

# Five Year Course Plan

## Department of Environmental Resources Engineering

Courses	Fall 2010	Spr 2011	Fall 2011	Spr 2012	Fall 2012	Spr 2013	Fall 2013	Spr 2014	Fall 2014	Spr 2015
<b>Required Courses</b>										
ENGR115 Introduction to Environmental Engineeringx	x	x	x	x	x	x	x	x	x	x
ENGR210 Solid Mechanics: Statics	x	x	x	x	x	x	x	x	x	x
ENGR211 Solid Mechanics: Dynamics	x	x	x	x	x	x	x	x	x	x
EnGR215 Introduction to Design	x	x	x	x	x	x	x	x	x	x
ENGR225 Computational Methods for Engr I	x	x	x	x	x	x	x	x	x	x
ENGR313 Systems Analysis	x	x	x	x	x	x	x	x	x	x
ENGR322 Envir Data Modeling & Analysis	x	x	x	x	x	x	x	x	x	x
ENGR325 Computational Methods for Engr II	x	x	x	x	x	x	x	x	x	x
ENGR326 Computational Methods for Engr III	x	x	x	x	x	x	x	x	x	x
ENGR330 Mechanics & Science of Materials	x		x		x		x		x	
ENGR 331 Thermodynamics and Energy Syst I	x	x	x	x	x	x	x	x	x	x
ENGR 333 Fluid Mechanics	x	x	x	x	x	x	x	x	x	x
ENGR 351 Water Quality & Envir Health	x	x	x	x	x	x	x	x	x	x
ENGR356 Water Quality Analysis										
ENGR399 Supplemental Work in Engr	*	*	*	*	*	*	*	*	*	*
ENGR410 Environmental Impact		x		x		x		x		x
ENGR416 Transport Phenomena	x	x	x	x	x	x	x	x	x	x
ENGR440 Hydrology I	x	x	x	x	x	x	x	x	x	x
ENGR492 Capstone Design Project	x	x	x	x	x	x	x	x	x	x
<b>Design Electives</b>										
ENGR418/518 Applied Hydraulics		x				x				x
ENGR421/521 Advanced Numerical Methods		x						x		
ENGR434/534 Air Quality Management				x						x
ENGR435 Solid Waste Management	x						x			
ENGR441/541 Hydrology II			x				x			
ENGR443/543 Groundwater Systems	x				x				x	
ENGR445/545 Water Resources Planning and Mgt			x			x			x	
ENGR448/548 River Hydraulics				x				x		
ENGR451/551 Water and Waste Water Trmt		x		x	x		x		x	
ENGR455/555 Engineered Natural Treatment Systems			x		x	x		x		x
ENGR471/571 Thermodynamics and Energy Sys II				x				x		
ENGR473/573 Building Energy Analysis		x				x				x

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ENGR475/575 Renewable Energy Power Systems	X				X				X	
ENGR477/577 Solar Thermal Engineering			X				X			
ENGR480 Selected Topics in Engr	*	*	*	*	*	*	*	*	*	*
ENGR481 Selected Topics with Engr Design	*	*	*	*	*	*	*	*	*	*
ENGR496 EIT Review				X		X		X		X
ENGR498 Directed Design Project	*	*	*	*	*	*	*	*	*	*
ENGR499 Directed Study	*	*	*	*	*	*	*	*	*	*
<b>Non-majors Courses</b>										
ENGR114 Whole Earth Engineering										
ENGR280 Selected Topics in Engineering	X	X	X	X	X	X	X	X	X	X
ENGR305 Appropriate Technology		X		X		X		X		X
ENGR308 Technology and the Environment	X		X		X		X		X	
ENGR370 Energy Technology and Society		X		X		X		X		X
ENGR380 Community Agriculture										
<b>Graduate Courses</b>										
ENGR 501 Environmental Systems Analysis I										
ENGR532 Energy, Environment and Society	X		X		X		X		X	
ENGR533 Energy and Climate Change		X				X				X
ENGR 535 Development Technology				X				X		
ENGR 597 Mentoring and Teaching Associate Training		*	*	*	*	*	*	*	*	*
ENGR680 Selected Topcis in Environmental Systems		*	*	*	*	*	*	*	*	*
ENGR690 Thesis	*	*	*	*	*	*	*	*	*	*
ENGR699 Independent Study		*	*	*	*	*	*	*	*	*
ENGR700 Professional Development in Engr		X	X	X	X	X	X	X	X	X
* indicate as needed with instructor approval										