

171. PHYSICAL CHEMISTRY I. Five hours credit. This course deals with the fundamental relationships between the properties of gases, liquids, solids, and solutions, and with the elementary principles of thermodynamics and chemical equilibrium. Prerequisites: Chemistry 48 or 49, 44E or 161, and satisfactory preparation in college physics and calculus.† Fee, \$10. Lectures, 7:30-8:20; laboratory, 8:30-11:30. Taft.

302. ADVANCED TOPICS IN INORGANIC AND PHYSICAL CHEMISTRY. Two or three hours credit. General prerequisites and courses 171 and 172. 11:30-12:20. Davidson.

364. ADVANCED ORGANIC PREPARATION AND ANALYSIS. Two to five hours credit. Lectures and laboratory work. Must be preceded by course 163 or its equivalent. A study of organic synthetic methods and ultimate organic analysis. General prerequisites and course 171 or 172. By appointment. Fee, \$2 per hour. Brewster.

365. ORGANIC CHEMISTRY RESEARCH. Two to five hours credit. This course offers, to those who have the proper preparation, a chance for extended study and original investigations. General prerequisites and courses 163 and 164. Fee, \$1 per hour. By appointment. Stratton, Brewster.

367. ADVANCED TOPICS IN ORGANIC CHEMISTRY. Three hours credit. General prerequisites and course 163. By appointment. Brewster.

376. PHYSICAL CHEMISTRY RESEARCH. Two to five hours credit. A course extending over one or more semesters. An opportunity is offered to those who are sufficiently advanced, to carry on investigations in this branch of chemistry. General prerequisites and courses 171, 172, and 356. Fee, \$1 per hour. By appointment. Davidson, Taft.

## ECONOMICS

Professors: STOCKTON, ISE, TAGGART  
Associate Professor: SHANNON  
Assistant Professor: ROARK

All courses numbered under 300 count for credit in the schools of Business, Education, Engineering and Architecture, and Pharmacy.

Courses 1, 5, 9, 140, 150, 153, 161, and 198 count for general College credit; courses 110, 194, and 195 count for professional credit.

All courses over 100 count for credit in the Graduate School.

1. INTRODUCTORY ECONOMICS. Three hours credit. A study of production and consumption, stressing the relation to social welfare of our principal economic institutions and processes, such as business organization, marketing, banking, risk bearing, business cycles, foreign trade, and public finance. Economic maladjustments, such as those arising from misdirection of production and insufficient income, their nature and method of treatment. Price and distribution theory is omitted. Not open to juniors and seniors. 9:30-10:20. Taggart.

\*5. PRICE AND DISTRIBUTION. Three hours credit. An analysis of the forces which, through the price system, determine the quantity of each good produced and the distribution of those goods to the factors of production—land, labor, capital, and management. Although the analysis is made for the most part on the assumption of competition, the effects of monopoly are briefly discussed. Fee, 50 cents. Not open to freshmen. 8:30-9:20. Ise.

† Satisfactory preparation in general physics and calculus is defined as follows: At least a semester's credit in college physics and in differential calculus and concurrent enrollments in the second semester of college physics and in integral calculus. Preferably, credits in a year of college physics and in differential and integral calculus should be presented to meet the prerequisites.