Civil Engineering - Environmental Option
Students take the same core courses as the regular program
Take PHIL 2750 for Complementary Elective
Take 5 Technical Electives (TE) from Environmental TE List

FIRST		36	CH	SECOND		45	CH
CHEM 1300	Chemistry	3		CHEM 1310	Physical Chemistry	3	
COMP 1012	Comp Science	3		CIVL 2800	Solid Mechanics	4	
ENG 1430	Design Engin	3		CIVL 2830	Graphics	2	
ENG 1440	Eng Statics	3		CIVL 2840	CE Geomatics	3	
ENG 1450	Intro Elec Eng	3		ENG 2030/40	Tech Com	3	
ENG 1460	Thermal Science	3		MATH 2130	Math Analysis 1	3	
ENGL 1400	Lit Topics	3		STAT 2220	Statistics	3	
MATH 1210	C/L Algebra	3					
MATH 1510	App Calc 1	3		CIVL 2770	CE Materials	5	
MATH 1710	App Calc 2	3		CIVL 2780	CE Systems	4	
PHYS 1050	Physics	3		CIVL 2790	Fluid Mechanics	4	
Arts/Mangement Course		3		CIVL 3590	Numerical Methods	4	
				GEOL 1340	Geology	3	
				MATH 2132	Math Analysis 2	3	

THIRD	46 (includes 3 tech elective)			FOURTH	37 (includes 2 tech electives)		
CIVL 3690	Env Eng Analysis	4		CIVL 4220	Geotech Design	4	
CIVL 3730	Geotech Mater	4		CIVL 4380	Infrastructure	4	
CIVL 3750	Hydrology	4		CIVL 4390	Struct Des 2	4	
CIVL 3760	Str. Analysis	4		CIVL 4400	Transport Eng 2	4	
CIVL 3790	Transport Eng 1	4		ENG 3020	Tech & Society	3	(or CIVL 4460)
				CIVL 4590	Design Project	6	
CIVL 3700	Enviro Eng Des	4					
CIVL 3740	Hydraulics	4		**Five Environmental tech electives (TE) ***			
CIVL 3770	Struct Des 1	4		CIVL 3710	Finite Element	4	
ENG 3000	Eng Economics	3	(or CIVL 4050)	CIVL 4100	Eng Mngmnt & Enviro	4	
				CIVL 4120	Water Treat Plnt Des	4	
~~Arts/Management Course~~		3		CIVL 4130	Solid Waste	4	
PHIL 2750	Envir Ethics (E)	3		CIVL 4180	Enviro Systems	4	
				CIVL 4200	Grndwater Contam	4	
				CIVL 4250	Grndwater Hydrolgy	4	
				CIVL 4300	Urban Water Systems	4	
				CIVL 4332	Thesis Project	4	
				CIVL 4350	Haz Waste	4	
* Only 1 TE can be outside of **Civil Eng**.				CIVL 4360	Water Res Plan & Mgt	4	
				CIVL 4470	Watershed Processes	4	
				BIOE 4460	Air Pollution	4	
Total Credit Hours: 163				SOIL 4500	Remed of Contam Soil	3	