

115. ADVANCED QUANTITATIVE ANALYSIS. Prerequisites: Chemistry 112 and 114. Spring. Lectures. 1:30. Laboratory time to be arranged. Fee \$5.00. Professor Knudson.

121, 122, and 123. ORGANIC CHEMISTRY. Autumn and Winter, given as a full course. Spring. Monday, Wednesday, Friday, one-half course. 11:40. Three hours laboratory work per week. Fee \$5.00. Professor Gustavson and Mrs. Cohn.

132, 133, and 134. PHYSICAL CHEMISTRY. Autumn, Winter, and Spring. Lectures. 10:40. Laboratory work to be arranged. Fee \$3.00 for each course. Professors Earl A. Engle and Knudson.

143. CHEMICAL ENGINEERING. Autumn. 9:00. Professor Knudson.

144 and 145. CHEMICAL ENGINEERING. Winter and Spring. 9:00. Professor Knudson.

151 and 152. BIOCHEMISTRY. Prerequisite: Courses 12 and 122 and a knowledge of physiology. Autumn and Winter. 8:00. Fee \$5.00. Professor Gustavson.

164. METALLURGY. May be taken for one or one-half course credit. Spring. 9:00. Professor Earl A. Engle.

171. MAGAZINE SEMINAR. Sections limited to twelve students. One-half course credit on completion of a year's work. Autumn, Winter, and Spring. Wednesday. 2:30. Professor W. D. Engle and Staff.

215. ORGANIC QUALITATIVE ANALYSIS. May be taken either as one or one-half course. Spring. 11:40. Fee \$5.00 for full course or \$3.00 for half course. Professor Gustavson and assistants.

223, 224, and 225. ADVANCED ORGANIC CHEMISTRY. Prerequisite: Chemistry 123. One-half course credit each quarter. Autumn, Winter, and Spring. Wednesday and Friday. 1:30. Professor Gustavson.

227. ORGANIC PREPARATIONS. Prerequisite: Chemistry 121 and 122. May be taken either as one or one-half course. Spring. 1:30. Fee \$5.00 for full course or \$3.00 for half course. Mrs. Cohn.

231, 232, and 233. ADVANCED PHYSICAL CHEMISTRY. Prerequisite: Chemistry 133. Autumn, Winter, and Spring. Monday and Wednesday. One-half course credit each quarter. 11:40. Professor Knudson.

271, 272, and 273. RESEARCH. Credit to be arranged. Autumn, Winter, and Spring. 3:30. Fee \$5.00 per course. Professors W. D. Engle, Gustavson, Earl A. Engle, Knudson, and Mrs. Cohn.

275. GRADUATE SEMINAR. Required of all candidates for the Master's degree. One course credit given for the work throughout the entire year. Tuesday. 3:30. Professor W. D. Engle and staff.

Summer School

First Term

151(a)S. BIOCHEMISTRY. General Chemistry and Organic Chemistry are prerequisites. Students are advised to take course 151(b)S for laboratory work to accompany this course. One-half course credit. 8:00. Professor Gustavson.