Environmental Sciences Upper Division Elective Course List

The Environmental Sciences major requires two upper division electives: one in the student's chosen area of concentration, and the second from any area of concentration. The elective in the area of concentration must be at least 3 units.

Students are required to complete at least 30 upper division units in the major. All upper division courses taken to fulfill the Environmental Sciences requirements (ESPM 100ES, ERG 102, Human Environment Interactions, course in chosen area of concentration, etc.) will count toward this 30 unit minimum. If the upper division Environmental Sciences courses a student takes do not total 30 units, students must fulfill the minimum 30 unit requirement by taking additional courses from the major electives list below.

The highlighted courses are electives that have recently been added to the list.

I	Architecture (ARCH)							
E	S	Ρ	Course	Course Name	Cross Listed			
		Р	140	Energy and Environment (F, 4 units)				
		Р	149	Special Topics in Energy and Environment (F/SP, 1-4 units)				

Cł	Chemical and Biomolecular Engineering (CHM ENG)							
В	S	Р	Course	Course Name	Cross Listed			
		Р	135	Chemical Biology				
		Р	140	Intro. to Chemical Process Analysis (F, 4 units)				
		Р	141	Chemical Engineering Thermodynamics (SP, 3 units)				
		Р	142	Chemical Kinetics and Reaction Engineering (F, 3 units)				
		Р	150A	Transport Processes (SP, 4 units)				
		Р	150B	Transport Separation Processes (F, 4 units)				

Ch	hemistry (CHEM)					
В	S	Ρ	Course	Course Name	Cross Listed	
В		Р	103	Inorganic Chemistry in Living Systems (F, 3 units)		
		Р	104A	Advanced Inorganic Chemistry (F/SP, 3 units)		
		Р	104B	Advanced Inorganic Chemistry (F/SP, 3 units)		
		Р	105	Instrumental Methods in Analytic Chemistry (F/SP, 4 units)		
В		Р	112A	Organic Chemistry (F, 5 units)		
В		Р	112B	Organic Chemistry (SP, 5 units)		
В			115	Organic ChemistryAdvanced Laboratory Methods (SP, 5 units)		
		Р	120A	Physical Chemistry (F/SP, 3 units)		
		Р	120B	Physical Chemistry (F/SP, 3 units)		
		Р	125	Physical Chemistry Lab (F/SP, 3 units)		
В		Р	C130	Biophysical Chemistry: Physical Principles and the Molecules of Life (F, 4 units)	MCB C100A	
		Р	130B	Biophysical Chemistry (SP, 3 units)		
		Р	C182	Atmospheric Chemistry and Physics Laboratory (SP, 3 units)	EPS C182	

Civ	ivil and Environmental Engineering (CIV ENG)						
В	S	Ρ	Course	Course Name	Cross Listed		
		Р	100	Elementary Fluid Mechanics (F/SP, 4 units)			
В		Р	101	Fluid Mechanics of Rivers, Streams, & Wetlands (alternate spring semesters, 3 units)			
		Р	103	Introduction to Hydrology (SP, 3 units)			
В		Р	C106	Air Pollution (SP, 3 units)	EPS C180, ESPM C180		
В	S	Р	107	Climate Change Mitigation (SP, 3 units)			
		Р	108	Air Pollutant Emissions and Control (SP, 3 units)			
		Р	111	Environmental Engineering (F, 3 units)			
В		Р	113N	Ecological Engineering for Water Quality Improvement (SP, 3 units)			
В			114	Environmental Microbiology (F, 3 units)			
		Р	115	Water Chemistry (F, 3 units)			
		Р	C116	Chemistry of Soils (SP, 3 units)	ESPM C128		
		Р	171	Intro to Geological Engineering (SP, 3 units)			
		Р	173	Groundwater and Seepage (F, 3 units)			

C	Demography (DEMOG)				
В	S	Р	Course	Course Name	Cross Listed
	S		C126	Social Consequences of Population Dynamics (4 units)	SOCIOL C126
	S		C175	Ecomonic Demography (SP, 3 units)	ECON C175

E	Earth and Planetary Science (EPS)							
В	S	Р	Course	Course Name	Cross Listed			
В		Р	C100	ICommunicating Ocean Science (SP-4 units)	IB C100, GEOG C146			
		Р	100A	Minerals: Their Constitution and Origin (4 units)				

	Р	100B	Genesis and Interpretation of Rocks (4 units)	
	Р	101	Field Geology and Digital Mapping (4 units)	
	Р	117	Geomorphology (4 units)	
	Р	119	Geologic Field Studies (2 units)	
В		C129	Biometeorology (F, 3 units)	ESPM C129
	Р	131	Geochemistry (4 units)	
	Р	C146	Geological Oceanography (4 units)	GEOG C145
	Р	170AC	Crossroads of Earth Resources and Society (4 units)	L&S 170AC
	Р	C180	Air Pollution (SP, 3 units)	ESPM C180
	Р	C181	Atmospheric Physics and Dynamics (3 units)	GEOG C139
	Р	C182	Atmospheric Chemistry and Physics (SP, 3 units)	CHEM C182
В	Р	185	Marine Geobiology (F, 2 units)	

Ec	Economics (ECON)						
В	S	Р	Course	Course Name	Cross Listed		
	S		C102	Natural Resource Economics (F, 4 units)	EEP C102		
	S		C125	Environmental Economics (SP, 4 units)	ECON C101		
	S		C171	Economic Development (F, 4 units)	EEP C151		
	S		C175	Economic Demography (SP, 3 units)	DEMOG C175		

En	Energy and Resources Group (ERG)							
В	S	Р	Course	Course Name	Cross Listed			
	S	Р	C100	Energy and Society (F/SP, 4 units)	PUB POL C184			
В	S		101	Ecology and Society (F, 3 units)				
В	S	Ρ	102	Quantitative Aspects of Global Environmental Problems (SP, 4 units)				
	S		170	Environmental Classics (F, 3 units)				
	S		175	Water and Development (SP, alternate years, 4 units)				
	S		C180	Ecological Economics in Historical Context (SP, 3 units)	EEP C180			

En	Engineering (ENG)							
В	S	Р	Course	Course Name	Cross Listed			
		Р	115	Engineering Thermodynamics (F, 4 units)				
	S		125	Ethics, Engineering, and Society				

Envi	nvironmental Economics and Policy (EEP)							
В	SF	Cou	urse Course Name	Cross Listed				
9	S	100	Microeconomic Theory with Application to Natural Resources (F/SP, 4 units)					
0,	3	C101	21 Environmental Economics (SP, 4 units)	ECON C125				
0,	3	C102	Natural Resource Economics (F, 4 units)	ECON C102				
B 5	3	C115	Modeling and Management of Biological Resources (F, 4 units)	ESPM C104				
9	ò	131	Globalization and the Natural Environment (F, 3 units)					
9	ò	147	Regulation of Energy and the Environment (SP, 4 units)					
9	ò	C151	Economic Development/4	ECON C171				
9	ò	153	Population, Environment, and Development (SP, 3 units)					
9	ò	161	Advanced Topics in Environmental & Resource Economics (F, 4 units)					
9	3	162	Economics of Water Resources (SP, 3 units)					
	3	C180	80 Ecological Economics in Historical Context	ERG C180				

En	Environmental Science, Policy, and Management (ESPM)							
В	S			Course Name	Cross Listed			
В			102A	Terrestrial Resource Ecology (F, 4 units)				
В		Р	102B/L	Natural Resource Sampling (F, 4 units with lab)				
	S		102C	Resource Management (SP, 4 units)				
	S		102D	Climate and Energy Policy (SP, 4 units)				
В			C103	Principles of Conservation Biology (SP, 4 units)	IB C156			
В	S		C104	Modeling and Management of Biological Resources (F, 4 units)	EEP C115			
В			105A	Sierra Nevada Ecology (Forestry Field Camp, 4 units)				
В			106	American Wildlife: Identification and Conservation (F, 3 units)				
В			C107	Biology and Geomorphology of Tropical Islands (F, 13 units)	IB C158			
В			108A	Trees: Taxonomy, Growth, and Structures (F, 3 units)				
В			108B	Environmental Change Genetics (F, 3 units)				
В			110	Primate Ecology (4 units)				
В			111	Ecosystem Ecology (SP, 3 units)				
В			112	Microbial Ecology (SP, 3 units)				
В			113	Insect Ecology (SP, 2 units)				
В			114	Wildlife Ecology (SP, 3 units)				
В			115B	Biology of Aquatic Insects (F, odd numbered years, 2 units)				
В			C115C	Fish Ecology (F, 3 units)				
В			116B	Range Ecology, Improvements, and Management (SP, 3 units)				
В			116C	Tropical Forest Ecology (SP, 3 units)				
В	S		117	Urban Garden Ecosystems (F, 4 units)				
В			118	Agricultural Ecology (F, 3 units)				
В			119	Chemical Ecology (F, 2 units)				
В		Р	120	Soil Characteristics (F, 3 units)				

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В		P	121	Development and Classification of Soils (SP, even numbered years, 3 units)	
	_	Р	122	Field Study of Soil Development (SP, even numbered years, 1 unit)	
В		_	C126	Animal Behavior (F, 4 units)	IB C144
		Р	C128	Chemistry of Soils (SP, 3 units)	CIV ENG C116
В			C129	Biometeorology (F, 3 units)	EPS C129
		P	C130	Water in a Terrestrial Environmental	GEOG C136
В		Р	131	Soil Microbial Biology (SP, 3 units)	
В			134	Fire, Insects, and Diseases in Forest Ecosystems (F, 3 units)	
В			137	Landscape Ecology (F, 3 units)	
В			C138	Introduction to Comparative Virology (SP, 4 units)	MCB C114, PMB C114
В			140	General Entomolgy (SP, 4 units)	
В			144	Insect Physiology (SP, 3 units)	
В			145	Arthropod-Borne Zoonotic Diseases (SP, even numbered years, 2 units)	
В			146L	Medical and Veterinary Entomology (SP, odd numbered years, 1 unit)	
В			147	Field Entomology (F/SP, 1 unit)	
В		Р	C148	Pesticide Chemistry and Toxicology (SP, 3 units)	NST C114
В			C149	Molecular Ecology (SP, alternate years, 4 units)	IB C149
	S		151	Society, Environment, and Culture (SP, 4 units)	
В			152	Global Change Biology (SP, 3 units)	
	S		155	Sociology and Political Ecology of Agro-Food Systems (F, 4 units)	
В			156	Animal Communication (SP, 3 units)	
В			158	Biodiversity Conservation in Working Landscapes	
	S		C159	Human Diet (SP, 4 units)	NST C159
	S		160AC	American Environmental and Cultural History (F, 4 units)	HIST 120AC
	S		161	Environmental Philosophy and Ethics (F, 3 units)	
В	S		162	Bioethics (F, 4 units)	
	S		163AC	Environmental Justice: Race, Class, Equity, and the Environment (SP, 4 units)	SOCIOL 137AC
		Р	164	GIS and Environmental Science (F, 3 units)	
	S		165	International Rural Development Policy (SP, 4 units)	
	S		166	Natural Resource Policy and Indigenous Peoples (SP, 4 units)	
	S		C167	Environmental Health and Development (F, 4 units)	PB HLTH C160
	S		168	Political Ecology (F, 4 units)	
	S		169	International Environmental Politics (F, 4 units)	
В		Р	172	Photogrammetry and Remote Sensing (SP, 3 units)	
В	S	Р	173	Introduction to Ecological Data Analysis (SP, even numbered years, 3 units)	
В	S	Р	174	Design and Analysis of Ecological Research (F, 4 units)	
		Р	C180	Air Pollution (SP, 3 units)	EPS C180, CIV ENG C106
В		Р	181A	Wildland Fire Science (SP, 3 units)	014 5140 0100
۳	S	Ė	C183	Forest Ecosystem Management (SP, 4 units)	EEP C183
В	Ť		184	Agroforestry Systems (SP, 3 units)	ELI 0103
В			185	Applied Forest Ecology (F, 4 units)	
В	H		186	Management and Conservation of Rangeland Ecosystems (F, 4 units)	
В	H		187	Restoration Ecology (SP, 4 units)	
B	H		188	Case Histories in Wildlife Management (SP, 2 units)	
В	1		100	Jease Histories in whome Management (SF, 2 units)	

Ge	Geography (GEOG)				
В	S	Р	Course	Course Name	Cross Listed
	S		130	Food and the Environment (F/SP, 4 units)	
		Р	C136	Water in a Terrestrial Environment	ESPM C130
		Р	C139	Atmospheric Physics and Dynamics (3 units)	EPS C181
		Р	140A	Physical Landscapes: Process and Form (4 units)	
		Р	142	Climate Dynamics (4 units)	
		Р	143	Global Change and Biogeochemistry (4 units)	
		Р	144	Principles of Meteorology (3 units)	
		Р	C145	Geological Oceanography (4 units)	EPS C146
В		Р	C146	Communicating Ocean Science (SP, 4 units)	EPS C100, IB C100
В	S		147	Communicating Climate Science (F, 3 units)	
В			148	Biogeography (4 units)	
		Р	180	Field Methods for Physical Geography (5 units)	
		Р	183	Cartographic Representation (5 units)	
В	S	Р	C188	Geographic Information Systems (F, 4 units)	LD ARCH C188

Hi	History (HIST)				
В	S	Р	Course	Course Name	Cross Listed
	S		120AC	American Environmental and Cultural History (F, 4 units)	ESPM 160AC

Ir	Integrative Biology (IB)						
В	S	Р	Course	Course Name	Cross Listed		
Б		D	C100	Communicating Ocean Science (A units)	EPS C100,	GEOG	
Ь		Р	C100	Communicating Ocean Science (4 units)	C146		
В			C101/L	Diversity of Plants and Fungi (F, alternate years, 2/4 units)	PMB C102/L		
В			102LF	Intro to California Plant Life with Lab (SP, 4 units)			
В			103LF	Invertebrate Zoology with Lab (SP, offered alternate years, 5 units)			

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В		_	104LF	Natural History of the Vertebrates with Lab (SP, 5 units)	
В		Р	106A	Physical and Chemical Environment of the Ocean (SP, 2/2 units)	
=	S		117/L	Medical Ethnobotany (F, 4 units with lab)	50011.0107
В			C144	Animal Behavior (F, 4 units)	ESPM C126
В			146	Behavioral Ecology (SP, 3 units)	50514.04.40
В			C149	Molecular Ecology (SP, 4 units)	ESPM C149
В			151/L	Plant Physiological Ecology (SP, alternate odd years, 3/2 units)	
B B			152 153	Environmental Toxicology (SP, 4 units)	-
В			153 153LF	Ecology (F, 3 units) Lab in Population and Community Ecology (3 units)	
В			153LF	Plant Ecology (F, 3 units)	
В			C156	Principles of Conservation Biology (SP, 4 units)	ESPM C103
В			157LF	Ecosystems of California (F, 4 units)	LSFIWI C 103
В			158LF	Biology and Geomorphology of Tropical Islands (F, 13 units)	ESPM C107
В			162	Ecological Genetics (F, 4 units)	ESI WI C 107
В			163	Molecular and Genomic Evolution (SP, 3 units)	
В			168/L	Systematics of Vascular Plants (SP, 2/2 units)	
В			173LF	Mammalogy (SP, offered alternate years, 5 units)	
В			174LF	Ornithology (SP, offered alternate years, 4 units)	
В			175LF	Herpetology (SP, offered alternate years, 4 units)	
					-
				ure (LD ARCH)	
		Р	Course	Course Name	Cross Listed
	S		110	Ecological Analysis (F, 4 units)	
		Р	120	Topographic Form and Design Technology (F/SP, 3 units)	
	S		130	Sustainable Cities and Landscapes	
В	S	Р	C188	Geographic Information Systems (F, 4 units)	GEOG C188
			Science (L		
В			Course	Course Name	Cross Listed
		Р	170AC	Crossroads of Earth Resources and Society (4 units)	EPS 170AC
	_				
			ics (MATH		
В	S		Course	Course Name	Cross Listed
			121A	Mathematical Tools for Physical Sciences (4 units)	
		Р	121B	Mathematical Tools for Physical Sciences (4 units)	
Mod	-ha	nica	al Enginos	ing (MECH ENC)	
				ring (MECH ENG)	Cross Listed
	S	Р	Course	Course Name	Cross Listed
	S	Р			Cross Listed
В	S	P	Course 106	Course Name Fluid Mechanics (F/SP, 3 units)	Cross Listed
B Mol	S ecu	P P ular	Course 106 and Cell B	Course Name Fluid Mechanics (F/SP, 3 units) iology (MCB)	
B Mol	ecu S	P P ular P	106 and Cell B	Course Name Fluid Mechanics (F/SP, 3 units) iology (MCB) Course Name	Cross Listed
Mol B	ecu S	P P ular P	Course 106 and Cell B	Course Name Fluid Mechanics (F/SP, 3 units) iology (MCB) Course Name Biophysical Chemistry: Physical Principles and the Molecules of Life (F, 4 units)	
Mol B	ecu S	P P ular P	and Cell B Course C100A	Course Name Fluid Mechanics (F/SP, 3 units) iology (MCB) Course Name	Cross Listed
Mol B B B	ecu S	P P ular P	Course 106 and Cell B Course C100A 102 C112/L	Course Name Fluid Mechanics (F/SP, 3 units) iology (MCB) Course Name Biophysical Chemistry: Physical Principles and the Molecules of Life (F, 4 units) Survey of the Principles of Biochemistry and Molecular Biology (F/SP, 4 units) General Microbiology (F, 4/2 units)	Cross Listed CHEM C130
Mol-B B B	ecu S	P P ular P	and Cell B Course C100A 102	Course Name Fluid Mechanics (F/SP, 3 units) iology (MCB) Course Name Biophysical Chemistry: Physical Principles and the Molecules of Life (F, 4 units) Survey of the Principles of Biochemistry and Molecular Biology (F/SP, 4 units)	Cross Listed CHEM C130 PMB C112/L
Mol B B B	ecu S	P P ular P	Course 106 and Cell B Course C100A 102 C112/L	Course Name Fluid Mechanics (F/SP, 3 units) iology (MCB) Course Name Biophysical Chemistry: Physical Principles and the Molecules of Life (F, 4 units) Survey of the Principles of Biochemistry and Molecular Biology (F/SP, 4 units) General Microbiology (F, 4/2 units)	Cross Listed CHEM C130 PMB C112/L ESPM C138,
Mol B B B B B B B B B	ecu S	P p p P	Course 106 and Cell B Course C100A 102 C112/L C114 C116	Course Name Fluid Mechanics (F/SP, 3 units) iology (MCB) Course Name Biophysical Chemistry: Physical Principles and the Molecules of Life (F, 4 units) Survey of the Principles of Biochemistry and Molecular Biology (F/SP, 4 units) General Microbiology (F, 4/2 units) Introduction to Comparative Virology (SP, 4 units) Microbial Diversity (F, 3 units)	Cross Listed CHEM C130 PMB C112/L ESPM C138, PMB C114
MolBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	s ecu s	P Jalar P Ona	and Cell B Course C100A 102 C112/L C114 C116	Course Name Fluid Mechanics (F/SP, 3 units) iology (MCB) Course Name Biophysical Chemistry: Physical Principles and the Molecules of Life (F, 4 units) Survey of the Principles of Biochemistry and Molecular Biology (F/SP, 4 units) General Microbiology (F, 4/2 units) Introduction to Comparative Virology (SP, 4 units) Microbial Diversity (F, 3 units) and Toxicology (NST)	Cross Listed CHEM C130 PMB C112/L ESPM C138, PMB C114 PMB C116
Mol B B B B B B	ecu S	P Jalar P Ona	and Cell B Course C100A 102 C112/L C114 C116 Sciences Course	Course Name Fluid Mechanics (F/SP, 3 units) iology (MCB) Course Name Biophysical Chemistry: Physical Principles and the Molecules of Life (F, 4 units) Survey of the Principles of Biochemistry and Molecular Biology (F/SP, 4 units) General Microbiology (F, 4/2 units) Introduction to Comparative Virology (SP, 4 units) Microbial Diversity (F, 3 units) and Toxicology (NST) Course Name	Cross Listed CHEM C130 PMB C112/L ESPM C138, PMB C114
Mol B B B B B B	s ecu s	P Jalar P Ona	and Cell B Course C100A 102 C112/L C114 C116 Sciences Course	Course Name Fluid Mechanics (F/SP, 3 units) iology (MCB) Course Name Biophysical Chemistry: Physical Principles and the Molecules of Life (F, 4 units) Survey of the Principles of Biochemistry and Molecular Biology (F/SP, 4 units) General Microbiology (F, 4/2 units) Introduction to Comparative Virology (SP, 4 units) Microbial Diversity (F, 3 units) and Toxicology (NST) Course Name Toxicology (F, 4 units)	Cross Listed CHEM C130 PMB C112/L ESPM C138, PMB C114 PMB C116 Cross Listed
Mol B B B B B B	s ecu s	P Jalar P Ona	and Cell B Course C100A 102 C112/L C114 C116 Sciences Course	Course Name Fluid Mechanics (F/SP, 3 units) iology (MCB) Course Name Biophysical Chemistry: Physical Principles and the Molecules of Life (F, 4 units) Survey of the Principles of Biochemistry and Molecular Biology (F/SP, 4 units) General Microbiology (F, 4/2 units) Introduction to Comparative Virology (SP, 4 units) Microbial Diversity (F, 3 units) and Toxicology (NST) Course Name	Cross Listed CHEM C130 PMB C112/L ESPM C138, PMB C114 PMB C116
Mol B B B B B B B B B	ecu S rriti	P P P P Ona	and Cell B Course C100A 102 C112/L C114 C116 Sciences Course 110 C119	Course Name Fluid Mechanics (F/SP, 3 units) iology (MCB) Course Name Biophysical Chemistry: Physical Principles and the Molecules of Life (F, 4 units) Survey of the Principles of Biochemistry and Molecular Biology (F/SP, 4 units) General Microbiology (F, 4/2 units) Introduction to Comparative Virology (SP, 4 units) Microbial Diversity (F, 3 units) and Toxicology (NST) Course Name Toxicology (F, 4 units) Advanced Toxicology (SP, 3 or 4 units)	Cross Listed CHEM C130 PMB C112/L ESPM C138, PMB C114 PMB C116 Cross Listed
Mol B B B B B B B B B	ecu S S rriti S	P P P P Ona P	and Cell B Course C100A 102 C112/L C114 C116 Sciences Course 110 C119 Microbial	Course Name Fluid Mechanics (F/SP, 3 units) iology (MCB) Course Name Biophysical Chemistry: Physical Principles and the Molecules of Life (F, 4 units) Survey of the Principles of Biochemistry and Molecular Biology (F/SP, 4 units) General Microbiology (F, 4/2 units) Introduction to Comparative Virology (SP, 4 units) Microbial Diversity (F, 3 units) and Toxicology (NST) Course Name Toxicology (F, 4 units) Advanced Toxicology (SP, 3 or 4 units) Biology (PMB)	Cross Listed CHEM C130 PMB C112/L ESPM C138, PMB C114 PMB C116 Cross Listed PB HLTH C170B
Mol B B B B B B B B B	ecu S rriti	P P P P Ona P	and Cell B Course C100A 102 C112/L C114 C116 Sciences Course 110 C119 Microbial Course	Course Name Fluid Mechanics (F/SP, 3 units) iology (MCB) Course Name Biophysical Chemistry: Physical Principles and the Molecules of Life (F, 4 units) Survey of the Principles of Biochemistry and Molecular Biology (F/SP, 4 units) General Microbiology (F, 4/2 units) Introduction to Comparative Virology (SP, 4 units) Microbial Diversity (F, 3 units) and Toxicology (NST) Course Name Toxicology (F, 4 units) Advanced Toxicology (SP, 3 or 4 units) Biology (PMB) Course Name	Cross Listed CHEM C130 PMB C112/L ESPM C138, PMB C114 PMB C116 Cross Listed PB HLTH C170B
Mol B B B B B B B B B	ecu S S rriti S	P P P P Ona P	and Cell B Course C100A 102 C112/L C114 C116 Sciences Course 110 C119 Microbial Course C102/L	Course Name Fluid Mechanics (F/SP, 3 units) iology (MCB) Course Name Biophysical Chemistry: Physical Principles and the Molecules of Life (F, 4 units) Survey of the Principles of Biochemistry and Molecular Biology (F/SP, 4 units) General Microbiology (F, 4/2 units) Introduction to Comparative Virology (SP, 4 units) Microbial Diversity (F, 3 units) and Toxicology (NST) Course Name Toxicology (F, 4 units) Advanced Toxicology (SP, 3 or 4 units) Biology (PMB) Course Name Diversity of Plants and Fungi (F, alternate years, 2/4 units)	Cross Listed CHEM C130 PMB C112/L ESPM C138, PMB C114 PMB C116 Cross Listed PB HLTH C170B
Mol B B B B B B B B B	ecu S S rriti S	P P P P Ona P	and Cell B Course C100A 102 C112/L C114 C116 Sciences Course 110 C119 Microbial Course C102/L 110/L	Course Name Fluid Mechanics (F/SP, 3 units) iology (MCB) Course Name Biophysical Chemistry: Physical Principles and the Molecules of Life (F, 4 units) Survey of the Principles of Biochemistry and Molecular Biology (F/SP, 4 units) General Microbiology (F, 4/2 units) Introduction to Comparative Virology (SP, 4 units) Microbial Diversity (F, 3 units) and Toxicology (NST) Course Name Toxicology (F, 4 units) Advanced Toxicology (SP, 3 or 4 units) Biology (PMB) Course Name Diversity of Plants and Fungi (F, alternate years, 2/4 units) Biology of Fungi (F, 2/2 units)	Cross Listed CHEM C130 PMB C112/L ESPM C138, PMB C114 PMB C116 Cross Listed PB HLTH C170B Cross Listed IB C101/L
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Public Health Microbiology (F, 3/1 units)
Toxicology (F, 3 units)

162A/L

Sociology (SOCIOL)					
В	S	Р	Course	Course Name	Cross Listed
	S		C126	Social Consequences of Population Dynamics (4 units)	DEMOG C126
	S		137AC	Environmental Justice: Race, Class, Equity, and the Environment (SP, 4 units)	FSPM 163AC