360, to actual feeding practices in commercial dairy production in a changing environment.

373. Plant Breeding Biometrics
Winter of even-numbered years. 4(3-2)

Biometrical genetics as it applies to plant breeding. Includes studies of path coefficients, partitioning of variance, and the principles of selection in a changing environment.

375. Cytogenetics in Plant Breeding Laboratory
Winter of even-numbered years. 3(0-6)

Laboratory course to accompany 373.

999. Research
Fall, Winter, Spring, Summer. Variable credit.

DAIRY SCIENCE

College of Agriculture and Natural Resources

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


233. Dairy Cattle Judging
Spring. 3(0-6)

Desired type in dairy cattle. Judging and showing procedures. Competitive judging. Teams selected to represent Michigan State University in national competition.

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 efficient 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) FSI 240. 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.

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

471. Dairy Seminar
Spring. 1(1-0) Seniors.

Review and integration of information leading to successful operation of the dairy enterprise. Present day trends and problems. Introduction to evaluation and interpretation of scientific reports.

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.

EARTH SCIENCE

See Geology.

EC

College of Business

Courses are classified as follows:


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, 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 215 or 228; or concurrently. Students may not 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. Aggregate Economics and Public Policy
(250H.) Winter. 5(5-0) Honors College students.


305. Industrial Relations and Trade Unionism
Fall, Winter, Spring. Summer. 3(4-0)

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)


321. Macroeconomics II
Fall, Winter, Spring. Summer. 3(3-0)


324. Microeconomics I
Fall, Winter, Spring. Summer. 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. Summer. 3(3-0)

200 and 201, or 210, and 324.