77. Computation and Classification of Oxidation.—Classification, changes in composition, weathering, spontaneous combustion, formation of mine gases. Lectures; assigned reading. 11: (1) IQ, 1 quarter hour.

Professor Parks

Preparation: Chemistry 65.

78. Metallurgy.—Composition and microstructure of metals and alloys and the relation between their properties, chemical and mechanical treatment, and structure. Lectures; reading laboratory. 12: (2) IQ, 3 quarter hours.

Associate Professor MacAland

Preparation: Chemistry 7.


Preparation: Two years’ work in chemistry.

85. The Chemistry of the Higher Order Compounds.—Complex compounds from the standpoint of the Valence Theory as developed by Werner. 12: (2) Not given, 1918-19.

Assistant Professor Smith

Preparation: Chemistry 9a, 9b, 14a-16b.

90-91. Chemical Inspection 704a.—Required for juniors and seniors in the course in chemistry and chemical engineering. For the year 1918-19 the tests took place on April 16 to 19, 1919. The square involved will approximate fifteen to twenty-five dollars for each student. 11: (2) IQ, 3 quarter hours.

Miss Smith

92-93. Chemical Literature and Reference Work.—Periodicals, leaders, journals. Required of juniors in chemistry and chemical engineering; required of seniors who are majoring in chemistry. 11, 12: (1) Y92a, (2) IQ, 2c, 9a, 9b, IQ, 1 quarter hour.

Miss Davis

93-94. Chemical Laboratory.—Required of seniors and all graduate students in chemistry. All members of the staff of the department of chemistry are expected to assist. 11, 12: (1) IQ, 1 quarter hour.

Dr. Franklin

95. History of Chemistry.—Lectures and assigned reading. 11, 12: (2) IQ, 2 quarter hours.

Assistant Professor Smith

Courses for Graduates

Graduate students whose major subject is in some department other than chemistry, before taking graduate work for credit in this department, must have had the equivalent of 15 university credits in chemistry, and the ground covered should include satisfactory work in general chemistry and in qualitative and quantitative analysis. Such students are advised to make selections from the following courses: Chemistry 31, 33 (or 105, 101A), 14a, 14b, 9a, 9b, 15, and 33. Course of a more special nature will not, as a rule, be accepted for graduate work unless preceded by one of the above courses.

For students in agriculture, Chemistry 5a and 13a will not be accepted for graduate credit.

Graduate students who are candidates for an advanced degree in chemistry must have had the equivalent of 32 university credits in chemistry, properly distributed.

For students in chemistry, 5a, 11a, 9, and 9c will not be accepted for graduate credit, and 9a, 9b, 14a-16b, 31, and 33 will be accepted only for students entering the Graduate School with the equivalent of 30 university credits in chemistry.

101. Theories of Chemistry.—Seminars. Origin and development of the principal theories of science. One week. 11, 12: (4) IQ, 1 quarter hour.

Professor Norvel