

Department of Applied Chemistry
 Chaoyang University of Technology Graduate Course Requirement
 (for the four year students of day division admitted in the 2024 academic year)

| Code | Core courses | Credit |
|-------------|---|---------------|
| 07061 | Organic Chemistry Laboratory | 2 |
| 07727 | General Chemistry Laboratory | 2 |
| 01094 | Physical Chemistry | 3 |
| 01624 | Seminar | 2 |
| 09171 | Integrated Practice of Applied Chemistry | 2 |
| 08684 | Programming logics and computation | 3 |
| 02519 | Calculus | 3 |
| 02377 | Inorganic Chemistry | 3 |
| 07738 | Practical Project Management | 2 |
| 00603 | Biochemistry | 3 |
| 04706 | Technical English Reading | 2 |
| 02324 | General Biology | 3 |
| 02319 | General Chemistry (I) | 3 |
| 02320 | General Chemistry (II) | 3 |
| 01971 | Fundamental Mathematics | 2 |
| 00320 | Analytical Chemistry (I) | 3 |
| 00862 | Organic Chemistry(I) | 3 |
| 00321 | Analytical Chemistry(II) | 3 |
| 00863 | Organic Chemistry(II) | 3 |
| 05924 | Analytical Chemistry Laboratory | 2 |
| 03010 | Instrumental Analysis(I) | 3 |
| 02008 | Selected Topics(1) | 2 |
| 02011 | Selected Topics(2) | 2 |
| 03011 | Instrumental Analysis(II) | 3 |
| 04897 | Physical Chemistry Laboratory | 2 |
| 05926 | Biochemistry Laboratory | 2 |
| 05948 | Instrumental Analysis Laboratory | 2 |
| | Total: | 68 |
| Code | Elective courses | Credit |
| 08079 | Interfacial Chemistry and Formulation Development Practices | 3 |
| 05849 | Special Topics: Enterprise Program (2) | 1 |
| 10370 | Introduction to Occupational Medicine | 2 |
| 08744 | Practice of Food Safety | 3 |
| 03299 | Applied Microbiology | 3 |
| 10063 | Soil Management and Environmental Sustainability | 2 |
| 06395 | Green Materials | 3 |
| 10062 | Practice of General Chemistry (II): Stoichiometry Training | 1 |
| 03562 | Industrial Hygiene | 3 |

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|-------|--|--------|
| 10675 | Prevention of Organic Solvents and Some Particular Chemicals Hazards | 3 |
| 10064 | Chemical Technique and Sustainability | 2 |
| 09488 | APP Basic Programming | 3 |
| 07740 | The Extraordinary Chemistry of Ordinary Things | 2 |
| 07984 | Practice of Crop Production | 3 |
| 08577 | Industrial Safety | 3 |
| 07884 | Practice of Organic Spectroscopy | 3 |
| 07733 | Practice of Health Agriculture | 3 |
| 05686 | Special Topics: Enterprise Program (1) | 1 |
| 09223 | Practice of Organic Spectroscopy: Structure Elucidation Training | 1 |
| 05850 | Special Topics: Enterprise Program (3) | 1 |
| 01420 | Technical English | 2 |
| 10677 | Organic Operations Management Practices | 3 |
| 08129 | Occupational Safety and Health Act | 3 |
| 10676 | Special Topic in Hazardous Material | 3 |
| 05853 | Special Topics: Enterprise Program (6) | 1 |
| 08643 | Introduction to Food and Drug Industry | 3 |
| 05851 | Special Topics: Enterprise Program (4) | 1 |
| 07882 | Material Chemistry and Practices | 3 |
| 08322 | Cosmetics Manufacture | 3 |
| 08320 | Management of Industrial Safety and Hygiene | 2 |
| 07881 | Practice of Food Chemistry | 3 |
| 08598 | Green Technology and Low-Carbon Management | 3 |
| 05852 | Special Topics: Enterprise Program (5) | 1 |
| 06513 | Application and Practice of Pheromone | 3 |
| 08900 | Practice of Applied Chemistry | 2 |
| 06124 | Enterprise Seminar II - Biochemical Science and Technology | 1 |
| 01004 | Introduction of Materials | 3 |
| 01971 | Fundamental Mathematics | 2 |
| 02492 | Introduction of Quantum Chemistry | 3 |
| 00610 | Introduction of Biotechnology | 3 |
| 03727 | Polymer Material | 3 |
| 03484 | Fermentational Biotechnology | 3 |
| 04394 | Cosmetic | 3 |
| 01653 | Specialty Chemicals | 3 |
| 05933 | Electrical and Optical Properties of Material | 3 |

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|--------------------------------|--------------------|------------------------------------|
| 05227 | Engineering Ethics | 2 |
| Total: | | 111 |
| University Requirements | | 9 courses 28 credits |
| Core courses | | 27 courses 68 credits |
| Elective courses | | Minimum elective 28 credits |
| Total requirement | | 134credits |