

Environmental and Biological Engineering

Year I, Semester I

Course Code	Course Title	Cr. Hrs
ChEg 7111	Advanced Research Methods and Experimental Design	3
ChEg 7113	Graduate Seminar I	1
ChEg 7133	Elective I	3
	Total	7

Year I, Semester II

Course Code	Course Title	Cr. Hrs
ChEg 7114	Graduate Seminar II	1
ChEg 7122	Catalysis and Catalytic Reactor Engineering	3
ChEg 7134	Elective II	3
	Total	7

Elective courses

Course Code	Course Title	Cr. Hrs
ChEg 7133	Air Pollution Monitoring and Control Engineering	3
ChEg 7133	Water Quality, Pollution and Treatment	3
ChEg 7133	Solid Waste Management and Soil Pollution	3
ChEg 7133	Multiphase Contaminant Transport	3
ChEg 7133	Hazardous Waste Management	3
ChEg 7134	Industrial Ecology	3
ChEg 7134	Bioengineering Thermodynamics and Kinetics	4
ChEg 7134	Aquatic Chemistry	3
ChEg 7134	Stream, Lake and Estuarine Analysis	3
ChEg 7134	Deterministic and Stochastic Modeling in Biological and Environmental Engineering	3
ChEg 7134	Biological and Chemical Processes in Environmental Engineering	3

Year II, Semester I (for all Specializations)

Course Code	Course Title	Cr. Hrs
ChEg 8114	Doctoral Dissertation	12
Total		12

Year II, Semester II (for all Specializations)

Course Code	Course Title	Cr. Hrs
ChEg 8114	Doctoral Dissertation	12
Total		12

Year III, Semester I (for all Specializations)

Course Code	Course Title	Cr. Hrs
ChEg 8114	Doctoral Dissertation	12
Total		12

Year III, Semester II (for all Specializations)

Course Code	Course Title	Cr. Hrs
ChEg 8114	Doctoral Dissertation	12
Total		12

Year IV, Semester I (for all Specializations)

Course Code	Course Title	Cr. Hrs
ChEg 8114	Doctoral Dissertation	12
Total		12

Year IV, Semester II (for all Specializations)

Course Code	Course Title	Cr. Hrs
ChEg 8114	Doctoral Dissertation	12
	Total	12

