



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



COURSE OF METALLURGICAL ENGINEERING - 2020/1 (curriculum 3)  
OURO PRETO'S CAMPUS

CODE	MANDATORY DISCIPLINES	PREREQUISITE	SWL	CWL	CLASSES		SEM
					T	P	
ARQ208	DESCRIPTIVE GEOMETRY		90	108	4	2	1
MET270	INTRODUCTION TO METALLURGICAL ENGINEERING		30	36	2	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
ARQ209	TECHNICAL DRAWING		30	36	1	1	2
BCC701	COMPUTER PROGRAMMING I		60	72	2	2	2
FIS130	PHYSICS I		60	72	3	1	2
GEO104	MINERALOGY		60	72	2	2	2
MTM112	INTRODUCTION TO LINEAR ALGEBRA		60	72	4	0	2
MTM123	DIFFERENTIAL AND INTEGRAL CALCULUS II		60	72	4	0	2
FIS131	PHYSICS II	ARQ208 MET270 MTM122 MTM131 QUI200	60	72	3	1	3
FIS132	PHYSICS III	ARQ208 MET270 MTM122 MTM131 QUI200	60	72	3	1	3
GEO207	MACROSCOPIC PETROGRAPHY	ARQ208 MET270 MTM122 MTM131 QUI200	45	54	1	2	3
MTM124	DIFFERENTIAL AND INTEGRAL CALCULUS III	ARQ208 MET270 MTM122 MTM131 QUI200	60	72	4	0	3
MTM125	INTRODUCTION TO ORDINARY DIFFERENTIAL EQUATIONS	ARQ208 MET270 MTM122 MTM131 QUI200	60	72	4	0	3
QUI115	PHYSICAL-CHEMISTRY I	ARQ208 MET270 MTM122 MTM131 QUI200	60	72	2	2	3
BCC760	NUMERICAL CALCULUS	ARQ208 ARQ209 BCC701 FIS130 GEO104 MET270 MTM112 MTM122 MTM123 MTM131 QUI200	60	72	2	2	4
EST202	STATISTICS AND PROBABILITY	ARQ208 ARQ209 BCC701 FIS130 GEO104 MET270 MTM112 MTM122 MTM123 MTM131 QUI200	60	72	4	0	4
FIS133	PHYSICS IV	ARQ208 ARQ209 BCC701 FIS130 GEO104 MET270 MTM112 MTM122 MTM123 MTM131 QUI200	60	72	3	1	4
MEC119	FLUID MECHANICS	ARQ208 ARQ209 BCC701 FIS130 GEO104 MET270 MTM112 MTM122 MTM123 MTM131 QUI200	60	72	2	2	4
MET268	GENERAL METALLURGY	ARQ208 ARQ209 BCC701 FIS130 GEO104 MET270 MTM112 MTM122 MTM123 MTM131 QUI200	60	72	4	0	4
QUI116	PHYSICAL-CHEMISTRY II	ARQ208 ARQ209 BCC701 FIS130 GEO104 MET270 MTM112 MTM122 MTM123 MTM131 QUI200	60	72	2	2	4
CAT124	GENERAL ELECTROTECHNICS	ARQ208 ARQ209 BCC701 FIS130 FIS131 FIS132 GEO104 GEO207 MET270 MTM112 MTM122 MTM123 MTM124 MTM125 MTM131 QUI115 QUI200	75	90	3	2	5



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CODE	MANDATORY DISCIPLINES	PREREQUISITE	SWL	CWL	CLASSES		SEM
					T	P	
FIS214	RATIONAL MECHANICS	ARQ208 ARQ209 BCC701 FIS130 FIS131 FIS132 GEO104 GEO207 MET270 MTM112 MTM122 MTM123 MTM124 MTM125 MTM131 QUI115 QUI200	60	72	2	2	5
MEC174	MASS AND HEAR TRANSFER I M	ARQ208 ARQ209 BCC701 FIS130 FIS131 FIS132 GEO104 GEO207 MET270 MTM112 MTM122 MTM123 MTM124 MTM125 MTM131 QUI115 QUI200	60	72	2	2	5
MET121	METALLURGICAL THERMOCHEMISTRY I	ARQ208 ARQ209 BCC701 FIS130 FIS131 FIS132 GEO104 GEO207 MET270 MTM112 MTM122 MTM123 MTM124 MTM125 MTM131 QUI115 QUI200	75	90	3	2	5
QUI137	ANALYTICAL CHEMISTRY	ARQ208 ARQ209 BCC701 FIS130 FIS131 FIS132 GEO104 GEO207 MET270 MTM112 MTM122 MTM123 MTM124 MTM125 MTM131 QUI115 QUI200	45	54	1	2	5
AMB110	ENVIRONMENTAL ENGINEERING	ARQ208 ARQ209 BCC701 BCC760 EST202 FIS130 FIS131 FIS132 FIS133 GEO104 GEO207 MEC119 MET268 MET270 MTM112 MTM122 MTM123 MTM124 MTM125 MTM131 QUI115 QUI116 QUI200	45	54	3	0	6
CIV107	STRENGTH OF MATERIALS AND STRUCTURES	ARQ208 ARQ209 BCC701 BCC760 EST202 FIS130 FIS131 FIS132 FIS133 GEO104 GEO207 MEC119 MET268 MET270 MTM112 MTM122 MTM123 MTM124 MTM125 MTM131 QUI115 QUI116 QUI200	60	72	2	2	6
MEC134	APPLIED THERMODYNAMICS	ARQ208 ARQ209 BCC701 BCC760 EST202 FIS130 FIS131 FIS132 FIS133 GEO104 GEO207 MEC119 MET268 MET270 MTM112 MTM122 MTM123 MTM124 MTM125 MTM131 QUI115 QUI116 QUI200	60	72	2	2	6
MET122	METALLURGICAL THERMOCHEMISTRY II	ARQ208 ARQ209 BCC701 BCC760 EST202 FIS130 FIS131 FIS132 FIS133 GEO104 GEO207 MEC119 MET268 MET270 MTM112 MTM122 MTM123 MTM124 MTM125 MTM131 QUI115 QUI116 QUI200	75	90	3	2	6



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CODE	MANDATORY DISCIPLINES	PREREQUISITE			SWL	CWL	CLASSES		SEM
							T	P	
MET154	STRUCTURE OF MATERIALS	ARQ208	ARQ209	BCC701	60	72	3	1	6
		BCC760	EST202	FIS130					
		FIS131	FIS132	FIS133					
		GEO104	GEO207	MEC119					
		MET268	MET270	MTM112					
		MTM122	MTM123	MTM124					
		MTM125	MTM131	QUI115					
		QUI116	QUI200						
PRO241	ECONOMICS I	ARQ208	ARQ209	BCC701	30	36	2	0	6
		BCC760	EST202	FIS130					
		FIS131	FIS132	FIS133					
		GEO104	GEO207	MEC119					
		MET268	MET270	MTM112					
		MTM122	MTM123	MTM124					
		MTM125	MTM131	QUI115					
		QUI116	QUI200						
PRO243	ORGANIZATION AND ADMINISTRATION I	ARQ208	ARQ209	BCC701	30	36	2	0	6
		BCC760	EST202	FIS130					
		FIS131	FIS132	FIS133					
		GEO104	GEO207	MEC119					
		MET268	MET270	MTM112					
		MTM122	MTM123	MTM124					
		MTM125	MTM131	QUI115					
		QUI116	QUI200						
MET129	IRON AND STEELMAKING I	ARQ208	ARQ209	BCC701	75	90	3	2	7
		BCC760	CAT124	EST202					
		FIS130	FIS131	FIS132					
		FIS133	FIS214	GEO104					
		GEO207	MEC119	MEC174					
		MET121	MET268	MET270					
		MTM112	MTM122	MTM123					
		MTM124	MTM125	MTM131					
		QUI115	QUI116	QUI137					
		QUI200							
MET131	NON-FERROUS METALLURGY I	ARQ208	ARQ209	BCC701	75	90	4	1	7
		BCC760	CAT124	EST202					
		FIS130	FIS131	FIS132					
		FIS133	FIS214	GEO104					
		GEO207	MEC119	MEC174					
		MET121	MET268	MET270					
		MTM112	MTM122	MTM123					
		MTM124	MTM125	MTM131					
		QUI115	QUI116	QUI137					
		QUI200							
MET133	TRANSPORT PHENOMENA APPLIED TO METALLURGY	ARQ208	ARQ209	BCC701	75	90	3	2	7
		BCC760	CAT124	EST202					
		FIS130	FIS131	FIS132					
		FIS133	FIS214	GEO104					
		GEO207	MEC119	MEC174					
		MET121	MET268	MET270					
		MTM112	MTM122	MTM123					
		MTM124	MTM125	MTM131					
		QUI115	QUI116	QUI137					
		QUI200							



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CODE	MANDATORY DISCIPLINES	PREREQUISITE			SWL	CWL	CLASSES		SEM
							T	P	
MET155	STRUCTURAL ANALYSIS TECHNIQUES	ARQ208 BCC760 FIS130 FIS133 GEO207 MET121 MTM112 MTM124 QUI115 QUI200	ARQ209 CAT124 FIS131 FIS214 MEC119 MET268 MTM122 MTM125 QUI116	BCC701 EST202 FIS132 GEO104 MEC174 MET270 MTM123 MTM131 QUI137	30	36	1	1	7
MIN256	MINERAL PROCESSING I	ARQ208 BCC760 FIS130 FIS133 GEO207 MET121 MTM112 MTM124 QUI115 QUI200	ARQ209 CAT124 FIS131 FIS214 MEC119 MET268 MTM122 MTM125 QUI116	BCC701 EST202 FIS132 GEO104 MEC174 MET270 MTM123 MTM131 QUI137	60	72	2	2	7
PRO242	ECONOMICS II	ARQ208 BCC760 FIS130 FIS133 GEO207 MET121 MTM112 MTM124 QUI115 QUI200	ARQ209 CAT124 FIS131 FIS214 MEC119 MET268 MTM122 MTM125 QUI116	BCC701 EST202 FIS132 GEO104 MEC174 MET270 MTM123 MTM131 QUI137	30	36	2	0	7
PRO244	ORGANIZATION AND ADMINISTRATION II	ARQ208 BCC760 FIS130 FIS133 GEO207 MET121 MTM112 MTM124 QUI115 QUI200	ARQ209 CAT124 FIS131 FIS214 MEC119 MET268 MTM122 MTM125 QUI116	BCC701 EST202 FIS132 GEO104 MEC174 MET270 MTM123 MTM131 QUI137	30	36	2	0	7
MET130	IRON AND STEELMAKING II	AMB110 BCC701 CIV107 FIS131 FIS214 MEC119 MET121 MET268 MTM122 MTM125 PRO243 QUI137	ARQ208 BCC760 EST202 FIS132 GEO104 MEC134 MET122 MET270 MTM123 MTM131 QUI115 QUI200	ARQ209 CAT124 FIS130 FIS133 GEO207 MEC174 MET154 MTM112 MTM124 PRO241 QUI116	75	90	3	2	8



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							T	P	
MET132	NON-FERROUS METALLURGY II	AMB110	ARQ208	ARQ209	60	72	3	1	8
		BCC701	BCC760	CAT124					
		CIV107	EST202	FIS130					
		FIS131	FIS132	FIS133					
		FIS214	GEO104	GEO207					
		MEC119	MEC134	MEC174					
		MET121	MET122	MET154					
		MET268	MET270	MTM112					
		MTM122	MTM123	MTM124					
		MTM125	MTM131	PRO241					
		PRO243	QUI115	QUI116					
		QUI137	QUI200						
MET149	ELEMENTS OF MECHANICS OF MATERIALS	AMB110	ARQ208	ARQ209	30	36	2	0	8
		BCC701	BCC760	CAT124					
		CIV107	EST202	FIS130					
		FIS131	FIS132	FIS133					
		FIS214	GEO104	GEO207					
		MEC119	MEC134	MEC174					
		MET121	MET122	MET154					
		MET268	MET270	MTM112					
		MTM122	MTM123	MTM124					
		MTM125	MTM131	PRO241					
		PRO243	QUI115	QUI116					
		QUI137	QUI200						
MET157	METAL FORMING PROCESSES	AMB110	ARQ208	ARQ209	60	72	4	0	8
		BCC701	BCC760	CAT124					
		CIV107	EST202	FIS130					
		FIS131	FIS132	FIS133					
		FIS214	GEO104	GEO207					
		MEC119	MEC134	MEC174					
		MET121	MET122	MET154					
		MET268	MET270	MTM112					
		MTM122	MTM123	MTM124					
		MTM125	MTM131	PRO241					
		PRO243	QUI115	QUI116					
		QUI137	QUI200						
MET158	MECHANICAL METALLURGY	AMB110	ARQ208	ARQ209	60	72	4	0	8
		BCC701	BCC760	CAT124					
		CIV107	EST202	FIS130					
		FIS131	FIS132	FIS133					
		FIS214	GEO104	GEO207					
		MEC119	MEC134	MEC174					
		MET121	MET122	MET154					
		MET268	MET270	MTM112					
		MTM122	MTM123	MTM124					
		MTM125	MTM131	PRO241					
		PRO243	QUI115	QUI116					
		QUI137	QUI200						
MIN244	BRAZILIAN MINERAL ECONOMY	AMB110	ARQ208	ARQ209	30	36	2	0	8
		BCC701	BCC760	CAT124					
		CIV107	EST202	FIS130					
		FIS131	FIS132	FIS133					
		FIS214	GEO104	GEO207					
		MEC119	MEC134	MEC174					
		MET121	MET122	MET154					
		MET268	MET270	MTM112					
		MTM122	MTM123	MTM124					
		MTM125	MTM131	PRO241					
		PRO243	QUI115	QUI116					
		QUI137	QUI200						



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CODE	MANDATORY DISCIPLINES	PREREQUISITE			SWL	CWL	CLASSES		SEM
							T	P	
MIN257	MINERAL PROCESSING II	AMB110 BCC701 CIV107 FIS131 FIS214 MEC119 MET121 MET268 MTM122 MTM125 PRO243 QUI137	ARQ208 BCC760 EST202 FIS132 GEO104 MEC134 MET122 MET270 MTM123 MTM131 QUI115 QUI200	ARQ209 CAT124 FIS130 FIS133 GEO207 MEC174 MET154 MTM112 MTM124 PRO241 QUI116	60	72	2	2	8
MET135	MATERIALS ENGINEERING WORK I	AMB110 BCC701 CIV107 FIS131 FIS214 MEC119 MET121 MET131 MET155 MIN256 MTM123 MTM131 PRO243 QUI116	ARQ208 BCC760 EST202 FIS132 GEO104 MEC134 MET122 MET133 MET268 MTM112 MTM124 PRO241 PRO244 QUI137	ARQ209 CAT124 FIS130 FIS133 GEO207 MEC174 MET129 MET154 MET270 MTM122 MTM125 PRO242 PRO241 QUI115 QUI200	30	36	2	0	9
MET159	MECHANICAL TESTING OF MATERIALS	AMB110 BCC701 CIV107 FIS131 FIS214 MEC119 MET121 MET131 MET155 MIN256 MTM123 MTM131 PRO243 QUI116	ARQ208 BCC760 EST202 FIS132 GEO104 MEC134 MET122 MET133 MET268 MTM112 MTM124 PRO241 PRO244 QUI137	ARQ209 CAT124 FIS130 FIS133 GEO207 MEC174 MET129 MET154 MET270 MTM122 MTM125 PRO242 PRO241 QUI115 QUI200	30	36	1	1	9
MET160	SOLIDIFICATION AND FOUNDRY METALLURGY	AMB110 BCC701 CIV107 FIS131 FIS214 MEC119 MET121 MET131 MET155 MIN256 MTM123 MTM131 PRO243 QUI116	ARQ208 BCC760 EST202 FIS132 GEO104 MEC134 MET122 MET133 MET268 MTM112 MTM124 PRO241 PRO244 QUI137	ARQ209 CAT124 FIS130 FIS133 GEO207 MEC174 MET129 MET154 MET270 MTM122 MTM125 PRO242 PRO241 QUI115 QUI200	60	72	3	1	9



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CODE	MANDATORY DISCIPLINES	PREREQUISITE			SWL	CWL	CLASSES		SEM
							T	P	
MET162	MECHANICAL TRANSFORMATION OF METALS	AMB110	ARQ208	ARQ209	60	72	3	1	9
BCC701	BCC760	CAT124							
CIV107	EST202	FIS130							
FIS131	FIS132	FIS133							
FIS214	GEO104	GEO207							
MEC119	MEC134	MEC174							
MET121	MET122	MET129							
MET131	MET133	MET154							
MET155	MET268	MET270							
MIN256	MTM112	MTM122							
MTM123	MTM124	MTM125							
MTM131	PRO241	PRO242							
PRO243	PRO244	QUI115							
QUI116	QUI137	QUI200							
MET163	ELECTROMETALLURGY	AMB110	ARQ208	ARQ209					
BCC701	BCC760	CAT124							
CIV107	EST202	FIS130							
FIS131	FIS132	FIS133							
FIS214	GEO104	GEO207							
MEC119	MEC134	MEC174							
MET121	MET122	MET129							
MET131	MET133	MET154							
MET155	MET268	MET270							
MIN256	MTM112	MTM122							
MTM123	MTM124	MTM125							
MTM131	PRO241	PRO242							
PRO243	PRO244	QUI115							
QUI116	QUI137	QUI200							
MET269	THERMAL TREATMENT OF METALS	AMB110	ARQ208	ARQ209	60	72	2	2	9
BCC701	BCC760	CAT124							
CIV107	EST202	FIS130							
FIS131	FIS132	FIS133							
FIS214	GEO104	GEO207							
MEC119	MEC134	MEC174							
MET121	MET122	MET129							
MET131	MET133	MET154							
MET155	MET268	MET270							
MIN256	MTM112	MTM122							
MTM123	MTM124	MTM125							
MTM131	PRO241	PRO242							
PRO243	PRO244	QUI115							
QUI116	QUI137	QUI200							
MIN258	MINERAL PROCESSING III	AMB110	ARQ208	ARQ209					
BCC701	BCC760	CAT124							
CIV107	EST202	FIS130							
FIS131	FIS132	FIS133							
FIS214	GEO104	GEO207							
MEC119	MEC134	MEC174							
MET121	MET122	MET129							
MET131	MET133	MET154							
MET155	MET268	MET270							
MIN256	MTM112	MTM122							
MTM123	MTM124	MTM125							
MTM131	PRO241	PRO242							
PRO243	PRO244	QUI115							
QUI116	QUI137	QUI200							



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					T	P	
DIR250	INTRODUCTION AT LAW AND LEGISLATION	AMB110 ARQ208 ARQ209 BCC701 BCC760 CAT124 CIV107 EST202 FIS130 FIS131 FIS132 FIS133 FIS214 GEO104 GEO207 MEC119 MEC134 MEC174 MET121 MET122 MET129 MET130 MET131 MET132 MET133 MET149 MET154 MET155 MET157 MET158 MET268 MET270 MIN244 MIN256 MIN257 MTM112 MTM122 MTM123 MTM124 MTM125 MTM131 PRO241 PRO242 PRO243 PRO244 QUI115 QUI116 QUI137 QUI200	30	36	2	0	10
MET136	MATERIALS ENGINEERING WORK II	AMB110 ARQ208 ARQ209 BCC701 BCC760 CAT124 CIV107 EST202 FIS130 FIS131 FIS132 FIS133 FIS214 GEO104 GEO207 MEC119 MEC134 MEC174 MET121 MET122 MET129 MET130 MET131 MET132 MET133 MET135 MET149 MET154 MET155 MET157 MET158 MET268 MET270 MIN244 MIN256 MIN257 MTM112 MTM122 MTM123 MTM124 MTM125 MTM131 PRO241 PRO242 PRO243 PRO244 QUI115 QUI116 QUI137 QUI200	60	72	0	4	10
MET140	WELDING TECHNOLOGY AND METALLURGY	AMB110 ARQ208 ARQ209 BCC701 BCC760 CAT124 CIV107 EST202 FIS130 FIS131 FIS132 FIS133 FIS214 GEO104 GEO207 MEC119 MEC134 MEC174 MET121 MET122 MET129 MET130 MET131 MET132 MET133 MET149 MET154 MET155 MET157 MET158 MET268 MET270 MIN244 MIN256 MIN257 MTM112 MTM122 MTM123 MTM124 MTM125 MTM131 PRO241 PRO242 PRO243 PRO244 QUI115 QUI116 QUI137 QUI200	60	72	3	1	10





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					T	P	
MET143	NON-DESTRUTIVE TESTING	AMB110 ARQ208 ARQ209 BCC701 BCC760 CAT124 CIV107 EST202 FIS130 FIS131 FIS132 FIS133 FIS214 GEO104 GEO207 MEC119 MEC134 MEC174 MET121 MET122 MET129 MET130 MET131 MET132 MET133 MET149 MET154 MET155 MET157 MET158 MET268 MET270 MIN244 MIN256 MIN257 MTM112 MTM122 MTM123 MTM124 MTM125 MTM131 PRO241 PRO242 PRO243 PRO244 QUI115 QUI116 QUI137 QUI200	30	36	1	1	10
MET144	MATERIALS SELECTION	AMB110 ARQ208 ARQ209 BCC701 BCC760 CAT124 CIV107 EST202 FIS130 FIS131 FIS132 FIS133 FIS214 GEO104 GEO207 MEC119 MEC134 MEC174 MET121 MET122 MET129 MET130 MET131 MET132 MET133 MET149 MET154 MET155 MET157 MET158 MET268 MET270 MIN244 MIN256 MIN257 MTM112 MTM122 MTM123 MTM124 MTM125 MTM131 PRO241 PRO242 PRO243 PRO244 QUI115 QUI116 QUI137 QUI200	30	36	2	0	10
MET145	METALLURGICAL PROCESSES	AMB110 ARQ208 ARQ209 BCC701 BCC760 CAT124 CIV107 EST202 FIS130 FIS131 FIS132 FIS133 FIS214 GEO104 GEO207 MEC119 MEC134 MEC174 MET121 MET122 MET129 MET130 MET131 MET132 MET133 MET149 MET154 MET155 MET157 MET158 MET268 MET270 MIN244 MIN256 MIN257 MTM112 MTM122 MTM123 MTM124 MTM125 MTM131 PRO241 PRO242 PRO243 PRO244 QUI115 QUI116 QUI137 QUI200	30	36	0	2	10



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MET161	QUALITY MANAGEMENT IN METALLURGY	AMB110 ARQ208 ARQ209 BCC701 BCC760 CAT124 CIV107 EST202 FIS130 FIS131 FIS132 FIS133 FIS214 GEO104 GEO207 MEC119 MEC134 MEC174 MET121 MET122 MET129 MET130 MET131 MET132 MET133 MET149 MET154 MET155 MET157 MET158 MET268 MET270 MIN244 MIN256 MIN257 MTM112 MTM122 MTM123 MTM124 MTM125 MTM131 PRO241 PRO242 PRO243 PRO244 QUI115 QUI116 QUI137 QUI200	30	36	2	0	10

CODE	ELECTIVE DISCIPLINES	PREREQUISITE	SWL	CWL	CLASSES		SEM
					T	P	
MET305	SPECIAL TOPICS: HYDROMETALLURGY LAB	AMB110 ARQ208 ARQ209 BCC701 BCC760 CAT124 CIV107 EST202 FIS130 FIS131 FIS132 FIS133 FIS214 GEO104 GEO207 MEC119 MEC134 MEC174 MET121 MET122 MET154 MET268 MET270 MTM112 MTM122 MTM123 MTM124 MTM125 MTM131 PRO241 PRO243 QUI115 QUI116 QUI137 QUI200	45	54	0	3	8
MET307	SPECIAL TOPICS: SPECIALTY STEELS	MET154	30	36	2	0	8
MET309	SURFACES AND INTERFACES	MET122	45	54	2	1	8
MET308	CONTINUOUS CASTING OF STEEL	AMB110 ARQ208 ARQ209 BCC701 BCC760 CAT124 CIV107 EST202 FIS130 FIS131 FIS132 FIS133 FIS214 GEO104 GEO207 MEC119 MEC134 MEC174 MET121 MET122 MET129 MET130 MET131 MET132 MET133 MET149 MET154 MET155 MET157 MET158 MET268 MET270 MIN244 MIN256 MIN257 MTM112 MTM122 MTM123 MTM124 MTM125 MTM131 PRO241 PRO242 PRO243 PRO244 QUI115 QUI116 QUI137 QUI200	30	36	2	0	10
BCC702	COMPUTER PROGRAMMING II	BCC701	60	72	2	2	
CAT314	INTRODUCTION TO COMPUTATIONAL FLUID DYNAMICS		45	54	1	2	
FIS522	STRUCTURE AND PROPERTIES OF CERAMICS	MET154	60	72	4	0	
LET966	INTRODUCTION TO BRAZILIAN SIGN LANGUAGE (LIBRAS)		60	72	2	2	
MET300	REFRACTORY MATERIALS	GEO104 MET122	30	36	1	1	
MET301	CORROSION AND PROTECTION OF METALS	MET121	30	36	2	0	
MET302	FUNDAMENTALS OF FRACTURE MECHANICS	MET132 MET154	30	36	2	0	
MET303	FATIGUE OF MATERIALS	MET154 MET158	30	36	2	0	



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							T	P	
MET304	COMPUTATIONAL ANALYSIS OF METALLURGICAL PROCESS	MET121			30	36	2	0	
MET306	SPECIAL TOPICS: ENVIRONMENTAL CONCEPTS				30	36	2	0	
MET310	GEOMETALLURGY	MET121	MET268		30	36	2	0	
MET311	IRON ORE PELLETTIZING	MET121	MET268		30	36	2	0	
MET312	METALS TRANSFORMATIONS AND METAL ALLOYS	AMB110	ARQ208	ARQ209	45	54	2	1	
		BCC701	BCC760	CAT124					
		CIV107	EST202	FIS130					
		FIS131	FIS132	FIS133					
		FIS214	GEO104	GEO207					
		MEC134	MET121	MET122					
		MET154	MET268	MET270					
		MTM112	MTM122	MTM123					
		MTM124	MTM125	MTM131					
		PRO241	QUI115	QUI116					
		QUI137	QUI200						
MET313	HIGH TEMPERATURE OXIDATION OF METALS AND METAL ALLOYS	AMB110	ARQ208	ARQ209	45	54	2	1	
		BCC701	BCC760	CAT124					
		CIV107	EST202	FIS130					
		FIS131	FIS132	FIS133					
		FIS214	GEO104	GEO207					
		MEC134	MET121	MET122					
		MET129	MET131	MET133					
		MET154	MET155	MET268					
		MIN256	MTM112	MTM122					
		MTM123	MTM124	MTM125					
		MTM131	PRO241	PRO244					
		QUI115	QUI116	QUI137					
		QUI200							
MET314	THEORY OF PLASTICITY	AMB110	ARQ208	ARQ209	45	54	2	1	
		BCC701	BCC760	CAT124					
		CIV107	EST202	FIS130					
		FIS131	FIS132	FIS133					
		FIS214	GEO104	GEO207					
		MEC134	MET121	MET122					
		MET129	MET131	MET133					
		MET154	MET155	MET270					
		MIN256	MTM112	MTM122					
		MTM123	MTM124	MTM125					
		MTM131	PRO241	PRO244					
		QUI115	QUI116	QUI137					
		QUI200							
MET315	PROJECT MANAGEMENT IN METALLURGY	AMB110	ARQ208	ARQ209	30	36	2	0	
		BCC701	BCC760	CAT124					
		CIV107	EST202	FIS130					
		FIS131	FIS132	FIS133					
		FIS214	GEO104	GEO207					
		MEC134	MET121	MET122					
		MET129	MET130	MET131					
		MET132	MET133	MET149					
		MET154	MET155	MET157					
		MET158	MET268	MET270					
		MIN256	MIN257	MTM112					
		MTM122	MTM123	MTM124					
		MTM125	MTM131	PRO241					
		PRO243	PRO244	QUI115					
		QUI116	QUI137	QUI200					
MET316	METALLURGY AND ENVIRONMENT	AMB110							
MET317	METALLURGICAL SOLID WASTE AND WASTEWATER	AMB110			30	36	2	0	



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



CODE	ELECTIVE DISCIPLINES	PREREQUISITE	SWL	CWL	CLASSES		SEM
					T	P	
MET318	METAL THERMAL ANALYSIS TECHNIQUES	AMB110 ARQ208 ARQ209 BCC701 BCC760 CAT124 CIV107 EST202 FIS130 FIS131 FIS132 FIS133 FIS214 GEO104 GEO207 MEC134 MET121 MET122 MET129 MET131 MET133 MET154 MET155 MET268 MET270 MIN256 MTM112 MTM122 MTM123 MTM124 MTM125 MTM131 PRO241 PRO244 QUI115 QUI116 QUI137 QUI200	30	36	2	0	
PRO302	ENTREPRENEURIAL ACTIVITIES	AMB110 ARQ208 ARQ209 BCC701 BCC760 CAT124 CIV107 EST202 FIS130 FIS131 FIS132 FIS133 FIS214 GEO104 GEO207 MEC134 MET121 MET122 MET154 MET268 MET270 MTM112 MTM122 MTM123 MTM124 MTM125 MTM131 PRO241 QUI115 QUI116 QUI137 QUI200	60	72	1	3	

CODE	ACTIVITIES	PREREQUISITE	CHARACTER	SWL	SEM
ATV010			MANDATORY	160	
ATV017			MANDATORY	30	

Required Courses Load	Work Load
Mandatory Disciplines	3435
Elective Disciplines	135
Optative Disciplines	0
Facultative Disciplines	0
Activities	190
<b>Total</b>	<b>3760</b>