ERASMUS+ Programme

COURSES OFFERED IN ENGLISH
Academic Year 2017-2018

Fall Semester (from 02.10.2016 till 09.02.2017)

Spring Semester (from 12.02.2017 till 29.06.2017)

1. All Erasmus incoming students are kindly requested to take into consideration that the above mentioned dates MUST be respected (ERASMUS STUDENT CHARTER: Erasmus students should comply with internal regulations of the host institution). As a result they should not reserve their return tickets for earlier dates.

2. All Erasmus incoming students are entitled to a 2-week period after their registration in order to make the modifications of courses they wish and finalize their learning agreement.

3. Attendance at each course is compulsory, after submission of the final Learning Agreement. Three justified absences from each course are accepted. The same applies for the Modern Greek Language course, which is offered free of charge at each semester.
FALL SEMESTER

1. The Changing European Monetary Union, George Zanias
6 ECTS credits

Course Content
An introduction to the economics of a monetary union (optimum currency areas, benefits and costs of a common currency).
The economics of the European Monetary Union (EMU): EMU institutions and policies.
The recent international financial crisis and the European fiscal/banking crisis.
Responses to the crisis and enhancement of the EMU structure (new economic governance rules, Banking Union, plan to complete the EMU).

Level
Intermediate level, appropriate mainly for third year students of economics or related subjects.

Course Objective
The purpose of this course is to understand the initial weaknesses of the EMU and the changes recently introduced to deal with these weaknesses that were revealed during the recent crisis.

Textbooks/material
Economics of Monetary Union by Paul De Grauwe and recent material from the EU/ECB internet site.

Recommended Prerequisite Knowledge
Intermediate-level knowledge of International Economics such as presented in Robert Feenstra and Alan Taylor, 2008, International Economics, Worth

Recommended Books on Globalization
Dani Rodrik, 1997, Has Globalization Gone too Far?, Peterson Institute
Jeffry Frieden, 2006, Global Capitalism: Its Fall and Rise in the 20th Century, Norton

Additional reading of (mainly) journal articles will be provided after the first lecture.

Course Evaluation
The overall evaluation in this course is based on the following items:
1. Comprehensive Final Exam (50% of the final grade) covering all the units and topics presented in the lectures.
2. Students will have to work on a project (approximately 5000 words), to do in-class presentation (30 minutes), and to deliver the essay to their discussant a week prior to their presentation (35% of the final grade).

3. Students will have to write a comment on another student’s project (maximum 1000 words) and to present it in class (15% of the final grade).

2. International Economics, Thomas Moutos, P. Hatzipanayiotou
6 ECTS credits, Intermediate Level

Communication with Lecturer
E-mail: tmoutos@aueb.gr

Course Description
☐ International Trade: Theory and Policy
Presentation of the current theoretical and policy developments in the literature of International Trade: Absolute and comparative advantage in international trade; International trade and income distribution; Factor endowments and international trade; International trade and international factor movements; International trade in imperfectly competitive markets; Instruments and the political economy of international trade policy; Preferential trading agreements and the theory of economic integration.

☐ International Monetary Relations: Theory and Policy
Presentation of the current theoretical and policy developments in the literature of International Monetary Relations: Exchange Rates and open economy macroeconomics; Exchange rate systems and exchange rate crises, Effectiveness of international macroeconomic policy; International monetary system.

3. Legal Aspects of European Integration, Asterios Pliakos
6 ECTS credits, Advanced Level

Course Content
☐ The history of European Integration.
☐ The structure of the European Union.
☐ The Constitution of the European Union.
☐ The Community legal order.
☐ The Institutions.
☐ Community Legislation and legal instruments.
☐ Policy–making and administration.
☐ The application of EU law.
☐ The European Judicial System.
☐ The objectives, the means and the principles of the EU.
☐ Fundamental rights.
☐ The freedoms.
☐ The policy regulation mechanisms.
☐ Competition law.
☐ External relations.
4. Economics of EU Competition Policy, Chrysovalanto Milliou
6 ECTS credits, Intermediate Level

Communication with Lecturer
cmilliou@aueb.gr

Course Content
In this course, we will analyze a number of firms’ practices in markets in which firms have significant
market power. The firms’ practices that we will mainly analyze are: mergers & acquisitions, cartels,
abuses of dominant position. Moreover, we will examine the policy measures that are undertaken
in order to control such practices, i.e., competition policy. We will try to understand the reasons
that firms follow these practices, the implications of these practices on consumers and welfare, as
well as how these practices are treated by the law and the competition policy authorities.

Throughout the course, we will analyze a number of real world examples that took place mainly in
the EU. By the end of the course, the students will be familiar with the main firms’ practices that
reduce competition, the methods of competition policy, and their applications.

Prerequisites
Microeconomics

SPRING SEMESTER

1. Economics of Globalization, Thomas Moutos
6 ECTS credits, Advanced Level (4th year course)

Communication with Lecturer
E-mail: tmoutos@aueb.gr

Course Objective
The purpose of this course is to examine the forces that have shaped the evolution of the world
economy during the last two centuries (with special emphasis on developments after World War II),
and to study the consequences for national and individual welfare of the increased pace of
worldwide economic integration.

Course Content
1. A Brief Historical Overview of the World Economy
2. International Trade in Goods
   (a) Effects on National Welfare
   (b) Distributional Implications
3. The Effects of Preferential Liberalization
4. Economic Integration, Labour Markets and Migration
5. Outsourcing
6. Capital Movements and Exchange Rate Regimes
   (a) Fixed Exchange Rates
   (b) Flexible Exchange Rates
   (c) Monetary Unions

DEPARTMENT OF ECONOMICS

FALL SEMESTER

1. Labour Economics, Natassa Miaouli (E. Hatziharitou)
   6 ECTS credits, Intermediate Level (3rd year course)

   Communication with Lecturer
   ehatzi@aueb.gr

   Course Content
   The role of the resource of labor in the productive procedure. The importance of Labour Economics and its relation with the other social sciences. The economic and institutional factors of the labor market. The analysis of labor market at local, regional, national, European and international level. The main determinants of the size of the labor force and its quality. The investment in human capital. Static and dynamic analysis of the individual and total labor supply. The elasticity of labor supply. Labor force mobility and efficiency. The short – run and long – run demand for labor under competitive or non-competitive conditions in the product market. The elasticity of labor demand. Wage determination and resource allocation under competitive or non-competitive conditions. Labour unions and collective bargaining. The economic impact of unions. The wage structure and labor market discrimination. Employment and unemployment: a brief reference of what is happening in the European Union countries. Unemployment data sources, its measurement and its comparability between the European Union countries. How the various countries confront the social problem of unemployment.

2. Theory and Practice of Economic Integration,
   6 ECTS credits, Advanced Level (4th year course)

   Communication with Lecturer
   ehatzi@aueb.gr

   Course Content
   Part I
   The creation of the unified internal market:
   - Economic Integration and its forms
   - Partial and general equilibrium analysis of the custom duties effects
   - The welfare effects of custom duties quotas and subsidies
The theory of custom union and its effects. A partial and general equilibrium analysis
Fiscal unions and tax harmonization

Part II
The structural policy of the European Union, its instruments and its targets:
- European Social Fund and European Social Policy
- European Agricultural Fund
- European Fund of Regional Development and Regional Economic Policy
- Cohesion fund
- The Budget of the EU

Part III
Historical Reference of the Monetary Union: From the European Monetary System to the Economic and Monetary Union and the Common Currency, EURO:
- The system of the ECU
- The Single Act
- The Criteria of Maastricht
- The Three Stages of the Monetary Union
- The Euro: The Mechanism of the Unique Money

Part IV
The Theory of Monetary Integration
- The theory of “Optimum Currency Areas” and its criticism
- The benefits of a common currency
- The comparison between costs and benefits
- The European Monetary System and its imperfections

Part V
The Implementation of the Central Banks European System:
- The European System of Central Banks
- The European Central Bank
- The Policy of the European Central Bank

Note: All the Erasmus students have the opportunity to write an essay under the supervision of their professor.

3. Principles of Sociology,

6 ECTS credits, Introductory level, (2nd year course)

Course Objectives
The course aims to introduce students to the science of Sociology and, specifically, to acquaint them with basic concepts, analytical tools and research methods. The presentation of classic and
modern sociological theories and perspectives, fundamental sociological concepts (social structure, action, organization, social reproduction/transformation, social facts, social interaction, culture, stratification and social class, social inequalities etc.), and of quantitative and qualitative research methods purports to equip students with the proper knowledge and analytical skills that will enable them to approach, analyze, understand and interpret critically the social, cultural, economic, political processes and dimensions of our contemporary –complex, globalized, and rapidly changing– social world(s).

**Course Contents**

Session 1. Introduction to Sociology  
Session 2. Founders of Sociology: The development of French, German, British and Italian Sociology  
Session 3. Modern Sociological Theories: Functionalism, Conflict Theory, Symbolic Interactionism  
Session 4. Sociological Research Methods: Quantitative and qualitative research methods  
Session 5. Culture, Social Structure and Socialization  
Session 6. Stratification, Social Class and Inequalities  
Session 7. Gender, Race and Ethnicity: Social discrimination, exclusion and inequalities  
Session 8. Political Sociology: Forms of Government and Social Movements  
Session 9. Sociology of Work: The social organization of work and the experience of employment and unemployment  
Session 10. Media, Popular Culture and Consumption  
Session 11. Urban Sociology: Forms of urbanization in contemporary social world  
Session 12. Sociology in a globalized world: Social, Cultural, Political, Ecological, Labour Changes  
Session 13. Oral presentations of group assignments.

**Mode of Delivery**  
Face-to-face teaching, class discussion, group student work and oral presentations of assignments

**Textbook and Reading**

*Main textbook:*  

*Recommended books for further reading:*  

* Course participants will be informed about additional-recommended reading in every session.

**Planned learning activities and teaching methods**  
Regular three-hour Lectures per week/ Internet-based communication with students. At every lecture we will present and discuss main subject matters of Sociology, as it's referred in Course Content. We will follow largely A. Giddens' book, but we will also draw material from additional resources, in order to accomplish a more comprehensive presentation of sociological subject-areas. Students will have to join in groups of 3 or 5 individuals and to conduct a research on the same topic that will be announced to them in the first meeting. The joining of students from different countries will provide an interesting and important ground for comparative sociological research work. At the last lecture,
student research teams will have to present orally their assignments. This presentation will offer the possibility for critical sociological discussion and will testify students acquired analytical skills.

**Assessment methods and criteria**
Final written exam (80%)
Written assignment and Oral presentation of assignment (20%)

4. **Industrial Organization,**
6 ECTS credits, Level: (3rd year course)

**Learning Outcomes**
After successful completion of this course the students must have understood the historical evolution of the Theory of Industrial Organisation and must have learned the basic concepts and definitions of the subject as well as its relation to other fields of economic science. They must have also learned the theories concerning the horizontal and vertical limits to the size of the firms, to analyze in depth monopolies, strategies of price discrimination, as well as strategies of tying and bundling. They must be able to analyze oligopolistic interaction by using the tools of Oligopoly Theory: Cournot, Bertrand and von Stackelberg models and must have learned to relate measures of market concentration and market performance. They must be able to understand and distinguish between different notions of product differentiation and to examine oligopolistic competition under product differentiation. They must also be able to understand and analyze models of entry of firms and of barriers to entry, models of tacit collusion and the theory of market failures and micro-economic policy. Finally, they must be able to measure the social welfare losses due to monopoly power and the basic principles of regulation and competition policy.

**Mode of delivery**
Face-to face

**Prerequisites (recommended)**
Micro-economic theory

**Course contents**
- Introduction, basic concepts and relation of Industrial Organisation to other fields of economics.
- A simple model of industrial organisation: social optimum, perfect competition and monopoly compared. Reasons for market failure. Welfare losses of monopoly power.
- The theory of the firm. Horizontal and vertical limits to the size of the firm. Vertical integration: motives for, and monopoly power.
- Price discrimination of first, second and third degrees. Tying and bundling.
- Dynamic oligopoly theory: tacit collusion models.
- Theory of entry deterrence: type and measurement of entry barriers and models of entry deterrence.
  Contestability theory and sunk costs. Endogenous vs. exogenous entry costs.
- Introduction to competition policy and regulation.

**Recommended or required reading**

**Planned learning activities and teaching methods**
Students are given periodically sets of exercises and they have to prepare answers. The exercises are discussed in tutorials. Marks of course work does not count towards the final mark.

**Assessment methods and criteria**
By written examination at the end of the semester

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**SPRING SEMESTER**

1. **Business Economics**, Helen Louri

6 ECTS credits, Intermediate Level (3rd year course)

**General Information**

**Professor:** Helen Louri

**Course Meetings:** Friday 15:00-18:00 in Room D4, 4th floor, Derigny building.

**Office:** Derigny Building, 4th-floor, office hours Friday 13-15:00.

**Email Contacts:** elouri@aueb.gr

**Web Site:** Look at the website of this course on e-class: [http://eclass.aueb.gr](http://eclass.aueb.gr)

**Course Description**
Managerial (or Business) Economics is the application of economic theory to decisions made by firms. Our focus is on four topics. We start with demand theory and consumer behaviour, studying how consumers and other firms respond to price changes and thus how to decide what price to charge. We then move to production and cost theory, where we think about the most basic decisions of firms: how much to produce and what inputs to use (optimal boundaries). We then analyze pricing strategies under different market structures and the strategic world of managers (market and competitive analysis). Then we look at how firms choose (and maintain) their competitive advantage. Lastly, we look inside the firm, on how firms are organized and the way they evaluate and reward performance (optimal internal structure). Managerial economics provides a comprehensive application of economic theory and methodology to managerial decision making.
Course Objectives

The learning objectives of the course:

- To enable students to develop the skills and to provide the opportunity to practice the study of Managerial Economics.
- To develop a critical understanding of methods, procedures and current issues and debates appropriate to the study of Managerial Economics.

By the end of the course the students should:

- have gained a knowledge and understanding of the themes, issues and debates within the study of Managerial Economics
- be able to think critically and independently about what they have seen and read
- have been introduced to the range of skills and critical vocabularies needed to facilitate the study of Managerial Economics
- gained a critical understanding of the application of the methods involved in the study of Managerial Economics

Textbooks and Reading

The main textbook of the course is:


Course participants will be given a package of additional reading in some sessions. For those interested in further reading the following books are recommended:


Course Outline

i. Introduction; Theory of the Firm
ii. Does Management matter?
iii. Basics of Demand and Supply & consumer behaviour
iv. Individual and Market Demand; Estimating Demand
v. Production and Cost Theory
vi. Profit maximization and competitive supply-optimal boundaries  

vii. Market power and pricing  

viii. Business strategy and game theory  

ix. Markets with Asymmetric Information  

x. Strategic position and dynamics  

xi. Internal organization  

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### 2. Theory and Practice of Economic Integration,  
6 ECTS credits, Advanced Level (4th year course)  

**E-mail Contact:** ehatzi@aueb.gr  

**Course Content**  

**Part I**  

The creation of the unified internal market:  

- Economic Integration and its forms  
- Partial and general equilibrium analysis of the custom duties effects  
- The welfare effects of custom duties quotas and subsidies  
- The theory of custom union and its effects. A partial and general equilibrium analysis  
- Fiscal unions and tax harmonization  

**Part II**  

The structural policy of the European Union, its instruments and its targets:  

- European Social Fund and European Social Policy  
- European Agricultural Fund  
- European Fund of Regional Development and Regional Economic Policy  
- Cohesion fund  
- The Budget of the EU  

**Part III**  

Historical Reference of the Monetary Union: From the European Monetary System to the Economic and Monetary Union and the Common Currency, EURO:  

- The system of the ECU  
- The Single Act  
- The Criteria of Maastricht  
- The Three Stages of the Monetary Union  
- The Euro: The Mechanism of the Unique Money  

**Part IV**  

The Theory of Monetary Integration  

- The theory of “Optimum Currency Areas” and its criticism  
- The benefits of a common currency
3. Money and Banking,
6 ECTS credits, level: 3rd year course

Learning Outcomes
The course aims to introduce students in the field of Monetary Theory, producing them with knowledge and skills concerning the Role of Money, the Monetary System and the Banking System.

Mode of Delivery
Face-to-face.

Prerequisites and co-requisites
Not applicable.

Recommended Optional Programme Components
Microeconomic Theory I, Macroeconomic Theory I.

Course contents (should contain topics in:)

Recommended or required reading


Planned learning activities and teaching methods
2 Regular two-hour Lectures per week/ Internet-based communication with students.

**Assessment methods and criteria**

Final written exam.

**Work placement(s)**

Not applicable.

### 4. Public Economics

**Professor Tryphon Kollintzas**

Office : 4th Floor, Derigny Wing, Main Building

Postal address : Patission 76

104 34 Athens

Tel. : +30-2108203340

Fax : +30-2108203301

Email: kollintzas@hol.gr

Teaching hours : TBA

Office hours : TBA

**Course Description**

This is the basic intermediate level course in public economics. Public economics or public finance studies the role of government in the economy. In particular, public economics seeks answers to the following four questions:

(a) When should the government intervene in the economy?
(b) How might the government intervene in the economy?
(c) What are the effects of government interventions on economic outcomes?
(d) Why governments choose to intervene in the way they do?

Too abstract? Not really, because another way economists highlight the usefulness of a course like this is by claiming that “it helps you understand the public finance issues discussed in the front page of newspapers everyday.” For, police protection, national security, immigration policy, health care, all levels of education, environment protection, social insurance, social security, unemployment insurance, disability insurance, welfare programs, mobile phone and tv licenses, internet regulation and all kinds of income, property and consumption taxes are all subject matters of public economics.

The analysis of public economics has two forms: positive analysis that examines what actually happens, as with the answers to questions (c) and (d), above; and normative analysis that examines
what should have happened, as with the answers to questions (a) and (b), above. In so doing, both theory and empirical observation is used interactively in the study of the underlying problems and conclusions.

Teaching Method

A series of lectures, typically, twice a week, is the basic teaching method. Some exercises will be handed out in class, but, they will not be graded.

Evaluation Method

There will be a one-hour midterm and a two-hour final examination, based on the exercises handed out in class. The midterm and the final contribute 1/3 and 2/3 of the course grade, respectively.

Curriculum

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<th>Subject</th>
<th>Readings</th>
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<td>Reasons for State Intervention</td>
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<td>Midterm Exam – Local Public Goods</td>
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| 8  | Cost Benefit Analysis | Gruber Ch. 8  
|    |                      | (Rosen Ch. 12)  
| 9  | Political Economy and Democracy | Gruber, Chs 9.1-9.3  
|    |                      | (Rosen Ch. 7)  
| 10 | Public Choice and Government Failure  
|    | Difficulties of Reform  
|    | Implementation | Gruber, Ch. 9.4 and Notes  
| 11 | Social Insurance and Social Security | Gruber, Chs 12 and 13  
| 12 | Taxation and Efficiency | Gruber, Chs 18 and 20  
|    |                      | (Rosen Ch. 14 and 15)  
| 13 | Taxation and Equity | Gruber, Ch. 19  
|    |                      | (Rosen Ch. 13)  
|    | Final Exam  

In addition, students should read Gruber, Ch. 3 on their own.

Readings in parentheses (.) are optional.

Books:


Prerequisites:

This is an intermediate level, undergraduate course. A prerequisite for this course is knowledge of basic microeconomics, macroeconomics, and statistics.
1. Modern Enterprise Information Systems, George Ioannou
6 ECTS credits, Advanced Level

Communication with Lecturer
ioannou@aueb.gr

INSTRUCTOR

George Ioannou, Professor of Production and Operations Management
Office: 47A Evelpidon Str. & 33 Lefkados Str., 9th floor, 912
Office Phone: 2108203652
Office Hours: Thursday 09:00 to 11:00 am
E-mail: ioannou@aueb.gr
Web: www.msl.aueb.gr/people.html
Class Room: 80 Patision Str., 3rd floor, DMST laboratory
Class Hours: Wednesday 18:00 – 21:00

COURSE DESCRIPTION

Modern Enterprise Information Systems include all the transactional level platforms and integrated software applications that enable the capturing of company data within data bases in a structured and efficient way. The most typical such system is the ERP, which incorporates functionalities that cover all business tasks, from the procurement of materials to the collection of payments from customers, and from the issue of a production order to the delivery of consolidated shipments to the customers’ warehouse, all within a single and totally integrated system. The specific course will address ERP in its whole, i.e., will cover all applications areas in enterprises of today and will also provide additional knowledge about systems that go beyond and complement ERP’s transactions such as CRM, WMS, etc. Practical sessions on widely used ERP systems will be offered on top on theoretical and applied-knowledge lectures. Lab exercises, case studies and assignments will be the basis of grading in this course.

COURSE OBJECTIVES

Students will:
Analyze a business’ enterprise activities, workflow and process to identify problems, weaknesses, strengths, threats, opportunities, stakeholders and entities interacting with the enterprise; Propose reengineered enterprise processes that optimize the enterprise’s performance; Design integrated organizational structures and business processes that optimize the enterprise’s performance, overcome problems and weaknesses of current processes; Understand the scope of ERP systems and corporate motivation for implementing ERP; Appreciate the challenge associated with implementing such large-scale systems and the dramatic impact these systems have on key business processes; Gain an understanding of process integration inherent in ERP; Solve optimization models for production planning and models for operations management; Gain an appreciation of related concepts, technologies, and trends in ERP including forward, backward, and upward integration of the enterprise using supply chain management and customer relationship management; Experience the Microsoft Office Excel, Microsoft Office Visio, Expert Choice and Microsoft Dynamics NAV software.

**COURSE TOPICS**

The course will cover the following topics:

Supply Chain Management Overview
Enterprise Resource Planning (ERP) Systems Overview
Optimization Models for Production Planning (Microsoft Office Excel)
Models for Operations Management (Microsoft Office Excel)
Business Process Reengineering (BPR) using Microsoft Office Visio
Multi-criteria Decision Making (The Analytic Hierarchy Process, AHP) using Expert Choice
Microsoft Dynamics NAV – An ERP System

**COURSE METHODOLOGY**

The goal of this course is to develop analytical and critical thinking skills for the development of integrative plans for enterprise-wide systems that optimize enterprise performance. Most class sessions will involve lecture and extensive discussion of ERP based on content contained in the textbooks, readings and cases. Students will be expected to make substantial contributions to the learning process through participation in class discussion. In addition, they will be responsible for several individual assignments.

To pass this course students should:

Prepare: Spend as much time needed to study the assigned topics before coming to class;
Practice: Review and practice the lab exercises at their own pace;
Present: complete the homework assignments, come to class, and deliver their work to the instructor.
COURSE PLATFORM

Students will find course lectures, assignments, useful links etc. at the following links:
E-learning portal: https://edu.dmst.aueb.gr/

COURSE MATERIAL


Presentations (Lectures)

REQUIRED SOFTWARE

Microsoft Office Excel (to solve optimization models for production planning and operations management)
Microsoft Office Visio (business process reengineering)
Expert Choice (multi-criteria decision making - AHP)
Microsoft Dynamics NAV (ERP System)

ASSIGNMENTS

The assignments are designed to familiarize students with the major challenges involved in specifying, selecting and implementing ERP. Assignments include lab exercises and cases studies related to optimization models for production planning, models for operations management, business process reengineering methodology, analytic hierarchy process and Microsoft Dynamics NAV. Students will be responsible for individual assignments.

All assignments should be submitted by e-mail to pzlappas@aueb.gr.

STUDENT RESPONSIBILITIES

This class requires a consistent and substantial week to week commitment on the part of the student. Students are expected to complete reading assignments prior to class and to participate actively in class discussion. Assignments should be emailed on the specified due date. Late work will receive no credit.
Class participation is measured by student's active involvement in discussion of the lab exercises and cases.

ACADEMIC INTEGRITY POLICY

In accordance with The Athens University of Economics and Business' Academic Regulations, cheating in any form will not be tolerated. This includes plagiarism or receiving inappropriate assistance on examination and/or assignments. Cheating is an extremely serious academic offence.
## TENTATIVE SCHEDULE

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<td>Methodological Approach for choosing and Integrating ERPs</td>
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<td>Manufacturing Resource Planning (MRP II)</td>
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<td>How Can Industry Benefit from MRP?</td>
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<td>Technology Platforms for ERP Systems</td>
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<td>Multi-criteria Decision Making</td>
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<td>Decision Making using Expert Choice</td>
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<td>Lab Exercises</td>
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2. Managerial Decision Making, Manolis Kritikos
6 ECTS credits, Advanced Level

Communication with Lecturer
kmn@aueb.gr

Course Outline
This course outline describes the course Managerial Decision Making. It has been organized into the following sections:
1. Basic Information about the Course
2. Aim of the course
3. Planned learning activities and teaching methods
4. Learning Outcomes
5. Reading List
6. Syllabus
7. Course Assessment.

Basic Information about the Course
Prerequisites: None
Teaching Methods: The class meets once a week
Consultation Time/Tutorials: Wednesday 14.00-17.00

Course Objectives
The course introduces the student to the methodology of decision making, as well as to the major models used today. Decision making is one of the most important functions of management. The three major categories of models are covered: Linear and Integer Programming, Decision Analysis, and Simulation. In each unit, the student is exposed to a number of applications, and has the opportunity to apply his/her knowledge to a number of problems such as Transportation, Assignment and Network models. In addition to developing models, the student is exposed to a number of computer packages, most of them based on Excel, to use in order to solve the problems.

Planned Learning Activities and Teaching Methods
We cover the course material in lectures. Attending lectures is compulsory. This is the best way of being introduced to a topic. Self-study is a vital and significant part of studying for the course.

Learning Outcomes
Decision-Making is one of the most important functions of management. Today's business environment is characterized by high competition, constant changes, extensive globalization, large availability of data and information, and the huge penetration of information and telecommunications technology. In this environment, decision making is increasingly based on the use and analysis of data, through the development of “models”, and the use of user-friendly, PC-based computer packages.

On completion of this course, students should be able to: to understand and formulate decision making problems, and to use the computer technology efficiently in order to make the best decision.
**Reading List**

Required Textbook

Recommended Reading
N. Balakrishnan, B. Render, and R.M. Stair, Jr. (2013), Managerial Decision Modeling with Spreadsheets, Pearson Education Inc.

**Syllabus**

Managerial Decision Making

**Overview**

The Fundamentals of Operations Research: Introduction to management Science; The methodology of Decision Making; Models in Managerial Decision Making
Linear Programming (LP): Introduction; Characteristics of LP Problems; Graphical solution of a LP problems; A Maximization Problem; a Minimization Problems; Problems General Formulation and Assumptions of LP problems
Sensitivity analysis in Linear Programming: Dual Prices in LP; Reduced costs in LP; Changes in the Objective Function’s Coefficients; Changes in the Right Hand Sides (RHS) of the Constraints; Evaluation of a New Activity
Using Solver to Solve Linear Programming Problems: Introducing the model in Excel; Solving the Problem; Understanding and Analyzing the Solution – SOLVER Reports.
Integer Programming (IP): Introduction; Formulating IP Problems with Binary Variables; Formulating IP Problems; Solving IP problems; Solving Integer Programming Problems with SOLVER.
Implementing Management Science in Practice: Marketing and Sales problems; Production and Inventory problems; Networks and Transportation problems; Logistics and Supply Chain problems; Investments problems; Human Resources problems.
Decision Analysis and Precision Tree: Introduction; Criteria for Making Decision under Uncertainty; The Expected Value of Perfect Information; Decision Tree; Calculating the Risk Profile a Strategy; Sensitivity Analysis; Using Precision Tree to Solve Decision Analysis Problems.
Simulation: Introduction; Implementation of Simulation under Conditions of Uncertainty
Using Excel and @Risk in Simulation: Introduction; Simulation of Queuing Systems; Simulation of an Inventory System; Analysis of Simulation Results.

**Course Assessment**

The following notes offer guidance on how you will be assessed for the course. The final grade will be based on homework, classroom participation, an individual essay, case studies and a final exam. The breakdown of the final grade will be approximately as follows:

- 20% homework and classroom participation
- 30% individual essay and group case studies
- 50% final written exam
3. Management of Information Systems
Angeliki Poulymenakou
6 ECTS credits, Advanced level

Communication with Lecturer
akp@aueb.gr

Course Objectives (expected learning outcomes and competences to be acquired)
This course aims to introduce to the student the essential dimensions related to the management of Information technology and Systems in modern organisations. Related topics include the pervasive role of ICTS in the economy and in organisations, IS planning and strategy, Types of IS used currently in organisations, E-business, E-commerce, Knowledge Management and e-learning, approaches for developing Information Systems, Outsourcing, the organisation and the business roles of the IS function, IS evaluation and the economics of ICT.

Prerequisites
No prerequisite. Student should, however, be familiar with the fundamentals of IT, and understand databases and software development methods at a basic level.

Course Content
The course largely follows the chapter structure of the book provided as essential reading (Turban et al).

Recommended Reading Material

Teaching Methods
Lectures, tutorials, case study workshops.

Methods of Assessment
Individual project, class assignments.

4. Innovation in Organizations: Knowledge, Creativity and the Processes of Innovation,
Eric Soderquist
6 ECTS credits, Advanced level

Communication with the Lecturer
soderq@aueb.gr

Learning Outcomes
Today, all kinds of organizations and businesses must have the ability of constantly innovating and turning environmental uncertainty into exploitable advantages. In this context, demands for creative thinking, and better use of organizational knowledge for enhanced innovation performance and innovation output are raised on employees at all levels. This course provides an introductory overview of innovation, innovation processes and innovation management, placing particular emphasis on the underlying phenomena of knowledge and creativity. The objective is to
improve the students' understanding the nature and dynamics of organizational knowledge, the prerequisites and processes of organizational creativity, and how knowledge and creativity relate to innovation. Innovation in itself will also be analyzed. Various forms of innovation that can be pursued by organizations will be explained, and the students will develop frameworks for analyzing how different organizational structures, processes and management methods can be used for implementing and managing innovation. The course aims at opening up the black box of innovation and equipping the students with concepts and frameworks that will help them to apprehend and better manage innovation.

Mode of delivery (face-to-face, distance learning)

Face-to face teaching, individual student work and student presentations.

Prerequisites and co-requisites

Introductory courses in Management and/or Business Strategy and/or Organizational Behaviour are recommended.

Recommended optional programme components

Independent research and use of bibliographical sources to synthesize material and analyze specific topics related to innovation.

Course Contents

INTRODUCTION TO THE COURSE (SESSION 1)
• Structure and Requirements
• Overview of the three subject topics – Innovation, Creativity and Knowledge

INNOVATION (SESSIONS 2-4)
• Forms of innovation, overview of determinants for innovation,
• Drivers for innovation – the dynamics of technological change,
• Innovation management frameworks, the new product and service development process, bringing innovation to the market,
• Modes and types of innovation co-development: Open Innovation,
• Ten Types of Innovation.

INTERMEDIARY PRESENTATIONS (SESSION 5)

CREATIVITY (SESSIONS 5-7):
• Overview of creativity as a concept – nature, core elements and factors enhancing / blocking creativity,
• Developing the creative potential of human resources – tools for directed creativity,
• Strategic management frameworks and their relation to creativity and innovation,
• Establishing “creativity channels” through cooperating with end users, customers, academics and scientists.
• The Egg Game – Creativity and team-building game.

KNOWLEDGE (SESSIONS 8-10)
• The language of knowledge,
• Forms of organizational knowledge,
• New knowledge creation processes: The role of absorbing and exploiting external knowledge for innovation,

FINAL PRESENTATIONS (SESSIONS 11-12)
**Recommended or Required Reading**

Textbooks:
Textbooks are recommended only for the part on innovation management. One of the following textbooks is a useful background reading for the entire course:


Additional useful books are (including one on Knowledge and one on Creativity):


Articles

In the following, articles are listed for each of the three different parts of the course. Two articles in each part are compulsory readings for all students. These articles are listed first and marked with *. Another three or four articles are listed per part, as an indication of important readings depending on the subject of the dissertation selected by the students. In addition, a separate reading list will be provided.

**INNOVATION**


**CREATIVITY**


KNOWLEDGE


Planned Learning Activities and Teaching Methods
Nine lectures and three presentation sessions. Lectures, reading assignments, exercises, games, individual student work and student presentations.

Assessment Methods and Criteria
80% of the grade is based on an individual (or pair) dissertation (60% written report, 20% presentation).
20% of the grade is based on reading assignments and individual participation.
It is recommended that the dissertation is done in pairs of two students. Each student must explicitly indicate his/her individual contribution to the whole and the presentation must be shared between the students.
Students will select topic area after the introduction session, and the initial reading of articles (emphasize on Innovation or Creativity or Knowledge). The final dissertation must contain a synthesis of various literatures on the selected subject, and an integration of examples from practice through the study of company/organization cases and company/organization websites. Students are also encouraged to enrich their dissertation with first-hand empirical data, e.g., from interviews with managers or other relevant actors in Greece or in their home country of studies.
A template for the dissertation will be handed out at the beginning of the class. Indicatively, the dissertation should be about 6,500 words (between 6,000 and 7,000 words).

Work placement(s)
N.A.
5. Information Resource Management
Athanasia (Nancy) Pouloudi
6 ECTS Credits
Level: Advanced

Communication with Lecturer
pouloudi@aueb.gr

Course Objective (Expected Learning Outcomes and Competences to be acquired)
This is an advanced course on the management of information systems in organizations. Four main axes define the learning outcomes of the course:

- The strategic role of IT in contemporary business and strategic planning for information resources and systems
- The business role of IT as a tool for supporting and promoting business functions and management and the managerial skills associated with this role
- The fundamental role of IT in developing and supporting new business models
- The functional structure (department/services) of IT in contemporary business, its human resources and management
- Broader socio-economic aspects related to the use of IT in contemporary business

In this course, students are introduced to the basic themes and activities of the information systems manager in a business organization.

Prerequisites
No prerequisite

Course Contents
No prerequisite

Recommended Reading
A series of articles/case studies will be provided in class

Teaching Methods
Lectures and Seminars. In the course of the seminars case studies will be analyzed and presented by student groups.

Assessment Methods
Written exams and presentation of case studies in the course of the seminars

SPRING SEMESTER

1. Production and Operations Management, George Ioannou
6 ECTS credits, Advanced level

Communication with Lecturer
ioannou@aueb.gr
Learning Outcomes
The aim of the course is to introduce the student to the design, analysis, reengineering, optimisation and functional control of Manufacturing and Service operations, and to highlight the need for effective management of the constrained resources of operations systems. Through the course, the student will understand the organizational structure and the various components and functions of a Production or Service Operations System. They will practice basic analysis and problem-solving methods that are used by all kinds of organizations to understand and optimize operations.

The topics of the course cover the major business processes inherent in the operation systems, starting from operations strategy – showing the bigger picture of operations in a transforming global economy. Then the course delves into product, service and process design, forecasting, facility location and layout, procurement and inventory management, operations scheduling, and, finally, quality control. In summary, the course provides: a) an introductory overview of the major areas of operations management, b) an understanding of the practical and theoretical problems encountered in operations, and, c) practice of tools and techniques for effective operations management emphasizing both qualitative reflection and quantitative methods.

Mode of delivery (face-to-face, distance learning)
Face-to face teaching, individual work on cases and exercises.

Prerequisites and co-requisites
Fundamentals in quantitative methods. Fundamentals in management.

Recommended optional programme components
Simulation Game.
Video Tours of operations issues in companies and organizations.

Course contents
The topics included within the scope of Production and Operations Management (POM) are numerous and diverse. The following list provides the areas that will be covered within the course including recommended readings, which are available to the students through the AUEB Library and e-Library.

1. Introduction – Definitions
   - Course content and structure
   - Context and definitions of POM

Readings:

2. Operations Strategy and Lean Production
   - The strategic framework, Illustration and deployment of operations strategies
   - "New" operations strategies – Agile Operations
Readings:

3. Product, Service and Process Design and Development
   - Key concepts in product and service design
   - The product development process and project
   - Classifications of production process structures (product and process). Video
   Readings:

4. Facility Location
   - Factors affecting location decisions
   - Locating a single facility
   Readings:
   o "Location", Chapter 10 in Operations Management, L.J. Krajewski & L.P. Ritzman.
   o Article

5. Facility Layout
   - Layout types and performance
   - Product and process layout designs - models/algorithms
   - Application exercises in class
   Readings:
   o Article

6. Capacity Planning
   - Capacity strategies and tools
   - Basic forecasting methods
   - Application exercises in class
   Readings:
   o Article

7. Forecasting
   - Basic forecasting methods
   - Application exercises in class
   Readings:
8. The Beer Game
• Business game in class where students are practically familiarized with the problems of inventory control and management.
Readings (common to sessions 8-10):

9. Production Planning and Inventory Control I
• Deterministic models: Economic Order Quantity
• Materials Requirements Planning (MRP)
• Application exercises in class

10. Production Planning and Inventory Control II
• Just-In-Time – KANBAN
• Integrated exercise: Determining inventory strategy

11. Production Scheduling
• Operations Scheduling and Monitoring
• Application exercises in class
Readings:
- Article

12. Statistical Quality Control and Total Quality Management – TQM
• Overview and introduction to Quality Management, Fundamental definitions
• Basics of Statistic Process Control (SPC)
• Application exercises in class
Readings:

**Recommended or Required Reading**
Articles according to the above list.
**Planned learning activities and teaching methods**

Lectures, exercises in class, case assignments and readings, video illustrations and Business Game. Cases and readings are discussed in class, case assignments are also handed in written and can be part of formal assessment.

**Assessment methods and criteria**

- Two case studies to accomplish in groups of two students (30% (2*15%) of final grade).
- One individual reading note (10% of final grade).
- Final individual written exam (60% of final grade).

The first case study "Disney" consists of various documents that assess the students’ understanding of fundamental introductory aspects of operations management and operations strategy. Students are asked to reflect on how an entertainment company and especially entertainment parks take into account different operational and strategic changes, and how operations interact with other functions of the enterprise.

The second case study "Fitness Plus Part A" (Krajewski & Ritzman, 2005, p. 272) is a capacity analysis and planning case. Students are faced with the problem of a fitness center that operates a number of training areas all which have different demand and different capacity. Students should calculate capacity of each area as well as total capacity for the center, and suggest how capacity should be balanced and what moves the center should make in view of maximizing utilization and customer satisfaction. The case requires calculation, reflection and use of capacity notions such as peak and effective capacity, capacity cushions and break-even analysis.

The reading note will be accomplished on the basis of one of the suggested articles (above list) selected by each student. Students can also propose a topic of their own choice. A template for the reading note will be distributed separately.

The final exam lasts for three hours and is composed of two parts. The first assesses through short questions and mini-cases the understanding of fundamental operations management concepts such as different operations paradigms (standardized and diversified mass production, lean production), product, service and process development concepts, procurement, location and layout issues, forecasting issues and quality management. The second part is based on problems and assesses the different quantitative aspects of the course focusing on inventory management, capacity planning and statistic process control. The above are indicative areas covered, each exam is tailored to the specific emphasis given in class and adapted to what was examined in the case studies.

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**2. Applied Software Engineering**, Diomidis Spinellis

6 ECTS credits, Advanced level

**Communication with Lecturer**

dds@aueb.gr
Objective of the course (expected learning outcomes and competences to be acquired)
While most Information Systems and Computer Science courses traditionally deal with the
development of new systems, in practice developers spend the largest part of their time in
software life-cycle activities that follow the development phase. The objective of the course is to
allow students to read and understand a system’s software elements (code, structure, architecture).
Having followed this course, students should be able to intelligently decide on how existing
systems will be maintained, setup design and evolution strategies for legacy code, and prescribe
the use of refactoring for dealing with architectural mismatches and low-quality code. An
innovative aspect of the course involves the use of Open Source Software (OSS) in course examples
and exercises. Through the study of OSS students will be able to see how non-trivial applications
like the Apache Web server, the Postgres Relational Database Management System, the Jakarta
Java servlet container and the Cocoon framework are structured.

Prerequisites
Proficiency in programming and software development

Course contents
Course outline: Course Introduction; Code as Part of the Software Development Process; The Open
Source Landscape; Tackling Large Projects; Version Control; Declarative Drawing; Build
Management; Code-Reading Tools; General Purpose Tools; Performance Measurement and
Management; Inspection and Testing; Coding Standards and Conventions; Documentation;
Maintainability.

Recommended reading

Mode of delivery
Lectures, labwork, and coursework
Assessment methods
Coursework

Language of instruction
Greek & English

DEPARTMENT OF BUSINESS ADMINISTRATION

FALL SEMESTER

1. Advertising and Communication Management,
6 ECTS credits, Advanced Level
Course Objective
The aim of this course is to examine the promotional function and the role of advertising for contemporary companies. The course focuses on the promotional elements in the marketing programs of domestic and foreign companies. Students will be introduced to the concept of integrated marketing communications (IMC) and consider how it evolves. Also, the course examines how various marketing and promotional elements must be coordinated to communicate effectively. Different IMC models are examined in addition with the steps in developing a marketing communication program.

Prerequisites
Two marketing courses, at least an introductory one.

Course Content
- Integrated marketing communication
- Setting communication objectives
- Advertising Planning & Decision Making
- Sales Promotion, Direct marketing & Personal Selling
- Public relations & Corporate Advertising
- Creative strategy
- Media Planning-Strategy & Tactics Media Evaluation
- Advertising Ethics
- Global Advertising
- Advertising and the law

Recommended Reading Material

Teaching Methods
Lectures, Case studies, Video & Multimedia materials

Assessment Methods
70% written assignment, 30% written exams

2. Financial Management
George Kouretas
6 ECTS credits
Level: Intermediate

Course outline
This module examines various items in the area of Corporate Finance. For that reason it is divided into 2 major groups:
- The first group includes the most important methods concerning Investment Appraisal.
- The second group is concerned with Financing Decisions.
Reading Material
The required text for the course is:
- DRYDEN PRESS HARCOURT

Some highly recommended texts are the following:

Components of the Course
The major components of the course are the following:
- Introduction to Investment Appraisal
- Methods and Criteria of Investment Appraisal
- Net Cash Flow Analysis
- Investment Appraisal and Inflation
- Risk Analysis
- Capital Markets
- Bond and Share Valuations
- Cost of Capital
- Capital Structure
- Dividend Policy
- Portfolio Considerations

3. Business Policy and Strategy, Helen Salavou
6 ECTS credits

Communication with Lecturer
e-mail: esalav@aueb.gr
Tel: +30 210 8203 425

Rationale for the Course
This course will provide techniques to effectively manage the process of strategizing. The aim is to help students understand how to build a strategically responsive organization by tuning systems, structures and people to strategy, and how.

Brief Outline
Strategic management deals with the fundamental problems facing top managers:
1. How to analyze the external and internal environment of the company
2. How to direct the company into the future
3. How to make a strategic choice, given a number of alternative strategic options (choices include: in which areas should we diversify, in which products/services should we expand, how we are going to implement this expansion, are we going to acquire, merge, form an alliance with another business)
4. How to build and sustain competitive advantage
5. What type of structure, systems, and people does a company need to successfully implement a chosen strategy?
6. How to strategically respond in the global environment

**Learning Objectives**
As a result of taking this course, the student should be able to:
1. Conduct an environmental analysis of a given organization or industrial sector.
2. Conduct a competitor analysis.
3. Conduct a resources analysis and identify core competencies and the elements of a firm’s competitive advantage.
4. Identify and assess potential strategic choices.
5. Identify and evaluate strategic alternatives for development and select the most appropriate to implement.
6. Apply all the above in a real-world competitive setting.

**Pre-requisite Knowledge**
The knowledge acquired in previous courses attended (e.g. marketing, production management, human resources management, operational and financial management), will provide useful insights in better understanding the strategy course.

**Textbook**

**How Will the Course Evolve**
This is a teaching-reading course. You are going to attend 3-4 lectures (about 10 hours) and respond to 2 written assignments (see Appendix II).

**How You Can Enroll in the Course**
You can send an e-mail (esalav@aueb.gr) stating your full name and that you decided to take this course.

**Evaluation**
Your final grade will depend on the following:
Quality of Written Reports to case studies 60%
Final Examination 40%

Exams will take place in the period between mid January-Mid February. Therefore students wishing to go back to their countries before or shortly after Christmas are advised not to take this course.

Final examination will be an open book based on a short case study and/or questions (i.e., multiple-choice).

**Appendices**
APPENDIX I. THE INSTRUCTOR
Helen Salavou holds a BSc in Business Administration, an MBA and a PhD from the Athens University of Economics and Business (AUEB). She is currently an Assistant Professor at the Department of Business Administration of AUEB and member of the laboratories of ‘business strategy’ and ‘strategy and entrepreneurship’ at the AUEB.

Her main research interests involve innovation, entrepreneurship and small business research. She has published in several international journals including: Journal of Business Research, European Journal of Marketing, European Business Review, Management Decision, European Journal of Innovation Management, Creativity and Innovation Management. She has authored a monograph, co-authored a monograph and published chapters in edited volumes. She has also presented her work in international conferences, such as EMAC (European Marketing Academy) and EIASM (European Institute for Advanced Studies in Management).

She has participated in various research projects both at a national and international level since 1997. She has also taught undergraduate and postgraduate courses, such as management, strategy and entrepreneurship at the AUEB, Agricultural University of Athens and Hellenic Management Association (EEDE). She also possesses consulting experience with public and private organizations in Greece.

Appendix II. Case Assignments
Regarding the case assignments you are required to:

a. Read the material (case study) on your own and understand it.
b. Read the relevant chapters from the book and/or additional material you may wish to find on your own.
c. Link the questions (see below) to the textbook material and produce a short report responding to each of the questions posed (you will receive specific guidelines).

In addition, there are specific deadlines you have to meet (see Table 1).

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<tr>
<th>TABLE 1. INDIVIDUAL ASSIGNMENTS (SEE APPENDIX II)</th>
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<tbody>
<tr>
<td>Case Assignments</td>
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<tr>
<td>2. The New Corporation (2001)</td>
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Important Notes:
All reports will be graded on a 1-10 scale (10 being the perfect mark). Delayed reports will not receive a grade.
Plagiarism is forbidden. Plagiarism is defined as using ‘a piece of writing that has been copied from someone else and is presented as being your own work’. Of course you are allowed to use any sources of data you want, cooperate with students working on the same assignment, however you have to present your arguments in your own words. Plagiarizing assignments will get a zero mark.

1. To what extent is Wal-Mart’s (WM) performance attributable to industry attractiveness and to what extent to competitive advantage?
2. Identify distinctive resources and capabilities in the internal environment of WM.
3. To what extent is WM’s competitive advantage sustainable? Why have other retailers had limited success in imitating WM’s strategy and duplicating its competitive advantage?

Discussion Questions for Case Assignment 2: News Corporation (2001)
1. Please identify the corporate-level strategies TNC implemented throughout the period 1980-2000.
2. Please evaluate how these strategies (see question 1) were associated with the SWOT analysis of TNC.
3. How did TNC corporate-level strategies add value at the business-level?
4. Please propose and evaluate two corporate-level strategies, which should be adopted by TNC for the period 2001-06.

4. Money and Capital Markets, Konstandinos Kassimatis
6 ECTS Credits, Level: Advanced

Course Outline
Analysis of the nature and operations of modern money and capital markets. How the markets work and what instruments are used. The money markets, the bond markets, the equity markets and the derivatives markets are covered.

Evaluation Methods
Final written exam - 100% of overall assessment (late January or early February, according to the official exams time-table of the University).

Reading Material
- Brealey-Myers: Principles of Corporate Finance
- Bodie-Kane-Marcus: Investments (Irwin, 1996)
- Reilly-Brown: Investment Analysis and Portfolio Management (Dryden)
- Fabozzi F.J.: Bond Markets, Analysis and Strategies (Prentice Hall)
- Kolb R.W.: Futures, Options and Swaps (Blackwell, 1999)

5. Engineering Logistics, Paraschos Maniatis
6 ECTS Credits

Communication with Lecturer
Paraschos Maniatis, Mobile Phone: 6942487212, E-mail address: pman@aeub.gr

Suggested Reading Material
Logistics and Supply Chain Management. Strategies for Reducing Costs and Improving Services.
Martin Christopher. Pitman Publishing 1992

Articles and Material to be distributed

Course Description
An introduction to the operations aspects of logistics combined with an overview of Supply Chain Management. Topics will include purchasing, vendor relations, inventory strategies and control, warehousing, material handling, layout planning, packaging, and transportation, combined under supply chain management philosophy. The course will be taught through lectures, problem sets and case studies.

Course Objectives
To enable the student to describe, understand, analyse and recommend enhancements to the purchase, logistics and distribution functions within a manufacturing or service environment.

To provide the student with an overview of the larger issues associated with Supply Chain Management.

Learning Outcomes
Upon successful completion of this course, the student will be able to:
• Demonstrate systems thinking capacity in the logistics environment.
• Be able to provide input to, understand and take action on reports generated by the various functions associated with purchasing, logistics and distribution.
• Be able to generate and analyse simple reports in the areas of forecasting, purchasing, inventory management, transportation and warehousing.
• Be able to articulate a solid understanding of Supply Chain Management including vendor selection and vendor relations strategies and techniques.
• Be able to assemble, review and recommend action plans for complex logistics and Supply Chain Systems.

Course Methodology
We will be using a combination of lecture, case studies, class discussions, class exercises and student presentations to cover the required material.

Methods of Assessment
• Written test at the end of the semester 50%
• Written Answers to Case Studies in Electronic Form 30%
• Oral Presentation of the Case Studies 20% (Required)
• Class participation 10%

All class members will be graded on a curve based upon overall performance in the class. Late papers are not encouraged and will only be accepted with prior approval by the instructor. Grades will be affected by timeliness of the work.
**Attendance Policy**

Students are expected to attend all class sessions. Circumstances that prevent attendance will be honoured up to two instances. Absences in excess of three times may result in an incomplete grade for the course. Contact the instructor when a special situation arises. All absences require that the instructor be informed in advance.

**Class Schedule**

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic/Activity</th>
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<tbody>
<tr>
<td>Week 1:</td>
<td>Introduction, Course Overview, Logistics of the course</td>
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<tr>
<td>Week 2</td>
<td>Logistics Integration, Customer Service</td>
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<td>Week 3:</td>
<td>Supply Chain Relationships, Global Logistics</td>
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<td>Week 4</td>
<td>Information Systems, Forecasting</td>
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<td>Week 5:</td>
<td>Inventory Strategy, Inventory Management</td>
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<td>Week 6:</td>
<td>Transportation Infrastructure, Transportation Regulation</td>
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<td>Week 7:</td>
<td>Transportation Management, Warehouse Management</td>
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<td>Week 8:</td>
<td>Material Handling, Packaging</td>
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<td>Week 9:</td>
<td>Layout Planning</td>
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<td>Week 10:</td>
<td>Logistics Positioning, Integration Theory</td>
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**Planning and Design Methodology, Planning and Design Techniques**

**Week 12:** Organization, Planning, Costing and Pricing

**Week 13:** Case Studies Presentation

LAST DAY OF CLASSES: To be announced

EXAMINATION: To be announced

To: Engineering Logistics Class
From: Paraschos Maniatis
Subject: Term paper evaluation criteria (each student has to perform 5 case studies taken from the list stated below and assigned by the instructor in the beginning of the semester)

The full text description of all the cases separately could be found in the e-class section in the website of the University under the name of the course “ENGINEERING LOGISTICS”

The case studies answers are an important part of the Logistics course requirements. Therefore, it is important that you think about your answers and its ground rules early in the semester.

The specific subject of the cases is expected to include several of the logistics topics discussed in class and in the book. The subject should be selected in terms of viability, significant issues to be addressed and what is required to implement the topic such as manpower, materials, packaging, inventory and so on. The subject should be selected by the instructor fitting one of personal interest to you, which will make the project far more enjoyable.

You should support your subject with clear references to experts within the field of choice. You are free to apply personal experience to the subject but it should be well supported with outside justification.
The length of the answers in no case will be less than the number of the words of the actual case
given to you. This is why the cases are given to you in an electronic form, so that you'll be able to
word count them. Your answers will be returned in electronic form and must also include a
bibliography of all reference material used in the formulation of the answers.

To: Engineering Logistics Class
From: Paraschos Maniatis
Subject: Oral Presentation

The oral presentation accounts for 20% of your final grade and therefore is a very important
component of the required class work. The purpose here is to outline the expectations I have of
you when giving your presentation. As, mostly, business school students, it is expected that you are
able to think logically and communicate verbally in an accurate and succinct manner. One of the
objectives of this oral presentation is to give you an opportunity to refine those skills. The ability to
make straightforward and logical presentations is critical for your success. Although public
speaking can cause a certain amount of stress, this environment is an opportunity conducive to
honoring these skills and must not be missed. It is also an opportunity for you to convince your fellow
students how much you have learned in your study program to date. Your material should be
thoroughly researched and presented in a convincing manner. After all, upon completion of this
research, you are expected to be the expert in the subject matter. The structure of your
presentation should be logical, easy to follow and relatively structured. Please view this as a
learning opportunity versus a task that must be endured.

Oral Presentation Structure/Outline
The oral presentation is individually performed and should be a maximum of fifteen minutes in
length. Each member will be responsible for his/her own answers of the presentation and should
cover it thoroughly. Allow adequate time for a question and discussion session at the end of the
presentation. Please try to stay within these time constraints.

Panel Presentation Grading
Each student will earn his own grade, which will be based on the presentation itself and responses
to questions and the impromptu discussion that follows.
Is each individual clear, concise, accurate, logical and easy to understand?
Is a fundamental understanding of the topic covered before diving into the more complicated
issues surrounding the subject?
Does the presentation flow not only for each individual but also from one presenter to another?
Do the visual aids support what is being discussed at the time?

A List of Case Studies
1. Nittany Systems Electronics and Missiles Group
2. Macklin, Ltd.
3. No-Tell Computer Parts
4. Old British Fish "N" Chips, Ltd.
5. Athletic Corner
6. Peninsula Point, Inc.
6. Entrepreneurship, Helen Salavou
6 ECTS credits

Communication with Lecturer

e-mail: esalav@aueb.gr
Tel: +30 210 8203 425

COURSE RATIONALE
This course introduces the nature of entrepreneurship. It helps students to successfully develop viable business ideas. This is a teaching-mentoring course. You are going to write and present business plans based on teamwork.

BRIEF SYLLABUS
Entrepreneurship is both a way of thinking and of doing. It deals with “creating something from nothing”. The course cultivates an entrepreneurial mindset and focuses on skills necessary for writing a comprehensive business plan.

LEARNING OBJECTIVES
As a result of taking this course, the students should be able to:
 entrepreneurship
 professional career choice

box unchecked
PRE-REQUISITE KNOWLEDGE
This course synthesizes concepts and knowledge from various courses at business schools. Only students, who have attended marketing and/or management courses, are allowed to follow this course.

READING MATERIAL
Together with a list of recommended references, the following book is required:

COURSE EVALUATION
Your final grade will depend on the following:
Written exams 20%
Business plan 50%
Business plan presentation 30%

Written exams will take place in the period between January - February. Students wishing to go back to their countries before or shortly after Christmas are advised not to take this course.

SPRING SEMESTER

1. International Marketing Management,
6 ECTS Credits, Type: Elective, Level: Advanced

Course Objective
This course offers students a practical understanding of the role of marketing in the achievements of corporate goals and the opportunity to gain an appreciation of the different applications of marketing in consumer, and industrial international markets. Also, it provides students with an understanding of both theory and practice of international and export marketing as well as with the ability to apply this understanding to real and simulated situations.

Prerequisites
Three marketing courses

Course Content
International Trade.
Overseas and European environments: cultural, political and economic.
Information gathering and marketing information systems for international marketing decision-making.
Methods of market entrance.
International marketing mix.(Product, Price, Promotion, Place)
Logistics, subsidiaries, agents, importers and intermediaries.
Globalization
**Recommended Reading Material**
Rugman & Hodgetts International Business 3rd ed. Prentice Hall

**Teaching Methods**
Lectures, Case studies, Video & Multimedia staff

**Assessment Methods**
70% written assignment, 30% written exams

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6 ECTS Credits, Level: Advanced

**Course Outline**
Analysis of the nature and operations of modern money and capital markets. How the markets work and what instruments are used. The money markets, the bond markets, the equity markets and the derivatives markets are covered.

**Evaluation Methods**
Final written exam - 100% of overall assessment (late January or early February, according to the official exams time-table of the University).

**Reading Material**
Brealey-Myers: Principles of Corporate Finance
Bodie-Kane-Marcus: Investments (Irwin, 1996)
Reilly-Brown: Investment Analysis and Portfolio Management (Dryden)
Fabozzi F.J.: Bond Markets, Analysis and Strategies (Prentice Hall)
Kolb R.W.: Futures, Options and Swaps (Blackwell, 1999)

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**3. Financial Management**
6 ECTS credits, Level: Intermediate

**Course Outline**
This module examines various items in the area of Corporate Finance. For that reason it is divided into 2 major groups:
- The first group includes the most important methods concerning Investment Appraisal.
- The second group is concerned with Financing Decisions.

**Reading Material**
The required text for the course is:

Some highly recommended texts are the following:

Course Components
The major components of the course are the following:
- Introduction to Investment Appraisal
- Methods and Criteria of Investment Appraisal
- Net Cash Flow Analysis
- Investment Appraisal and Inflation
- Risk Analysis
- Capital Markets
- Bond and Share Valuations
- Cost of Capital
- Capital Structure
- Dividend Policy
- Portfolio Considerations
DEPARTMENT OF ACCOUNTING AND FINANCE

FALL SEMESTER

1. Cost and Management Accounting, Efthimios Demirakos
6 ECTS credits, Level: Intermediate progressing to advanced

Contact Information
Efthimios Demirakos, Assistant Professor
e-mail address: demirakos@aueb.gr, tel.: 210-8203 442

Course Objectives – Content
Learning Objectives
Upon successful completion of the course, the students will be able to understand the:
1. content of cost accounting,
2. concepts and categories of cost,
3. determinants of production cost (raw materials, direct labor and overheads),
4. costing systems (traditional costing and activity-based costing),
5. costing methods (job order costing and process costing),
6. costing techniques (absorption costing, variable costing and standard costing),
7. allocation and reallocation of overheads,
8. cost-volume-profit analysis, and
9. costing of joint products and by-products.

Course Structure
The structure of the course includes the following sections:
1. Product Costing Systems: Concepts and Design Issues (Chapter 2)
2. Cost Accumulation for Job Shop and Batch Production Operations (Chapter 3)
3. Activity-Based Costing Systems (Chapter 4)
4. Process Costing Systems (Chapter 8)
5. Joint Process Costing (Chapter 9)
6. Managing and Allocating Support-Service Costs (Chapter 10)
7. Financial and Cost-Volume-Profit Models (Chapter 12)
8. Standard Costing, Variance Analysis and Kaizen Costing (Chapter 16)

Course Assessment
Final two-hour written examination comprising exercises and case studies.

Bibliography
Course Textbook

2. Financial Statement Analysis (Reading course), Georgia Siougle
6 ECTS credits
Contact Information
Georgia Siougle, Associate Professor
e-mail address: gsiougle@aueb.gr, tel.: 210-8203 145

Course Content
This course introduces and develops a framework for business analysis and valuation using financial statement data. Four key components of effective financial statement analysis are discussed:

- Business Strategy Analysis
- Accounting Analysis
- Financial Analysis
- Prospective Analysis

Cases are used in course projects and will be assigned to student teams.

Recommended Reading Material
Business Analysis and Valuation, By Palepu, Healy and Bernard

SPRING SEMESTER

1. Behavioral Finance (Reading Course), Spyros Spyrou
6 ECTS credits

Contact Information
Spyros Spyrou, Associate Professor
e-mail address: sspyrou@aueb.gr, tel.: 210-8203 169

Course Content / Objectives
Traditional economics and finance is developed on the assumption of a rational utility maximizing economic agent. Recent empirical evidence, however, suggests that real people behave differently than assumed. This module reviews the literature on cognitive psychology as regards to human and investor behaviour and contrasts this with the behaviour that is expected from traditional models. We discuss Prospect Theory (PT), i.e. a theory alternative to Expected Utility Theory (EUT), and show that many empirical phenomena that where considered as ‘anomalies’ by traditional finance can be explained within this framework. The module also discusses empirical findings on various related issues such as herding behaviour, measures of herding, investor overreaction and under-reaction, measurement of investor sentiment, mental accounting, overconfidence, the house-money effect, the dividend puzzle, the equity premium puzzle, the closed-end fund puzzle, among others.

The key concepts that will be analyzed include:

- The Limits of arbitrage
- Prospect theory
- Cognitive heuristics and biases
• Overreaction and Under-reaction
• Empirical Puzzles and Behavioral Explanations
• Investor Biases
• Herding Behavior in Financial Markets
• Investor Sentiment: Measurement & Empirical Evidence

Assessment
One 2,500 to 3,000 word essay and final exams

Bibliography

A. Textbooks
• Shefrin, H. (2002). Beyond greed and fear: Understanding behavioral finance and the psychology of investing, Oxford University Press

B. Articles
• Murstein, B. I., (2003), Regression to the mean: One of the most neglected but important concepts in the stock market, Journal of Behavioral Finance, 4, 234-237.
2. Computational Finance and Econometrics, Stylianos Bekiros
6 ECTS credits, Level: Advanced

Contact Information
Stelios Bekiros
Assistant Professor
e-mail address: bekiros@aueb.gr, tel.: 210-8203 453

Description
The aim of this course is to provide the students with knowledge of modern computational/econometric techniques in estimating and forecasting financial asset returns and risk (volatility). The course discusses topics such as MCLRM, heteroscedasticity, multicollinearity, autocorrelation, nonnormality, ARIMA/VAR modeling, nonstationarity, cointegration, ARCH/GARCH models, Value-at-Risk.

Prerequisites/Curriculum Position
Excellent background in Matrix Algebra, Multivariate Statistics, Advanced Econometrics and Economic/Financial Mathematics. Students should have computing skills.

Format
You are going to attend a number of long lectures (reading course) and respond to individual and/or team assignment(s).

Assessment
Individual/team assignment(s) and a final exam.

Course material
Recommended bibliography:
FALL SEMESTER

1. Human Resource Management

Leda Panayotopoulou

6 ECTS credits

Level: Intermediate

Contact details:
Office: 2nd Trias str., 5th floor (room 510)
Tel. 210 8203 544
E-mail: ledapan@aueb.gr

Aims
This course aims at familiarizing students with the theoretical background of Human Resource Management. The subjects covered throughout the lectures will introduce students to the current way of managing employees in modern organizations. More specifically, after the completion of the course, the participants will be able to understand:

- The important role of HRM in supporting organizational strategy in the modern firm.
- HRM practices and current trends.
- Issues in international HRM

Course Outline
The course covers the following areas of HRM:

- The Nature of HRM - Strategic HRM
- Staffing: HR planning, Recruitment, Selection
- Performance Management
- Learning and Development
- Rewards and Incentives
- International Dimension

The main textbook of the course is: Human Resource Management, by Torrington, Hall & Taylor, Prentice Hall,

Teaching Method
- Interactive lecture enriched with case studies and group discussions.

Assessment of the Course
- Class participation
- Group assignment
- Written exam

Attention: Please be aware that the number of participants in the course is limited (max 50 students).
2. Global Marketing

D. Skarmeas

6 ECTS credits

Level: Advanced

Contact Details

E-mail: dskarmeas@aueb.gr

Prerequisites

Introduction to Marketing

Objectives

On completion of this module students will be able to:

✓ exhibit an appreciation of the issues and complexities facing business when moving into global markets;
✓ apply techniques for the analysis of environmental and competitive forces in a global setting;
✓ demonstrate an understanding of globalization and the internationalization process of a firm and how they impact on market(s) and entry mode(s) selection;
✓ show an appreciation of the value of global market intelligence, key data sources and issues of consistency in internationally published data;
✓ exhibit an appreciation of the importance of understanding different international culture traits, noting the implication for business;
✓ critically appraise the relevance of key academic literature within global marketing;
✓ exhibit high quality written and oral communication skills.

Course Outline

✓ Globalization
✓ Internationalization Process
✓ Global Marketing Environment
✓ Global Market Segmentation
✓ Global Market Selection
✓ Global Product Strategy
✓ Global Promotion Strategy
✓ Global Distribution Strategy
✓ Global Pricing Strategy
✓ Case studies in Global Marketing

Assessment Methods

Individual and group assignments (40%) and final exams (60%).
Reading List

Core reading:

Supplementary reading:

Attention: Please be aware that the number of participants in the course is limited (max 50 students).

3. Retail Sales Promotions

Paris Argouslidis

6 ECTS credits

Contact Details

E-mail: pargousl@aueb.gr

Course Description and Content

The present course includes 26 2-hour lectures on sales promotions in the sector of retailing. Such promotions can be initiated by manufacturers of consumer products, by retailers or by both of them. The topics to be covered are as follows:

• General principals of retail sales promotions.
• Alternative methods of retail promotions (e.g., price discounts; bonus packs; price bundling; multiple unit pricing; simple coupons; cross-coupons; samples; reward schemes.
• General conditions leading to retail sales promotion campaigns.
• Design and implementation of retail sales promotion campaigns.
• Issues relating to a product’s post-promotion period (e.g. what should manufacturers and retailers expect by the end of a product’s promotional period?).

Course Delivery

Lectures will be based on findings from empirical research published in premier journal outlets, on practical examples and on illustrations of sales promotion programs in retail stores. During lectures
students will be asked to actively participate in the discussion. Students will get electronic access to the theoretical material that will be covered during lectures. Specifically, before each lecture the corresponding slides will be uploaded on e-class and students will have register in order to get access and print them out. It is important to note, however, that class attendance is particularly important because it will include additional material (e.g. cases studies, visual illustrations) that will not appear on e-class.

Course Assessment

The course will be evaluated as follows.

First, students will be asked to deliver a power point presentation regarding the design and the implementation of a retail sales promotion campaign. Depending on class size, the assignment will be a group or an individual one (weigh: 30% of the final mark).

Second, students will sit a written exam in the examination period of January-February 2015 (weigh: 70% of the final mark).

Key Benefits

Students attending this course will likely get a job with a manufacturer of consumer goods (e.g. grocery or durables) or with a domestic or global retailer. It is, therefore, of particular importance to acquire knowledge about retail sales promotion techniques. By combining empirical evidence with practical illustrations and case studies, this course aims at offering students a thorough understanding of the nature, content and context of retail sales promotions. In particular, by completion of the course, students will be able to know:

1. general principals of sales promotions,
2. alternative methods of sales promotions,
3. conditions justifying a sales promotions campaign,
4. issues relating to the design, implementation, and post-promotion evaluation of sales promotion campaigns,
5. price promotions for perishable grocery products,
6. price promotions for more highly-priced durable products.
Key References


Tsiros M. and Hardesty D. M. (2010), 'Ending a price promotion: retracting it on one step or phasing it out gradually', Journal of Marketing, 74 (January), pp. 49-64.

Attention: Please be aware that the number of participants in the course is limited (max 50 students).
1. Cross-Cultural Communication,

Eleni Apospori

6 ECTS credits

Level: Advanced

Contact Details

E-mail: apospori@aueb.gr

Tel: 210-8203 141

Course Aim

The overall aim of this course is to educate students so that they develop basic competences in cross-cultural communication in general and in organizational environment in particular.

Course Content

Topics that will be covered:

1. Introduction to Culture

Aim

To analyse the basic dimensions/concepts of culture in order to become clear the complexity and multi-dimensionality of culture

1.1 Basic Concepts

- Elements of culture
  - Artefacts
  - Norms and Sanctions
  - Values and Beliefs
- Levels of culture
  - From small groups to supranational groups

2. Introduction to Communication

Aim

To analyse various approaches to and concepts of communication in order to become clear the complexity and multi-dimensionality of communication and its mechanisms
2.1 Basic concepts

- Problems in Communication
- Noise in Communication
- Communication – Semiotics

2.2 The Five Rules of Communication

2.3 Definition of Cross – Cultural Communication

3. The cultural context of communication

Aim

To present, analyse and compare the wide spectra of cultural characteristics across the globe.

3.1 Basic concepts

- Individualism/collectivism
- High/low context
- Small/large power distance
- Low/high uncertainty avoidance

4. The Perceptual context of communication

Aim

To list and discuss the stages of human information processing and familiarize students with cultural differences in perception, stereotypes, ethnocentrism and racism

4.1 Basic concepts

- Culture and cognition
- Stereotyping
- Ethnocentrism
- Racism
- Ethnocentrism and Communication in the workplace

5. Verbal and Non-verbal codes in Communication

Aim

To familiarize the students with the wide varieties of verbal and non-verbal codes of communication across culture

5.1 Basic concepts

- The relationship between language and culture
- Cross-cultural communication styles
- The relationship between verbal and non-verbal codes
6. Developing Intercultural relationships

Aim

To help students command their intercultural relationships

6.1 Basic concepts

- Communication and Uncertainty
- Anxiety and uncertainty management
- Uncertainty reduction
- Empathy and similarity

7. Intercultural conflict

Aim

To familiarize student with the levels and styles of conflict in cross cultural communication

7.1 Basic concepts

- Definition of intercultural conflict
- Models of intercultural conversation
  - Conflict resolution in various cultures

8. Intercultural communication in Organizations

Aim

To discuss how dimensions of the cultural context affect organizations across cultures and to identify how the perceptual context can influence doing business with other cultures

8.1 Basic concepts

- Intercultural management
- Clashing cultural concepts on the job
- Doing business in various cultures across the Globe

Attention: Please be aware that the number of participants in the course is limited (max 50 students).
2. Change Management

Maria Vakola,
6 ECTS credits
Level: Advanced

Contact Details
E-mail: mvakola@aueb.gr
Tel: 210-8203 177

General Aim and Rationale
The concept of change is not a new one. Indeed change has always been recognized as necessary and inherent to all aspects of life. However, the last decade has, for most organizations, been a time of totally unprecedented and seemingly ever accelerating change so that the phrase "change or die" has increasing resonance. Coping with change has become another element in organizations’ battle to compete, thereby focusing attention on the need to manage change effectively. The aim of this course is to provide an understanding of the change management process and to present a framework for managing change in order for the participants to further explore advanced issues related to change management such as leadership, resistance to change, communication in a change context etc.

Specific Objectives
On successfully completing the module, participants will be able to do the following.

- Present a clear view of the theory and practice of managing change.
- Demonstrate an understanding of the choices and dilemmas facing organisations.
- Explain the nature and history of the theories, approaches and beliefs available to guide their action, in order to make informed choices when instigating and implementing change.
- Demonstrate a practical understanding of organizational change, of the approaches to change and the methods of identifying, planning and implementing change.

Methodology
The course is based on lectures, workshops and individual and group work. Please find below a detailed description of these scheduled meetings.

<table>
<thead>
<tr>
<th>Weeks</th>
<th>CONTENT</th>
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| 1     | Introduction to the course  
       | Introduction to change management |
2  Selecting change agents/ Theory and team exercise
3  Culture change: Case study
4  Workshop: Identify success or failure factors in a culture change context
5  The role of culture in mergers and acquisitions
6  Resistance to change
7  Workshop: Antecedents and outcomes of resistance to change
8  Leadership and change management
9  Communication and change
10 Group presentations

**Assessment**

**Course assessment is based on a group assignment and a group presentation:**

**Group report:** In a group of 5-7 people, you try to explore a major change that took place in a European country. The aim is to collect information in order to write a case study of a major change presenting its main phases, ways of change implementation, main obstacles etc. This report counts for the 70% of your total mark.

**Group presentation:** You need to present to our group your main findings in a 10 minute presentation. This presentation counts for the 30% of your total mark. More information will be given in the first lecture.

**Reading**

Change is a broad subject and therefore students need to invest on searching and collecting materials from the library. Students will have access to e-class where there is recommended reading list.

**Attention:** Please be aware that the number of participants in the course is limited (max 50 students).
3. Marketing of Services

Kalipso Karantinou
6 ECTS credits
Level: Advanced

Contact Details
E-mail: kkarantinou@aueb.gr

Course Objectives
The service sector is the dominant driving economic force worldwide and marketing and management practices in this field are evolving rapidly. There is as a result an increasing academic and business interest in the service sector, where the manufacturing-based models of business and marketing practice are not always useful, relevant and appropriate. Service organizations differ in many important respects, posing a number of interesting challenges to managers, and thus requiring a distinctive approach to the development of marketing strategies. This course aims to provide the students with an extensive understanding of the distinguishing characteristics of services and their implications and to acquaint students with services marketing theories, models, applications, and best practices, as ways to deal effectively with the unique challenges in services.

Learning Outcomes
At the end of the course, students should have developed a comprehensive understanding of the distinguishing characteristics of services, an appreciation of their multifaceted implications, and a resulting insight into the challenges of managing and marketing services. They should be able to identify optimal strategies for services and know how to implement them.

Course Content
- The Uniqueness and Characteristics of Services
- Managerial Implications and Challenges in Marketing Services
- Service Quality - Customer Care - Service Excellence
- Service Failure - Service Recovery
- Service Positioning and Branding
- Advertising Services
- The Role of People in Services
- Physical Evidence and Servicescapes
- Using Process as a Distinguishing Advantage in Services
- Pricing for Optimal Yield and Demand Management
- Loyalty and Relationship Development in Services

Teaching and Learning Methods and Style
Sessions combine lecture style delivery with analysis of case studies, reference to practical examples, video presentations, practical application group exercises, and extensive discussions of the application of theories in a variety of different sectors and situations, resulting in an interactive format. Case studies are used in every lecture to enable the application of the discussed strategies.
and methods. Participants are also involved in team exercises, creating servicescapes, developing blueprints, evaluating advertising campaigns, and devising customer relationship management schemes.

**Recommended Reading Material**


Additional readings, business practice examples, academic journal papers, and case studies are uploaded onto eclass every week, illustrating the discussed concepts and their applications.

**Assessment**

Assessment will be by a combination of:

- Examination (70%),
- Projects (30%).

**Attention: Please be aware that the number of participants in the course is limited (max 50 students).**
Incoming Erasmus students who speak Greek may attend any of the undergraduate courses of the Department of Informatics (7 or 6 ECTS credits each); their descriptions (in Greek) can be found at: http://www.cs.aueb.gr/el/content/programma-spoynon.

Incoming students who speak English may also attend any of the following courses, which are offered as reading courses.

**FALL SEMESTER**

1. **Computer Graphics**, G. Papaioannou,
   6 ECTS credits

   **Communication with Lecturer**
   e-mail: gepap@aueb.gr

   **Course Description**

2. **Wireless Networks and Mobile Communications**, V. Siris
   6 ECTS credits

   **Communication with Lecturer**
   e-mail: vsiris@aueb.gr

   **Course Description**
   The course's goal is an in depth discussion of the fundamental principles, architectures, and functionalities of wireless networks and mobile communications. The course discusses not only how wireless networks operate, but also why they operate in a particular way. Moreover, the course highlights key trends which includes cross-layer dependence of functions in wireless networks and the integration of fixed/wired with wireless and mobile communications.
3. Diploma Thesis
6 ECTS credits
Interested students should contact directly the faculty members: T. Kalamboukis (tzk@aueb.gr), G. Polyzos (polyzos@aueb.gr), V. Vassalos (vassalos@aueb.gr), Vana Kalogeraki (vana@aueb.gr), G. Papaioannou (gepap@aueb.gr)

SPRING SEMESTER

1. Distributed Systems, V. Kalogeraki,
6 ECTS credits

Communication with Lecturer
e-mail: vana@aueb.gr

Course Description: The purpose of this course is to integrate the theory and practice of distributed systems with focus on recent developments and state-of-the-art practical systems. The topics we will cover include middleware architectures, process management, replication, consistency and group communication protocols, peer-to-peer systems, real-time scheduling, programming frameworks such as MapReduce, file systems and caching, and distributed sensor systems. We will discuss detailed case studies that illustrate the concepts for each major topic.

2. Software Verification, Validation & Maintenance, N. Malevris
6 ECTS credits

Communication with Lecturer
e-mail: ngm@aueb.gr

Course Description

Suggested textbooks
M. PEZZE, M. YOUNG, «SOFTWARE TESTING AND ANALYSIS: PROCESS, PRINCIPLES AND TECHNIQUES» (WILEY) or
P.AMMANN, J.OFFUTT, INTRODUCTION TO SOFTWARE TESTING (CAMBRIDGE UNIVERSITY PRESS.)
3. Diploma Thesis
6 ECTS credits

Interested students should contact directly the faculty members: G. Polyzos (polyzos@aueb.gr), V. Vassalos (vassalos@aueb.gr), G. Papaioannou (gepap@aueb.gr)

DEPARTMENT OF STATISTICS
All students should come from Department of Statistics or Department of Mathematics

FALL SEMESTER

1. Stochastic Processes II (Reading Course)

Ath. Yannacopoulos

8 ECTS credits

Communication with Lecturer

e-mail: ayannaco@aueb.gr

Prerequisites

Probability Theory

Course Content

This is a course on stochastic processes, covering the following topics:

- Introduction to martingales and their properties including martingale convergence theorems and martingale inequalities with their various applications.
- Markov processes in continuous time, and applications.
- The Poisson process.
- The Wiener process, properties and applications.
- Diffusion processes and stochastic integration with applications.
- Elements of stochastic modeling.
- Simulation of stochastic processes (including lab sessions)

Recommended or required reading

Brezniak and Zastawniak, Stochastic processes, Springer
2. Statistical Quality Control (Reading Course)

St. Psarakis

8 ECTS credits

Communication with Lecturer

e-mail: spsa@aueb.gr

Prerequisites

Attendance and knowledge of topics related to Estimation-Hypothesis testing, are very useful.

Course contents


Recommended or required reading


3. Computational Statistics (master course)

D. Karlis

7,5 ECTS credits

Communication with Lecturer

e-mail: karlis@aueb.gr

Prerequisites

Probability, Statistics, Estimation-Hypothesis testing, Linear Modelling, Analysis of Variance. The course is suitable for students from Statistics departments.

Course contents
R programming, simulation techniques, Monte Carlo methods, numerical methods for stats, smoothing, numerical optimisation, bootstrap, MCMC.

**Recommended or required reading**

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**4. Actuarial Science II** (Reading course)

A. Zimbidis

8 ECTS credits

**Communication with Lecturer**

e-mail: aaz@aueb.gr

**Prerequisites**

Basic knowledge of Mathematics, Probability and Statistics.

**Course contents**

Survival function, Simple mortality table and related functions, force of mortality, laws Classics mortality, actuarial tables and commutation functions, Stochastic approach to Life Insurance. Life annuities with one or more payments annually, Relationship between annuities, life insurance of various kinds, Relationship annuities and insurance, interest rate movements and mortality. Net premiums and gross premiums, concept and process of calculating reserves, Relationship between successive stock price. Tables and Actuarial functions for two or more persons, Contingent actuarial functions.

**Recommended or required reading**

- Zimbidis A.(2009), «Actuarial Mathematics of Life Insurance»
- Kluwer Academic Print
5. Data Analysis (master course)

I. Ntzoufras

7.5 ECTS credits

Communication with Lecturer

e-mail: ntzoufra@aueb.gr

Prerequisites

Statistical Inference, Regression Analysis, Basic knowledge of R.

Course contents

Primary aim of this course is the understanding and the application of statistical method in real life problems of various scientific fields such as Management, Marketing, Psychology, Medicine, Sports and Social Sciences. Focus is given on the review of parametric and non-parametric hypothesis tests for one and two samples (t-tests και Wilcoxon tests), analysis of variance and regression models. Emphasis is given in the implementation of all methods using R and in problem solving. Interesting real life datasets and problems are analyzed during this course with aim to provoke their attention and motivate them.

The course is taught in 12 four-hour sessions (9 lectures and 3 labs) which will cover the following topics: Introduction to data analysis and analytics - motivation; Descriptive analysis and Data visualization; Basic principles of Statistical Inference (Estimators, point estimation, interval estimation, hypothesis tests, p-values, data analysis with R (t-tests, χ2, ANOVA, normality tests, tests for equality of variances); Correlation and Simple linear regression, Regression diagnostics; Outliers and influential points; Multiple regression; Collinearity; AIC and BIC; Stepwise variable selection; Ridge regression; Lasso Regression.

Examination

One assignment (50%) and one written examination (50%) with the requirement the grade in the written examination to be higher than 5 (out of 10).
**Recommended or required reading**


**SPRING SEMESTER**

1. **Multivariate Statistical Analysis** ADVANCED LEVEL (Reading Course)

D. Karlis

8 ECTS credits

**Communication with Lecturer**

e-mail: karlis@aueb.gr

**Prerequisites**

Knowledge of

- Statistical Inference
- Linear Algebra
- Basic knowledge of R

The course has the following parts

- Multivariate descriptive and graphs
- Multivariate normal and related distributions
- Hypotheses tests for multivariate data
- MANOVA
- Multivariate Linear model
- Principal Components Analysis
- Factor Analysis

During the course there are 3-4 projects. The projects need computing in R.
2. Statistical Learning (master course)

D. Karlis

4 ECTS credits

Communication with Lecturer

e-mail: karlis@aueb.gr

Prerequisites

Attendance only for students from Statistics departments with good knowledge of R, statistical inference, data analysis and Linear algebra.

Course contents

Model Assessment and Selection. Big data problems

Recommended or required reading

- Hastie, Tibshirani and Friedman (2009) Elements of Statistical Learning, 2nd edition Springer
- James, Witten, Hastie and Tibshirani (2011) Introduction to Statistical Learning with applications in R, Springer

3. Introduction to Probability and Statistics using R (Reading Course) ADVANCED LEVEL

D. Karlis

8 ECTS credits

Communication with Lecturer

e-mail: karlis@aueb.gr

Prerequisites

Students should have taken introductory courses in Probability, Statistics and R programming. The
course is suitable only for Statistics students

**Course Content**

Emphasis is given on R programming using ideas from probability and Statistics. So, the course is mainly an R programming course. The curse aims at introducing ideas from Probability and Statistics together with R programming. Such examples is using simulation to show and understand with the Central limit theorem, the law of large numbers, probability as frequency, descriptive statistics and their properties etc

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**4. Actuarial Science I (Reading course)**

A. Zimbidis

8 ECTS credits

**Communication with Lecturer**

e-mail: aaz@aueb.gr

**Prerequisites**

Basic knowledge of Mathematics, Probability and Statistics.

**Course contents**


**Recommended or required reading**

- “Introduction to Ratemaking and Loss Reserving for Property and Casualty Insurance”, Actex Publications,
5. Stochastic Models in Finance (master course) MSc Level

Ath. Yannacopoulos

3,5 ECTS credits

Communication with Lecturer

e-mail: ayannaco@aueb.gr

Prerequisites

Probability theory and Stochastic Processes

Course Content

This is an introduction to the modern theory of stochastic finance. The aim of the course is to introduce the students to the basic concepts of this field, which are to be used in asset pricing, portfolio optimization etc.

The syllabus is as follows:

1. Introduction, assets and assets markets
2. Arbitrage and the pricing kernel
3. Stochastic models for stocks
4. Derivative pricing, the binomial and the Black – Scholes model – martingale pricing and the equivalent martingale measure
5. Introduction to bond pricing
6. Introduction to portfolio theory

6. Financial Econometrics (master course)

I. Vrontos

3,5 ECTS credits

Communication with Lecturer

e-mail: vrontos@aueb.gr

Prerequisites

Statistical Inference, Regression Analysis, Basic knowledge of Matlab.
Course contents

Introduction to Course: Outline of Topics, Basic Econometric Models, Mean-Variance Portfolio Theory (Return and risk, Portfolio diversification, Construction of optimal portfolios, Basic empirical application), Performance Evaluation of Financial Assets (Capital asset pricing model, Treynor measure, Sharpe measure, Jensen’s alpha, Multifactor models, Alternative measures, Empirical application), Characteristics of Financial Data (Fat tails, Volatility clustering phenomenon, Leverage effect), Heteroskedasticity Models (ARCH, GARCH and EGARCH models, Properties of time-varying models, Estimation of heteroskedastic models, Empirical application), Multivariate Factor models (Single index models, General multivariate multifactor model), Multivariate Heteroskedasticity Models (Multivariate ARCH/GARCH models, Constant conditional correlation model, Empirical application)

Recommended or required reading

7. Biostatistics (master course)

N. Demiris

4 ECTS credits

Communication with Lecturer
e-mail: nikos@aueb.gr

Course contents

Survival Analysis
Introduction to the main concepts. Hazard and Survival functions.
Parametric methods. Likelihood function. Exponential and Weibull case. Applications in R
Graphical goodness of fit using R
Regression Models. Proportional Hazards. Applications in R
Survival analysis through counting processes
Frailty Models
Other regression models, including additive hazards and accelerated failure time
Martingale residuals. Model selection.
Multi-state Models and Competing Risks.
Epidemic Models
Deterministic SIR models. The Basic Reproduction number. Disease Control. Examples using R

Meta Analysis and evidence Synthesis

Epidemiology
Basic Concepts. (De)Confounding.

Recommended or required reading


8. Probability Theory (master course)

E. Kyriakidis

4 ECTS credits

Communication with Lecturer
e-mail: ekyriak@aueb.gr

Course contents

Probability Theory
Expected value. Almost sure convergence and the dominated convergence theorem.

Recommended or required reading
9. Advanced Stochastic Processes (master course)

M. Zazanis

4 ECTS credits

Communication with Lecturer

e-mail: zazanis@aueb.gr

Course contents


Recommended or required reading


Athens, July 04, 2017

From the Erasmus+ Office