

College of Science

The history of College of Science of the University of Shanghai for Science and Technology (USST) can be traced back to the Gezhi (Natural Science) Faculty of the University of Shanghai in 1916. During around a hundred years of development, the Gezhi Faculty was first renamed Basic Teaching Department and was again renamed the College of Science of USST in 2002.

Our college consists of 3 departments: Mathematics, Physics, and Chemistry; science labs (including professional Physics Laboratories, Mathematics Laboratories, and Chemistry Laboratories); 1 doctoral degree program of Level II academic disciplines: Optoelectronic Physics and Devices; 3 master degree programs of Level I academic disciplines: Mathematics, Physics, and Chemistry; 8 master degree programs of Level II academic disciplines: Applied Mathematics, Basic Mathematics, Operations Research and Cybernetics, Probability and Mathematical Statistics, Condensed Matter Physics, Optics and Theoretical Physics, Green Chemistry Process and Comprehensive Utilization of the Resources, and Chemical Engineering; and 3 undergraduate majors: Mathematics and Applied Mathematics, Applied Physics, and Applied Chemistry.

At present, our college has 115 faculty members, among whom 105 are full-time teachers, including 26 professors (including part-time professors), 33 associate professors, and more than 50 doctoral and master's supervisors. There are more than 280 master students and more than 560 undergraduates in our college.

In teaching, our college always regards the improvement of teaching quality a top priority and actively researches and practices the reforms of teaching content and method under the background of mass higher education. Thus, we have been able to keep the teaching quality steadily improved. Currently, our college has 4 Shanghai Quality Courses: Higher Mathematics, College Physics, Probability Theory and Mathematical Statistics, and Linear Algebra; and 9 City-level Key Courses: Mathematical Analysis, General Chemistry, Mathematical Physics Equations, Electromagnetics, Higher Algebra, Mathematical Modeling, Optics, Analytical Chemistry, and Numerical Analysis.

Since 2006, our teachers have coached students for China Undergraduate Mathematical Contest in Modeling (CUMCM) and have won 20 second or higher prizes of national level. They have also coached students for Mathematical Contest in Modeling (MCM) of America and won 36 awards. In addition, they have coached postgraduate students for National Post-Graduate Mathematical Contest in Modeling and achieved 226 awards, including 9 first prizes and 89 second prizes. Our college has won the Outstanding Organization Award for 5 consecutive years. Our teachers have won city-level awards of Teaching Achievement and Excellent Teaching Materials several times; many teachers have been awarded Shanghai Teaching Masters, Shanghai Advanced Workers, Shanghai Leading Talents, Shanghai Educating Intellectual Award, and the title of "Good Teacher" chosen by students in USST.

With regard to scientific research and subject construction, our college has made great progress in recent years. Since 2011, our college has got grants of more than 30 National Natural Science Foundation Projects and more than 40 provincial and ministerial level projects. We have published 799 papers, 314 of which are SCI papers, including 38 papers in SCI An1, 72 papers in An2, and 5 papers frequently cited by ESI. The postgraduate education in our college is of high quality. The rate of high-quality papers published by the graduates and outstanding academic papers obtained by the university comes out among the best in the university. Since 2015, 3 papers have been awarded Shanghai Outstanding Master Dissertation.

The Party Committee of our college has been keen on carrying out the “striving for excellence” activities, actively building a learning-oriented and service-oriented party organization, and aspiring to create a college culture of seeking the truth with the utmost scientific spirit (“Ge Wu Zhi Zhi, Li Chong Zhi Zhen”). In recent years, our college has been awarded excellent prize for many times in the department assessments by the university.

After 14 years of construction, College of Science has developed from the original Basic Teaching Department to a teaching-research-type college with a complete training system from undergraduate to doctoral education. Guided by the university’s goal of “constructing high quality undergraduate programs, creating first-rate disciplines, and pursuing the great aim of Top 100 University in China”, College of Science will certainly strive to make greater contributions to the university’s “Double First-rate” construction.