

Water Related Graduate Courses at NMSU

College, Department, and Program	Course Number	Course Title	Credits
College of Agriculture and Home Economics			
Department of Agricultural and Extension Education	AXED 485	Agriscience and Technology Education Laboratory Applications	
Department of Agricultural Economics and Agricultural Business	AEEC 575	Advanced Water Resource Management and Policy	3
	AEEC 580	Natural Resources and Environmental Policy	3
	AG E 475	Water Resource Management and Policy	3
Department of Animal and Range Sciences			3
	RGSC 518	Watershed Methods and Management	3
Department of Entomology, Plant Pathology, and Weed Science	EPWS 520	Environmental Fate of Pesticides	3
Department of Plant and Environmental Sciences			
Agronomy	AGRO 620	Instrumentation in Agronomy	3
Soil	SOIL 456	Irrigation and Drainage	3
	SOIL 477	Soil Physics	3
	SOIL 477L	Soil Physics Laboratory	1
	SOIL 479	Environmental Soil Chemistry	3
	SOIL 551	Advanced Soil Chemistry	3
	SOIL 552	Advanced Soil Physics	3
Department of Fishery and Wildlife Sciences	WLSC 458	Ecology of Inland Waters	3
	WLSC 458L	Ecology of Inland Waters Laboratory	1
	WLSC 465	Advanced Management of Aquatic Systems	3
	WLSC 482	Ichthyology	3
	WLSC 532	Environmental Biology of Fishes	4
	WLSC 534	Aquatic Contaminants and Toxicology	4
	WLSC 565	Advanced Management of Aquatic Systems	4
	WLSC 578	Advanced Limnology	3
College of Arts and Sciences			
Department of Biology	BIOL 477	Applied and Environmental Microbiology	4
	BIOL 517	Seminar in Physiological Ecology	3
	BIOL 533	Environmental Physiology of Plants	3
Department of Chemistry and Biochemistry			
Chemistry	CHEM 472	Analytical Methods for Toxic Organics and Metal Ions in the Environment	3
Toxicology	TOX 523	Environmental Toxicology	3

Department of Geography

Geography	GEOG 453	Fluvial and Environmental Geomorphology	3
	GEOG 467	Transportation Geography	3
	GEOG 552	Landscape Ecology	3
	GEOG 553	Applied Geomorphology	3

Planning	PLAN 465	Public Land Analysis	3
----------	----------	----------------------	---

Department of Geological Sciences

Geology	GEOL 474	Groundwater Geology	3
	GEOL 515	Advanced Principles of Geochemical Equilibria	3
	GEOL 560	Geochemistry of Diagenetic and Hydrochemical Systems	3

Department of Physics

Physics	GPHY 640	Fluid Mechanics in the Earth Sciences	3
---------	----------	---------------------------------------	---

College of Business Administration and Economics

Department of Economics and International Business

Economics and International Business	ECON 455	Public Utilities Regulation	3
	ECON 585	Public Utilities Regulation	3

College of Engineering

Department of Civil and Geological Engineering

Agricultural Engineering	A EN 459	Design of Water Wells/Pumping Systems	3
	A EN 475	Soil and Water Conservation	3
	A EN 476	Conservation Engineering	1
	A EN 478	Irrigation and Drainage Engineering	3
	A EN 479	Irrigation Systems Design and Management	3

Civil Engineering	C E 482	Hydraulic Structures	3
	C E 483	Surface Water Hydrology	3
	C E 485	Design of Earth Dams	3
	C E 525	Advanced Analysis of Engineering Systems	3
	C E 557	Water Resources Development	3
	C E 581	Ground Water Hydrology	3
	C E 582	Statistical Hydrology	3
	C E 681	Topics in Hydrodynamics I	3
	C E 682	Topics in Hydrodynamics II	3
	C E 506	Advanced Soil Mechanics	3
	C E 525	Advanced Analysis of Engineering Systems	3
	C E 531	Open Channel Hydraulics	3

Environmental Engineering	ENVE 456	Environmental Engineering Design	3
	ENVE 462	Sampling and Analysis of Environmental Contaminants	3
	ENVE 551	Unit Process/Operation of Water Treatment	3
	ENVE 551L	Unit Process/Operation of Water Treatment Laboratory	1
	ENVE 552	Unit Process/Operation of Wastewater Treatment Laboratory	3
	ENVE 552L	Unit Process/Operation of Wastewater Treatment Laboratory	1
	ENVE 553	Chemical Theories of Environmental Engineering	3
	ENVE 554	Microbiological Theories of Environmental Engineering	3
	ENVE 557	Water Quality Modeling	3
	ENVE 558	Advanced Waste Management	3
	ENVE 630	Fate and Transport of Environmental Contaminants	3
	ENVE 631	Topics in Environmental Engineering I	3
	ENVE 632	Topics in Environmental Engineering II	3

Geological Engineering	G EN 451	Subsurface Methods	3
	G EN 452	Geohydrology	3
	G EN 460	Site Investigations	2
	G EN 485	Earthen Dam Design	3
Department of Chemical Engineering	CH E 532	Chemical Engineering Applications to Environmental Cleanup	3
	CH E 535	Industrial Waste Treatment and Environmentally Benign Manufacturing	3
	CH E 536	Environmental Process Design I	3
	CH E 537	Environmental Process Design II	3
	CH E 624	Advanced Topics in Reservoir Modeling	3
Department of Mechanical Engineering	ME 530	Intermediate Fluid Mechanics	3
	ME 533	Computational and Theoretical Fluid Mechanics	3
	ME 633	Turbulence and Chaos	3
College of Health and Social Services			
Health Science	HL S 452	Environmental Issues in Community Health	3
	MPH 550	Environmental Public Health Issues	3
	MPH 554	Environmental Epidemiology	3
	MPH 565	International Health Issues	3
	MPH 567	Rural Health Issues	3
	MPH 569	U.S.-Mexico Border Health Issues	3
	n=85		