

# BS in Environmental Sciences to MS in Environmental Sciences

M.S. in Environmental Sciences (<http://catalog.utep.edu/grad/college-of-science/earth-environmental-and-resource-sciences/environmental-science-ms/>) / **B.S. in Environmental Sciences**

Code	Title	Hours
BINF 5341	Anal./Model of Bio Structures	3
BINF 5351	Intro. Bioinformatics I	3
BINF 5352	Intro. Bioinformatics II	3
BINF 5354	Post-Genomic Analysis	3
BIOL 5130	Seminar	1
BIOL 5131	Ethical, Soc/Pol Dimensions	1
BIOL 5301	Select Adv Topics Biol Science	3
BIOL 5305	Herpetology	3
BIOL 5307		3
BIOL 5308	Rsrch Funding & Prof Developmt	3
BIOL 5313	Biogeography	3
BIOL 5316	Biosystematics	3
BIOL 5318		3
BIOL 5322	Advances/Evolutionary Theory	3
BIOL 5323		3
BIOL 5324		3
BIOL 5326	Advances Immunological Concept	3
BIOL 5327	Advances in Ecological Theory	3
BIOL 5328	Biostatistics	3
BIOL 5329	Physiology of Bacterial Cell	3
BIOL 5340	Structure/Funct Macromolecules	3
BIOL 5342		3
BIOL 5343		3
BIOL 5344	Molecular Pathogenesis	3
BIOL 5346		3
BIOL 5351	Intro Bio I:Basic Seq. Comp.	3
BIOL 5352	Intro Bio II: Gene Find/Compar	3
BIOL 5354		3
BIOL 5360	Limnology	3
CHEM 5321	Advanced Organic Chemistry I	3
CHEM 5322	Advanced Organic Chemistry II	3
CHEM 5329	Contem Topics Organic Chemistr	3
CHEM 5339	Contemp Topics in Biochemistry	3
CHEM 5341	Anal./Model of Bio Structures	3
CHEM 5351	Advanced Physical Chemistry I	3
GEOL 5101	Graduate Seminar	1
GEOL 5102		1
GEOL 5115	Selected Topics in Geol Scien	1
GEOL 5162	Directed Study in Geology	1
GEOL 5289	Graduate Research in Geol Sci	2
GEOL 5303	Computer Appl in Earth Sci	3
GEOL 5307		3
GEOL 5308	Planetary Geology	3
GEOL 5310	Intro Entrepreneurial Geosci	3
GEOL 5311		3

GEOL 5315	Selected Topics-Geological Sci	3
GEOL 5317	Hydrogeology	3
GEOL 5318	Petroleum Geology	3
GEOL 5320	Environmental Tracers in Water	3
GEOL 5321	Introduction to GIST	3
GEOL 5322	Advanced GIST	3
GEOL 5323	Spat Analysis Earth/Env Sci	3
GEOL 5324	Geocomputation	3
GEOL 5343	Isotope Geology	3
GEOL 5344	Advanced Petrology	3
GEOL 5345		3
GEOL 5348		3
GEOL 5362	Directed Study in Geology	3
GEOL 5363	Sandstone Petrography	3
GEOL 5364	Sedimentary Depositional Envir	3
GEOL 5365	Basin Analysis	3
GEOL 5375	Quantit Techniq Geological Sci	3
GEOL 5376	Low Temperature Geochemistry	3
GEOL 5378	Global Biochemical Cycles	3
GEOL 5379		3
GEOL 5381	Paleoclimatology	3
GEOL 5384		3
GEOL 5387		3
GEOL 5389	Graduate Research in Geol Sci	3
GEOL 5392		3
GEOL 5397	Geol/Mineral Resources Mexico	3
GEOL 5401	Fundamentals of Earth Science	4
GEOL 5402	Fundmtls/Fld Meth in Earth Sci	4
GEOP 5163	Directed Study in Geophysics	1
GEOP 5263	Directed Study in Geophysics	2
GEOP 5306	Atmospheric Processes	3
GEOP 5336	Digital Image Processing	3
GEOP 5352	Geophysical Inverse Theory	3
GEOP 5353	Reflection Seismic Data Proces	3
GEOP 5354	Seismology	3
GEOP 5356	Topics in Geophysics	3
GEOP 5357	Well Logging	3
GEOP 5361	Plate Tectonics	3
GEOP 5362		3
GEOP 5363	Directed Study in Geophysics	3
GEOP 5364		3
GEOP 5460	Geop App-Digital Signal Proces	4
MATH 5310		
MATH 5311	Topics in Applied Mathematics	3
MATH 5314		
MATH 5315		
MATH 5321	Principles of Analysis	3
MATH 5325	Principles of Algebra	3
MATH 5329	Numerical Analysis	3
MATH 5330	Comp Methods of Linear Algebra	3
MATH 5331	Real Variables	3
MATH 5335	Techniques in Optimization	3

MATH 5341	General Topology	3
MATH 5343	Numer Solution Part Diff Equat	3
MATH 5345	Numerical Optimization	3
MATH 5346		
MATH 5351	Complex Variables	3
PHYS 5196	Graduate Research in Physics	1
PHYS 5321	Mechanics	3
PHYS 5325	Mathematical Physics	3
PHYS 5341	Electrodynamics	3
PHYS 5361	Quantum Mechanics	3
PHYS 5365	Advanced Statistical Mechanics	3
PHYS 5371	Solid State Physics	3
PHYS 5393	Special Topics in Physics	3
PHYS 5396	Graduate Research in Physics	3
STAT 5329	Statistical Programming	3
STAT 5354	Post-Genomic Analysis	3
STAT 5428	Intro to Statistical Analysis	4