

**Descriptions – Finance and Insurance  
of  
Courses**

**FINANCE AND INSURANCE F I**

(Name changed September 1, 1981. Formerly the Department of Accounting and Financial Administration.)

**College of Business and Graduate  
School of Business  
Administration**

**350. Principles of Risk and Insurance**

(AFA 350.) Fall, Winter, Spring, Summer. 4(4-0) Juniors or approval of department.

Risk and risk meeting methods with emphasis on the insurance mechanism. Fundamental principles, legal relationships, types of carriers and organization; principal types of coverage and industry regulation.

**391. Financial Management**

(AFA 391.) Fall, Winter, Spring, Summer. 5(5-0) ACC 202, Juniors.

Basic principles and theoretical framework leading to sound financial management decisions. Role of the financial manager in achieving optimal financial position of the firm. Management of a firm's assets and financing needs.

**392. Investment Planning**

(AFA 392.) Fall, Winter, Summer. 4(4-0) F I 391.

Analysis of the various financial assets from which the individual or institution selects. Emphasis /B is on the analytical techniques and principles involved in the evaluation of financial instruments such as common stocks, bonds, preferred stock, and warrants. The role of particular types of securities in the portfolio management and investment planning process is examined and related to the current environment.

**396. Personal Risks and Insurance**

(AFA 396.) Fall, Summer. 5(5-0) F I 350 or insurance administration.

Personal risk analysis and personal insurance. Emphasis on life, health, automobile, fire and liability insurance. Programming personal insurance. Estate analysis and trusts. Social and economic aspects of personal insurance.

**397. Social Insurance Topics**

(AFA 397.) Fall. 4(4-0) EC 200.

Systematic study of the legal, actuarial, social and political aspects of social insurance. Federal and State programs. Problems, solutions and potential alternatives.

**486. Business Risks and Insurance**

(AFA 486.) Winter. 5(5-0) F I 350 or Seniors in business administration.

Business insurance as it relates to business risks and decision making. Emphasis on business exposures, coverages and problems of the risk manager.

**487. Management of Insurance  
Enterprise**

(AFA 487.) Spring. 5(5-0) F I 350 or approval of department.

Organizational requirements and functional operations of insurance enterprise with emphasis on methods of ratemaking, reserves, financial statement and investment requirements, loss adjustment, underwriting, and marketing. Statutory limitations on management freedom.

**491. Financial Markets**

(AFA 491.) Fall. 4(4-0) F I 391.

Introduction to theories and models concerning financial markets. An analysis of financial instruments and major financial market participants. Governmental and legal influences on financial markets.

**492. Management of Financial  
Institutions**

(AFA 492.) Winter. 4(4-0) F I 391.

Emphasis is on the asset and liability management of commercial banks, savings and loan associations, credit unions, private and public pension funds, and trust institutions. Financial strategy is examined in light of legal and managerial constraints as well as fiduciary responsibility. Related issues include regulation and the concept of prudence.

**493. Advanced Business Finance**

(AFA 493.) Spring. 4(4-0) F I 391, Seniors.

Advanced study of the financial management of business firms. Special emphasis is placed on areas of major interest from both applied and theoretical points of view. Areas covered include capital budgeting, valuation, financial structure, mergers, and working capital management as well as other financial topics. Cases are used.

**495. Special Problems**

Fall, Winter, Spring, Summer. 1 to 4 credits. Senior F I major, approval of department.

Independent study of special topics in finance or insurance.

**817. Quantitative Applications in  
Accounting and Finance**

(AFA 817.) Winter. 4(4-0) MGT 833. Interdepartmental with the Department of Accounting.

Application of quantitative techniques to accounting, finance, and control activities, especially involving the data requirements of managerial decision models.

**818. Research Techniques in  
Accounting and Finance**

(AFA 818.) Spring. 4(4-0) MTH 113, ED 969C. Interdepartmental with and administered by the Department of Accounting.

Properties of time series in accounting and finance with emphasis on ARIMA model and transfer-function model development. Applications and potential research areas.

**850. Risk Management and Insurance  
Concepts**

(AFA 850.) Winter, Summer. 4(4-0)

Analysis of business exposures and risk management techniques. Risk meeting alternatives and their economic, legal, and social implications. The role of insurance and employee benefits in risk management.

**855. Market Cost-Revenue Analysis**

(AFA 855.) Winter. 4(4-0) One course in accounting and one in marketing. Interdepartmental with and administered by the Department of Marketing and Transportation Administration.

Analytical tools for use in planning and controlling marketing activities. Emphasis on the determination of factors causing marketing cost differences and the assignment of costs to those factors. Application of tools to determination of expenditure-revenue patterns and market potentials.

**870. Financial Markets**

Fall. 4(4-0) F I 888.

Financial markets, rates, and flows. Major theoretical explanation and empirical evidence concerning financial market behavior.

**871. Portfolio Theory and Capital  
Markets**

(AFA 871.) Fall, Spring. 4(4-0) ACC 839; F I 888.

Theoretical and empirical development in portfolio analysis and capital markets. Included topics are implementation of the Markowitz and Sharpe portfolio models, development and implications of the capital asset pricing model, and empirical studies of capital markets.

**872. Management and Financing of  
Corporate Assets**

(AFA 872.) Fall, Summer. 4(4-0) F I 871 or concurrently.

Principles of decision analysis in management of current assets, estimation of requirements for short term funds, and valuation of capital budgeting and merger proposals. Analysis of actual business cases is supplemented by selected readings.

**873. Long Term Financial Policies**

(AFA 873.) Winter, Summer. 4(4-0) F I 871 or F I 872.

Planning capital structure and the cost of capital. Examines fundamental considerations of raising capital, debt management, dividend policy and problems in public issues. Analysis of actual business cases is supplemented by selected readings.

**874. Investment Strategy**

(AFA 874.) Spring. 4(4-0) F I 871 or concurrently, F I 872 or F I 873.

Analysis of various theories and techniques available to achieve superior selection and management of securities. Review and evaluation of significant literature in security analysis and investment.

**878. Bank Management**

(AFA 878.) Spring. 4(4-0) F I 888.

Provides a comprehensive working knowledge of commercial bank management. Topics include capital adequacy, liquidity, public policy and bank failures, regulation, consumer protection, and other internal and external banking industry issues.

**888. Financial Concepts and Analysis**

(AFA 888.) Fall, Winter. 4(4-0) ACC 839.

Principles of managerial finance. Working capital management, capital budgeting and methods of finance aimed at maintaining liquidity and profitability are considered. Emphasis is on decision making.

**889. Financial Decision Making**

(AFA 889.) Fall, Winter, Spring, Summer. 4(4-0) F I 888, ACC 840 or concurrently; MGT 833.

Financial planning and control at corporate officer level. Investment decisions, growth and expansion strategies, dividend policy. Interaction of finance with other corporate functions, and of the firm with the financial community.

**890. Special Problems**

Fall, Winter, Spring, Summer. 1 to 4 credits. Approval of department.

Independent study of special topics in finance or insurance.

**990. Seminar in Financial  
Management Theory**

Fall. 4(4-0) Doctoral candidates with approval of department.

The financial theory of the firm. Theoretical models dealing with capital structure, cost of capital, and dividend policy.

**991. Seminar in Capital Markets**  
(AFA 991.) Winter. 5(5-0) F I 990.  
The mathematical basis of portfolio theory. Development of capital asset pricing models. Empirical tests of capital market theories.

**992. Seminar in Selected Finance Topics**  
Spring. 4(4-0) F I 991.  
Study and research in finance topics selected from areas of interest to the instructor and doctoral candidates.

**999. Doctoral Dissertation Research**  
Fall, Winter, Spring, Summer. 1 to 5 credits. May reenroll for a maximum of 36 credits. Approval of department.

**FISHERIES AND WILDLIFE F W**

**College of Agriculture and Natural Resources**

**100. Introduction to Fisheries and Wildlife**  
Fall. 1(1-0) Freshmen Fisheries and Wildlife Majors.  
Fisheries and wildlife as a profession. Academic and nonacademic needs to meet professional objectives, using current management problems as a focus for discussion.

**203. Resource Ecology**  
(IDC 200.) Fall, Winter, Spring, Summer. 3(3-0) Interdepartmental with the departments of Forestry, Geography, Resource Development, and Zoology.  
Basic concepts of ecology which are the unifying basis for resource management, conservation policy and the analysis of environmental quality. Extensive use of guest lecturers.

**301. Fish and Wildlife of North America**  
Winter. 5(3-4) B S 212 or approval of department.  
Comparative study of fish and wildlife groups in North America, their significant life history stages, morphology, migrations, habitats and populations. Common species are identified in the laboratory.

**302. Ecosystem Processes**  
Spring. 3(3-0) CEM 132, PHY 238, B S 212, CSS 210, GLG 201, MTH 108, MTH 109 or MTH 111.  
Concepts of ecosystem structure and function developed from basic scientific laws and relationships.

**305. Principles of Fisheries and Wildlife Management**  
Winter. 3(3-0) IDC 200 or approval of department. Not open to majors in fisheries-limnology or wildlife-ecology options.  
Ecological concepts in management. Effects of regulations, refuges, stocking, species introduction, habitat manipulation, artificial feeding, genetic improvement, land use and control of predators, diseases and competitors on the production of fish and game.

**328. Vertebrate Pest Control**  
Fall. 3(3-0) B S 212 or approval of department.  
Role of vertebrate animals as agents damaging to human interests; the concepts of damage control; damage control techniques, optional field trip.

**340. Wildlife Biometry**  
Winter. 4(3-2) MTH 111, six credits in fisheries and wildlife.  
Survey of statistical formulas, methods and applications of statistics to problems in fisheries and wildlife.

**374. Biological Oceanography**  
Winter. 3(3-0) B S 212 or approval of department.  
Biology of marine animals, with emphasis on physical, chemical and biological factors affecting their abundance and distribution.

**376. Introductory Limnology**  
Winter. 3(3-0) B S 212; students may not receive credit for both FW 376 and FW 476.  
Lake and stream ecology including effects of natural and human-induced perturbations on freshwater ecosystems.

**402. Environmental Conservation Education**  
Fall. 4(3-2) Education majors or approval of department.  
Nature, distribution, identification, and interrelationships of Michigan's flora and fauna which influence natural resource use. Includes techniques of teaching about the environment. Field trips required.

**404. Fisheries and Wildlife Problems**  
Fall, Winter, Spring, Summer. 1 to 5 credits. May reenroll for a maximum of 12 credits. B S 212; 6 credits of fisheries and wildlife; approval of department.  
To give undergraduate majors an opportunity to study special topics in fisheries and wildlife.

**410. Upland Wildlife Management**  
Fall. 3(3-0) F W 302, F W 340, BOT 450.  
Wildlife management based on upland ecological processes. Assessment and management of habitat. Mitigation of human impact.

**412. Wetland Ecosystem Management**  
Fall. 3(3-0) F W 302, F W 340.  
Ecosystem components and processes applied to wetland management. Mitigation of human impact.

**413. Upland and Wetland Ecosystem Laboratory**  
Fall. 2(0-6) F W 410 or F W 412 or concurrently.  
Wildlife habitat analysis and management in upland and wetland ecosystems. Field trips required.

**420. Biology of Animal Parasites**  
Summer. 6 credits. B S 212 or approval of department. Given at W. K. Kellogg Biological Station. Interdepartmental with the departments of Microbiology and Public Health, and Zoology. Administered by the Department of Microbiology and Public Health.  
Parasitism of animals by protozoa, helminths and arthropods with emphasis on the interrelationships of host-parasite associations with the natural environments.

**424. Wildlife Population Analyses**  
Spring. 4(3-2) BOT 450 or ZOL 389, or concurrently.  
Population mensuration; reproductive and survival rates, sex and age determination; handling and marking methods. Field trips.

**434. Wildlife Resource Policy and Management**  
Winter. 4(3-2) F W 410, F W 412, F W 424.  
The impact of public policy on wildlife management. Objectives of and approaches to wildlife management. Planning, implementing, and evaluating wildlife management programs.

**450. Natural Resource Administration**  
Winter. 4(4-0) Seniors; not open to forestry majors. Interdepartmental with Agriculture and Natural Resources and the departments of Forestry, Park and Recreation Resources, and Resource Development. Administered by the Department of Forestry.  
Concepts and methods of administering wildland properties. The legal, economic and social environment. Benefit-cost analysis of management changes. Unit organization, personnel management and accounting. Presents a systems view of administration.

**455. Natural Resource Economics**  
Fall. 4(4-0) Approval of department. Interdepartmental with Agriculture and Natural Resources and the departments of Forestry, Park and Recreation Resources, and Resource Development. Administered by the Department of Forestry.  
Basic economic and political principles and techniques that govern the production and consumption of forest land products, including basic forest valuation procedures.

**471. Ichthyology**  
Spring. 3(2-3) F W 301 or ZOL 320 or ZOL 428. Interdepartmental with the Department of Zoology.  
Classification and natural history of fishes. Emphasis on food, game, and forage fishes.

**473. Fishery Biology and Management**  
Fall. 5(3-4) F W 471.  
Biology of fishes with special reference to distribution and natural history, and application of this knowledge to problems of obtaining maximum return from fishery resources.

**475. Fish Culture**  
Spring. 3(3-0) F W 473.  
Artificial propagation of freshwater fish including hatchery management, nutritional and environmental requirements, disease and parasite control and intensive fishery management. Utilization of hatchery stock in fisheries management.

**476. Limnology**  
Winter. 3(3-0) CEM 131 and CEM 161; BOT 450 or ZOL 389. Students may not receive credit for both F W 376 and F W 476. Interdepartmental with the Department of Zoology.  
Ecology of lakes and streams with special reference to physical, chemical and biological factors affecting their productivity.

**477. Limnological Methods**  
Winter. 3(0-9) F W 476 concurrently; ZOL 481; ENT 301, ENT 302 recommended. Interdepartmental with the Department of Zoology.  
Methods and instruments of limnological field investigation on lakes and streams.