

Environmental Toxicology Major Course Prerequisites

	Fall - F	Winter - W	Spring - S	Summer - Su	
Course ID	Title	Units	Quarter	Pre-reqs	Notes
Preparatory Subject Matter					
Biology					
BIS 2A	Introduction to Biology: Essentials of Life on Earth	5	F, W, S, Su		
BIS 2B	Introduction to Biology: Principles of Ecology and Evolution	5	F, W, S, Su	C- in BIS 2A	
BIS 2C	Introduction to Biology: Biodiversity and the Tree of Life	5	F, W, S, Su	C- in BIS 2B	
Chemistry					
CHE 2A	General Chemistry	5	F, W	Chemistry exam score of = 24+ on first attempt	
CHE 2B	General Chemistry	5	W, S	C- in CHE 2A or 2AH	
CHE 2C	General Chemistry	5	F, S	C- in CHE 2B or 2BH	
CHE 118A	Organic Chemistry for Health and Life Sciences	4	F, W, S	C- in CHE 2C	
CHE 118B	Organic Chemistry for Health and Life Sciences	4	F, W, S	CHE 118A or 128A	
CHE 118C	Organic Chemistry for Health and Life Sciences	4	F, W, S	CHE 118B or 128B and 129A	
CHE 128A	Organic Chemistry	3	F, W	C- in CHE 2C	Take CHE 129A
CHE 128B	Organic Chemistry	3	F, S	CHE 128A; CHE 129 strongly recommended	
CHE 128C	Organic Chemistry	3	F, S	CHE 128B	
CHE 129A	Organic Chemistry Laboratory	2	F, W	C in CHE 2C	
Upper Division Writing					
UWP 104E	Writing in the Professions: Science	4	F, W, S	UWP 1 or ENL 3; upper division standing	
UWP 104F/104	Writing in the Professions: Health	4	F, W, S/F, W, S,	UWP 1 or ENL 3; upper division standing	
Mathematics					
MAT 17A	Calculus for Biology and Medicine	4	F, W, S	Satisfaction of Mathematics Placement Requirement	
MAT 17B	Calculus for Biology and Medicine	4	F, W, S	MAT 16A, 17A, 21A	
MAT 17C	Calculus for Biology and Medicine	4	F, W, S	C- in MAT 17B	
MAT 21A	Calculus	4	F, W, S	Satisfaction of Mathematics Placement Requirement	

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MAT 21B	Calculus	4	F, W, S	MAT 21A or 21AH	
MAT 21C	Calculus	4	F, W, S	MAT 16C, 17C, 21B, or 21BH	
Physics					
PHY 7A	General Physics	4	F, W, S	MAT 16B, 17B, or 21B can be taken concurrently	
PHY 7B	General Physics	4	F, W, S	PHY 7A	
PHY 7C	General Physics	4	F, W, S	PHY 7B	
Statistics					
STA 100	Applied Statistics for Biological Sciences	4	F, W, S, Su	MAT 16B or 17C or 21B	
STA 103	Applied Statistics for Business and Economics	4	F, W, S, Su	STA 13, 32, or 100	
STA 104	Applied Statistical Methods: Nonparametric Statistics	4	S	STA 13, 32, or 100	
STA 106	Applied Statistical Methods: Analysis of Variance	4	F, W, S, Su	STA 13, 32, or 100	
STA 108	Applied Statistical Methods Regression Analysis	4	F, W, S, Su	STA 13, 32, or 100	
Depth Subject Matter					
Biology					
BIS 101	Genes and Gene Expression	4	F, W, S, Su	BIS 2AB; CHE 8A or 118A; STA 13 or 100 or 130A	
BIS 102	Structure and Function of Biomolecules	3	F, W, S, Su	BIS 2A; CHE 8B or 118B or 128B	
BIS 103	Bioenergetics and Metabolism	3	F, W, S, Su	BIS 102	
Environmental Toxicology					
ETX 101	Principles of Environmental Toxicology	4	F	CHE 8B or 118B or 128B; BIS 1A	
ETX 102A	Environmental Fate of Toxicants	4	W	CHE 8B or 118B or 128B or	
ETX 102B	Quantitative Analysis of Environmental Toxicants	5	S	ETX 102A	
ETX 103A	Biological Effects of Toxicants	4	W	BIS 102; ETX 101; NPB 101 recommended	
ETX 103B	Biological Effects of Toxicants: Experimental Approaches	5	S	ETX 103A	
ETX 104	Environmental and nutritional Factors in Cellular Regulation and Nutritional Toxicants	4	F	BIS 101 and BIS 103 or ABI 103	

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ETX 120	Perspectives in Aquatic Toxicology	4	W	CHE 8B or 118B or 128B; BIS 1A; or consent of instructor	
ETX 127	Environmental Stress and Development in Marine Organisms	10	Su	ETX 101 or BIS 102 or 104; ETX 103A or NUT 114 recommended	
ETX 128	Food Toxicology	3	Su	BIS 102 and 103	
ETX 130	The Role and Applications of Toxicology in Modern Industry	3	F	ETX 101; ETX 103A recommended	
ETX 131	Environmental Toxicology of Air Pollutants	3	F	CHE8B may be taken concurrently; BIS102 recommended	
ETX 135	Health Risk Assessment of Toxicants	3	F	ETX 101; ETX 103A recommended	
ETX 138	Legal Aspects of Environmental Toxicology	3	W	ETX 10 or 101 recommended	
ETX 146	Exposure and Dose Assessment	3	S	ETX 102A; ETX 135 recommended	