

Human Nutrition and Foods—HNF

- 494 Practicum**
Fall, Spring, Summer. 1 to 10 credits. A student may earn a maximum of 10 credits in all enrollments for this course. R: Open only to majors in the Department of Food Science and Human Nutrition. Approval of department.
Professional experience in selected settings and organizations under faculty supervision.
- 807 Advanced Food Toxicology**
Fall of even years. 3(3-0) Interdepartmental with Food Science; Animal Science. Administered by Department of Food Science and Human Nutrition. R: Approval of department.
Toxicology related to food safety. Metabolism of toxicants as influenced by food constituents, mutagenesis, and chemical carcinogenesis. Risk assessment.
- 811 Integrated Nutrient Metabolism**
Fall of odd years. 3(3-0) Interdepartmental with Animal Science. Administered by Department of Animal Science. RB: (BMB 200 or BMB 401) or approval of department.
Comparative physiology of the absorption and metabolism of carbohydrates, lipids, protein, minerals, and vitamins and their regulation and integration. Basis for applied nutrition of humans, livestock and companion animals.
- 840 Human Nutrition and Chronic Diseases**
Fall of odd years. 3(3-0)
Dietary intervention and treatment of chronic diseases: obesity, cardiovascular disease, diabetes, gastrointestinal disorders and cancer.
- 843 Community Nutritional Assessment**
Spring of odd years. 3(2-2)
Nutritional assessment of population groups in community settings. Interpretation of national and international health data.
- 890 Supervised Individual Study**
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to graduate students in Food Science and Human Nutrition. Students are limited to a combined total of 10 credits in HNF 890 and HNF 894.
Faculty supervised study of nutrition areas of individual interest.
- 892 Nutrition Seminar**
Fall, Spring. 1(1-0) A student may earn a maximum of 6 credits in all enrollments for this course.
Presentations by students on current topics in nutrition.
- 894 Human Nutrition Practicum**
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to graduate students in Food Science and Human Nutrition. Students are limited to a combined total of 10 credits in HNF 890 and HNF 894. Approval of department.
Experience in agencies or offices related to Human Nutrition. Field experience required.
- 899 Master's Thesis Research**
Fall, Spring, Summer. 1 to 10 credits. A student may earn a maximum of 20 credits in all enrollments for this course. R: Open only to masters students in Human Nutrition and Foods.
Master's thesis research.

- 935 Nutrition: Lipid and Carbohydrate Metabolism**
Fall of even years. 3(3-0) Interdepartmental with Animal Science.
Regulatory aspects of lipid and carbohydrate metabolism as influenced by nutritional status.
- 936 Protein Nutrition and Metabolism**
Spring of even years. 3(3-0) Interdepartmental with Animal Science. Administered by Department of Animal Science.
Nutritional and endocrine regulation of protein synthesis and degradation, protein quality assessment, protein status, protein-energy malnutrition. Protein metabolism during exercise. Metabolism, digestion, and absorption of amino acids and proteins.
- 938 Nutrition: Metabolism and Function of Vitamins**
Spring of odd years. 3(3-0) Interdepartmental with Animal Science.
Regulatory roles of vitamins at cellular and molecular levels.
- 999 Doctoral Dissertation Research**
Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 99 credits in all enrollments for this course. R: Open only to doctoral students in Human Nutrition and Foods.
Doctoral dissertation research.

INFORMATION TECHNOLOGY MANAGEMENT ITM

The Eli Broad College of Business and The Eli Broad Graduate School of Management

- 311 Systems Analysis and Design**
Spring. 3(3-0) P:M: (BUS 309) R: Open only to students in The Eli Broad College of Business.
Structured analysis and design of information systems. Use of computer aided software engineering tools. Consulting issues associated with the design and implementation of information systems.
- 414 Enterprise Resource Planning Systems**
Spring. 3(3-0) P:M: (ITM 311 and BUS 309) R: Open only to students in The Eli Broad College of Business.
Analysis, design and use of enterprise systems. Importance of enterprise system fit and re-engineering of the enterprise. Implementation risks and organizational returns. Use of enterprise software.
- 490 Independent Study in Information Technology**
Fall, Spring, Summer. 1 to 4 credits. P:M: (BUS 309) R: Open only to students in The Eli Broad College of Business.
Directed study in information technology under faculty supervision.
- 491 Special Topics in Information Technology**
Fall, Spring. 1 to 4 credits. P:M: (BUS 309) R: Open only to students in The Eli Broad College of Business.
Current topics in information technology.
- 821 Enterprise Database Systems**
Fall. 3(3-0) Interdepartmental with Accounting. Administered by Department of Accounting and Information Systems. R: Open only to MBA students and MS in Professional Accounting students. Not open to students with credit in ACC 321.
Management of information in business organizations. Conceptual modeling of transaction processing systems, workflow systems, and enterprise-wide networks of value-added activities. Integration of decision support and policy level systems with economic event processing systems. Information system implementation.
- 822 Analysis and Design of Enterprise Systems**
Fall. 3(3-0) Interdepartmental with Accounting. Administered by Department of Accounting and Information Systems. P:M: (ACC 321 or MBA 823) R: Open only to MBA students and Master of Science students in Professional Accounting or approval of department.
Structured analysis and design of enterprise information systems. Use of computer-aided software design tools. Consulting issues associated with the design and implementation of information systems.
- 823 Advanced Enterprise Database Systems**
Fall. 3(3-0) Interdepartmental with Accounting. Administered by Department of Accounting and Information Systems. P:M: (ACC 321 or ACC 821 or ITM 821) R: Open only to MBA students and Master of Science students in Professional Accounting or approval of department.
Enterprise information architectures. Semantic and syntactic modeling of enterprise economic phenomena. Relational database technology and database design for business systems. Business process analysis patterns and implementation compromises.
- 824 Business Data Communications**
Spring. 3(3-0) Interdepartmental with Accounting. Administered by Department of Accounting and Information Systems. P:M: (MBA 823 or ACC 321) R: Open only to MBA students and Master of Science students in Professional Accounting or approval of department.
Methods of enterprise data communications. Local and wide area networks. Network control and security. Groupware and electronic commerce applications. Design and implementation of local area networks and internet commerce servers for businesses.
- 825 Object Oriented Business Information Systems**
Spring. 3(3-0) Interdepartmental with Accounting. Administered by Department of Accounting and Information Systems. P:M: (ACC 823 or ITM823) R: Open only to MBA students and Master of Science students in Professional Accounting or approval of department.
Analysis and design of object-oriented business systems. Unified modeling language of business phenomena and rules. Object-oriented programming. Use-case analysis and specification.

826 Enterprise Information Systems
 Spring. 3(3-0) Interdepartmental with Accounting. Administered by Department of Accounting and Information Systems. R: Open only to MBA students and students in the Master of Science in Professional Accounting or approval of department.
 Analysis, design and use of enterprise systems. Importance of enterprise system fit and reengineering of the enterprise. Implementation risks and organizational returns. Use of enterprise software.

813 Information Systems
 Fall. 1(1-1) R: Open only to MBA students in the Program in Integrative Management.
 Information, process, and technology architectures of corporate information systems. Role of information in organizational control and decision making. Methods for evaluating effectiveness of information systems. Application of course concepts to the work environment.

853 Human Resource Management
 Fall. 1(1-1) R: Open only to MBA students in the Program in Integrative Management.
 Strategic organizational issues associated with managing the labor market to acquire, develop, and compensate human resources. Application of course concepts to work environment.

INTEGRATIVE MANAGEMENT PIM

The Eli Broad College of Business and The Eli Broad Graduate School of Management

800 Managerial Skills
 Summer. 1(1-1) R: Open only to MBA students in the Program in Integrative Management.
 Approaches to effective group management in business organizations. Creating, maintaining, and leading work groups.

821 Managerial Economics
 Summer. 1(1-1) R: Open only to MBA students in the Program in Integrative Management.
 Economics of the firm, with applications. Supply and demand, production and cost, competitive markets, pricing with market power, strategic behavior.

855 Strategic Management
 Fall. 1(1-1) R: Open only to MBA students in the Program in Integrative Management.
 Determination of the strategic direction of the firm in a global, complex, and volatile environment. Analysis of the management of strategic actions and processes within and across firm boundaries. Integration of environmental factors and organizational functions in the analysis of management problems.

801 Firm Analysis
 Fall. 1(1-1) R: Open only to MBA students in the Program in Integrative Management.
 Faculty supervised analysis of the student's employing organization. Organization and financial structure. Information, accounting, operating, and marketing systems.

822 Macroeconomics for Managers
 Summer. 1(1-1) R: Open only to MBA students in the Program in Integrative Management.
 Determinants of national income, employment, and inflation. Macroeconomic environment of business: business fluctuations, fiscal and monetary policy, international capital flows, and forecasting macroeconomic data.

862 Customer and Competitor Analysis
 Spring. 1(1-1) RB: (PIM 861) R: Open only to MBA students in the Program in Integrative Management.
 Assessment of consumer and organizational buying behavior processes and competitive environments. Competitive strategies and customers' needs, wants, motivations, and behaviors throughout the value-added chain. Application of course concepts to work environment.

802 Environmental Analysis
 Spring. 1(1-1) R: Open only to MBA students in the Program in Integrative Management.
 Faculty supervised analysis of the student's employing organization. Customer and competitor analysis. Legal and financial environment. Human resource issues.

831 Managerial Legal Environment
 Spring. 1(1-1) R: Open only to MBA students in the Program in Integrative Management.
 The U.S. legal system. The interrelationship of law and ethics. Regulation of business by courts, state and federal statutes, and governments. Applications of course concepts to work environment.

863 Marketing Systems
 Fall. 1(1-1) R: Open only to MBA students in the Program in Integrative Management.
 Marketing decision making within global, customer, economic, ecological, and competitive environments. Gathering and analyzing marketing information. Developing strategies to guide the organization and operational market plans. Application of course concepts to work environment.

803 Strategic Analysis
 Fall. 1(1-1) R: Open only to MBA students in the Program in Integrative Management.
 Faculty supervised analysis of the student's employing organization. Strategy formulation and policy integration.

841 Corporate Finance
 Fall. 1(1-1) RB: (PIM 811) R: Open only to MBA students in the Program in Integrative Management.
 Valuation techniques for bonds and stocks. Investment decisions by firms. The relation between risk and return. Pricing models for risk. U.S. capital markets. Application of course concepts to work environment.

870 Supply Chain Management
 Fall. 1(1-1) R: Open only to MBA students in the Program in Integrative Management.
 Development of strategies within the supply chain. Interrelationships among purchasing, manufacturing, operations, and logistics management to enhance economic competitiveness. Application of course concepts to work environment.

811 Financial Accounting Concepts
 Summer. 1(1-1) R: Open only to MBA students in the Program in Integrative Management.
 Financial reporting issues from a user's perspective. Measurement, valuation, and reporting concepts and issues. Analysis and use of financial accounting information for decision making.

842 Managerial Finance
 Spring. 1(1-1) RB: (PIM 811 and PIM 841) R: Open only to MBA students in the Program in Integrative Management.
 Market efficiency, capital budgeting, security issues, dividend policy, capital structure, and bankruptcy costs. Agency problems between different stakeholders and option pricing. Application of course concepts to work environment.

871 Change and Innovation
 Summer. 1(1-1) R: Open only to MBA students in the Program in Integrative Management.
 Analytic, decision making, and planning concepts and tools for development of new innovative products and services. Management of technology within changing processes and global environments.

812 Managerial Accounting Concepts
 Fall. 1(1-1) RB: (PIM 811) R: Open only to MBA students in the Program in Integrative Management.
 Accounting information for decision making and control: cost behavior patterns, activity-based costing, cost allocations, budgeting, transfer pricing, and accounting controls. Application of course concepts to work environment.

850 Analysis and Decision Models
 Summer. 1(1-1) RB: (STT 315) R: Open only to MBA students in the Program in Integrative Management.
 Models to support decision making: applications of regression analysis, decision analysis, simulation, forecasting, and project management.

872 International Business
 Fall. 1(1-1) R: Open only to MBA students in the Program in Integrative Management.
 International, comparative, and cross-cultural perspectives in business. Markets and implications for managers. Global opportunity assessment, currency risk, and operational considerations.

852 Organization Design
 Fall. 1(1-1) R: Open only to MBA students in the Program in Integrative Management.
 Assessing tasks, environments, and technology to organize and implement corporate and business unit strategies. Assessing distinctive competencies in organizations to deal with dynamic environments. Application of course concepts to work environment.

873A Current Business Issues: Finance
 Fall, Spring, Summer. 1(1-1) A student may earn a maximum of 9 credits in all enrollments for this course. R: Open only to MBA students in the Program in Integrative Management.
 Perspectives on current and emerging topics.