

COLLEGE OF PHARMACY

CHEMISTRY

Ewen Gillis, James W. Miles, and Arlie L. Townsend.

- 23a PRINCIPLES OF PHYSICS. (3) I** Townsend
A lecture-demonstration course involving the basic principles of physics. Designed to prepare the student for an understanding of the application of such principles to pharmaceutical and chemical operations. Lecture and demonstration, three hours.
- 23b PRINCIPLES OF PHYSICS. (3) II** Townsend
A continuation of course 23a. Lecture and demonstration, three hours.
- 31a ORGANIC CHEMISTRY. (6) I** Miles
A comprehensive course in the preparation, properties and reactions of the various classes of aliphatic and aromatic compounds and the effect of structure on physical and chemical properties. Official products are emphasized in their proper sequence as the course progresses. Lecture, three hours; laboratory, six hours. Prerequisite: Chemistry 1a, 1b, and 20, or equivalent.
- 31b ORGANIC CHEMISTRY. (6) II** Miles
A continuation of Chemistry 31a. Lecture, three hours; laboratory, six hours.
- 33 QUANTITATIVE ANALYTICAL CHEMISTRY. (5) I, II** Miles
This course includes a study of the fundamental theories and methods of analytical chemistry as applied to gravimetric and volumetric analysis. Emphasis is placed on pharmaceutical application. Lecture, one hour; recitation, one hour; laboratory, six hours.
- *101a ORGANIC PHARMACEUTICAL CHEMISTRY. (3) I** Gillis
A study of the classification, source, properties, synthesis and uses of organic medicinal chemicals used as therapeutic agents. Lecture, one hour; laboratory, four hours.
- *101b ORGANIC PHARMACEUTICAL CHEMISTRY. (3) II** Gillis
A continuation of Chemistry 101a. Lecture, one hour; laboratory, four hours.
- 102 BIOCHEMISTRY. (4) I, II** Gillis
An introductory course in biochemistry, including the study of protein, fat, and carbohydrate metabolism, and the vitamins, hormones, and substances essential to metabolic processes. Special reference is made to those compounds used in pharmacy. Lecture, one hour; recitation, one hour; laboratory, four hours.

* May be elected only by permission of the instructor and with the consent of the Dean. Hours to be arranged.