

DESCRIPTION OF DEPARTMENTS.

CHEMISTRY.

The chemical offerings include courses of instruction in general elementary, inorganic, organic, physical, and theoretical chemistry, and several lines of qualitative and quantitative analysis. See under *Chemistry* in LIST OF SUBJECTS.

The instruction in elementary chemistry is conducted upon the principle that whatever the ultimate purpose of the student may be, whether he is to become a technical chemist, a teacher of chemistry, or an investigator, or whether he studies chemistry as part of a liberal education, his approach to the subject should be upon the scientific and not upon the technical side.

In conformity with this principle, the minor course in elementary chemistry, Chemistry I, which is primarily arranged for students of other departments, as a means of affording them in the minimum time a fair understanding of the fundamental principles of general chemistry, is required of all regular chemical students as a brief general view of, or introduction to, the science of chemistry.

After this first term the work becomes more technical in character, but the required chemical subjects of the course constitute a back-bone of sound scientific preparation such as insures the attainment of a thorough grounding in the principles and laws of chemistry, while by proper selection of the numerous electives one may specialize along any of the lines of applied chemistry or pharmacy, or develop further his knowledge of pure chemistry.

In order that an acquaintance with chemical literature may be had, and to keep pace with the advances in chemistry, students of the third and fourth years are required to take part in the chemical seminary in which the work consists chiefly of reviews and discussions of assigned articles in current numbers of the various journals.

Two terms' work in the fourth year are devoted to the investigation of some chemical problem. This practice both furnishes an opportunity to specialize along some chosen line and serves as an introduction to the methods of chemical research.

APPLIED CHEMISTRY.

In this department there are offered ten separate courses in technological subjects. These require as preliminary work the