

**Chemical Engineering Elective Courses**

<b>Code</b>	<b>Course Name</b>	<b>(T+U)</b>	<b>AKTS</b>
CHE211	Introduction Polymer Science	(3-0)3	3
CHE213	Microbiology	(3-0)3	3
CHE219	Environmental Chemistry	(3-0)3	3
CHE223	Molecular and Cell Biology	(3-0)3	3
CHE226	Introduction to Environmental Engineering	(3-0)3	3
CHE228	Structure and Properties of Polymer	(3-0)3	3
CHE230	Potential Sources of Energy	(3-0)3	3
CHE232	Chemical Processing of Petroleum	(3-0)3	3
CHE234	Polymer Chemistry	(3-0)3	3
CHE240	Combustion Science	(3-0)3	3
CHE332	Polymer Technology	(3-0)3	3
CHE334	Composite Materials Processing	(3-0)3	3
CHE336	Pollution Prevention	(3-0)3	3
CHE338	Photovoltaics	(3-0)3	3
CHE340	Principles of Electrochemical Processes	(3-0)3	3
CHE342	Material Characterization Techniques	(3-0)3	3
CHE344	Inorganic Polymers	(3-0)3	3
CHE346	Energy Management	(3-0)3	3
CHE348	Energy Conservation and Conversion	(3-0)3	3
CHE350	Introduction to Process Integration	(3-0)3	3
CHE352	Energy Technology	(3-0)3	3
CHE354	Combustion Engineering	(3-0)3	3
CHE356	Industrial Water Treatment Technologies	(3-0)3	3
CHE360	Molecular Aspects of Chemical Engineering	(3-0)3	3
CHE361	Catalytic Materials	(3-0)3	3
CHE362	Interfacial Transport Processes and Rheology	(3-0)3	3
CHE364	Phase Equilibria	(3-0)3	3
CHE366	Industrial Microbiology	(3-0)3	3
CHE368	Cell Culture Techniques	(3-0)3	3
CHE370	Molecular Engineering Aspects of Biotechnology	(3-0)3	3
CHE372	Physical Aspects of Biological Systems	(3-0)3	3
CHE384	Global Sustainable Development	(3-0)3	3
CHE461	Catalytic Materials	(3-0)3	3
CHE424	Biomass Conversion to Chemicals and Fuels	(3-0)3	3
CHE427	Flames	(3-0)3	3
CHE429	Radiative Transfer	(3-0)3	3
CHE431	Sustainable Energy	(3-0)3	3
CHE433	Solar Energy Technology	(3-0)3	3
CHE435	Fundamentals of Air Pollution and Control	(3-0)3	3
CHE437	Ceramic Science and Technology	(3-0)3	3
CHE439	Biomaterials	(3-0)3	3
CHE441	Structure of Macromolecular Media and Technology	(3-0)3	3
CHE443	Mechanical Properties of Materials	(3-0)3	3
CHE445	Industrial and Hazardous Waste Treatment	(3-0)3	3
CHE449	Membrane Processes and Separation of Mixtures	(3-0)3	3
CHE451	Rheology of non-Newtonian Fluids	(3-0)3	3
CHE453	Multicomponent Separation	(3-0)3	3
CHE455	Process Design for Biotechnology	(3-0)3	3
CHE457	Metabolic and Cell Engineering	(3-0)3	3
CHE459	Special Topics in Biotechnology	(3-0)3	3
CHE463	Adsorption	(3-0)3	3
CHE423	Petrochemical Processing	(3-0)3	3
CHE425	Biochemical Engineering	(3-0)3	3
CHE440	Reactive Processing of Materials	(3-0)3	3
CHE442	Water Pollution Control Process	(3-0)3	3
CHE444	Inorganic Polymers	(3-0)3	3
CHE446	Drying	(3-0)3	3
CHE448	Novel Separation Techniques	(3-0)3	3
CHE450	Gas Purification Technology	(3-0)3	3
CHE452	Heterogeneous Catalysis and Catalytic Processes	(3-0)3	3
CHE454	Reactor Design	(3-0)3	3
CHE456	Heat Transfer Equipment	(3-0)3	3
CHE458	Industrial Organization and Management	(3-0)3	3
CHE460	Catalytic Reaction	(3-0)3	3
CHE462	YUG	(3-0)3	3
CHE464	Separation and Purification Processes for Biochemical Products	(3-0)3	3
CHE470	Introduction to Soft Matter	(3-0)3	3
CHE488	Introduction to Process Simulation	(3-0)3	3
CHE499	Cooperative Education Course	(0-6)3	3