Integrative Management—PIM

862 Customer and Competitor Analysis
Fall, Spring. 1(1-1) R: (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. Perspectives on current and emerging topics.

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.

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.

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.

872 International Business

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.

873B Current Business Issues: Marketing
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.

873C Current Business Issues: Supply Chain
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.

873D Current Business Issues: International Business
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.

873E Current Business Issues: Business Law
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.

873F Current Business Issues: Management
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.

873G Current Business Issues: Information Systems
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 regarding information systems issues.

873I Current Business Issues: Accounting
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 regarding accounting issues.

874 The Global Marketplace
Summer. 1(1-1) R: Open only to MBA students in the Program in Integrative Management. Commercial, economic, cultural, and political aspects of global environments. Exposure to leading executives and government representatives of major trading partners. Develop a comparative framework for competitive strategy in a multi-country context. Field trip required.

875 The Global Environment
Fall, Spring. 3(3-0) P: Completion of Tier I writing requirement. RB: (CEM 141 or CEM 151 or LBS 164) R: Open only to sophomores or juniors and seniors or graduate students in the School of Packaging. Physical and chemical properties of plastics and their relationship to selection, design, manufacture, performance, and evaluation of packages.

876 Packaging with Plastics
Fall, Spring. 3(3-3) P: (PKG 221 or concurrently and PKG 101) and (CEM 143 or CEM 251 or CEM 351) and (STT 200 or STT 201 or STT 315 or STT 351) R: Open only to sophomores or juniors or seniors or graduate students in the School of Packaging. Physical and chemical properties, manufacture, conversion, and use of wood, paper, paperboard, and related components in packaging. Design, use, and evaluation of packages.

878 Distribution Packaging Dynamics
Fall, Spring. 3(3-0) P: (PKG 221 or concurrently and PKG 101) and (CEM 143 or CEM 251 or CEM 351) and (STT 200 or STT 201 or STT 315 or STT 351) and (MTH 124 or MTH 132 or LBS 118 or MTH 152H) R: Open only to sophomores or juniors or seniors or graduate students in the School of Packaging. Integration of marketing strategies with packaging and material issues. Application of carrying systems to analysis of value-added chain. Application of course concepts to work environment.

879 The Global Environment
Fall, Spring. 3(3-0) P: Completion of Tier I writing requirement. RB: (CEM 141 or CEM 151 or LBS 164) R: Open only to sophomores or juniors and seniors or graduate students in the School of Packaging. Physical and chemical properties of plastics and their relationship to selection, design, manufacture, performance, and evaluation of packages.

882 Packaging with Paper and Paperboard
Fall, Spring. 4(3-2) P: (PKG 221 or concurrently and PKG 101) and (MTH 124 or MTH 132 or LBS 118 or MTH 152H) and (CEM 143 or CEM 251 or CEM 351) and (STT 200 or STT 201 or STT 315 or STT 351) R: Open only to sophomores or juniors or seniors or graduate students in the School of Packaging. PACKAGING PKG

School of Packaging
College of Agriculture and Natural Resources

101 Principles of Packaging
Fall, Spring, Summer. 3(3-0) SA: PKG 210 Packaging systems, materials and forms and their relationship to the needs and wants of society.

221 Packaging with Glass and Metal
Fall, Spring, 3(3-0) P: (CEM 141 or CEM 151 or LBS 171) and (PHY 231B or PHY 231C or PHY 183 or PHY 183A or PHY 183B or PHY 271) and (PKG 101 or concurrently) SA: PKG 320, PKG 325 Physical and chemical properties of glass and metals and their applications to packaging.

432 Packaging Processes
Fall, Spring. 4(3-2) P: (PKG 322 and PKG 323) and (PHY 232 or PHY 232B or PHY 232C or PHY 232D or PHY 184 or PHY 182B or PHY 184A or PHY 184B or PHY 294H) R: Open only to sophomores or juniors or seniors or graduate students in the School of Packaging. Integrated study of packaging and production operations, quality control, and organization and control of machines. Interrelationship of products, packaging, machinery layout and efficiency, and quality issues.
Robotic and Automotive Packaging
Fall. 3(3-0) P: (MTH 124 or MTH 132 or LBS 118 or MTH 152H)
Robotic systems: configurations, components, drive mechanisms, control and feedback, safety. Line inspection, vision systems, guided vehicle and storage retrieval systems, reusable and expendable packaging, container cleaning and identification and economics.

Medical Packaging
Fall. 4(3-2) P: (PKG 322 or PKG 323)
Special requirements for packaging pharmaceuticals and medical devices. Evaluation of package systems and packaging procedures.

Food Packaging
Spring. 3(3-1) P: (PKG 322 and PKG 323)
R: Open only to sophomores or juniors or seniors or graduate students in the Packaging major.
Food package systems related to specific products and processes. Product composition: problems and packaging solutions, shelf life considerations, and packaging lines.

Distribution Packaging and Performance Testing
Spring. 3(2-2) P: (PKG 410) R: Open only to sophomores or juniors or seniors or graduate students in the School of Packaging.
Interrelationships between packaging and distribution systems. Transportation, material handling, warehousing, Logistics and management systems. Performance testing and industry practices. Package container design and testing.

Packaging Economics
Fall. 3(3-0) RB: (EC 201 or EC 202)
Economic issues in packaging as they relate to policies of the firm and of government. Relationships between economic policy and societal issues.

Packaging Laws and Regulations
Spring. 3(3-0) RB: (PKG 322 or PKG 323)
R: Open only to sophomores or juniors or seniors or graduate students in the School of Packaging.
History and development of packaging laws and regulations. Relationships among law, government regulation and commercial regulation. Effect of current laws and regulations on packaging.

Packaging Development (W)
Fall, Spring. 4(4-0) P: [PKG 410 and PKG 415 and PKG 432] and completion of Tier I writing requirement. R: Open only to seniors or graduate students in the School of Packaging.
Package development including selection, design and implementation of package systems for protection, distribution, merchandising, use and disposal.

Directed Studies in Packaging Problems
Fall, Spring. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. RB: [PKG 322 and PKG 323] R: Open only to sophomores or juniors or seniors or graduate students in the School of Packaging. Approval of department; application required.
Development of solutions to specific packaging problems. Supervised individual study.

Special Topics
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 6 credits in all enrollments for this course. Selected topics of current interest.

Senior Seminar
Fall, Spring. 1(2-0) R: Open only to seniors in Packaging.
Seminar on current packaging issues, business organization and operations, and accepted practices in a corporate environment.

Professional Internship in Packaging
Fall, Spring, Summer. 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P: [PKG 322 and PKG 323] R: A student may earn a maximum of 6 credits in all enrollments for any or all of these courses: ABM 493, AEE 493, ANR 493, ANS 493, CSS 493, EEP 493, FIM 493, FW 493, HRT 493, PKG 493, PLP 493, PRR 493, and RD 493. Approval of school; application required.
Supervised professional experience in the field of packaging offered through corporations and other businesses throughout the U.S.

Packaging Materials
Fall. 4(4-0) R: Approval of department. Physical and chemical properties of packaging materials: design, manufacture, performance and evaluation of packages.

Packaging Machinery, Distribution, and Dynamics
Spring. 4(4-0) P-M: (PKG 801) R: Approval of department.
Packaging machinery and line operations, statistical process control. Transportation environment. Distribution packaging design and testing.

Advanced Packaging Dynamics
805
Spring. 3(2-2) RB: (PKG 410)

Permeability and Shelf Life
815
Spring. 3(2-2) RB: (MTH 124Q and MTH 132 and PKG 322 and PKG 323)
Relationship between the storage life of packaged food and pharmaceutical products and the gas, moisture, and organic vapor permeability of packages in various environments.

Instruments for Analysis of Packaging Materials
817
Fall of even years. 4(3-2) RB: [PKG 322 and PKG 323] R: Open only to graduate students in Packaging.

Polymeric Packaging Materials
827
Fall. 3(3-0) RB: (PKG 323 or PKG 801) SA: PKG 825
Physical and chemical properties of polymeric materials and structures used in packaging. Relationship of properties to performance.

Processing and Applications of Packaging Plastics
828
Spring. 3(3-0)

Packaging Plastics Laboratory
829
Fall. 1(0-2) Not open to students with credit in PKG 825.
Structure versus property relationships and plastics processing.

Stability and Recyclability of Packaging Materials
875
Fall of odd years. 3(3-0) RB: (PKG 322 and PKG 323)
Interactions between packaging materials and environments: corrosion, degradation, stabilization, and recycling. Impacts of packaging disposal.

Master's Project
888
Fall, Spring, Summer. 2 credits. R: Open only to master's students in the School of Packaging. Approval of school; application required.
Master's degree Plan B project. Completion of a project related to packaging issues.

Independent Study in Packaging
890
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 4 credits in all enrollments for this course. R: Open only to graduate students in Packaging. Approval of department; application required.
Special investigations of unique packaging problems.

Selected Topics
891
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Open only to graduate students in Packaging.
Selected topics of interest to graduate packaging students.

Master's Thesis Research
899
Fall, Spring, Summer. 1 to 8 credits. A student may earn a maximum of 99 credits in all enrollments for this course. R: Open only to master's students in the Packaging major.
Master's thesis research.

Analytical Solutions to Packaging Design
985
Spring of even years. 3(3-0) RB: (PKG 625)
R: Open only to graduate students in the College of Agriculture and Natural Resources or College of Engineering or College of Natural Science. Approval of department; application required.
Analytical and quantitative techniques for packaging design and evaluation.

Independent Study in Packaging
990
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 Ph.D. students in the School of Packaging. Approval of department; application required.
Special investigations of unique packaging problems.

Packaging Seminar
992
Fall. 1(2-0) A student may earn a maximum of 3 credits in all enrollments for this course. R: Open only to graduate students in packaging.
Presentations of detailed studies on specialized aspects of packaging.

Doctoral Dissertation Research
999
Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 50 credits in all enrollments for this course. R: Open only to Doctoral students in packaging.
Doctoral dissertation research.