

| | Bio | System/Environment | Material |
|------------------------|---|---|--|
| 1st year | Mandatory General, Humanities & Social Science, Mandatory Basic(26), Elective Basic | | |
| 2nd | Spring | CBE202 Introduction to Chemical and Biomolecular Engineering CBE203 Industrial Organic Chemistry CBE205 Chemical Engineering Analysis | |
| | Fall | CBE201 Molecular Engineering Laboratory CBE221 Molecular Thermodynamics and Energy System | |
| | | Mandatory General, Humanities & Social Science, Elective Basic | |
| 3rd | Spring | CBE301 Chemical and Biomolecular Engineering Laboratory CBE260 Biomolecular Engineering CBE311 Molecular Reaction Engineering | CBE301 Chemical and Biomolecular Engineering Laboratory CBE311 Molecular Reaction Engineering CBE351 Introduction to Macromolecular Engineering |
| | Fall | CBE261 Biochemical Engineering Track Elective 1 | CBE321 Separation Processes CBE341 Process Simulation and Control (MS211 Introduction to Materials Science and Engineering)* Track Elective 1 Track Elective 2 |
| | | Mandatory General, Humanities & Social Science | |
| 4th | Spring | CBE569 Nucleic Acid Engineering Track Elective 2 | CBE331 Fluid Mechanics for Chemical Engineering CBE342 Chemical and Biological Product Design CBE455 Nanochemical Technology Track Elective 3 |
| | Fall | CBE563 Protein Engineering CBE564 Bioprocess Engineering | CBE442 Optimal Design and Economics Track Elective 1 CBE404 Understanding of Molecules and Nanosystems Track Elective 4 |
| | | Graduation Research(3), Seminar(1) | |
| Track Elective | | CBE321 Separation Processes (F) CBE471 Introduction to Environmental Engineering (S/F) CBE483 Engineering Principles of Human Physiology (S) CBE566 Principles of Human Tissue Engineering (S) CBE567 Metabolic Engineering (F) CBE568 Nanobiotechnology for Biochemical Engineers (S/F) | CBE260 Biomolecular Engineering (S) CBE261 Biochemical Engineering (F) CBE443 Chemical and Biological Product Design Laboratory (S/F) CBE471 Introduction to Environmental Engineering (S/F) CBE503 Numerical Method for Chemical Process (S) CBE542 Process Optimization (S) CBE473 Microelectronics Processes (S/F) CBE512 Introduction to Catalysis Engineering (S/F) CBE522 Introduction to Interfacial Engineering (S) CBE525 Molecular Electronics (S/F) CBE552 Materials Engineering of Polymers(S/F) CBE554 Polymer Physics (S) CBE556 Structure and Properties of Macromolecules (S) CBE568 Nanobiotechnology for Biochemical Engineers (S/F) CBE572 Inorganic Materials Processing (S/F) CBE573 Fuel Cell Processes and Materials (F) |
| Graduation Credit (41) | Mandatory Major 18 + Elective Major 24 (Recommended 18, Track Elective 6) | Mandatory Major 18 + Elective Major 24 (Recommended 21, Track Elective 3) | Mandatory Major 18 + + Elective Major 24 (Recommended 12, Track Elective 12) |

*Not included in Graduation Credit

Red marked: Mandatory Major Course

Blue marked: Recommended Course