



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



COURSE OF INDUSTRIAL CHEMISTRY - 2026/1(curriculum 3)

OURO PRETO'S CAMPUS

CODE	MANDATORY DISCIPLINES	PREREQUISITE	SWL/EWL	CWL	CLASSES		SEM
					T	P	
BCC104	ALGORITHMS AND PROGRAMMING I		60/0	72	2	2	1
MTM122	DIFFERENTIAL AND INTEGRAL CALCULUS I		90/0	108	6	0	1
MTM131	ANALYTICAL GEOMETRY AND VECTOR CALCULUS		60/0	72	4	0	1
QUI023	OCCUPATIONAL HEALTH AND LABORATORY SAFETY		15/0	18	1	0	1
QUI024	GENERAL CHEMISTRY I		60/0	72	4	0	1
QUI025	EXPERIMENTAL GENERAL CHEMISTRY I		30/0	36	0	2	1
QUI026	INTRODUCTION TO INDUSTRIAL CHEMISTRY		30/15	36	1	1	1
ARQ205	GRAPHIC REPRESENTATION		60/0	72	2	2	2
FIS106	FUNDAMENTALS OF MECHANICS	MTM122	60/0	72	4	0	2
GEO176	MINERALOGY		45/0	54	1	2	2
MTM112	INTRODUCTION TO LINEAR ALGEBRA	MTM131	60/0	72	4	0	2
MTM123	DIFFERENTIAL AND INTEGRAL CALCULUS II	MTM122	60/0	72	4	0	2
QUI027	GENERAL CHEMISTRY II	QUI024	60/0	72	4	0	2
QUI028	EXPERIMENTAL GENERAL CHEMISTRY II	QUI024 QUI025	30/0	36	0	2	2
EST202	STATISTICS AND PROBABILITY	MTM122	60/0	72	4	0	3
FIS108	FUNDAMENTALS OF FLUIDS, OSCILLATIONS AND WAVES	FIS106	30/0	36	2	0	3
QUI029	PHYSICAL CHEMISTRY I	MTM122 QUI027 QUI028	60/0	72	4	0	3
QUI030	EXPERIMENTAL PHYSICAL-CHEMISTRY I	MTM122 QUI027 QUI028	30/0	36	0	2	3
QUI031	ANALYTICAL CHEMISTRY I	QUI027 QUI028	60/0	72	4	0	3
QUI032	EXPERIMENTAL ANALYTICAL CHEMISTRY I	QUI027 QUI028	30/0	36	0	2	3
QUI033	INORGANIC CHEMISTRY	QUI027	60/0	72	4	0	3
QUI034	EXPERIMENTAL INORGANIC CHEMISTRY I	QUI027	30/0	36	0	2	3
BCC105	NUMERICAL CALCULUS	BCC104 MTM122	60/0	72	2	2	4
FIS110	FUNDAMENTALS OF OPTICS AND QUANTUM MECHANICS	FIS108	30/0	36	2	0	4
QUI035	ORGANIC CHEMISTRY I	QUI027	60/0	72	4	0	4
QUI036	EXPERIMENTAL ORGANIC CHEMISTRY I	QUI027 QUI028	30/0	36	0	2	4
QUI037	ANALYTICAL CHEMISTRY II	QUI031 QUI032	30/0	36	2	0	4
QUI038	EXPERIMENTAL ANALYTICAL CHEMISTRY II	QUI031 QUI032	30/0	36	0	2	4
QUI039	PHYSICAL-CHEMISTRY II	QUI029 QUI030	60/0	72	4	0	4
QUI040	EXPERIMENTAL PHYSICAL-CHEMISTRY II	QUI029 QUI030	30/0	36	0	2	4
QUI041	EXPERIMENTAL INORGANIC CHEMISTRY II	QUI033	30/0	36	0	2	4
CBI256	BIOCHEMISTRY	QUI035 QUI036	60/0	72	4	0	5
FIS109	FUNDAMENTALS OF ELECTROMAGNETISM	FIS106 MTM122	60/0	72	4	0	5
FIS148	STRUCTURE OF MATTER I	FIS106 FIS110 QUI024 QUI025	60/0	72	4	0	5
QUI042	CHEMISTRY OF MATERIALS	QUI039	60/0	72	4	0	5
QUI045	ORGANIC CHEMISTRY II	QUI035	60/0	72	4	0	5
QUI046	EXPERIMENTAL ORGANIC CHEMISTRY II	QUI035 QUI036	30/0	36	0	2	5
QUI047	INSTRUMENTAL ANALYTICAL CHEMISTRY	QUI037 QUI038	60/0	72	2	2	5
CBI259	MICROBIOLOGY APPLIED TO INDUSTRIAL CHEMISTRY	CBI256	45/0	54	2	1	6
QUI043	UNIT OPERATIONS I	QUI039	60/15	72	3	1	6
QUI048	PHYSICAL METHODS OF ORGANIC ANALYSIS	QUI045	60/0	72	4	0	6
QUI050	ENVIRONMENTAL CHEMISTRY	QUI035	60/0	72	4	0	6
QUI052	INDUSTRIAL STOICHIOMETRY	MTM112 QUI027	30/0	36	2	0	6
QUI053	EXTENSION PROJECTS I		30/30	36	1	1	6
QUI056	CHROMATOGRAPHIC ANALYSIS TECHNIQUES	QUI047	60/0	72	2	2	6
QUI058	SOLID WASTES AND LIQUID EFFLUENTS	1000 hours	60/15	72	3	1	6
PRO246	ORGANIZATION AND ADMINISTRATION II	1200 hours	30/0	36	2	0	7
QUI049	ANALYSIS OF WATER, AIR, AND SOIL	QUI047	60/0	72	2	2	7
QUI051	UNIT OPERATIONS II	QUI043	60/15	72	3	1	7



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CODE	MANDATORY DISCIPLINES	PREREQUISITE	SWL/EWL	CWL	CLASSES		SEM
					T	P	
QUI054	INORGANIC PROCESSES	QUI033 QUI034 QUI043	60/0	72	4	0	7
QUI055	EXTENSION PROJECTS II		45/45	54	1	2	7
QUI057	ORGANIC PROCESSES	QUI045	60/0	72	4	0	7
QUI059	KINETICS AND INDUSTRIAL REACTORS	BCC105 QUI039	60/0	72	4	0	7
QUI060	SUPERVISED INTERNSHIP	1000 hours	160/0	192	1	10	8

CODE	ELECTIVE DISCIPLINES	PREREQUISITE	SWL/EWL	CWL	CLASSES		SEM
					T	P	
ALI229	PROCESSES FOR FOOD CONSERVATION	CBI259	30/0	36	2	0	
BCC106	ALGORITHMS AND PROGRAMMING II	BCC104	60/0	72	2	2	
CAD405	SEMINAR IN BUSINESS PLAN AND ENTREPRENEURSHIP	1000 hours	60/0	72	4	0	
CAT178	INTRODUCTION TO INDUSTRY 4.0 TECHNOLOGIES		60/0	72	2	2	
DIR001	INTRODUCTION AT LEGISLATION AND ENVIRONMENTAL LAW	1500 hours	30/0	36	2	0	
FAR402	WATER QUALITY	QUI037 QUI038	60/0	72	2	2	
FAR408	BIOTECHNOLOGY II (INDUSTRIAL)	FAR617	60/0	72	0	4	
FAR617	BIOTECHNOLOGY	CBI259	45/0	54	3	0	
FIS319	MATERIAL PHYSICS I	FIS106 QUI027	60/0	72	4	0	
FIS525	CERAMIC STRUCTURE AND PROPERTIES	FIS148	60/0	72	4	0	
GEO169	ENVIRONMENTAL GEOCHEMISTRY	QUI047	45/0	54	3	0	
LET966	INTRODUCTION TO THE BRAZILIAN SIGN LANGUAGE		60/0	72	2	2	
MEC119	FLUID MECHANICS	MTM123	60/0	72	2	2	
MEC126	HEAT AND MASS TRANSFER	MEC119	60/0	72	3	1	
PRO073	QUALITYENGINEERING		60/15	72	3	1	
PRO081	INNOVATION AND TECHNOLOGY MANAGEMENT		60/30	72	2	2	
PRO241	ECONOMICS I	1200 hours	30/0	36	2	0	
PRO242	ECONOMICS II	PRO241	30/0	36	2	0	
PRO245	ORGANIZATION AND ADMINISTRATION I	1200 hours	30/0	36	2	0	
QUI014	CORROSION OF METALLIC MATERIALS	QUI042	30/0	36	2	0	
QUI061	CHEMOMETRICS	QUI047	30/0	36	2	0	
QUI062	INTRODUCTION TO BIOINORGANIC CHEMISTRY	QUI033	30/0	36	2	0	
QUI063	INTRODUCTION TO MODELING AND SIMULATION OF CHEMICAL PROCESSES	QUI059	30/0	36	2	0	
QUI064	INTRODUCTION TO THE BASIC PRINCIPLES OF NMR	FIS148	30/0	36	2	0	
QUI065	INTRODUCTION TO PHYSICAL-CHEMISTRY OF MACROMOLECULES IN SOLUTION	QUI039	30/0	36	2	0	
QUI066	PHYSICAL-CHEMISTRY III	MTM123 QUI029	60/0	72	4	0	
QUI067	INTRODUCTION TO PHYSICAL CHEMISTRY OF SURFACES	QUI029	30/0	36	2	0	
QUI068	INTRODUCTION TO COMPUTATIONAL CHEMISTRY METHOD	CBI256 FIS148 QUI029	30/0	36	2	0	
QUI069	SPECIAL TOPICS ON POLYMERS	QUI042	60/0	72	4	0	
QUI070	DESIGN OF EXPERIMENTS	EST202	45/0	54	3	0	
QUI071	ENVIRONMENTAL PROJECTS	QUI050 QUI051	30/0	36	2	0	
QUI072	INTRODUCTION TO BIOREFINERY	QUI043	30/0	36	2	0	
QUI073	SAMPLE PREPARATION METHODS	QUI037 QUI038	30/0	36	1	1	
QUI074	HISTORY OF CHEMISTRY	QUI027 QUI028	15/60	72	1	3	
QUI501	INTRODUCTION TO CARBOHYDRATE CHEMISTRY	QUI035	30/0	36	2	0	
QUI509	INTRODUCTION TO CATALYSIS	QUI033	30/0	36	2	0	
QUI511	INTRODUCTION TO PHARMACEUTICAL CHEMISTRY	QUI035	30/0	36	2	0	

CODE	ACTIVITIES	PREREQUISITE	CHARACTER	SWL	SEM
ATV100			MANDATORY	60	
ATV300			MANDATORY	175	



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Required Courses Load	Work Load
Mandatory Disciplines	2770
Elective Disciplines	90
Optative Disciplines	0
Facultative Disciplines	0
Activities	235
Extensions	310
Total	3095