

Ministry of Education Federal University of Latin American Integration Dean's Office for Undergraduate Studies



CURRICULUM - BIOLOGICAL SCIENCES - ECOLOGY AND BIODIVERSITY

COURSE COMPONENT		CREDITS THEORETICA			CREDIT HOURS		
	PREREQUISITE (P) / COREQUISITE (C)		THEORETICA L	PRACTICE	MANDATORY INTERNSHIP	COMMUNITY OUTREACH	TOTAL HOURS
	SEMESTER 1						
UNDAMENTALS OF LATIN AMERICA I	None	4	60				60
DDITIONAL BASIC PORTUGUESE / SPANISH	None	6	90				90
LEMENTARY MATHEMATICS	None	4	60				60
ENERAL CHEMISTRY	None	4	60				60
LANT ANATOMY AND MORPHOLOGY	None	4	30	30			60
ORK OF THE BIOLOGIST	None	1	15				15
ITRODUCTION TO TAXONOMY AND BIOLOGICAL YSTEMATICS	None	3	45				45
TOTAL NUMBERS IN THE SEMESTE	R	26	360	30			390
	SEMESTER 2						
JNDAMENTALS OF LATIN AMERICA II	None	4	60				60
ITRODUCTION TO SCIENTIFIC THINKING	None	4	60				60
							90
DDITIONAL INTERMEDIATE PORTUGUESE / SPANISH	ADDITIONAL BASIC PORTUGUESE / SPANISH (P)	6	90				
ELL BIOLOGY	None	6	60	30			90
IVERSITY OF PROTOZOA AND INTRODUCTION TO IETAZOA	None	4	45	15			60
IVERSITY OF ALGAE AND FUNGI	None	4	30	30			60
TOTAL NUMBERS IN THE SEMESTE	R	28	345	75			420
	SEMESTER 3						
UNDAMENTALS OF LATIN AMERICA III	FUNDAMENTALS OF LATIN AMERICA I AND II (P)	2	30				30
THICS AND SCIENCE	None	4	60				60
IOCHEMISTRY	GENERAL CHEMISTRY (P)	5	60	15			75
IVERSITY OF ARCHEGONIATE PLANTS	DIVERSITY OF ALGAE AND FUNGI (P)	3	30	15			45
	DIV. OF PROTOZOA AND INTRODUCTION TO						90
IVERSITY OF PROTOSTOMIA	METAZOA (P)	6	45	45			
HYSICS A	None	4	60				60
SENETICS	CELL BIOLOGY (P)	6	60	30			90
TOTAL NUMBERS IN THE SEMESTE		30	345	105			450
	SEMESTER 4						
IOLECULAR BIOLOGY	GENETICS (P); BIOCHEMISTRY (P)	4	45	15			60
.022002 11 8102001	CENETICO (1), BIOCHEMICTICI (1)						
			30	30			60
IVERSITY OF ANGIOSPERMS	DIVERSITY OF ARCHEGONIATE PLANTS (P) DIV. OF PROTOZOA AND INTRODUCTION TO	4	30	30			
IVERSITY OF ANGIOSPERMS IVERSITY OF DEUTEROSTOMES	DIVERSITY OF ARCHEGONIATE PLANTS (P) DIV. OF PROTOZOA AND INTRODUCTION TO METAZOA (P)	4	45	30 15			60
IVERSITY OF ANGIOSPERMS IVERSITY OF DEUTEROSTOMES IRGANISM AND POPULATION ECOLOGY	DIVERSITY OF ARCHEGONIATE PLANTS (P) DIV. OF PROTOZOA AND INTRODUCTION TO METAZOA (P) None	4 4 4	45 60				60
IVERSITY OF ANGIOSPERMS IVERSITY OF DEUTEROSTOMES IRGANISM AND POPULATION ECOLOGY THNOBIOLOGY	DIVERSITY OF ARCHEGONIATE PLANTS (P) DIV. OF PROTOZOA AND INTRODUCTION TO METAZOA (P) None None	4 4 4 2	45 60 30	15			60 60 30
IVERSITY OF ANGIOSPERMS IVERSITY OF DEUTEROSTOMES IRGANISM AND POPULATION ECOLOGY THNOBIOLOGY VOLUTION	DIVERSITY OF ARCHEGONIATE PLANTS (P) DIV. OF PROTOZOA AND INTRODUCTION TO METAZOA (P) None None GENETICS (P)	4 4 4 2 6	45 60 30 60				60 60 30 90
IVERSITY OF ANGIOSPERMS IVERSITY OF DEUTEROSTOMES IVERSITY OF DEUTEROSTOMES IVERSITY OF DEUTEROSTOMES IVERSITY OF DEUTEROSTOMES IVERSITY OF ANGIOSPERMS IVERSITY OF A	DIVERSITY OF ARCHEGONIATE PLANTS (P) DIV. OF PROTOZOA AND INTRODUCTION TO METAZOA (P) None None GENETICS (P) None	4 4 4 2 6 4	45 60 30 60	15			60 60 30 90 60
IVERSITY OF ANGIOSPERMS IVERSITY OF DEUTEROSTOMES RGANISM AND POPULATION ECOLOGY THNOBIOLOGY VOLUTION	DIVERSITY OF ARCHEGONIATE PLANTS (P) DIV. OF PROTOZOA AND INTRODUCTION TO METAZOA (P) None None GENETICS (P) None	4 4 4 2 6	45 60 30 60	15			60 60 30 90
IVERSITY OF ANGIOSPERMS IVERSITY OF DEUTEROSTOMES IRGANISM AND POPULATION ECOLOGY THNOBIOLOGY VOLUTION NGLISH FOR ACADEMIC PURPOSES I TOTAL NUMBERS IN THE SEMESTE	DIVERSITY OF ARCHEGONIATE PLANTS (P) DIV. OF PROTOZOA AND INTRODUCTION TO METAZOA (P) None None GENETICS (P) None R SEMESTER 5	4 4 4 2 6 4 28	45 60 30 60 60 330	15			60 60 30 90 60 420
IVERSITY OF ANGIOSPERMS IVERSITY OF DEUTEROSTOMES IRGANISM AND POPULATION ECOLOGY THNOBIOLOGY VOLUTION NGLISH FOR ACADEMIC PURPOSES I TOTAL NUMBERS IN THE SEMESTE	DIVERSITY OF ARCHEGONIATE PLANTS (P) DIV. OF PROTOZOA AND INTRODUCTION TO METAZOA (P) None None GENETICS (P) None SEMESTER 5 ELEMENTARY MATHEMATICS (P)	4 4 4 2 6 4 28	45 60 30 60 60 330	15			60 60 30 90 60 420
IVERSITY OF ANGIOSPERMS IVERSITY OF DEUTEROSTOMES RGANISM AND POPULATION ECOLOGY THNOBIOLOGY VOLUTION NGLISH FOR ACADEMIC PURPOSES I TOTAL NUMBERS IN THE SEMESTE	DIVERSITY OF ARCHEGONIATE PLANTS (P) DIV. OF PROTOZOA AND INTRODUCTION TO METAZOA (P) None None GENETICS (P) None R SEMESTER 5	4 4 4 2 6 4 28	45 60 30 60 60 330	15			60 60 30 90 60 420
IVERSITY OF ANGIOSPERMS IVERSITY OF DEUTEROSTOMES RGANISM AND POPULATION ECOLOGY THNOBIOLOGY VOLUTION NGLISH FOR ACADEMIC PURPOSES I TOTAL NUMBERS IN THE SEMESTE IOSTATISTICS IOETHICS AND BIOSAFETY	DIVERSITY OF ARCHEGONIATE PLANTS (P) DIV. OF PROTOZOA AND INTRODUCTION TO METAZOA (P) None None GENETICS (P) None SEMESTER 5 ELEMENTARY MATHEMATICS (P)	4 4 4 2 6 4 28	45 60 30 60 60 330	15			60 60 30 90 60 420
IVERSITY OF ANGIOSPERMS IVERSITY OF DEUTEROSTOMES IRGANISM AND POPULATION ECOLOGY THNOBIOLOGY VOLUTION NGLISH FOR ACADEMIC PURPOSES I TOTAL NUMBERS IN THE SEMESTE IOSTATISTICS IOETHICS AND BIOSAFETY IELD ECOLOGY I	DIVERSITY OF ARCHEGONIATE PLANTS (P) DIV. OF PROTOZOA AND INTRODUCTION TO METAZOA (P) None None GENETICS (P) None R SEMESTER 5 ELEMENTARY MATHEMATICS (P) ETHICS AND SCIENCE (P) ORGANISM AND POPULATION ECOLOGY (P)	4 4 4 2 6 4 28	45 60 30 60 60 330 60 330	30			60 60 30 90 60 420 60
IVERSITY OF ANGIOSPERMS IVERSITY OF DEUTEROSTOMES RGANISM AND POPULATION ECOLOGY THNOBIOLOGY VOLUTION NGLISH FOR ACADEMIC PURPOSES I TOTAL NUMBERS IN THE SEMESTE IOSTATISTICS IOETHICS AND BIOSAFETY IELD ECOLOGY I COLOGY OF COMMUNITIES AND ECOSYSTEMS	DIVERSITY OF ARCHEGONIATE PLANTS (P) DIV. OF PROTOZOA AND INTRODUCTION TO METAZOA (P) None None GENETICS (P) None SEMESTER 5 ELEMENTARY MATHEMATICS (P) ETHICS AND SCIENCE (P) ORGANISM AND POPULATION ECOLOGY (P) ORGANISM AND POPULATION ECOLOGY (P)	4 4 4 2 6 4 28	45 60 30 60 60 330 60 330	30 90 60		15	60 60 30 90 60 420 60 30 60
IVERSITY OF ANGIOSPERMS IVERSITY OF DEUTEROSTOMES RGANISM AND POPULATION ECOLOGY THNOBIOLOGY VOLUTION NGLISH FOR ACADEMIC PURPOSES I TOTAL NUMBERS IN THE SEMESTE IOSTATISTICS IOETHICS AND BIOSAFETY IELD ECOLOGY I COLOGY OF COMMUNITIES AND ECOSYSTEMS ECOLOGY AND PALEONTOLOGY	DIVERSITY OF ARCHEGONIATE PLANTS (P) DIV. OF PROTOZOA AND INTRODUCTION TO METAZOA (P) None None GENETICS (P) None SEMESTER 5 ELEMENTARY MATHEMATICS (P) ETHICS AND SCIENCE (P) ORGANISM AND POPULATION ECOLOGY (P) None	4 4 4 2 6 4 28 4 2 4 4 5	45 60 30 60 60 330 60 30 60 45	30 90 60 30		15	60 60 30 90 60 420 60 30 60
IVERSITY OF ANGIOSPERMS IVERSITY OF DEUTEROSTOMES RGANISM AND POPULATION ECOLOGY THNOBIOLOGY VOLUTION NGLISH FOR ACADEMIC PURPOSES I TOTAL NUMBERS IN THE SEMESTE IOSTATISTICS IOETHICS AND BIOSAFETY IELD ECOLOGY I COLOGY OF COMMUNITIES AND ECOSYSTEMS EOLOGY AND PALEONTOLOGY EOPROCESSING	DIVERSITY OF ARCHEGONIATE PLANTS (P) DIV. OF PROTOZOA AND INTRODUCTION TO METAZOA (P) None None GENETICS (P) None SEMESTER 5 ELEMENTARY MATHEMATICS (P) ETHICS AND SCIENCE (P) ORGANISM AND POPULATION ECOLOGY (P) None None None	4 4 4 2 6 4 28 4 2 4 4 5 3	45 60 30 60 60 330 60 30 60 45 15	30 90 60 30 30		15	60 60 30 90 60 420 60 30 60
IVERSITY OF ANGIOSPERMS IVERSITY OF DEUTEROSTOMES RGANISM AND POPULATION ECOLOGY THNOBIOLOGY VOLUTION NGLISH FOR ACADEMIC PURPOSES I TOTAL NUMBERS IN THE SEMESTE IOSTATISTICS IOETHICS AND BIOSAFETY ELD ECOLOGY I COLOGY OF COMMUNITIES AND ECOSYSTEMS EOLOGY AND PALEONTOLOGY EOPROCESSING IMUNOLOGY	DIVERSITY OF ARCHEGONIATE PLANTS (P) DIV. OF PROTOZOA AND INTRODUCTION TO METAZOA (P) None None GENETICS (P) None SEMESTER 5 ELEMENTARY MATHEMATICS (P) ETHICS AND SCIENCE (P) ORGANISM AND POPULATION ECOLOGY (P) None None None CELL BIOLOGY (P)	4 4 4 2 6 4 28 4 2 4 4 5 3 3	45 60 30 60 60 330 60 30 60 45 15 30	30 90 60 30 30 15		15	60 60 30 90 60 420 60 30 60 60 75 45
VERSITY OF ANGIOSPERMS VERSITY OF DEUTEROSTOMES RGANISM AND POPULATION ECOLOGY ITHNOBIOLOGY /OLUTION NGLISH FOR ACADEMIC PURPOSES I TOTAL NUMBERS IN THE SEMESTE OSTATISTICS OETHICS AND BIOSAFETY ELD ECOLOGY I COLOGY OF COMMUNITIES AND ECOSYSTEMS EOLOGY AND PALEONTOLOGY EOPROCESSING	DIVERSITY OF ARCHEGONIATE PLANTS (P) DIV. OF PROTOZOA AND INTRODUCTION TO METAZOA (P) None None GENETICS (P) None SEMESTER 5 ELEMENTARY MATHEMATICS (P) ETHICS AND SCIENCE (P) ORGANISM AND POPULATION ECOLOGY (P) None None None CELL BIOLOGY (P)	4 4 4 2 6 4 28 4 2 4 4 5 3	45 60 30 60 60 330 60 30 60 45 15	30 90 60 30 30			60 60 30 90 60 420 60 30 60 60 75
VERSITY OF ANGIOSPERMS VERSITY OF DEUTEROSTOMES RGANISM AND POPULATION ECOLOGY THNOBIOLOGY VOLUTION NGLISH FOR ACADEMIC PURPOSES I TOTAL NUMBERS IN THE SEMESTE COSTATISTICS OETHICS AND BIOSAFETY ELD ECOLOGY I COLOGY OF COMMUNITIES AND ECOSYSTEMS EOLOGY AND PALEONTOLOGY EOPROCESSING IMUNOLOGY TOTAL NUMBERS IN THE SEMESTE	DIVERSITY OF ARCHEGONIATE PLANTS (P) DIV. OF PROTOZOA AND INTRODUCTION TO METAZOA (P) None None GENETICS (P) None SEMESTER 5 ELEMENTARY MATHEMATICS (P) ETHICS AND SCIENCE (P) ORGANISM AND POPULATION ECOLOGY (P) None None CELL BIOLOGY (P) R SEMESTER 6	4 4 4 2 6 4 28 4 2 4 4 5 3 3 25	45 60 30 60 60 330 60 30 60 45 15 30 240	30 90 60 30 30 15 135			60 60 30 90 60 420 60 30 60 75 45 45
IVERSITY OF ANGIOSPERMS IVERSITY OF DEUTEROSTOMES RGANISM AND POPULATION ECOLOGY THNOBIOLOGY VOLUTION NGLISH FOR ACADEMIC PURPOSES I TOTAL NUMBERS IN THE SEMESTE IOSTATISTICS IOETHICS AND BIOSAFETY IELD ECOLOGY I COLOGY OF COMMUNITIES AND ECOSYSTEMS EOLOGY AND PALEONTOLOGY EOPROCESSING IMUNOLOGY	DIVERSITY OF ARCHEGONIATE PLANTS (P) DIV. OF PROTOZOA AND INTRODUCTION TO METAZOA (P) None None GENETICS (P) None SEMESTER 5 ELEMENTARY MATHEMATICS (P) ETHICS AND SCIENCE (P) ORGANISM AND POPULATION ECOLOGY (P) None None None CELL BIOLOGY (P)	4 4 4 2 6 4 28 4 2 4 4 5 3 3	45 60 30 60 60 330 60 30 60 45 15 30	30 90 60 30 30 15			60 60 30 90 60 420 60 60 75 45 45 375
IVERSITY OF ANGIOSPERMS IVERSITY OF DEUTEROSTOMES RGANISM AND POPULATION ECOLOGY THNOBIOLOGY VOLUTION NGLISH FOR ACADEMIC PURPOSES I TOTAL NUMBERS IN THE SEMESTE IOSTATISTICS IOETHICS AND BIOSAFETY IELD ECOLOGY I COLOGY OF COMMUNITIES AND ECOSYSTEMS EOLOGY AND PALEONTOLOGY EOPROCESSING IMUNOLOGY	DIVERSITY OF ARCHEGONIATE PLANTS (P) DIV. OF PROTOZOA AND INTRODUCTION TO METAZOA (P) None None GENETICS (P) None SEMESTER 5 ELEMENTARY MATHEMATICS (P) ETHICS AND SCIENCE (P) ORGANISM AND POPULATION ECOLOGY (P) None None CELL BIOLOGY (P) R SEMESTER 6	4 4 4 2 6 4 28 4 2 4 4 5 3 3 25	45 60 30 60 60 330 60 30 60 45 15 30 240	30 90 60 30 30 15 135			60 60 30 90 60 420 60 30 60 75 45 45
IVERSITY OF ANGIOSPERMS IVERSITY OF DEUTEROSTOMES RGANISM AND POPULATION ECOLOGY THNOBIOLOGY VOLUTION NGLISH FOR ACADEMIC PURPOSES I TOTAL NUMBERS IN THE SEMESTE IOSTATISTICS IOCTHICS AND BIOSAFETY IELD ECOLOGY I COLOGY OF COMMUNITIES AND ECOSYSTEMS EOLOGY AND PALEONTOLOGY EOPROCESSING IMUNOLOGY TOTAL NUMBERS IN THE SEMESTE UMAN AND COMPARATIVE ANATOMY IOPHYSICS	DIVERSITY OF ARCHEGONIATE PLANTS (P) DIV. OF PROTOZOA AND INTRODUCTION TO METAZOA (P) None None GENETICS (P) None SEMESTER 5 ELEMENTARY MATHEMATICS (P) ETHICS AND SCIENCE (P) ORGANISM AND POPULATION ECOLOGY (P) None None CELL BIOLOGY (P) R SEMESTER 6 None PHYSICS A (P) BIOSTATISTICS (P); ECOLOGY OF COMMUN.	4 4 4 2 6 4 28 4 2 4 4 5 3 3 25	45 60 30 60 60 330 60 30 60 45 15 30 240	30 90 60 30 30 15 135 45 30			60 60 30 90 60 420 60 60 75 45 45 375
IVERSITY OF ANGIOSPERMS IVERSITY OF DEUTEROSTOMES RGANISM AND POPULATION ECOLOGY THNOBIOLOGY VOLUTION NGLISH FOR ACADEMIC PURPOSES I TOTAL NUMBERS IN THE SEMESTE IOSTATISTICS IOCTHICS AND BIOSAFETY IELD ECOLOGY I COLOGY OF COMMUNITIES AND ECOSYSTEMS EOLOGY AND PALEONTOLOGY EOPROCESSING IMUNOLOGY TOTAL NUMBERS IN THE SEMESTE UMAN AND COMPARATIVE ANATOMY IOPHYSICS UMERICAL ECOLOGY	DIVERSITY OF ARCHEGONIATE PLANTS (P) DIV. OF PROTOZOA AND INTRODUCTION TO METAZOA (P) None None GENETICS (P) None SEMESTER 5 ELEMENTARY MATHEMATICS (P) ETHICS AND SCIENCE (P) ORGANISM AND POPULATION ECOLOGY (P) None None CELL BIOLOGY (P) R SEMESTER 6 None PHYSICS A (P) BIOSTATISTICS (P); ECOLOGY OF COMMUN. AND ECOSYST. (P)	4 4 4 2 6 4 28 4 2 4 4 5 3 3 3 25	45 60 30 60 60 330 60 30 60 45 15 30 240	30 90 60 30 30 15 135 45 30 15		15	60 60 30 90 60 420 60 60 75 45 45 375 60 60
IVERSITY OF ANGIOSPERMS IVERSITY OF DEUTEROSTOMES RGANISM AND POPULATION ECOLOGY THNOBIOLOGY VOLUTION NGLISH FOR ACADEMIC PURPOSES I TOTAL NUMBERS IN THE SEMESTE IOSTATISTICS IOSTATISTICS IOCITHICS AND BIOSAFETY ELD ECOLOGY I COLOGY OF COMMUNITIES AND ECOSYSTEMS EOLOGY AND PALEONTOLOGY EOPROCESSING IMUNOLOGY TOTAL NUMBERS IN THE SEMESTE UMAN AND COMPARATIVE ANATOMY IOPHYSICS UMERICAL ECOLOGY NVIRONMENTAL EDUCATION	DIVERSITY OF ARCHEGONIATE PLANTS (P) DIV. OF PROTOZOA AND INTRODUCTION TO METAZOA (P) None None GENETICS (P) None SEMESTER 5 ELEMENTARY MATHEMATICS (P) ETHICS AND SCIENCE (P) ORGANISM AND POPULATION ECOLOGY (P) None None CELL BIOLOGY (P) R SEMESTER 6 None PHYSICS A (P) BIOSTATISTICS (P); ECOLOGY OF COMMUN. AND ECOSYST. (P) None None	4 4 4 2 6 4 2 8 4 2 4 5 3 3 25	45 60 30 60 60 330 60 30 60 45 15 30 240	30 90 60 30 30 15 135 45 30 15 45			60 60 30 90 60 420 60 60 75 45 45 375 60 60 60 45
IVERSITY OF ANGIOSPERMS IVERSITY OF DEUTEROSTOMES RGANISM AND POPULATION ECOLOGY THNOBIOLOGY VOLUTION NGLISH FOR ACADEMIC PURPOSES I TOTAL NUMBERS IN THE SEMESTE IOSTATISTICS IOCTHICS AND BIOSAFETY IELD ECOLOGY I COLOGY OF COMMUNITIES AND ECOSYSTEMS EOLOGY AND PALEONTOLOGY EOPROCESSING IMUNOLOGY TOTAL NUMBERS IN THE SEMESTE UMAN AND COMPARATIVE ANATOMY IOPHYSICS	DIVERSITY OF ARCHEGONIATE PLANTS (P) DIV. OF PROTOZOA AND INTRODUCTION TO METAZOA (P) None None GENETICS (P) None SEMESTER 5 ELEMENTARY MATHEMATICS (P) ETHICS AND SCIENCE (P) ORGANISM AND POPULATION ECOLOGY (P) None None CELL BIOLOGY (P) R SEMESTER 6 None PHYSICS A (P) BIOSTATISTICS (P); ECOLOGY OF COMMUN. AND ECOSYST. (P)	4 4 4 2 6 4 28 4 2 4 4 5 3 3 3 25	45 60 30 60 60 330 60 30 60 45 15 30 240	30 90 60 30 30 15 135 45 30 15		15	60 60 30 90 60 420 60 60 75 45 45 375 60 60

	SEMESTER 7						
MOLECULAR GENETICS	MOLECULAR BIOLOGY (P)	2	15	15			30
BIODIVERSITY	ECOLOGY OF COMMUNITIES AND ECOSYSTEMS (P)	2	30				30
APPLIED ECOLOGY I	ORGANISM AND POPULATION ECOLOGY (P)	2	30				30
HUMAN AND ANIMAL PHYSIOLOGY	HUMAN AND COMPARATIVE ANATOMY (P)	6	75	15			90
BIOGEOGRAFIA	None	4	45	15			60
GENERAL PARASITOLOGY	DIVERSITY OF PROTOSTOMIA (P)	3	30	15			45
BIODIVERSITY FOR THE COMMUNITY I	DIV. OF PROTOZOA AND INTRODUCTION TO METAZOA (P)	2		30		30	30
MOLECULAR BIOLOGY FOR THE COMMUNITY I	GENETICS (P)	2		30		30	30
TOTAL NUMBERS IN THE SEMEST	ER	23	225	120		60	345
	SEMESTER 8						
FINAL PAPER I	GENETICS (P); ECOL. OF COMMUNITIES AND ECOSYSTEMS (P)	4	60				60
APPLIED ECOLOGY II	ECOLOGY OF COMMUNITIES AND ECOSYTEMS (P)	2	30				30
FIELD ECOLOGY II	ECOLOGY OF COMMUNITIES AND ECOSYSTEMS (P)	4		60			60
DEVELOPMENTAL EMBRYOLOGY AND BIOLOGY FOR BIOTECHNOLOGY	MOLECULAR GENETICS (P); HISTOLOGY OF VERTEBRATES (P)	4	45	15			60
PLANT PHYSIOLOGY	BIOCHEMISTRY (P)	4	30	30			60
GLOBAL MACROECOLOGY AND ECOLOGY	ECOLOGY OF COMMUNITIES AND ECOSYSTEMS (P)	4	60				60
PHYLOGENETIC SYSTEMATICS	EVOLUTION (P)	4	45	15			60
BIODIVERSITY FOR THE COMMUNITY II	BIODIVERSITY FOR THE COMMUNITY I (P)	2		30		30	30
TOTAL NUMBERS IN THE SEMEST	ER	28	270	150		30	420
	SEMESTER 9						
FINAL PAPER II	FINAL PAPER I (P)	4	60				60
CONSERVATION BIOLOGY	ECOLOGY OF COMMUNITIES AND ECOSYSTEMS (P)	4	60				60
ENVIRONMENTAL PLANNING AND MANAGEMENT	FIELD ECOLOGY I (P)	4	45	15		15	60
ENVIRONMENT, CULTURE AND HEALTH	ENVIRONMENTAL EDUCATION (P)	4	45	15		15	60
MOLECULAR BIOLOGY FOR THE COMMUNITY II	MOLECULAR BIOLOGY FOR THE COMMUNITY I	2		30		30	30
TOTAL NUMBERS IN THE SEMEST	TER	18	210	60		60	270
	SEMESTER 10						
MANDATORY INTERNSHIP I	2250 hours taken / 150 credits (P)	13		195	195		195
MANDATORY INTERNSHIP II	MANDATORY INTERNSHIP I (C)	13		195	195		195
TOTAL NUMBERS IN THE SEMEST	TER	26		390	390		390
	COMPLEMENTARY ACADEMIC AC	TIVITIES					
COMPLEMENTARY ACADEMIC ACTIVITIES		4					60
	COMMUNITY OUTREACH ACTIV	/ITIES					
COMMUNITY OUTREACH ACTIVITIES		13					195
	TOTAL NUMBERS OF ELECTI	VES					
TOTAL NUMBERS OF ELECTIVES		4					60
TOTAL CREDIT HOU			MINIM	UM CLOCK H	OURS REQUIRE	D BY MEC	
41	55				3200		
	TOTAL HOURS - MANDATORY INTERNSHIP	390					
тотя	L HOURS - COMPLEMENTARY ACADEMIC ACTIVITIES	60					
TOTAL HOURS - INTERNSHIP + COMPLEMENTARY ACADEMIC ACTIVITIES		450	XIMUM CLOC	K HOURS ALI	LOWED BY MEC		831
TOTAL HOURS OF COM	IMUNITY OUTREACH INCLUDED IN THE CURRICULUM	420 NIMUM CLOCK HOURS REQUIRED BY MEC			416		

DISCIPLINES OFFERED BY THE COURSE	PREREQUISITE (P) / COREQUISITE (C)		CREDIT HOURS (CLASS HOURS)			
		CREDITS	THEORETICA L	PRACTICE	MANDATORY INTERNSHIP	TOTAL
MOLECULAR BIODIVERSITY	EVOLUTION (P); MOLECULAR BIOL. (P); DIV. OF DEUTEROSTOMES (P); DIV. OF ANGIOSPERMES (P); MICROBIOLOGY (P).	4	45	15		60
BEHAVIORAL ECOLOGY	ORGANISM AND POPULATION ECOLOGY (P); EVOLUTION (P)	4	60			60
GENERAL AND APPLIED ENTOMOLOGY	DIVERSITY OF PROSTOSTOMIA (P)	3	30	15		45
EXPERIMENTAL STATISTICS	BIOSTATISTICS (P)	4	30	30		60
FLORISTICS AND PHYTOSOCIOLOGY	DIVERSITY OF ANGIOSPERMS (P)	4	30	30		60
HERPETOLOGY	DIVERSITY OF DEUTEROSTOMES (P)	4	45	15		60
HISTORY OF ECOLOGY	ECOLOGY OF COMMUNITIES AND ECOSYSTEMS (P)	4	60			60
BIOLOGICAL IN <mark>V</mark> ASIONS	ORGANISM AND POPULATION ECOLOGY (P)	4	34	34		60
LIMNOLOGY	ORGANISM AND POPULATION ECOLOGY (P)	4	34	34		60
ENVIRONMENTAL MICROBIOLOGY	MICROBIOLOGY (P)	4	68			60
SCIENTIFIC WRITING AND PUBLICATION	None	4	68			60
SCIENTIFIC WRITING AND METHOD	INTRODUCTION TO SCIENTIFIC THINKING (P)	4	45	15		60

SPECIAL TOPICS IN BIOLOGICAL SCIENCES I	None	2	30				30
SPECIAL TOPICS IN BIOLOGICAL SCIENCES II	None	4	60			, o	60
SPECIAL TOPICS IN ECOLOGY AND BIODIVERSITY I	None	2	30				30
SPECIAL TOPICS IN ECOLOGY AND BIODIVERSITY II	None	4	60				60
GENERAL TOXICOLOGY	BIOCHEMISTRY (P); ECOLOGY OF COMMUNITIES AND ECOSYSTEMS (P)	4	45	15			60
ELECTIVE DISCIPLINES OFFERED BY OTHER COURSES			CREDIT				
	PREREQUISITE (P) / COREQUISITE (C)	CREDITS	THEORETICAL	PRACTICE	MANDATORY INTERNSHIP	COMMUNITY OUTREACH	TOTAL
ADMINISTRATION, MANAGEMENT AND ENTREPRENEURSHIP FOR BIOTECHNOLOGY	None	4	60				60
AGROECOLOGY	None	4	45	15			60
FOOD, NUTRITION AND HEALTH	None	4	45	15			60
ENVIRONMENTAL ISSUES AND INTERNATIONAL RELATIONS	None	4	60				60
ENVIRONMENTAL BIOTECHNOLOGY	GENETICS OF MICROORGANISMS (P)	6	60	30		7	90
BIOTECHNOLOGY AND ANIMAL ENHANCEMENT	MOLECULAR BIOLOGY (P); HUMAN AND ANIMAL PHYSIOLOGY (P); BIOSTATISTICS (P)	4	45	15			60
BIOTECHNOLOGY AND PLANT ENHANCEMENT	PLANT PHYSIOLOGY (P); MOLECULAR BIOLOGY (P); BIOSTATISTICS (P)	4	45	15			6-
PHARMACEUTICAL BIOTECNOLOGY	PRINCIPLES OF PHARMACOLOGY AND PHARMACOTECHNICS (P)	3	30	15			45
MEDICAL BIOTECHNOLOGY	MOLECULAR BIOLOGY (P); HUMAN AND ANIMAL PHYSIOLOGY (P); MICROBIOLOGY (P)	4	45	15			60
BIOTECHNOLOGY IN PEST CONTROL	GENERAL AND APPLIED ENTOMOLOGY (P)	4	45	15			60
CIÊNCIAS ÔMICAS	GENETIC ENGINEERING AND GENE THERAPY (P	2	30				30
COMMUNICATION AND EDUCATION IN HEALTH I	None	2	30				30
GENETICS ENGINEERING AND GENE THERAPY	MOLECULAR BIOLOGY (P); EXPERIMENTAL GENETIC ENGINEERING AND GENE THERAPY (C)	2	30				30
EXPERIMENTAL GENETIC ENGINEERING AND GENE THERAPY	MOLECULAR BIOLOGY (P); GENETIC ENGINEERING AND GENE THERAPY (C)	2		30			30
EPIDEMIOLOGY OF INFECTIOUS DISEASES AND NON INFECTIOUS DISEASES	None	4	60				60
PHOTOGRAPHY	None	4	30	30			60
FUNDAMENTALS OF EPIDEMIOLOGY	None	4	60				60
GENETICS OF MICROORGANISMS	MICROBIOLOGY (P); MOLECULAR BIOLOGY (P)	2	15	15			30
IMMUNOLOGY APPLIED TO BIOTECHNOLOGY	IMMUNOLOGY (P); CELL AND TISSUE ENGINEERING (P)	3	15	30			45
COMPUTING APPLIED TO HEALTH	None	2	30				30
BRAZILIAN SIGN LANGUAGE – LIBRAS	None	4	60				60
INTELLECTUAL PROPERTY	None	2	30				30
GEOGRAPHIC INFORMATION SYSTEM IN HEALTH	None	2	15	15			30