

Biochemical 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 7173	Elective I	3
	Total	7

Year I, Semester II

Course Code	Course Title	Cr. Hrs
ChEg 7114	Graduate Seminar II	1
ChEg7122	Catalysis and Catalytic Reactor Engineering	3
ChEg 7144	Elective II	3
	Total	7

Elective Courses

Course Code	Course Title		Cr. Hrs
ChEg 7173	Biochemistry	Elective I	3
ChEg 7173	Advanced Biochemical Engineering-		3
ChEg 7173	Chemical, Biological and Applied Science		3
ChEg 7173	Microbiology and Genetic Engineering		3
ChEg 7144	Bioprocess Engineering	Elective II	3
ChEg 7144	Advanced Bioengineering and Biotechnology		3
ChEg 7144	Bio-separation Processes		3
ChEg 7144	Modeling and Simulation of Bioprocesses		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

