DAIRY SCIENCE

College of Agriculture and Natural Resources

214. Dairy Production
Fall, Spring. 4(3-2)

323. Dairy Cattle Judging
Spring. 3(0-8)
Desired type in dairy cattle. Judging and show ring procedures. Competitive judging. Teams selected to represent Michigan State University in national competition.

371. Dairy Seminar
(471) 1(1-0) Juniors
Major issues pertinent to the dairy industry and the dairy industry of Michigan. Students are provided an opportunity for an exchange of ideas.

413. Dairy Farm Management
Spring. 3(2-2)
Analysis of dairy farm organization and operations. Dairy herd management practices. Dairy cattle housing with emphasis on economical and efficient usage. Use of dairy records in the farm operation.

424. Dairy Cattle Breeding
Spring. 4(2-4) ANS 461
Applications of population genetics to improving dairy cattle. Use of selection, aids to selection, and systems of mating to formulate breeding plans. Inheritance of economic traits. Breed improvement programs.

433. Dairy Cattle Nutrition
Winter. 4(3-2) ANS 325
Principles of ruminant nutrition and application to actual feeding practices in commercial dairy herds. Rumen fermentation as related to feed utilization, milk production and milk composition.

444. Milk Secretion
Winter. 4(3-2) Interdepartmental and administered jointly with the Physiology Department.

445. Endocrinology and Reproduction of Farm Animals
Fall. 4(3-2) PSL 340. Interdepartmental and administered jointly with the Physiology Department.
Endocrine and reproductive systems are presented with emphasis upon characteristics which can be altered for economic benefit and upon causes, prevention, and treatment of endocrine abnormalities.

480. Special Problems
Fall, Winter, Spring, Summer. Variable credits. May re-enroll for a maximum of 10 credits. Approval of department.

Winter. 3(4-0)
For course description, see Interdisciplinary Courses.

550. Topics in Dairy Science
Fall, Winter, Spring. Variable credit. May re-enroll for credit. Approval of department. Topics from breeding, management, nutrition, or physiology, changing from term to term to include recent technical advances.

599. Research
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

599. Research
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

EARTH SCIENCE

College of Business

Courses are classified as follows:

- Labor Economics and Industrial Relations-305, 455, 456, 457.
- Money and Banking-318, 322, 330.
- International Economics-427.
- History of Economic Thought-421, 422.

200. Introduction to Economics
Fall, Winter, Spring, Summer. 4(4-0)
Open to Freshmen. Students may begin sequence with either 200 or 201.
Problem of unemployment; meaning and determination of national income; the multiplier, the accelerator, fiscal policy, deficit spending; monetary policy, banks creation of money; international aspects of the employment problems.

201. Introduction to Economics
Fall, Winter, Spring, Summer. 4(4-0)
Open to Freshmen. Students may begin sequence with either 200 or 201.
Problem of resource allocation; price determination (demand, supply), applications to agricultural policy; diminishing returns; behavior of the firm (determination of quantity of output, hiring of factors); aspects of international trade.

210. Fundamentals of Economics
Fall, Winter. 4(4-0) MTH 315 or 225; or concurrently. Students may earn credit in 210 if they have credit in either 200 or 201.
Introductory course in economic theory, employing mathematics, when useful, as a tool analysis. Covers consumer and business behavior, markets and the price system, income distribution, and elements of employment theory.

251H. Households, Firms and Markets
Fall. 5(5-0) Honors College students.
Microeconomic theory and its applications to analysis and policy. Substitutes for 201, 324 and 325.

252H. Aggregative Economics and Public Policy
(Fall) Winter. 5(5-0) Honors College students.

305. Industrial Relations and Trade Unionism
Fall, Winter, Spring, Summer. 5(5-0)
Development, aims, structure, and functions of labor and employer organizations. Their relation to economic, political, and legal institutions and their impact on society. Primary issues in collective bargaining.

318. Money, Credit and Banking
Fall, Winter, Spring, Summer. 4(4-0) 200 or 210.
Commercial banking and the money supply. The Federal Reserve System, the Treasury, and other financial institutions. Sources and uses of funds in the financial market.

320. Macroeconomics I
Fall, Winter, Spring, Summer. 3(3-0)
200 and 201 or 210.

321. Macroeconomics II
Fall, Winter, Spring. 3(3-0)
200.
Expansion of role of monetary factors in macroeconomic theory. Theories of economic growth and cycles. Study of macroeconomic problems of inflation, unemployment, and other current policy problems.

324. Microeconomics I
Fall, Winter, Spring. 3(3-0)
200 and 201, or 210.
Theory of production and cost. Theory of the firm under varying market structures.

325. Microeconomics II
Fall, Winter, Spring. 3(3-0)
200 and 201, or 210, and 324.

330. Investments and Security Markets
Fall, Spring. 3(3-0) 200 or 210.
Juniors.
The stock market; principles of investment; analysis of selected industries and corporations; regulation by the Securities and Exchange Commission.

337. American Social and Economic History: Foundations
Winter. 4(4-0) Juniors. Interdepartmental and administered by the History Department.
Multiple sources of economic growth in economic, social and political change, education, science and technology, political action, and other factors, mid-19th century.

338. American Social and Economic History: Modern Trends
Spring. 4(4-0) Juniors. Interdepartmental and administered by the History Department.
Urbanization, origins and implications of large-scale organizations in business and other sectors of society, and sources of economic growth since mid-19th century.