



Ministry of Education
Federal University of Latin American Integration
Dean's Office for Undergraduate Studies
CURRICULUM - CHEMISTRY - TEACHING DEGREE



COURSE COMPONENTS	PREREQUISITE (P) / COREQUISITE (C)	CREDITS	CREDIT HOURS				
			THEORETICAL	TECHNICAL SCIENTIFIC PRACTICE	PRACTICE OF THE COURSE COMPONENTS (Resolution CNE/CP 02/2019)	MANDATORY INTERNSHIP	TOTAL
SEMESTER 1							
GENERAL CHEMISTRY I		4	60	0	0	-	60
EXPERIMENTAL GENERAL CHEMISTRY		4	0	45	15	-	60
HISTORY AND EPISTEMOLOGY OF CHEMISTRY I		2	30	0	0	-	30
FUNDAMENTALS OF LATIN AMERICA I		4	60	0	0	-	60
ADDITIONAL BASIC PORTUGUESE/SPANISH		6	90	0	0	-	90
TOTAL NUMBERS IN THE SEMESTER		20	240	45	15	0	300
SEMESTER 2							
CONCEPTS IN MODERN CHEMISTRY		2	15	0	15	-	30
CALCULUS I		4	60	0	0	-	60
FUNDAMENTALS OF LATIN AMERICA II		4	60	0	0	-	60
INTRODUCTION TO SCIENTIFIC THINKING		4	60	0	0	-	60
ADDITIONAL INTERMEDIATE PORTUGUESE/SPANISH I	ADDITIONAL BASIC PORTUGUESE/SPANISH (P)	6	90	0	0	-	90
TOTAL NUMBERS IN THE SEMESTER		20	285	0	15	0	300
SEMESTER 3							
GENERAL CHEMISTRY II	GENERAL CHEMISTRY I (P)	4	60	0	0	-	60
CALCULUS II	CALCULUS I (P)	4	60	0	0	-	60
GENERAL PHYSICS APPLIED TO CHEMISTRY I		4	60	0	0	-	60
FUNDAMENTALS OF LATIN AMERICA III	FUNDAMENTALS OF LATIN AMERICA I AND II (P)	2	30	0	0	-	30
ETHICS AND SCIENCE		4	60	0	0	-	60
TOTAL NUMBERS IN THE SEMESTER		18	270	0	0	0	270

SEMESTER 4						
QUALITATIVE ANALYTICAL CHEMISTRY	GENERAL CHEMISTRY I AND EXPERIMENTAL GENERAL CHEMISTRY (P)	4	15	30	15	-
INORGANIC CHEMISTRY I	GENERAL CHEMISTRY I (P)	4	60	0	0	-
RESEARCH IN THE TEACHING OF CHEMISTRY I		2	15	0	15	-
GENERAL PHYSICS APPLIED TO CHEMISTRY II	GENERAL PHYSICS APPLIED TO CHEMISTRY I (P)	4	60	0	0	-
EXPERIMENTAL PHYSICS FOR CHEMISTRY	GENERAL PHYSICS APPLIED TO CHEMISTRY I (P)	2	0	15	15	-
HISTORY, EDUCATIONAL POLICIES AND ORGANIZATION OF BASIC EDUCATION		4	45	0	15	-
TOTAL NUMBERS IN THE SEMESTER		20	195	45	60	0
SEMESTER 5						
QUANTITATIVE ANALYTICAL CHEMISTRY	QUALITATIVE ANALYTICAL CHEMISTRY (P)	6	15	45	30	-
INORGANIC CHEMISTRY II	INORGANIC CHEMISTRY I (P)	4	60	0	0	-
EXPERIMENTAL INORGANIC CHEMISTRY	EXPERIMENTAL GENERAL CHEMISTRY (P)	4	0	45	15	-
STUDIES ON CURRICULUM AND ASSESSMENT	GENERAL PHYSICS APPLIED TO CHEMISTRY I (P)	2	30	0	0	-
EDUCATIONAL PSYCHOLOGY	GENERAL PHYSICS APPLIED TO CHEMISTRY I (P)	2	30	0	0	-
INTEGRATIVE RESEARCH SEMINARS		2	15	0	15	-
TOTAL NUMBERS IN THE SEMESTER		20	150	90	60	0
SEMESTER 6						
ORGANIC CHEMISTRY I	GENERAL CHEMISTRY II (P)	4	60	0	0	-
EXPERIMENTAL ORGANIC CHEMISTRY	GENERAL CHEMISTRY II AND EXPERIMENTAL GENERAL CHEMISTRY (P)	4	0	45	15	-
PHYSICAL CHEMISTRY I	GENERAL CHEMISTRY II AND GENERAL PHYSICS APPLIED TO CHEMISTRY I (P)	4	60	0	0	-
INCLUSIVE EDUCATION	EDUCATIONAL PSYCHOLOGY (P)	2	15	0	15	-
ELECTIVE		2	-	-	-	-
MANDATORY INTERNSHIP I	GENERAL CHEMISTRY II; INORGANIC CHEMISTRY II; RESEARCH IN CHEMISTRY TEACHING I; HISTORY, EDUCATIONAL POLICIES AND ORGANIZATION OF BASIC EDUCATION; HISTORY AND EPISTEMOLOGY OF CHEMISTRY I (P)	4	-	-	-	60
TOTAL NUMBERS IN THE SEMESTER		20	135	45	30	60
SEMESTER 7						
ORGANIC CHEMISTRY II	ORGANIC CHEMISTRY I (P)	4	60	0	0	-
PHYSICAL CHEMISTRY II	PHYSICAL CHEMISTRY I (P)	4	60	0	0	-

HISTORY AND EPISTEMOLOGY OF CHEMISTRY II	HISTORY AND EPISTEMOLOGY OF CHEMISTRY I; GENERAL CHEMISTRY II (P) RESEARCH IN CHEMISTRY TEACHING I;	4	60	0	0	-	60
INSTRUMENTATION FOR TEACHING CHEMISTRY	HISTORY AND EPISTEMOLOGY OF CHEMISTRY I; EDUCATIONAL PSYCHOLOGY; HISTORY, EDUCATIONAL POLICIES AND ORGANIZATION OF BASIC EDUCATION; PHYSICAL CHEMISTRY I; ORGANIC CHEMISTRY I (P)	4	15	0	45	-	60
BRAZILIAN SIGN LANGUAGE - LIBRAS I		2	15	15	0	-	30
ELECTIVE		2	-	-	-	-	30
TOTAL NUMBERS IN THE SEMESTER		20	210	15	45	0	300
SEMESTER 8							
PHYSICAL CHEMISTRY III	PHYSICAL CHEMISTRY II (P)	4	60	0	0	-	60
EXPERIMENTAL PHYSICAL CHEMISTRY	PHYSICAL CHEMISTRY II (P)	4	0	45	15	-	60
RESEARCH IN CHEMISTRY TEACHING II	RESEARCH IN CHEMISTRY TEACHING I; HISTORY AND EPISTEMOLOGY OF CHEMISTRY II (P)	4	15	0	45	-	60
BRAZILIAN SIGN LANGUAGE - LIBRAS II	BRAZILIAN SIGN LANGUAGE - LIBRAS I (P)	2	10	20	0	-	30
ELECTIVE		4	-	-	-	-	60
MANDATORY INTERNSHIP II	MANDATORY INTERNSHIP I; ORGANIC CHEMISTRY I; PHYSICAL CHEMISTRY I; HISTORY AND EPISTEMOLOGY OF CHEMISTRY II; STUDIES ON CURRICULUM AND ASSESSMENT (P)	4	-	-	-	60	60
TOTAL NUMBERS IN THE SEMESTER		22	85	65	60	60	330
SEMESTER 9							
ENVIRONMENTAL CHEMISTRY AND SOCIETY	QUANTITATIVE ANALYTICAL CHEMISTRY (P)	4	30	0	30	-	60
INSTRUMENTATION FOR TEACHING CHEMISTRY II	INSTRUMENTATION FOR TEACHING CHEMISTRY I (P)	4	0	0	60	-	60
INSTRUMENTAL CHEMISTRY	INORGANIC CHEMISTRY II; QUANTITATIVE ANALYTICAL CHEMISTRY	4	0	30	30	-	60
FINAL PAPER I	MANDATORY INTERNSHIP II (P)	1	15	0	0	-	15
MANDATORY INTERNSHIP III	MANDATORY INTERNSHIP II (P)	10	-	-	-	150	150
TOTAL NUMBERS IN THE SEMESTER		23	45	30	120	150	345
SEMESTER 10							
FUNDAMENTALS OF BIOCHEMISTRY	ORGANIC CHEMISTRY I (P)	4	30	15	15	-	60
MINERALOGY	ORGANIC CHEMISTRY II (P)	2	15	0	15	-	30
ELECTIVE		2	-	-	-	-	30
FINAL PAPER II	FINAL PAPER I (P)	2	30	0	0	-	30

MANDATORY INTERNSHIP IV	MANDATORY INTERNSHIP III (P)	14	-	-	-	210	210
TOTAL NUMBERS IN THE SEMESTER		24	75	15	30	210	360
COMPLEMENTARY ACADEMIC ACTIVITIES							
COMPLEMENTARY ACADEMIC ACTIVITIES		16					240
TOTAL NUMBERS OF ELECTIVES							
TOTAL NUMBER OF ELECTIVES		10					150
TOTAL CREDIT HOURS OF THE COURSE				MINIMUM CLOCK HOURS REQUIRED BY MEC			
3345				2800			
TOTAL HOURS - PRACTICE OF THE COURSE COMPONENTS				MINIMUM CLOCK HOURS REQUIRED BY MEC			
240				MINIMUM CLOCK HOURS REQUIRED BY MEC			
TOTAL HOURS - MANDATORY INTERNSHIP				MINIMUM CLOCK HOURS REQUIRED BY MEC			

DISCIPLINES OFFERED BY THE COURSE	PREREQUISITE (P) / COREQUISITE (C)	CREDITS	CREDIT HOURS (CLASS HOURS)			
			THEORETICAL	TECHNICAL SCIENTIFIC PRACTICE	PRACTICE AS A COURSE COMPONENT (Resolution CNE/CP 02/2002)	TOTAL
SPECIAL TOPICS IN CHEMISTRY I		2	30	0	0	30
SPECIAL TOPICS IN CHEMISTRY II		2	30	0	0	30
FOOD CHEMISTRY		2	30	0	0	30
STRUCTURE OF SOLIDS		2	30	0	0	30
CHEMISTRY OF MATERIALS		4	60	0	0	60
CHEMICAL TECHNOLOGY		2	30	0	0	30
GREEN CHEMISTRY		2	30	0	0	30
ELECTROCHEMISTRY		2	30	0	0	30
ENGLISH FOR ACADEMIC PURPOSES		2	30	0	0	30