



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



COURSE OF INDUSTRIAL CHEMISTRY - 2020/1(curriculum 2)  
OURO PRETO'S CAMPUS

CODE	MANDATORY DISCIPLINES	PREREQUISITE	SWL	CWL	CLASSES		SEM
					T	P	
BCC701	COMPUTER PROGRAMMING I		60	72	2	2	1
MTM122	DIFFERENTIAL AND INTEGRAL CALCULUS I		90	108	6	0	1
MTM131	ANALYTICAL GEOMETRY AND VECTOR CALCULUS		60	72	4	0	1
QUI110	OCCUPATIONAL HEALTH AND LABORATORY SAFETY		15	18	1	0	1
QUI158	GENERAL CHEMISTRY A		60	72	4	0	1
QUI182	EXPERIMENTAL GENERAL CHEMISTRY A		30	36	0	2	1
QUI183	INTRODUCTION TO INDUSTRIAL CHEMISTRY		30	36	2	0	1
ARQ212	GRAPHIC EXPRESSION I		60	72	2	2	2
FIS305	THEORETICAL PHYSICS I		60	72	4	0	2
GEO104	MINERALOGY	QUI158 QUI182	60	72	2	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
QUI159	GENERAL CHEMISTRY B	QUI158 QUI182	60	72	4	0	2
QUI184	EXPERIMENTAL GENERAL CHEMISTRY B	QUI158 QUI182	30	36	0	2	2
EST202	STATISTICS AND PROBABILITY	MTM122	60	72	4	0	3
FIS307	THEORETICAL PHYSICS III	FIS305 MTM122	60	72	4	0	3
MEC119	FLUID MECHANICS	MTM123	60	72	2	2	3
QUI185	ORGANIC CHEMISTRY A	QUI159 QUI184	60	72	4	0	3
QUI186	EXPERIMENTAL ORGANIC CHEMISTRY A	QUI159 QUI184	30	36	0	2	3
QUI187	PHYSICAL-CHEMISTRY A	MTM122 QUI158 QUI182	60	72	4	0	3
QUI188	EXPERIMENTAL PHYSICAL-CHEMISTRY A	MTM122 QUI158 QUI182	60	72	0	4	3
QUI189	INORGANIC CHEMISTRY	QUI159 QUI184	30	36	2	0	3
QUI190	EXPERIMENTAL INORGANIC CHEMISTRY	QUI159 QUI184	30	36	0	2	3
CBI256	BIOCHEMISTRY	QUI185 QUI186	60	72	4	0	4
MEC174	MASS AND HEAR TRANSFER I M	MEC119	60	72	2	2	4
QUI191	ORGANIC CHEMISTRY B	QUI185 QUI186	45	54	3	0	4
QUI192	EXPERIMENTAL ORGANIC CHEMISTRY B	QUI185 QUI186	30	36	0	2	4
QUI193	ANALYTICAL CHEMISTRY A	QUI159	45	54	3	0	4
QUI194	EXPERIMENTAL ANALYTICAL CHEMISTRY A	QUI184	45	54	0	3	4
QUI195	PHYSICAL-CHEMISTRY B	QUI187 QUI188	60	72	4	0	4
QUI196	EXPERIMENTAL PHYSICAL-CHEMISTRY B	QUI187 QUI188	60	72	0	4	4
QUI197	THEORITICAL CHEMISTRY OF TRANSITION ELEMENTS	QUI189 QUI190	30	36	2	0	4
QUI198	EXPERIMENTAL CHEMISTRY OF TRANSITION ELEMENTS	QUI189 QUI190	30	36	0	2	4
BCC760	NUMERICAL CALCULUS	BCC701 MTM122	60	72	2	2	5
CBI259	MICROBIOLOGY APPLIED TO INDUSTRIAL CHEMISTRY	CBI256	45	54	2	1	5
FIS302	STRUCTURE OF MATTER I	FIS305 QUI158 QUI182	60	72	4	0	5
FIS308	THEORETICAL PHYSICS IV	FIS307	60	72	4	0	5
QUI199	PHYSICAL METHODS OF ORGANIC ANALYSIS	QUI191 QUI192	60	72	4	0	5
QUI201	ANALYTICAL CHEMISTRY B	QUI193 QUI194	45	54	3	0	5
QUI202	EXPERIMENTAL ANALYTICAL CHEMISTRY B	QUI193 QUI194	45	54	0	3	5
QUI294	UNIT OPERATIONS I	MEC119 QUI195 QUI196	45	54	3	0	5
PRO244	ORGANIZATION AND ADMINISTRATION II	1200 hours	30	36	2	0	6
QUI148	CHEMICAL ANALYSIS OF SOIL, WATER AND AIR	QUI201 QUI202	60	72	0	4	6
QUI154	INSTRUMENTAL ANALYSIS A	QUI201 QUI202	60	72	2	2	6
QUI160	POLYMERS	QUI185 QUI186	60	72	4	0	6
QUI169	ENVIRONMENTAL CHEMISTRY A	QUI185 QUI186	60	72	4	0	6
QUI174	INTRODUCTION TO MATERIALS	QUI187 QUI188	30	36	2	0	6
QUI203	INDUSTRIAL STOICHIOMETRY	QUI193 QUI194	30	36	2	0	6
QUI295	UNIT OPERATIONS II	MEC174 QUI294	45	54	3	0	6
FAR617	BIOTECHNOLOGY	CBI259	45	54	3	0	7
PRO241	ECONOMICS I	1200 hours	30	36	2	0	7



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CODE	MANDATORY DISCIPLINES	PREREQUISITE	SWL	CWL	CLASSES		SEM
					T	P	
QUI149	CHROMATOGRAPHY TECHNIQUES APPLIED TO THE ENVIRONMENT	QUI201 QUI202	60	72	2	2	7
QUI291	ORGANIC PROCESSES I	QUI295	60	72	4	0	7
QUI296	SOLID WASTE AND LIQUID EFFLUENT	QUI185 QUI186	30	36	2	0	7
QUI297	INORGANIC PROCESSES	QUI189 QUI190 QUI294	60	72	4	0	7
ALI229	PROCESSES FOR FOOD CONSERVATION	CBI259	30	36	2	0	8
DIR751	ENVIRONMENTAL LAW	1500 hours	30	36	2	0	8
PRO242	ECONOMICS II	PRO241	30	36	2	0	8
QUI163	ENVIRONMENTAL PROJECTS	QUI169 QUI295	30	36	2	0	8
QUI164	SUPERVISED INTERNSHIP	QUI154 QUI294	160	192	0	10	8
QUI292	ORGANIC PROCESSES II	QUI291	30	36	2	0	8
QUI293	KINETICS AND INDUSTRIAL REACTORS	QUI291 QUI297	60	72	2	2	8

CODE	ELECTIVE DISCIPLINES	PREREQUISITE	SWL	CWL	CLASSES		SEM
					T	P	
BCC702	COMPUTER PROGRAMMING II	BCC701	60	72	2	2	
CAD405	BUSINESS PLAN AND ENTREPRENEURSHIP SEMINAR	1000 hours	60	72	4	0	
FAR402	WATER QUALITY	QUI201 QUI202	60	72	2	2	
FAR408	BIOTECHNOLOGY II	FAR617	60	72	0	4	
FIS319	MATERIAL PHYSICS I	FIS305 QUI159 QUI184	60	72	4	0	
FIS522	STRUCTURE AND PROPERTIES OF CERAMICS	FIS302	60	72	4	0	
GEO169	ENVIRONMENTAL GEOCHEMISTRY	QUI154	45	54	3	0	
LET966	INTRODUCTION TO BRAZILIAN SIGN LANGUAGE (LIBRAS)		60	72	2	2	
PRO243	ORGANIZATION AND ADMINISTRATION I	1200 hours	30	36	2	0	
QUI014	CORROSION OF METALLIC MATERIALS	QUI174 QUI195 QUI196	30	36	2	0	
QUI015	INTRODUCTION TO BIOINORGANIC CHEMISTRY	QUI189 QUI190	30	36	2	0	
QUI175	ORIGIN AND CHARACTERIZATION OF OIL AND DERIVATIVES	1200 hours	45	54	2	1	
QUI178	POLYMERIC MATERIALS RECYCLING	QUI160	30	36	2	0	
QUI179	INKS AND VARNISH	QUI160	30	36	2	0	
QUI181	CHEMOMETRICS	QUI154 QUI199	30	36	2	0	
QUI301	INDUSTRIAL EFFLUENT TREATMENT	QUI195 QUI196 QUI294	60	72	4	0	
QUI501	INTRODUCTION TO CHEMISTRY OF CARBOHYDRATES	QUI191 QUI192	30	36	2	0	
QUI505	GREEN TECHNOLOGIES FOR CHEMICAL INDUSTRIES	QUI187 QUI188 QUI191 QUI192	45	54	3	0	
QUI506	INTRODUCTION TO PHYSICAL CHEMISTRY OF SURFACES	QUI187 QUI188	30	36	2	0	
QUI507	TECHNOLOGICAL ENTREPRENEURSHIP	1635 hours	30	36	2	0	
QUI508	INTRODUCTION TO COMPUTATIONAL CHEMISTRY METHODS	BCC701 QUI187 QUI188	45	54	3	0	
QUI509	INTRODUCTION TO CATALYSIS	QUI189 QUI190	30	36	2	0	
QUI510	SPECIAL TOPICS IN POLYMERIC MATERIALS	QUI160	60	72	2	2	
QUI511	INTRODUCTION TO CHEMISTRY OF DRUGS	QUI191 QUI192	30	36	2	0	
QUI512	TECHNOLOGY IN FRAGRANCES AND FLAVORINGS	QUI189 QUI191	30	36	2	0	
QUI513	PRACTICE OF PROTECTING INTELLECTUAL PROPERTY-PATENTS	1200 hours	60	72	4	0	

CODE	ACTIVITIES	PREREQUISITE	CHARACTER	SWL	SEM
ATV100			MANDATORY	90	



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Required Courses Load	Work Load
Mandatory Disciplines	3100
Elective Disciplines	90
Optative Disciplines	0
Facultative Disciplines	0
Activities	90
<b>Total</b>	<b>3280</b>