

Chemical Engineering and Technology Major: The main laboratories include Chemical Engineering Principles Laboratory, Catalyst Preparation and Evaluation Laboratory, Chemical Reaction Engineering Laboratory and Chemical Virtual Simulation Laboratory

Chemical Engineering Principles Laboratory

The laboratory was built in 2003 and is now located in Rooms 101, 102 and 107 of the Chemical Building. The laboratory is equipped with sieve plate distillation experimental equipment, absorption and desorption experimental equipment, comprehensive heat transfers experimental equipment, constant pressure filtration experimental equipment, circulating wind tunnel drying experimental equipment, comprehensive fluid mechanics experimental equipment, extraction experimental equipment and catalyst evaluation experimental equipment. It can carry out the determination of constant pressure filtration constant, determination of centrifugal pump characteristic curve, determination of heat transfer coefficient, comprehensive fluid flow experiment, distillation experiment, packing absorption operation experiment, turntable extraction experiment and drying experiment.

This laboratory is mainly responsible for the experiments of courses such as "Principles of Chemical Engineering A (1)", "Principles of Chemical Engineering A (2)", "Principles of Chemical Engineering Experiment A", and "Chemical Processing", and provides services for the course design of principles of chemical engineering, chemical engineering design B, graduation design, innovative experiments, and teacher scientific research.

Opening hours: 8:00 am-5:30 pm, other times will be arranged by the laboratory.

To ensure the normal and orderly development of the experiment, students should make an appointment for the experiment at least 3 days in advance.

Person in charge: Feng Wang, Yonglin Zeng ,Tel: 15873749232.

Catalyst preparation and evaluation laboratory

This laboratory was built in 2003 and is now located in Room 106 of the Chemical Building. The laboratory is equipped with a water bath, oven, centrifuge, balance, water distiller and vacuum filtration device to carry out experiments on the preparation of catalyst materials. This laboratory mainly provides services for professional experiments, graduation thesis, college students' innovation and entrepreneurship experiments, and teachers' scientific research.

Opening hours: 8:00 am-5:30 pm, other times are arranged by the laboratory. To ensure the normal and orderly development of the experiment, students should make an appointment for the experiment at least 3 days in advance.

Person in charge: Liqin Wang ,Phone: 18636876281

Chemical Reaction Engineering Laboratory

This laboratory was built in 2003 and is now located in Room 103 of the Chemical Building. The laboratory is equipped with experimental devices for residence time distribution and reactor flow characteristics, ethylbenzene dehydrogenation experimental devices and multifunctional special distillation experimental devices. Constant boiling distillation experiments, reactive distillation experiments, ethylbenzene dehydrogenation reaction experiments and residence time distribution experiments can be carried out.

This laboratory mainly undertakes experiments in courses such as "Chemical Reaction Engineering" and "Chemical Professional Experiments", and provides services for chemical principles course design, chemical engineering design B, graduation design, innovative experiments, and teacher scientific research.

Opening hours: 8:00 am-5:30 pm, other times will be arranged by the laboratory. To ensure the normal and orderly development of the experiment, students should make an appointment for the experiment at least 3 days in advance.

Person in charge: Weian Nie ,Phone: 13307372737.

Chemical engineering laboratory

This laboratory was built in 2003 and is now located in Room 113 and 117 of the Chemical Building. The laboratory is equipped with experimental devices for residence time distribution and reactor flow characteristics, catalyst evaluation experimental devices, powder sample preparation instruments, gas chromatographs, ethylbenzene dehydrogenation experimental devices, and multifunctional special distillation experimental devices. It can carry out single-reactor and three-reactor residence time distribution, azeotropic distillation to produce anhydrous ethanol, ethylbenzene dehydrogenation to produce styrene experiments, reactive distillation to produce methylal, binary vapor-liquid equilibrium experiments, dynamic method saturated vapor pressure experiments, synthetic catalysts, epoxidation reactions, fructose to produce 5-hydroxymethylfurfural experiments, and gas chromatography detection.

This laboratory mainly undertakes experiments for courses such as "Chemical Thermodynamics", "Chemical Processing", "Chemical Separation Engineering", and "Chemical Professional Experiments", and provides services for chemical principal course design, chemical engineering design B, graduation design, innovative experiments, and teacher scientific research.

Opening hours: 8:00 am-5:30 pm, and other times will be arranged by the laboratory. To ensure the normal and orderly development of the experiment, students should make an appointment for the experiment at least 3 days in advance.

Person in charge: Wenxiu Cao, Tel: 15898490380.

Chemical Engineering Virtual Simulation Laboratory

This laboratory was built in 2017 and is now located in Rooms 404, 405, 406 and 408 of the Industrial Training Building. Each laboratory is equipped with about 100 high-performance computers, all of which are installed with chemical principal experiment simulation software, PRO/II simulation calculation software, polyvinyl chloride process simulation software, etc. It can carry out virtual simulation experiments such as liquid mechanics experiments, distillation, heat transfer experiments, absorption, drying experiments, extraction, filtration experiments, etc.

This laboratory mainly undertakes experiments in courses such as "Chemical Principles", "Chemical Technology", "Chemical Separation Engineering", and "Chemical Professional Experiments", and provides services for course design, production internships, and related subject competitions.

Opening hours: 8:00 am-5:30 pm, other times will be arranged by the laboratory. To ensure the normal and orderly development of the experiment, students should make an appointment for the experiment at least 3 days in advance.

Person in charge: Yonglin Zeng ,Tel: 13107071213.