

**KİMYA MÜHENDİSLİĞİ SEÇMELİ DERS LİSTESİ**

| <b>Ders Kodu</b> | <b>Dersin Adı (İngilizce)</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           |

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|--------|--|--------|---|
| CHE451 | Rheology of non-Newtonion 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 |
| CHE490 | Supplementary Curricular Courses                               | (3-0)3 | 3 |
| CHE499 | Cooperative Education Course                                   | (0-6)3 | 3 |