Managerial Economics

**MECO 6303 (SYSM 6319)** Business Economics (3 semester credit hours) Foundations of the economic analysis of business problems, with special emphasis on the operation of markets and the macroeconomy. Prerequisite: **OPRE 6303** or equivalent. (3-0) S

**MECO 6311** Economics of Information Goods (3 semester credit hours) Analysis of the creation, production, pricing and distribution of products that are mainly informational in nature such as software, television, and web pages. Network effects, path dependence, the choice of standards, and the problems of public goods will be analyzed. Includes examination of the roles of patent and copyright laws in the creation of these goods and the impacts of unauthorized copying. Several case studies will be examined in detail. Prerequisite: (**MECO 6303** or **SYSM 6319**) or instructor consent required. (3-0) T

**MECO 6312** Applied Econometrics and Time Series Analysis (3 semester credit hours) A survey of techniques used in analyzing cross-sectional, time series and panel data with special emphasis on time series methods. Prerequisite: (**OPRE 6301** or **SYSM 6303**) or **FIN 6306** or instructor consent required. (3-0) T

**MECO 6313** The Business of Entertainment (3 semester credit hours) This course examines the economic factors at work in the entertainment industry. The revenue generation models used by the producers of motion pictures, programming for television, radio, and cable TV, as well as videogames and book publishing will be studied in detail. The impact of digitization on costs, the role of copying and copyright, network effects, peer-to-peer file sharing, the labyrinth of property rights, and digital rights management will be examined through the lens of economics. (3-0) T

**MECO 6315** Approaches to Statistical Inference (3 semester credit hours) Theory and methods of statistical inference. Classical estimation theory, classical hypothesis testing, Bayesian and alternative approaches to statistical inference, general linear model with applications, and computational methods. Prerequisite: **OPRE 7310**. (3-0) Y

**MECO 6318** Energy Economics (3 semester credit hours) This course provides students with a comprehensive understanding of energy fundamentals through a detailed examination of the history, structure and functioning of modern energy markets. Topics include models of supply, demand, and transportation; market structure; game theoretic strategies and risk management; environmental issues; and policy and regulation. Prerequisite: **MECO 6303** or **SYSM 6319**. (3-0) R

**MECO 6320** Econometrics (3 semester credit hours) Estimation and testing of multivariate econometric models; sets of regression relationships; simultaneous equation systems; applications of methods and models in the analysis of business and economic data. (3-0) Y

**MECO 6345** Advanced Managerial Economics (3 semester credit hours) Advanced economic analysis of consumer theory, production theory, exchange, and market interactions. Managerial topics such as comparable worth, product standardization, environmental spillover effects, and imperfect competition. Prerequisites: **MECO 6303** or **SYSM 6319** and instructor consent required. (3-0) T

**MECO 6350** Game Theory (3 semester credit hours) This course introduces game theory, a set of analytical
tools used to study the strategic interactions of individuals and institutions. The course covers static and
dynamic games, both under complete and incomplete information. Applications include cooperation, price
setting under imperfect competition, trust and reputation building, bargaining, auctions, signaling, social
preferences and matching markets. (3-0) Y

**MECO 6352** (HMGT 6324 and OB 6332 and OPRE 6396 and SYSM 6313) Financial Negotiation and Dispute
Resolution (3 semester credit hours) This course explores the theories, processes, and practical techniques
of negotiation so that students can successfully negotiate and resolve disputes in a variety of situations
including interpersonal, group, and international settings. Emphasis is placed on understanding influence
and conflict resolution strategies; identifying interests, issues, and positions of the parties involved;
analyzing co-negotiators, their negotiation styles, and the negotiation situations; and managing the
dynamics associated with most negotiations. Practical skills are developed through the use of simulations
and exercises. (3-0) Y

**MECO 6355** Experimental Management Sciences (3 semester credit hours) This course focuses on the
design, conduct, and analysis of economic experiments with particular relevance to management sciences.
(3-0) R

**MECO 6360** Topics in Industrial Organization (3 semester credit hours) Issues in current research on the
operation of firms and markets. May be repeated for credit as topics vary. Instructor consent required.
(3-0) T

**MECO 6V99** Special Topics in Managerial Economics (1-4 semester credit hours) May be lecture, readings,
or individualized study. May be repeated for credit as topics vary. Instructor consent required. (3-0) S

**MECO 7311** Advanced Game Theory (3 semester credit hours) This course covers the Nash-equilibrium
based solution concepts in Nash and Bayesian-Nash games, including sub-game perfection, forward and
backward induction, trembling hand perfection, sequential equilibrium, and the intuitive criterion with
applications to discrete and continuous action games. Prerequisites: **MECO 6345** or equivalent and **MECO
6350** or equivalent and instructor consent required. (3-0) Y

**MECO 7320** Advanced Econometrics (3 semester credit hours) Rigorous treatment of traditional
econometrics methods, and introduction to both modern time-series econometrics and advanced non-
linear models. Prerequisite: **MECO 6320**. (3-0) T

**MECO 7360** Topics in Econometrics (3 semester credit hours) Issues in current econometric research and
practice. May be repeated for credit as topics vary. Instructor consent required. (3-0) T