	SOIL MECHANICS II	CIV244	60/0	72	2	2	
FIS110	FUNDAMENTALS OF OPTICS AND QUANTUM MECHANICS	FIS109	30/0	36	2	0	
FIS212	STRUCTURE OF MATTER	FIS108 FIS109	60/0	72	2	2	
FIS214	RATIONAL MECHANICS	FIS106 MTM703	60/0	72	2	2	
FIS215	CONTINUUM MECHANICS	FIS107 FIS108 FIS214	60/0	72	4	0	
GEO021	ENVIRONMENTAL GEOCHEMISTRY	GEO048	45/0	54	3	0	
GEO023	GEOCHRONOLOGY	GEO079	30/0	36	2	0	
GEO024	NUMERICAL METHODS IN GEOSCIENCES	EST202 GEO078 GEO079	60/0	72	1	3	
GEO138	GEOCONSERVATION	GEO055 GEO068	30/0	36	1	1	
GEO145	ENVIRONMENTAL GEOHYDROLOGICAL DIAGNOSIS	GEO179	60/15	72	2	2	
GEO173	WELL LOGGING	GEO078	45/0	54	1	2	
GEO174	INTRODUCTION TO PETROLEUM ENGINEERING	GEO067	30/0	36	2	0	
GEO180	CORE STRUCTURAL ANALYSIS	GEO181	45/0	54	1	2	
GEO181	QUALITATIVE STRUCTURAL ANALYSIS	GEO068	60/0	72	1	3	
GEO182	GEOLOGICAL MAPPING STAGE	GEO066	150/0	180	2	8	
GEO183	MICROSTRUCTURAL ANALYSIS	GEO068 GEO071	45/0	54	1	2	
GEO184	SAFETY IN FIELDWORK		30/0	36	2	0	
GEO185	GEOLOGY OF GEM DEPOSITS	GEO071	60/0	72	2	2	
GEO186	GEMOLOGY	GEO046	60/0	72	1	3	
GEO187	KIMBERLITE AND DIAMOND MINERALOG	GEO065	45/0	54	1	2	
GEO188	BASIN ANALYSIS	GEO079	45/0	54	2	1	
GEO189	HISTORICAL AND BRAZILIAN GEOLOGY II	GEO079 GEO086	30/0	36	2	0	
GEO190	MICROPALAEONTOLOGY	GEO049	45/0	54	1	2	
GEO191	PALYNOLOGY	GEO049	45/0	54	1	2	
GEO192	SPELEOLOGY	GEO048 GEO068	60/0	72	1	3	
GEO193	PALEOCLIMATOLOGY	GEO049	45/0	54	1	2	
GEO194	DIGITAL IMAGE PROCESSING	GEO070	45/0	54	1	2	
GEO195	CRYSTALLOGRAPHY	GEO176	30/0	36	2	0	
GEO196	GEOLOGICAL PROCESSES AND THE ENVIRONMENT	GEO038 GEO048	30/0	36	1	1	
GEO197	TECTONIC GEOMORPHOLOGY	GEO068 GEO072	45/0	54	2	1	
GEO199	GEOETHIC	2280 hours	30/0	36	2	0	
GEO302	ENVIRONMENTAL RECOVERY	GEO087	45/0	54	3	0	
GEO314	GEOPHYSICAL INTERPRETATION	GEO078	60/0	72	1	3	
GEO315	HYDROGEOLOGICAL AND GEOTECHNICAL MODELING	GEO074	45/0	54	1	2	
GEO494	MINERAL AND INDUSTRIAL ROCKS	GEO084	45/15	54	2	1	
LET966	INTRODUCTION TO THE BRAZILIAN SIGN LANGUAGE		60/0	72	2	2	



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MIN022	SOCIAL AND ENVIRONMENTAL RESPONSIBILITY AND MINING	2100 hours	45/30	54	1	2	
MIN023	SLOPE STABILITY	1500 hours	60/15	72	2	2	
MIN206	ORES TECHNOLOGICAL CHARACTERIZATION	1260 hours	60/0	72	2	2	
MIN238	PROCESSES ENGINEERING	1500 hours	60/0	72	4	0	
MIN256	MINERAL PROCESSING I	1260 hours	60/0	72	2	2	
MTM112	INTRODUCTION TO LINEAR ALGEBRA	MTM700 MTM730	60/0	72	4	0	
PRO242	ECONOMICS II	1500 hours	30/0	36	2	0	
PRO246	ORGANIZATION AND ADMINISTRATION II	2400 hours	30/0	36	2	0	

CODE	ACTIVITIES	PREREQUISITE	CHARACTER	SWL	SEM
ATV100			MANDATORY	75	
ATV200			MANDATORY	15	
ATV300			MANDATORY	130	

Required Courses Load	Work Load
Mandatory Disciplines	3700
Elective Disciplines	90
Optative Disciplines	0
Facultative Disciplines	0
Activities	220
Extensions	400
<b>Total</b>	<b>4010</b>