



# GUIDE OF UNDERGRADUATE STUDIES

DEPARTMENT OF ACCOUNTING AND  
FINANCE

SCHOOL OF BUSINESS

ATHENS UNIVERSITY OF ECONOMICS  
AND BUSINESS

**Prepared by:** *Efthimios Demirakos, Leonidas Rompolis*

**Translated by:** *Olga-Chara Pavlopoulou-Lelaki*

ACADEMIC YEAR 2020-2021

## A. PART ONE: INFORMATION ABOUT THE FOUNDATION

### A1. Name, address and contact details

Athens University of Economics and Business (AUEB)

76 Patission Str, GR-10434 Athens

Tel. Center +30 (210) 8203911

[webmaster@aueb.gr](mailto:webmaster@aueb.gr)

<http://aueb.gr>

### A2. Dates of academic year / semesters

- **Winter Semester:** 12 October 2020 to 29 January 2021
- **Christmas holidays (Winter Break):** 23 December 2018 to 6 January 2019
- **Winter Semester Exam Period:** 1 February 2021 to 26 February 2021
- **Spring Semester:** 1 March 2021 to 11 June 2021
- **Easter Holidays (Spring Break):** 24 April 2021 to 9 May 2021
- **Spring Semester Exam Period:** 14 June 2021 to 9 July 2019
  
- **Official Holidays**
  - March 15 (Clean Monday)
  - March 25 (Greek Independence Day)
  - June 21 (Pentecost Monday)

### A3. Academic Authorities and Services

The organization and operation of the Foundation is governed by the applicable law N.4485 / 2017 (Government Gazette 114 / 4-8-2017). The Athens University of Economics and Business (former ASOEE) is under the supervision of the Ministry of Education and Religious Affairs.

## THE SENATE

The **Senate** consists of:

- the Rector,
- the Vice-Rectors,
- the Deans,
- the Presidents of the Departments
- a representative of undergraduate students, one of the postgraduate students and one of the doctoral candidates
- one representative per category of staff, Special Educational Staff (EEP) , Laboratory Teaching Staff (EDIP), Special Technical Laboratory Staff (ETEP), and administrative staff

## THE RECTORAL AUTHORITIES

The Rectoral Authorities of the University consist of the Rector and the Deputy Rectors as follows:

### **The Rector**

Professor Dimitrios Bourantonis

### **The Vice Rectors**

#### **Vice Rector of Academic Affairs and Personnel**

Professor Vasilios Vasdekis

#### **Vice Rector of Research and Lifelong Learning**

Associate Professor Georgios Lekakos

#### **Vice Rector of Financial Planning and Infrastructure**

Professor Konstantinos Drakos

#### **Vice Rector of International Cooperation and Development**

Professor Vasilios Papadakis

## THE SCHOOLS

The Athens University of Economics and Business consists of three **Schools**:

1. **SCHOOL OF ECONOMICS**: which oversees and coordinates the operation of the Departments of International and European Economic Studies, and Economics.
2. **SCHOOL OF BUSINESS**: which oversees and coordinates the operation of the Departments of Management Science and Technology, Business Administration, Accounting and Finance, and Marketing and Communication.
3. **SCHOOL OF INFORMATION SCIENCES & TECHNOLOGY**: which oversees and coordinates the operations of the Departments of Informatics, and Statistics.

According to Law 4485/2017 (Government Gazette 114 / 4-8-2017), the Institutions of each School are: a) the General Assembly, b) the Deanery, and c) the Dean

## THE DEPARTMENTS

The Department is the University's main educational and academic unit, promotes science, technology or the arts in the relevant field of science, organizes teaching within the academic curriculum and ensures the continuous learning improvement. The Department consists of all the Professors, Associate Professors, Assistant Professors, Lecturers, the members of the Special Educational Staff (EEP), the members of the Laboratory Teaching Staff (EDIP) and the members of the Special Technical Laboratory Staff (ETEP), who serve in it.

The Departments of the Athens University of Economics and Business are the following:

1. International and European Economic Studies
2. Economics
3. Management Science and Technology
4. Business Administration
5. Accounting and Finance
6. Marketing and Communication
7. Informatics
8. Statistics

The Institutions of the Department according to Law 4485/2017 (Government Gazette 114 / 4-8-2017) are: a) the Assembly of the Department b) the Board of Directors, and c) the President of the Department.

### **THE PERSONNEL OF THE UNIVERSITY**

The University staff consists of the following categories:

#### **➤ TEACHING STAFF:**

- Teaching and research staff of the University (Higher Educational Institution) consisting of (a) Professors, (b) Associate Professors (c) Assistant Professors and (d) Lecturers.
- Special Educational Staff (EEP).
- Laboratory Teaching Staff (EDIP).
- Special Technical Laboratory Staff (ETEP).
- Auxiliary Teaching Staff (EDP).
- University scholars.
- Lecturers on a posting.

#### **➤ ADMINISTRATIVE STAFF**

### **THE SERVICES**

The Athens University of Economics and Business provides both administrative and other services (food, housing, library, sports etc.) aimed at serving its students and all its human resources. More information on the organization and operation of the University's services can be found at the University's central website (<http://www.aueb.gr>).

### **A4. General description of the University**

The Athens University of Economics and Business (AUEB), as a Higher Educational Institution, is a legal entity governed by public law and supervised by the Ministry of Education and Religious Affairs.

AUEB is the third oldest Higher Education Institution of the country and the first in the field of Economics and Business Administration. Over the course of time, the fields of Informatics and Statistics were added to its curriculum. Since it was founded in 1920 and until today, it boasts a rich history of significant scientific achievements that characterize its present and foretell excellent prospects for the future.

The University, as a center of excellence in academic research and teaching, is rated as one of the leading universities in our country and one of the best internationally in the cognitive subjects it serves. Its reputation reflects, on the one hand, the high level of its scientific staff, the quality of its research and teaching and modern academic curricula and, on the other hand, the high scientific training of its graduates, which enables them to become professionally successful both in Greece and abroad.

#### **A5. List of offered courses of study leading to an academic degree**

At the Athens University of Economics and Business the following courses of study are offered with the corresponding majors / study cycles, which lead to the acquisition of an academic degree:

<b>A/A</b>	<b>DEPARTMENTS</b>	<b>MAJORS/SPECIALIZATIONS</b>
1.	International and European Economic Studies	1. International Economics and Finance 2. International and European Political Economy
2.	Economics	1. Economic Theory and Policy 2. Business Economics and Finance 3. International and European Economics
3.	Management Science and Technology	1. Operations Research and Business Analytics 2. Operations and Supply Chain Management 3. Software and Data Analysis Technologies 4. Information Systems and Electronic Business 5. Strategy, Entrepreneurship and Human Resources
4.	Business Administration	1. Business Administration 2. Information Systems Management 3. Accounting and Financial Management 4. Marketing
5.	Accounting and Finance	1. Accounting 2. Finance
6.	Marketing and Communication	1. International Management, Innovation and Entrepreneurship 2. Human Resources Management 3. Business Analytics 4. Digital Marketing

7.	Informatics	1. Theoretical Computer Science 2. Computer Systems and Networks 3. Information Systems and Information Security 4. Databases and Knowledge Management 5. Operational Research and Economics of Information Technology 6. Computational Mathematics and Scientific Calculations
8.	Statistics	

Detailed information on the curricula is provided in the course study guides and departmental websites.

The undergraduate studies in the Departments of the Athens University of Economics and Business are conducted on the basis of the system of six-month courses and according to the Undergraduate Studies Program prepared by the Assembly of each Department. The academic year begins on September 1st and ends on August 31st of the following year. The academic work of each academic year is structured in two semesters, winter semester and spring semester. The duration of undergraduate studies is four years (eight semesters).

The courses of each semester last for 13 weeks and are interrupted during the Christmas and Easter periods. At the end of each semester, the exam period follows and lasts four weeks.

After completion of the June examination period and until the end of the academic year, there are no courses.

In the last week of August, the exam period of September (remedial examination period) begins, which lasts four weeks and ends before the start of the winter semester.

The exact starting and ending dates for the semesters and the examination periods are proposed by the Department of Education of the Division of Educational Affairs, approved by the Senate and announced in the Academic Calendar of the University.

#### **A6. Input / Registration Procedures**

The admission to the department is administered through Pan-Hellenic examinations. The registration of the successful students of the Pan-Hellenic Examinations, in the Schools and the Departments of Higher Education and thus in the Athens University of Economics and Business, takes place every September through the system of compulsory electronic registration, according to the instructions of the Ministry of Education and Religious Affairs.

#### **A7. Fundamental Regulations of the University (including academic recognition procedures)**

The basic regulations of the Foundation include:

- The Internal Rules of Operation of the University
- The Agency for Administrative Services
- The Regulations for the Operation of Postgraduate and PhD Programs
- The Internal Regulation for postdoctoral research
- The Exam Guide

#### **A8. ECTS Coordinator of the University**

The University's ECTS Coordinator is the Quality Assurance Unit Chairperson, who ensures the compliance of the University with the principles and rules of the European credit accumulation and transfer system, supervises compliance and implementation, and is responsible for the full recognition and transfer of credit units.

## **B. PART TWO: INFORMATION ABOUT THE UNDERGRADUTE STUDY PROGRAM**

### **B1. GENERAL DESCRIPTION**

#### **B1.1. Degree Awarded**

Undergraduate (Bachelor's) Degree in Accounting and Finance

#### **B1.2. Duration of the program**

4 years

#### **B1.3. Number of academic credit units (ECTS)**

240 ECTS

#### **B1.4. Level of title/degree**

First Cycle of studies (undergraduate studies)

#### **B1.5. Subject Areas**

The subject areas covered are: (1) Accounting, and (2) Finance

#### **B1.6. Special conditions of admission**

Apart from the admission of students after successful performance in the Pan-Hellenic examinations, the Program accepts graduates of other University Departments after successful performance in the selected modules of admission exams for university graduates organized by the Department of Accounting and Finance at the beginning of every academic year.

#### **B1.7. Special arrangements for the recognition of prior knowledge**

For the graduates of other University Departments that have been admitted after successful performance in the admission exams for university graduates the Department allows the recognition of some modules from the study program.

#### **B1.8. Prerequisites and conditions for academic title (degree) completion, including university graduation conditions**

To receive their academic title (degree) the students must successfully perform in at least 40 modules in total (the equivalent of 240 ECTS) 22 of which need to belong to the core curriculum.

#### **B1.9. Personnel of the Department of Accounting and Finance**

The academic staff of the Department consists of professors, associate professors, and assistant professors with a rich scientific work, significant number of publications in reputable scientific journals, and working experience in foreign and domestic institutions. The academic staff of the department offer significant research, teaching and administrative work at the department level, at the school level and overall at the Athens University of Economics and business. The department also includes members of the laboratory teaching staff (EDIP), special technical laboratory staff (ETEP) and administrative staff.



**Head of Department:** Professor Spyridon Spyrou

**Deputy Head of Department:** -----

**Head of Secretariat:** Marietta Panou

**Professors**

Georgoutsos Dimitrios, Ph.D. University of Essex  
Drakos Konstantinos, Ph.D. University of Essex  
Kavoussanos Emmanouil, Ph.D. City University  
Ballas Apostolos, Ph.D. University of London  
Papadaki Afroditi, Ph.D. Athens University of Economics and Business  
Siougle Georgia, Ph.D. Athens University of Economics and Business  
Spyrou Spyridon, Ph.D. Brunel University  
Hevas Dimosthenis, Ph.D. University of Wales

**Associate Professors**

Doukakis Leonidas, Ph.D. Athens University of Economics and Business  
Episcopos Athanasios, Ph.D. State University of New York  
Staikouras Christos, Ph.D. City University (in suspension of duties)  
Tsekrekos Andrianos, Ph.D. Lancaster University

**Assistant Professors**

Vlismas Orestis, Ph.D. Athens University of Economics and Business  
Demirakos Efthimios, Ph.D. Manchester Business School  
Karampinis Nikolaos, Ph.D. Athens University of Economics and business  
Leledakis Georgios, Ph.D. University of Warwick  
Bekiros Stelios, Ph.D. Athens University of Economics and business  
Rompolis Leonidas, Ph.D. Athens University of Economics and business  
Tzovas Christos, Ph.D. Dundee University  
Chalamandaris Georgios, Ph.D. Imperial College London

**Special technical laboratory staff of the Department and the School**

Agapitos Emmanouil (Department)

**Laboratory teaching staff of the Department and the School**

Theofanopoulou Zoi – Argyri (School of Business Administration)

**Administrative staff of the Department**

Panou Marietta (Deputy Secretary)  
Karteri Stavroula  
Ntai Amalia  
Palaiopanou Ioanna

**B1.10. The profile of the curriculum**

The Department of Accounting and Finance offers a modern educational environment competitive in the international academic realm that closely follows the international scientific and educational developments. The Accounting and Finance undergraduate study program aims to provide students with all the necessary knowledge that will enable them either to join the international job market or to continue their studies at the postgraduate and doctoral level. The curriculum includes generalist modules covering a wide range of business administration and economics concepts as well as specialized modules in the fields of Accounting and Finance. The

program is constantly updated in alignment with the international research and educational developments so as to offer to the students a modern learning environment. The curriculum is oriented, firstly, towards providing students with theoretical knowledge in the fields of Accounting and Finance, and secondly, towards educating them to apply that knowledge at the practical level. The Department of Accounting and Finance possesses educational and research laboratories with specialized staff who assist lecturers in laboratory lessons as well as offer access to databases with international accounting and financial data. The curriculum also offers to students the opportunity to complete a part of their studies abroad (through the Erasmus program), as well as to gain professional experience in organizations of the private or public sector.

The Undergraduate Program in Accounting and Finance has secured significant collaborations with international and Greek professional certification bodies. More specifically, graduates of the undergraduate program are eligible for exemption from some of the ACCA course exams, and can be licensed to practice the economics profession. In addition, the postgraduate program has formed partnerships with international associations such as the ACCA, the ICAEW, the CFA Institute, the IIA, and the ACFE.

The Department of Accounting and Finance is one of the best university departments in the country in the fields of its specialization with significant distinctions in international university rankings. As an indication of the above, it is noted that the postgraduate program of the department holds the 25th position in Western Europe in the Accounting field and the 68th place in the world in the field of Financial Markets according to the most recent classification of universities by the reputable ranking organization Eduniversal.

#### **B1.11. Learning Outcomes of the Program**

After successful completion of their studies at the Department of Accounting and Finance, the students will have obtained adequate knowledge in the fields of accounting and finance. More specifically, they will be able to:

- Understand simple and complex financial accounting concepts based on both the Greek Accounting Standards and the International Financial Reporting Standards.
- Apply their management cost skills to accurately compute the cost of products and services offered by a company, to prepare effective budgets and make successful managerial decisions.
- Analyze the financial statements of companies and assess their fundamental value by applying the appropriate valuation models
- Be familiar with external and internal control as well as with the company's internal security and management control systems
- Understand complex corporate taxation issues and familiarize themselves with the requirements and characteristics of the tax system of Greece
- Evaluate financial management and business planning issues and become familiar with decision making on dividend policy, capital structure, working capital management, risk management, mergers and acquisitions, etc.
- Understand how international money and capital markets function and how they affect economic policy and corporate decisions
- Be familiar with the use of complex financial products
- Understand advanced concepts of investment evaluation and portfolio management

- To acquire the appropriate background in quantitative knowledge for mathematics, statistics and econometrics
- Familiarize themselves with modern developments in the fields of international finance, shipping finance, behavioral finance, and money and capital markets
- Familiarize themselves with the use of new technologies both in accounting (through the mastering of modern accounting information systems) and finance (through the mastering of computational analysis software to implement investment strategies)
- Finally, acquire substantial knowledge in a wide range of support courses in the fields of law, economics, IT, marketing, business administration, business ethics, entrepreneurship, etc. that will be useful to them in their future professional careers

#### B1.12. Program Structure Chart with Academic Credits (ECTS)

FIRST YEAR (60 ECTS)			
FIRST SEMESTER		SECOND SEMESTER	
Course Title	Credits	Course Title	Credits
Principles of Financial Accounting	6	Principles of Business Administration	6
Business Statistics	6	Commercial & Corporate Law	6
Applied Computer science	6	Application of Statistical Methods in Business Problems	6
Mathematical Calculus in Business & Economic Problems	6	Microeconomic Theory I	6
Civil law	6	Financial management	6
English I <sup>1</sup>		English II <sup>1</sup>	
<b>Total</b>	30		30

<sup>1</sup> No credits. It does not count towards degree completion.

SECOND YEAR (60 ECTS)			
THIRD SEMESTER		FOURTH SEMESTER	
Course Title	Credits	Course Title	Credits
Financial Accounting I	6	Cost accounting	6
Mathematics for Financial Analysis	6	Financial Accounting II	6

Components of Business Solutions Development with the help of Information Technology	6	Money and capital markets	6
Human Resource Management	6	Macroeconomics	6
Corporate Finance	6	Advanced Corporate Finance	6
English III <sup>1</sup>		English IV <sup>1</sup>	
<b>Total</b>	<b>30</b>		<b>30</b>

<sup>1</sup> No credits. It does not count towards degree completion.

THIRD YEAR (60 ECTS)			
FIFTH SEMESTER			
Accounting Major		Finance Major	
Course Title	Credits	Course Title	Credits
Accounting for Business Combinations	6	Banking Finance	6
Accounting Information Systems via the Internet	6	Portfolio Analysis and Management	6
English V	6	Behavioral Finance	6
		English V	6
<b>Two courses from:</b>	<b>12</b>	<b>One course from:</b>	<b>6</b>
➤ Programming II	6	➤ Programming II	6
➤ Introduction to Marketing	6	➤ Project and Program Management	6
➤ Portfolio Analysis and Management	6	➤ Accounting for Business Mergers	6
➤ Banking Finance	6	➤ Accounting Information Systems via the Internet	6
➤ Entrepreneurship	6	➤ Microstructure of Financial Markets	6
➤ Business Ethics	6	➤ Business Ethics	6
➤ Marketing of Services	6	➤ Entrepreneurship	6
<b>Σύνολο</b>	<b>30</b>		<b>30</b>

SIXTH SEMESTER			
Accounting Major		Finance Major	
Course Title	Credits	Course Title	Credits
Management Accounting	6	Introduction to Econometrics	6

Financial Accounting III	6	Financial Derivatives Analysis	6
		Fixed Income Securities	6
<b>Three courses from:</b>	18	<b>Two courses from :</b>	12
➤ Introduction to Econometrics	6	➤ Financial Accounting III	6
➤ Financial Derivatives Analysis	6	➤ Management Accounting	6
➤ Labor Law	6	➤ English VI	6
➤ English VI	6	➤ Microeconomic Theory II	6
➤ Real Estate Finance	6	➤ Capital Markets and Monetary Policy	6
➤ Actuarial I (only for students who have not chosen it in the 8th semester)	6	➤ Actuarial I (only for students who have not chosen it in the 8th semester)	6
		➤ Real Estate Finance	
<b>Total</b>	30		30

<b>FOURTH YEAR (60 ECTS)</b>			
<b>SEVENTH SEMESTER</b>			
<b>Accounting Major</b>		<b>Finance Major</b>	
<b>Course Title</b>	<b>Credits</b>	<b>Course Title</b>	<b>Credits</b>
Taxation	6	Shipping Finance	6
Accounting for Financial Instruments	6	International Finance	6
Auditing	6	Alternative Investments	6
<b>Two courses from:</b>	12	<b>Two courses from :</b>	12
➤ Business Policy and Strategy	6	➤ Taxation	6
➤ Public Sector Accounting	6	➤ Accounting for Financial Instruments	6
➤ Shipping Finance	6	➤ Computational Finance	6
➤ International Finance	6	➤ Business Policy and Strategy	6
➤ Computational Finance	6	➤ Mathematics for Economists III	6
➤ Actuarial II	6	➤ Mathematical Economics	6
➤ Internship		➤ Actuarial II	6
		➤ Internship	6
<b>Total</b>	30		30
<b>EIGHTH SEMESTER</b>			
<b>Accounting Major</b>		<b>Finance Major</b>	

Course Title	Credits	Course Title	Credits
Financial Statement Analysis and Business Valuation	6	Financial Statement Analysis and Business Valuation	6
Tax Accounting	6	Risk Management	6
<b>Three courses from:</b>	18	<b>Three courses from:</b>	18
➤ Management Control Systems	6	➤ Advanced Computational Finance	6
➤ Advanced Computational Finance	6	➤ Advanced Econometrics	6
➤ European Law	6	➤ Management Control Systems	6
➤ Risk Management	6	➤ Special Topics of Portfolio Management	6
➤ E-Business	6	➤ Tax Accounting	6
➤ Internal Auditing	6	➤ Theory of Financial Decision Making	6
➤ Actuarial I (only for students who have not chosen it in the 6th semester)	6	➤ Stochastic processes with applications in derivative markets	6
➤ Internship	6	➤ Actuarial I (only for students who have not chosen it in the 6th semester)	6
		➤ Internship	6
<b>Total</b>	30		30

#### B1.13. Type of study

The program is a full-time study program.

#### B1.14. Exam Regulations and Grading Scale

The program follows the examinations regulation approved by the AUEB Senate that has been adopted by the Department of Accounting and Finance. The regulation is posted on the AUEB website at [http://www2.aueb.gr/pages/news/attachments/1749\\_a.pdf](http://www2.aueb.gr/pages/news/attachments/1749_a.pdf).

The grading scale is set from zero (0) to ten (10). The passing grade is five (5) or higher.

##### The grading scale is as follows

10,00 – 8,51 Excellent

8,50 - 6,51 Very Good

6,50 - 5,00 Good

< 5,00 Fail

### **B1.15. Laboratories**

Each Laboratory has as its mission:

To cover at the undergraduate level the teaching and research needs of the Department and, more generally, to cover at the undergraduate and postgraduate level the teaching and research needs of the other departments of Athens University of Economics and Business. The cooperation of every kind with research centers and academic institutions in Greece and abroad, provided that the scientific objectives coincide and complement each other with those of the Laboratories in a spirit of reciprocity and collective work.

The organization of scientific lectures, seminars, symposia, conferences and other scientific events, scientific publishing, event organization, and arrangement of invitations to Greek and foreign recognized scientists and other acclaimed individuals.

#### **Laboratory of Accounting Applications (AISLab)\_**

**Chairman:** Professor D. Hevas

**Scientific Subject:** The laboratory relies on Information Technology systems to cover teaching and research needs in the following fields: a) analysis of accounting information systems b) simulation of the operation of the accounting cycle of commercial, industrial, and services sector companies c) information management in decision making processes (both in terms of the internal as well as the external business environment) and d) simulation of the impact of decisions taken.

**Location:** A 33, 3<sup>rd</sup> Floor, Antoniadou Wing, Main Building, 76 Patission Str.

#### **Laboratory of Applied Finance (FinLab)\_**

**Chairman:** Professor K. Drakos

**Scientific Subject:** The laboratory covers teaching and research needs in the fields of: a) analysis of the operation of money and capital markets, b) analysis of accounting and financial information for investment decisions, c) simulation of the investment behavior of the agents operating within the framework a stock market and d) simulation of the optimization decisions for a portfolio of primary securities or their derivatives.

**Location:** 108, 1<sup>st</sup> Floor, Building of Evelpidon street, 47A Evelpidon Str. & Lefkados

#### **Business Analysis and Valuation Laboratory**

**Chairman:** Professor A. Ballas

**Scientific Subject:** The Laboratory serves teaching and research needs in the fields of: "Financial Analysis and Business Evaluation", "Audit, Prevention and Identification of Fraud", "Auditing" and "Tax Accounting".

**Location:** 206, 2<sup>nd</sup> Floor, Building of Troias Street

#### **Behavioral Finance Laboratory (BeFin)\_**

**Chairman:** Professor S. Spyrou

**Scientific Subject:** The laboratory serves research and teaching needs in the field of "Capital Markets, Money Markets and Investment Behavior" and in particular on topics related to behavioral finance. In particular, the scientific subjects of the laboratory include: Prospect Theory & Rationality, Investor Psychology & Heuristics, Predictions & Framing Effects, Herd Behavior, Investor Sentiment, Closed End Fund Puzzle and Dividend Puzzle, Investor Overreaction & Underreaction, The Limits of Arbitrage, Asset Pricing Models and Behavioral Variables, Monetary Policy and Effect on Expectations.

**Location:** 207, 2<sup>nd</sup> Floor, Building of Troias Street

### **International Shipping, Finance and Management Laboratory**

#### **Participating Departments:**

Department of Accounting and Finance (**Presiding** –School of Business)

Department of Management Science and Technology (School of Business)

Department of International and European Economic Studies (School of Economics)

**Chairman:** Professor M. Kavussanos

**Scientific Subject:** The laboratory serves research and teaching needs in the subject of "Shipping, Finance and Management". In particular, teaching and research needs to be covered include, inter alia, maritime finance, finance and administration, such as:

freight markets operation, shipping investments, new and second-hand vessel markets, ship dismantling, fuel, maritime derivatives, port finances, investment in the shipping industry, funding structures and analysis of capital sources, securities markets, the evaluation of investments and alternatives available, corporate governance, risk management, and other business administration issues.

**Location:** 207, 2<sup>nd</sup> Floor, Building of Troias Street

#### **B1.16. Optional Mobility Window**

At the Athens University of Economics and Business, a Department of European Mobility Educational Programs has been operating since 1989, to pursue the mobility of many Greek students with the aim of attending courses at European Universities, as well as the mobility of European students that undertake a period of study at the Athens University of Economics and Business, securing academic recognition.

The Program is actively involved in the **Erasmus** program on organized student exchanges for recognized periods of study through the European Credit Transfer and Accumulation System (ECTS).

Within the framework of the above program, the students of the Program may complete part of their studies at a partner European University. The scientific representatives of the exchange program are the **Assistant Professors Efthimios Demirakos** and **George Chalamandaris**.

#### **B1.17. Internship**

The Program offers the opportunity for students to work in public or private companies in the course of acquiring their degree. The internship program includes students who have successfully completed at least the first two academic years and their average grade is 6.51 and above. Under the terms of the program, students are employed at a business or public sector body or non-governmental organization from 160 to 320 hours.

The expected duration of the internship is from **1 to 3 months** (The monthly payment is EUR 270 per month of full-time work placement).

Upon completion of the internship, the student prepares a project report which is graded by the supervising professor. Upon successful completion of the process, the internship is recognized as **a 7th or 8th semester elective course and counts towards degree completion**.

The Scientific Coordinator of this program is **Assistant Professor Christos Tzovas**.

#### **B1.18. Learning at the work space**

During their studies, the students of the Department of Accounting and Finance have the opportunity to work in the context of internships at companies or organizations with the nature of work during their placement related to the subjects of the department's curriculum.



#### **B1.19. Chairman of the Program or equivalent**

The equivalent of the Program Chairman is considered to be the Head of the Department of Accounting and Finance. The current academic year of the department is headed by **Professor Spyridon Spyrou**.

#### **B1.20. Faculty Advisor**

The faculty advisor should inform, discuss and advise the students on the following issues:

1. the programme structure and the content of the courses, in order to help the students to be informed on the prerequisite modules and the required essential knowledge for the enrolment in specific modules;
2. the attendance of tutorials and the use of the department's laboratories in order to facilitate the students' understanding of accounting and finance concepts, methods and techniques, and improve their academic performance in the written examinations;
3. the content of the optional modules, in order to help the students' choice of modules that are closer to their personal and academic interests;
4. the results of the written examinations;
5. their available choices for postgraduate studies either in Greece or abroad;
6. the professional prospects for a career in accounting and finance and the students' entrance in the job market either during their studies (internships) or after their graduation from the university;
7. any other issue that is related to their studies at the Athens University of Economics and Business.

The faculty advisors of the Department of Accounting and Finance are the following:

First year of studies: **Afroditi Papadaki** and **Athanasios Episcopos**.

Second year of studies: **Dimosthenis Hevas** and **George Chalamandaris**.

Third year of studies: **Apostolos Ballas** and **Leonidas Rompolis**.

Fourth year of studies: **Efthimios Demirakos** and **Dimitrios Georgoutsos**.

#### **B1.21. Professional profile of the graduates**

Graduates of the Program have distinguished careers in the private and public sectors, both in Greece and abroad. Their positions include the finance departments of public and private companies, commercial and investment banks, financial institutions, brokerage firms, consultancy companies, insurance companies, real estate companies, shipping companies and audit firms.

#### **B1.22. Access to further studies**

Graduates of the Program can continue their education by attending a postgraduate program in the subjects of Accounting and Finance or Business Administration in general both in Greece and abroad. They can then enroll in a doctoral degree program that will enable them to pursue academic or research careers at universities, research centers and research departments of financial institutions in Greece and abroad.

The Department of Accounting and Finance is responsible for the organization and operation of three Postgraduate Programs:

- Postgraduate Program in Accounting and Finance (full-time and part-time study)
- Postgraduate Program in Financial Management (English-speaking, full-time and part-time)
- Interdisciplinary Postgraduate Program in International Shipping, Finance and Management (English-speaking, full-time and part-time)

## **B2. DESCRIPTION OF THE COURSES**

### **FIRST YEAR COURSES**

#### **FIRST SEMESTER (WINTER)**

**Course title:** Principles of Financial Accounting

**Course code number:** 7102

**Type of course:** CORE CURRICULUM (COMPULSORY COURSE) GENERAL BACKGROUND

**Language of instruction:** Greek

**Year of study:** 1<sup>st</sup> year

**Semester of study:** 1<sup>st</sup> semester (Winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** L. Doukakis, A. Papadaki

**Course description:** The purpose of the course is to present the fundamental accounting concepts, which form the necessary theoretical background for the preparation and use of Financial Statements. The additional purpose is to learn the procedures needed to identify different economic events, integrate them into the accounting system and present their financial consequences. Consequently, the course emphasizes both theoretical as well as practical issues in the preparation of a company's Financial Statements under International Financial Reporting Standards. The following sections are covered:

Chapter 1 The theoretical framework of Financial Accounting

Chapter 2 Statement of Financial Position

Chapter 3 Income Statement, Comprehensive Income Statement, Statement of Changes in Equity

Chapter 4 The Accounting Cycle

Chapter 5 Receivables

Chapter 7 Property, Plant & Equipment - Depreciation

**Learning Outcomes:** Upon successful completion of the course, students will be able to: 1) Understand the theoretical framework of Financial Accounting. 2) Prepare the financial statements of a company. 3) Analyze financial events as well as their impact on the fundamental accounting equation. 4) Carry out journal entries, adjusting entries and create trial balances; and 5) understand issues related to the depreciation of non-current assets and trade receivables.

**Recommended bibliography:**

1. GHICAS, D., PAPADAKI, A. FINANCIAL ACCOUNTING, 4<sup>th</sup> EDITION (2012)

2. BALLAS APOSTOLOS, HEVAS DIMOSTHENIS, FINANCIAL ACCOUNTING

**Method of assessment / grading:** Written exam at the end of the semester (100%).

**Mode of lecture delivery and teaching and learning methods:** Lectures in class.

**Course title:** Business Statistics

**Course code number:** 7111

**Type of course:** CORE CURRICULUM (COMPULSORY COURSE) / SPECIAL BACKGROUND

**Language of instruction:** Greek

**Year of study:** 1<sup>st</sup> year

**Semester of study:** 1<sup>st</sup> semester (Winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** P. Merkouris, S. Psarakis

**Course description:** This course is an introduction to Statistics for the Department of Accounting and Finance. The course program covers the following sections: Collection of information and ways of presenting them. Descriptive statistics (measures of central tendency-position, dispersion, skewness, kurtosis). Basic probability calculus. Discrete and continuous distributions (Binomial, Poisson, Normal). Sampling distributions (normal,  $\chi^2$ , t, F). Statistical inference, confidence intervals and hypothesis testing (for the mean, percentage and dispersion).

**Learning Outcomes:** This course is an introduction to Statistics for the Department of Accounting and Finance. The course program covers the following sections: Collection of information and ways of presenting them. Descriptive statistics (measures of central tendency-position, dispersion, skewness, kurtosis). Basic probability calculus. Discrete and continuous distributions (Binomial, Poisson, Normal). Sampling distributions (normal,  $\chi^2$ , t, F). Statistical inference, confidence intervals and hypothesis testing (for the mean, percentage and dispersion).

**Recommended bibliography:**

1. Angelis V., Dimaki C. (2010) "Statistics Volume A' Descriptive Statistics, Probability, Statistical Inference", "sofia" Publications.
2. Chalikias I. (2009). "Statistics. Methods of Analysis for Business Decisions", 3<sup>rd</sup> edition, Rosili.

**Method of assessment / grading:** Written exam at the end of the semester (100%).

**Mode of lecture delivery and teaching and learning methods:** Lectures in class, extra tutorials (exercises).

**Course title:** Applied Computer Science

**Course code number:** 7121

**Type of course:** CORE CURRICULUM (COMPULSORY COURSE) / SPECIAL BACKGROUND

**Language of instruction:** Greek

**Year of study:** 1<sup>st</sup> year

**Semester of study:** 1<sup>st</sup> semester (Winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** G. Chalamandaris, K. Vasileiadis

**Course description:** Reference to operating systems and application systems. Focus on MS Office's Word, PowerPoint, Excel, and Access packages, focusing on Excel. Student training in the handling and development of advanced applications in Excel, using logical, mathematical and statistical functions. Data processing, creation of tables, graphs and inferences. Introduction to the use of Macros. Database design, processing and management.

**Learning Outcomes:** The aim of the course is to acquire basic knowledge of computers and how they function, as well as the composition of the projects - and the relevant presentations – that is required during their studies but also in their professional lives at a later stage.

**Recommended bibliography:**

Giaglis G., (2012), Principles of Operation & Programming of Computers, AUEB Publications, ISBN 978-960-9443-09-8, (library code: 005.1 GIA).

Xarchakos K., and Karolidis D., (2011), Easy learning of Microsoft Office 2010, Avakas Publications, ISBN 978-960-6789-11-3.

Xarchakos K., and Karolidis D., (2011), Easy learning of Microsoft Office 2010. Theory - Functions - VBA - Macros - Applications, Avakas Publications, ISBN 978-960-6789-10-6, (library code: 005.43 KAR).

Beekman G. και Beekman B., (2015), Introduction to Computing, Giourda Publications, ISBN 978-960512-604-9, (library code: 004 BEE).

**Method of assessment / grading:** Written exam at the end of the semester (100%).

**Mode of lecture delivery and teaching and learning methods:** Lectures in class, Lab tutorials/exercise.

**Course title:** Mathematical Calculus in Business & Economic Problems

**Course code number:** 7131

**Type of course:** CORE CURRICULUM (COMPULSORY COURSE)

**Language of instruction:** Greek

**Year of study:** 1<sup>st</sup> year

**Semester of study:** 1<sup>st</sup> semester (Winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** A. Tsekrekos, S. Bekiros

**Course description:** The aim of the course is to cover in detail some basic principles and methods of mathematical calculus and linear algebra that are considered necessary for the specialized financial analyst / accountant today.

In order to achieve this goal, the course teaches topics from the subjects of algebra, analysis, differential and integral calculus, which also constitute the mathematical background of the quantitative tools of modern financial and accounting theory.

**Learning Outcomes:** Upon successful completion of the course the student knows the basic principles of linear algebra and differential and integral calculus. They also understand that these fundamental principles can, through their application, provide answers to real business problems.

**Recommended bibliography:**

1. M. KAVUSSANOS, APPLICATIONS OF MATHEMATICS IN BUSINESS AND ECONOMICS PROBLEMS

2. A. XEPAPADEAS – I. GIANNIKOS, MATHEMATICAL METHODS IN ECONOMICS

3. STRANG GILBERT, LINEAR ALGEBRA AND ITS APPLICATIONS

4. M.Hoy, J. Livernois, C. McKenna, T. Stengos, I. Kiritsis, Mathematics for Economics

**Method of assessment / grading:** Written exam at the end of the semester or Written exam at the end of the semester plus written projects / exercises solved at home and may add up to 1,5 units to the final grade.

**Mode of lecture delivery and teaching and learning methods:** Lectures in class, extra tutorials (exercises).

**Course title:** Civil Law

**Course code number:** 7141

**Type of course:** CORE CURRICULUM (COMPULSORY COURSE)

**Language of instruction:** Greek

**Year of study:** 1<sup>st</sup> year

**Semester of study:** 1<sup>st</sup> semester (Winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** D. Tsiaklagkanou

**Course description:** Law - division of law - branches of law - rule of law - sources of rules of law - formal and substantive rule of law, beginning and end of law.

Start and end of natural and legal entity - concept - legal entities – discrimination.

The right – discrimination of rights - acquisition, loss, exercise of rights - protection of rights.

Jurisdiction - Types, Conditions, Defects - Principles of Law of Obligations - creation and extinction of obligation- Irregular Evolution of obligations

Conditions - deadline - limitation - liability - representation - proxy

Tort law - unjustified enrichment - contractual liability

Property - Fundamental Principles of Real Law - Possession - Ownership - easement - Pledge- Mortgage

**Learning Outcomes:** The subject of Civil Law introduces the student to the essential knowledge of the fundamental introductory concepts of law and, in particular, of civil law as the main branch of private law. The student will be familiar with the basic legal concepts and institutions of civil law.

**Recommended bibliography:**

1. Civil Law, Sevastidis Ch., Tziolas Publishing 2016.
2. Introduction to Civil Law, Varka – Adami Alexandra

**Method of assessment / grading:** Written exam, written projects, participation, quiz.

**Mode of lecture delivery and teaching and learning methods:** Interactive with natural presence, quiz, questionnaires, use of the e-class system and slides, communication with students.

## **SECOND SEMESTER (SPRING)**

**Course title:** Principles of Business Administration

**Course code number:** 7101

**Type of course:** CORE CURRICULUM (COMPULSORY COURSE) - GENERAL BACKGROUND

**Language of instruction:** Greek

**Year of study:** 1<sup>st</sup> year

**Semester of study:** 2<sup>nd</sup> semester (Spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** External partner

**Course description:** The content of the course includes the following basic topics:

I. Organizations and Organizational Theory, Approaches to the Concept of Business, Historical Route of Administrative Thought

II. The concept of Ethics and Social Responsibility

III. Organizational Culture and Cultural Diversity

IV. The Business Environment.

V. System Theory and Business Objectives

VI. Functions of the business. Conceptual Determination of Business Administration & Management Operations, Skills, Executives.

VII. The Operation of Planning, Decision Making Processes

VIII. The Operation of the Organization, Fundamentals of Organizational Structure.

IX. The Operation of Control

X. New issues in Business Administration, such as Entrepreneurship, International Business Administration

**Learning Outcomes:** The course aims to introduce students to the basic concepts of Business Administration. Knowledge of the subject matter of the course is a prerequisite for the efficiency and success of all executives, regardless of their field of expertise, as well as regardless of the company or organization they work in. The aim of the course is to develop the framework within which Management is exercised, as well as its content and functions.

**Recommended bibliography:**

1. Robbins Stephen P., Decenzo David A., Coulter Mary, Business Administration: Principles and Applications, Kritiki

2. Slocum, J.W., Jr., Jackson, S. E., and Hellriegel, D. (2011) Management, Volumes A+B, P. I. Publishing, Athens

**Method of assessment / grading:** Written exam at the end of the semester, Essay questions, short essay questions, Problem solving, Public presentation (100%), 10% extra credit from an optional written project.

**Mode of lecture delivery and teaching and learning methods:** Lectures in Class, Field exercise, Guest Lectures.

**Course title:** Commercial & Corporate Law

**Course code number:** 7112

**Type of course:** CORE CURRICULUM (COMPULSORY COURSE)

**Language of instruction:** Greek

**Year of study:** 1<sup>st</sup> year

**Semester of study:** 2<sup>nd</sup> semester (Spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** A. Rokas

**Course description:** The course deals with companies in commercial law and in particular with private companies (general partnership, limited partnership, silent/undisclosed partnership) and companies with share capital (S.A., limited liability company, private capital company, cooperatives and special liability companies). It also includes regulations pertaining to bankruptcy and restructuring. A particular aspect of the course is the listed company, i.e. the company that has raised capital through the capital markets and the stock markets and whose securities are traded on a relevant market. The course covers both the study of theoretical issues and the solution of practical problems related to the above subjects of commercial life. These issues are analyzed both on the basis of the national system as well as the special rules of the European Union.

**Learning Outcomes:** Upon completion of the course the students will:

- acquire specialist knowledge on commercial law companies and bankruptcy issues in the domestic system as well as knowledge on listed companies under EU capital market rules
- be able to deal with legal issues related to the operation of companies and how to deal with company bankruptcy
- acquire the necessary familiarity in solving practical issues arising during the application of the relevant rules
- build knowledge and shape a culture on the above under the framework of the "single market" (internal market) in Europe

**Recommended bibliography:**

1. IOANNIS ROKAS, Commercial Law, NOMIKI BIBLIOTHIKI Publications, 2015
2. IOANNIS ROKAS, COMPANIES, INTRODUCTION TO THE LAW OF COMMERCIAL LAW COMPANIES, NOMIKI BIBLIOTHIKI Publications, 2011

**Course title:** Application of Statistical Methods in Business Problems

**Course code number:** 7122

**Type of course:** CORE CURRICULUM (COMPULSORY COURSE)

**Language of instruction:** Greek

**Year of study:** 1<sup>st</sup> year

**Semester of study:** 2<sup>nd</sup> semester (Spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** E. Tsompanaki

**Course description:** Correlation coefficient. Statistical Significance Test of Correlation coefficient. Simple linear regression. Estimation of the regression equation. Ordinary least squares regression

method. Coefficient of Determination. Predictions. Elasticity. Curvilinear correlation. Correlation analysis. Multiple regression. Estimation of the multiple regression equation. Multiple coefficient of determination. Statistical significance tests. Collinearity. Analysis of variance.

**Learning Outcomes:** After successful completion of the course the students will be able to:

- Understand the difference between an independent and dependent variable.
- Find the regression equation linking the independent variable or the independent variables with the dependent variable.
- Perform statistical tests for simple and multiple regression equations.
- Make predictions based on the single or multiple regression equation.
- Know what analysis of variance entails.

**Recommended bibliography:**

1. IOANNIS PANARETOS, LINEAR MODELS WITH EMPHASIS ON APPLICATIONS
2. Ioannis Chalikias, Statistical Analysis Methods for Business Decisions with CD, Rosili Publications, 2009

**Course title:** Microeconomic Theory I

**Course code number:** 7132

**Type of course:** CORE CURRICULUM (COMPULSORY COURSE)

**Language of instruction:** Greek

**Year of study:** 1<sup>st</sup> year

**Semester of study:** 2<sup>nd</sup> semester (Spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** External partner

**Course description:** During the lectures the areas to be discussed are the following: Methodology of economic analysis. Problems of financial institutions. Financial systems. Modern financial systems and their characteristics. Production and opportunity cost. Marginal analysis and economic decisions. Pricing policy. Mediation in the mechanism of prices and its effects, Consumer behavior and utility theory. Theory of production and cost in the short and long term. The structure of the market and the behavior of the business. Prices and production under conditions of full competition, monopoly, monopolistic competition and oligopoly.

**Learning Outcomes:** The aim of the course is to familiarize students with some basic concepts of microeconomic theory.

**Recommended bibliography:**

Robin Bade, Michael Parkin, Edt. K. Bourlakis, I. Chatzidimitriou, Microeconomic Theory and Practice with CD: Theory and Practice + CD, Rosili Publications, 2010



**Course title:** Financial management

**Course code number:** 7142

**Type of course:** CORE CURRICULUM (COMPULSORY COURSE)

**Language of instruction:** Greek

**Year of study:** 1<sup>st</sup> year

**Semester of study:** 2<sup>nd</sup> semester (Spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** A. Episcopos

**Course description:** This is a basic course in Finance aimed at introducing students to investment decisions of companies. The course deals with topics such as: Time value analysis of money. Valuation of bonds and stocks. Methods of evaluating investment projects, net present value and internal rate of return. Comparison of methods and other evaluation issues. Decision making using the net present value method. The relationship between performance and risk in the context of portfolio theory. The Asset Valuation Model. Cost of capital and investment valuation under risk. Investing and value-seeking.

**Learning Outcomes:** By completing the course the student will be able to understand the basic financial methods and models regarding the valuation of investment projects and the valuation of stocks and bonds in a state of uncertainty.

**Recommended bibliography:**

1. EPISKOPOS ATHANASIOS, CORPORATE FINANCE: THEORY AND PRACTICE. AUEB Publications, 2014
2. DRAKOS ANASTASIOS, KARATHANASIS GEORGIOS, CORPORATE FINANCIAL MANAGEMENT, BENOS Publications, 2010

## **SECOND YEAR COURSES**

### **THIRD SEMESTER (WINTER)**

**Course title:** Financial Accounting I

**Course code number:** 7103

**Type of course:** CORE CURRICULUM (COMPULSORY COURSE)

**Language of instruction:** Greek

**Year of study:** 2<sup>nd</sup> year

**Semester of study:** 3<sup>rd</sup> semester (Winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** D. Hevas, A. Ballas

**Course description:** The course aims to familiarize students with concepts of Financial Accounting Theory and Practice with an emphasis on the accounting monitoring of events mainly pertaining to Assets and their valuation. Emphasis is placed on the valuation rules that are based on current (Greek and International) Accounting Standards.

To attend the course students should be familiar with the basic principles and concepts of Accounting taught in the course "Principles of Financial Accounting".

**Learning Outcomes:** At the end of the semester, students will have obtained knowledge of:

- The accounting treatment of provisions for contingencies and write-downs of assets
- Recognition and measurement of revenue
- The accounting treatment of fixed assets and the calculation of their depreciation
- Monitoring and valuation of inventories
- The accounting treatment of receivables (creation, valuation, utilization) and the methods to form provisions for bad debt
- The accounting monitoring and valuation of securities and cash
- The use of transit Asset and Liability accounts (prepayments and accrued income, accruals and deferred income) and memorandum accounts
- The accounting for short-term transactions related to receivables, securities, liabilities and foreign currency

**Recommended bibliography:**

Ballas, A & D. Hevas. 2016. Financial Accounting, 4<sup>th</sup> Edition, E. Benou Publications

**Method of assessment / grading:** Assessment of the students in the course is made by a written examination at the end of the semester during the January examination period. The score is in the range of 0 to 10 and the minimum passing grade is 5.

**Mode of lecture delivery and teaching and learning methods:** Teaching includes two two-hour lectures per week, with particular emphasis on the presentation of theoretical accounting concepts. The theoretical presentation is accompanied by a set of exercises solved on-the-spot during lectures with the participation of students that help students understand the various topics and familiarize themselves with Financial Accounting and especially accounting for Assets. The course is complemented by a two-hour tutorial aiming to solve additional exercises and to discuss students' questions. In extraordinary cases, an additional tutorial will be held to discuss theoretical issues.

**Course title:** Mathematics for Financial Analysis

**Course code number:** 7113

**Type of course:** CORE CURRICULUM (COMPULSORY COURSE)

**Language of instruction:** Greek

**Year of study:** 2<sup>nd</sup> year

**Semester of study:** 3<sup>rd</sup> semester (Winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** L. Rompolis

**Course description:** The course presents the mathematical techniques developed to solve problems related to the financing of businesses, households and states, investment valuation, portfolio management, and financial decision making in general. These techniques are also used in the valuation of securities and financial products. They apply to issues related to financial topics, such as bank deposit accounts, loans, bonds and capitalization systems. The main sections covered by the course are: simple and complex capitalization, discounting and compounding, annuities, loans, bonds and financial derivatives, and investment valuation.

**Learning Outcomes:** Upon successful completion of the course students will be able to learn the basic mathematical tools of Finance. Through these, they can solve problems associated with key banking functions such as the compounding of a savings account or the discounting of a promissory note, but also more complex banking problems such as the repayment of a fixed or floating rate loan with various ways of allocating interest and capital amortization. Also, at the end of the course, students will be able to evaluate the most important securities traded on the markets, such as stocks, bonds and swaps. Finally, they will know how an investment project is evaluated by a company and what are the key variables that affect the value of that investment.

**Recommended bibliography:**

1. Mageirou, E.F., 2003, "Mathematics for Economics and Investment Valuation", Gutenberg Publications, 1993

2. Zymbidis A.A., 2010, "Financial Mathematics", AUEB Publications  
University Notes

**Method of assessment / grading:** Written examination at the end of the semester, Problem solving.

**Mode of lecture delivery and teaching and learning methods:** Lectures in class.

**Course title:** Components of Business Solutions Development with the help of Information Technology

**Course code number:** 7123

**Type of course:** CORE CURRICULUM (COMPULSORY COURSE)

**Language of instruction:** Greek

**Year of study:** 2<sup>nd</sup> year

**Semester of study:** 3<sup>rd</sup> semester (Winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** N. Loukeris

**Course description:** The course aims to educate students in the handling and development of advanced applications in the MS-Excel program as well as in the processing of databases. During the course the students learn how to create automated solutions-mechanisms, which contribute to the processing of accounting and financial data with the use of information technology. The course includes the following sections: Database Design and Management, Macro Usage, Statistical Functions, Mathematical Functions, Data Tables with One Variable, Data Tables with Two Variables, Scenario Management, Linear Programming Problem Solving, Macro programming.

**Learning Outcomes:**

- Managing Data in MS Excel (Creating a Data Sheet, Defining or Selecting a Database, Using a Data Form, Single-level Sorting, Undo a Sort, Multi-Level Sorting, Applying a Filter, Custom Filtering, Working with a Filtered Data List, Removing a Filter, Demonstration of partial sums, Creating nested partial sums, Using more than one syntax, Removing a partial sum, Advanced filters, Application in Advanced filters)
- Using Functions in MS-Excel (Developing Applications Using Functions, Correcting Mistakes, Explaining a Key Input Window, Absolute and Relative Addresses, Basic

Concepts for Functions, Composition Modules: Values, Cell Numbers and Operators, Numerical Operators, Layout Calculations in Excel, Checking Workbook Calculations, Writing Your Own Functions, Embedding)

- Apply PivotTable Applications (PivotTable Reports, Pivot Table Use, Create a PivotTable Report, Alternative Ways to Create a PivotTable Report, Observations on Creating a PivotTable Report, Using External Data Sources, Changing Field Settings of pages, Pivot Table Reports Types, Pivot Chart Example, Data sources for a Pivot Table report, Data Source Organization, Use of filtered data, Creating partial and total sums, Data fields and cells, Summary Functions, Shaping a Pivot Table, Structure of a Pivot Table Report, Row Fields, Column Fields, Element, Page field, Data field, Data area)
- Data Table creation and management (one-variable Data tables, Practice in creating a one-variable data table, Correcting a one-variable Data Table, Adding Multiple Forms to a one-variable Data Table, Observing Data Table Formatting, An Extension: Creating Desired scenarios, two variable data table, graphical representation of the results of the analysis with data tables)
- Develop an MS-Excel application (Stages, Creation of Validation rules at Data Entry, Data Validation dialog box, Input Message Tag in the Data Validation dialog box, An Input Message Display Sheet, The Error Alert tab of the Data Validation dialog box, Protection of sheet and workbook contents, Unlock selected cells, Protect Sheet dialog box, Protect Workbook dialog box, Create and use range names, Define Name dialog box, Display Domain Names, Using Domain Names on a Chart, Macroviruses and Excel Security Features, Security dialog box, Making macros with macrorecorder, Record Macro dialog box, Run macros: Frame Macro dialog, Macro correction and display using Visual Basic Editor, VBA editor, Macro button assignment, Forms toolbar, A macro button on a worksheet)
- Macros and Macro Programming in Visual Basic for Applications in MS Excel (Macros language, Visual Basic Editor display, Project Explorer windows and Properties Window, Commonly used terms in VBA for Excel, Important definitions, Macro logger, Range Selection, Common Objects, Application, Command Bar, Range, Variables, Variable Data Types, Variable Usage Ratio, Constants, Message Box Function, Input Box Function, Repeats, Internal and External Repeat Commands, Exit Command Repeat, decision commands, worksheet functions, functions defined by the user, user forms, appearance and form loading)
- Solving linear programming problems in Microsoft Excel (Theoretical background of Linear Programming, Inertial constraints, Representation of Solutions)

**Recommended bibliography:**

1. D. KAROLIDIS, K. XARHAKOS, Microsoft Office Excel 2010: Theory - Functions - VBA - Macros - Applications, Avakas Publications, 2011

**Method of assessment / grading:** assessment formed, written examination at the end of the semester, essay questions, problem solving, and practical exercises.

**Mode of lecture delivery and teaching and learning methods:** Lectures in class, lab exercise

**Course title:** Human Resource Management

**Course code number:** 7134

**Type of course:** CORE CURRICULUM (COMPULSORY COURSE)

**Language of instruction:** Greek

**Year of study:** 2<sup>nd</sup> year

**Semester of study:** 3<sup>rd</sup> semester (Winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** E. Galanaki

**Course description:** The purpose of the course is to introduce students to the concept and practices of Human Resource Management (HRM), which is one of the most critical executive functions in a business. It aims at the participants' understanding of the functions of HRM, the feasibility of the study and the particular difficulties of the Management of People. The course is divided into two broad sections: Organizational Behavior Principles and Human Resource Management Practices.

In particular, the following topics will be developed:

1. Principles of Organizational Behavior

1.1 Basic Factors of Organizational Behavior

1.2 Leadership

1.3 Motivation

1.4 Communication

1.5 Organizational Culture

2. Human Resource Management Practices

2.1 General Human Resource Management

2.2 Human Resources Planning

2.3 Recruiting (Schedule, Attracting and Selecting Employees)

2.4 Employee Assessment

2.5 Employee Remuneration Systems

**Learning Outcomes:**

- Describe and discuss the main trends in human capital management
- Manages basic career development issues and promotes his / her professional agenda

**Recommended bibliography:**

1. PAPALEXANDRI N., BOURANTAS D., HUMAN RESOURCE MANAGEMENT, Benou Publications, 2003

2. DESSLER GARY, HUMAN RESOURCE MANAGEMENT, Kritiki Publications, 2015

3. NOE RAYMOND A., HOLLENBECK JOHN R., GERHART BARRY, HUMAN RESOURCE MANAGEMENT, Papazisis Publications, 2010

**Method of assessment / grading:** Written exam at the end of the semester (80%), short essay questions, Problem solving, Written assignment (20%), Public presentation.

**Mode of lecture delivery and teaching and learning methods:** Lectures in class, Laboratory exercise, Study and analysis of bibliography, conducting research, project writing, Self-study, Lectures by scientists.

**Course title:** Corporate Finance

**Course code number:** 7143

**Type of course:** CORE CURRICULUM (COMPULSORY COURSE)

**Language of instruction:** Greek

**Year of study:** 2<sup>nd</sup> year

**Semester of study:** 3<sup>rd</sup> semester (Winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** A. Episcopos, M. Kavussanos

**Course description:** The course covers the following: Financial Analysis, Cost of Capital, Capital Structure - Operational and Financial Risk, Capital Structure Theory, Dividend Theory and Policy, Methods of Share Capital Increase, Working Capital, Inventory Management, Credit Policy, Cash Management, Short-term investment management (securities)

**Learning Outcomes:** At the end of the course the student will be able to:

- Identify and describe issues related to corporate financial analysis, cost of capital, capital structure, dividend theory and policy of companies, how to increase share capital, the concept of working capital, inventory management, cash and short-term investments (securities) and their credit policy. In addition, it will be able to choose between alternative ways of increasing share capital, dividend policy and credit policy under different circumstances.
- It distinguishes between different forms of business, explains the differences between them and how to choose the most appropriate form, depending on their goals and operational environment.
- Compute the degree of leverage of companies, the value of the rights and shares in the share capital increase, the company's cost of capital, the optimal degree of leverage for companies.

**Recommended bibliography:**

1. Episkopos Athanasios, Corporate Finance, Theory and Practice, AUEB Publications, 2014.
2. Drakos Anastasios, Karathanasis Georgios, Corporate Financial Management, Benos Publications, 2010

**Method of assessment / grading:** written exam and optional project.

**Mode of lecture delivery and teaching and learning methods:** Lectures, use of the internet, brochures with special topics of the course and financial problems analyses.

#### **FOURTH SEMESTER (SPRING)**

**Course title:** Cost accounting

**Course code number:** 7104

**Type of course:** CORE CURRICULUM (COMPULSORY COURSE)

**Language of instruction:** Greek

**Year of study:** 2<sup>nd</sup> year

**Semester of study:** 4<sup>th</sup> semester (Spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** O. Vlismas

**Course description:** The course aims to create for the students the foundations for understanding Cost Accounting both in terms of theory as well as practice and presents its basic concepts, principles and applications.

**Learning Outcomes:** Upon successful completion of the course, students will be able to understand:

- Cost concepts and terms such as the cost of raw materials, direct labor, general industrial expenses, and cost accounting for the calculation of production costs mainly in the context of industrial companies.
- Features and method of monitoring the cost of company products that are produced either on-demand or mass-produced.
- The way in which corporate cost systems are organized to concentrate costs and relate indirect costs to products.
- Costing techniques of total cost, marginal costing and standard costing.

**Recommended bibliography:**

1. BALLAS APOSTOLOS, HEVAS DIMOSTHENIS, COST ACCOUNTING, Benos Publications, 2014
2. Georgios Venieris, Sandra Cohen, Maria Koletsi, Cost accounting: Principles and applications, P.I Publishing, 2005

**Method of assessment / grading:** Written exam at the end of the semester.

**Mode of lecture delivery and teaching and learning methods:** Lectures in class.

**Course title:** Financial Accounting II

**Course code number:** 7114

**Type of course:** CORE CURRICULUM (COMPULSORY COURSE)

**Language of instruction:** Greek

**Year of study:** 2<sup>nd</sup> year

**Semester of study:** 4<sup>th</sup> semester (Spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** Ch. Tzovas, D. Hevas

**Course description:** Corporate accounting and accounting monitoring of liabilities

**Learning Outcomes:** Understanding elements of corporate accounting and accounting monitoring of liabilities

**Recommended bibliography:**

1. D. Hevas, "Advanced Financial Accounting" (Benos Publications – 2010).
2. Christos Negkakis, "Corporate Accounting", Sofia Publications, 2012

**Method of assessment / grading:** Written exam at the end of the semester.

**Mode of lecture delivery and teaching and learning methods:** Lectures in class, tutorials (exercises).

**Course title:** Money and capital markets

**Course code number:** 7124

**Type of course:** CORE CURRICULUM (COMPULSORY COURSE)

**Language of instruction:** Greek

**Year of study:** 2<sup>nd</sup> year

**Semester of study:** 4<sup>th</sup> semester (Spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** S. Spyrou, External partner

**Course description:** The purpose of the course is to present and analyze the products of the money and capital markets, their basic valuation rules, their characteristics and the way the individual markets operate. In particular, we will deal with fixed income markets, stock markets, derivatives markets, and money markets. Emphasis will be placed on the meaning and importance of the efficient functioning of the markets and the analysis of the properties to be met for its existence.

**Learning Outcomes:** At the end of the lectures the student should possess the basic principles of the operation of modern Money and Capital Markets. Particular emphasis is placed on the results of the recent literature. Examples and applications are developed with the help of appropriate software programs such as Excel.

**Recommended bibliography:**

1. S. Spyrou, "Money and Capital Markets", Benos Publications, 2013
2. Thomadakis S., Xanthakis E., "Money and Capital Markets", Stamoulis Publications, 2011

**Course title:** Advanced Corporate Finance

**Course code number:** 7144

**Type of course:** CORE CURRICULUM (COMPULSORY COURSE)

**Language of instruction:** Greek

**Year of study:** 2<sup>nd</sup> year

**Semester of study:** 4<sup>th</sup> semester (Spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** G. Leledakis

**Course description:** The purpose of the course is to teach in detail the fundamental concepts and techniques of corporate finance at a higher level. The course will systematically cover a range of modern corporate finance methods, such as Factoring, Leasing, and Venture Capital. It will also cover a range of issues of major practical interest for businesses, capital markets and other stakeholders involved in corporate activity, such as the construction of privately funded projects



of public interest, franchising, mergers and acquisitions, corporate governance, and stock option plans.

**Learning Outcomes:** Students who have successfully passed the course are able to analyze topics such as: receivables financing, leasing, venture capital, projects of public interest privately funded, and franchise. They are able to classify mergers and acquisitions (M & A) based on the forms of integration and types of mergers, explain the incentives that lead to mergers and acquisitions, distinguish and describe before the offer and after the takeover bid the protective measures to prevent an aggressive takeover. In addition, they are able to explain corporate governance, discuss the objectives and characteristics of an effective corporate governance system, discuss conflicts of interest arising between top executives and shareholders, and conflicts of interest between board of directors and shareholders, and assess direct and indirect motives that can align the interests of the senior executives with those of the company's shareholders.

**Recommended bibliography:**

1. Apostolopoulos I., (2012), Special Topics in Financial Management: Methods-Tools Applications, 3<sup>RD</sup> EDITION, Stamoulis Publications, Athens.
2. Vasileiou D., and N. Iriotis, (2018), Financial Management: Theory and Practice, 2<sup>nd</sup> edition, Rosili Publications, Athens.

**Method of assessment / grading:** Written exam at the end of the semester.

**Mode of lecture delivery and teaching and learning methods:** Lectures in class.

**Course title:** Macroeconomics

**Course code number:** 7133

**Type of course:** CORE CURRICULUM (COMPULSORY COURSE)

**Language of instruction:** Greek

**Year of study:** 2<sup>nd</sup> year

**Semester of study:** 4<sup>th</sup> semester (Spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** External partner, D. Georgoutsos

**Course description:** National Accounts - National Income Measurement. Microeconomic foundations of Macroeconomics. Consumption, Investment, Money Supply and Demand. Determination of Total Supply. Macroeconomic Policy in an Open Economy. Determination of the level of national income equilibrium. IS / LM Curve. Economic Fluctuations and Economic Policy. Stabilization Policy. Classical economists vs Keynesians. Public Expenditures and Funding. Unemployment, Inflation and Phillips Curve, Public Debt and State Budget Deficits.

**Learning Outcomes:** The student will learn the basic principles of Macroeconomics so that he can understand the way an economy functions, the alternative economic policies that are feasible every time, and the views expressed by different schools of thought.

**Recommended bibliography:**

1. Abel. A., B. Bernanke, D. Groushore, 2017 3<sup>rd</sup> edition, "Macroeconomics", KRITIKI Publications.
2. Mishkin, F., 2015. "Macroeconomics: Policy and Practice", UTOPIA.
3. Mankiw, G., Ball, L., 2013, "Macroeconomics and the Financial System", GUTENBERG.

## THIRD YEAR COURSES

### FIFTH SEMESTER (WINTER)

**Course title:** Accounting for Business Combinations

**Course code number:** 7105

**Type of course:** CORE CURRICULUM (COMPULSORY) FOR ACCOUNTING MAJOR – ELECTIVE FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 3<sup>rd</sup> year

**Semester of study:** 5<sup>th</sup> semester (winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** E. Demirakos

**Course description:** The purpose of the course is to present and thoroughly analyze the accounting of business combinations. These problems concern:

- (a) accounting for acquisitions and mergers of other entities
- (b) accounting for split-ups
- (c) the consolidation of subsidiaries
- (d) accounting for participations in joint ventures
- (e) the impairment of a cash-generating unit

**Learning Outcomes:** At the end of the course the student will be familiar with the accounting monitoring techniques of business combinations.

**Recommended bibliography:**

1. Hevas D., “Accounting for Business Combinations”, Benos Publications 2010
2. GEORGIOS ALIFANTIS, CONSOLIDATED FINANCIAL STATEMENTS, Diplographia, 2010

**Method of assessment / grading:** Written exam at the end of the semester (100%).

**Mode of lecture delivery and teaching and learning methods:** Lectures in class, tutorials.

**Course title:** Accounting Information Systems via the Internet

**Course code number:** 7116

**Type of course:** CORE CURRICULUM (COMPULSORY) FOR ACCOUNTING MAJOR – ELECTIVE FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 3<sup>rd</sup> year

**Semester of study:** 5<sup>th</sup> semester (winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** O. Vlismas

**Course description:** The primary objective of the course is to introduce students to the subject of Accounting Information Systems (AIS) as a tool for information and management of modern enterprises. Students are invited to familiarize themselves with modern techniques and technologies in the area of information systems from the point of view of accounting.

The structure of the course includes the following subject areas:

- Introduction to Accounting Information Systems (AIS). General Systems Theory. The Information System and its Operations. Accounting as an Information System. Definition of AIS and differences with the Management Information System.
- Process Documentation Methods. Entity - Relationships Diagrams. Data Flow Diagrams. Flowcharts.
- The Business Cycle/circuit and its Subsystems. Business and Accounting Procedures. Basic Structure of Accounting Procedures.
- Modeling of Business Sub-Systems (Purchasing-Import Circuit, Production Circuit, Sales-Output Circuit, Financial Circuit).
- Relational Data Bases and Resource – Event – Agent Ontology.
- Internal Audit, Fraud Control and AIS.
- E.R.P. Elements

**Learning Outcomes:** Upon successful completion of the course the students will be able to:

- Understand the operation of the AIS as a management tool for a business system.
- To familiarize themselves with the logical design of an AIS, the modeling of business and accounting processes and the basic issues of running an information system.
- Understand the feasibility and ways of operating an AIS, analyzing the procedures for collecting, recording and preserving business accounting data.
- Understand the design and modeling of accounting processes, as well as their support by an AIS.
- Understand specific issues of perception of the role of an AIS in the context of modern enterprises, such as the Ontology of Resource - Event - Agent, Control and AIS, Development of AIS etc.
- To familiarize themselves with modern technologies in the field of information systems, such as Databases, E.R.P. systems etc.

**Recommended bibliography:**

1. VENIERIS GEORGIOS, COHEN SANDRA, VLISMAS ORESTIS, ACCOUNTING INFORMATION SYSTEMS, AUEB Publications, 2015
2. D. Ginoglou, P. Tachynakis, N. Protogeros, Accounting Information Systems Computerized Accounting, Rosili Publications, 2004

**Method of assessment / grading:** Written exam at the end of the semester, Multiple choice test (100%).

**Mode of lecture delivery and teaching and learning methods:** Lectures in class, Lab exercise.

**Course title:** Portfolio Analysis and Management

**Course code number:** 7135

**Type of course:** CORE CURRICULUM (COMPULSORY) FOR FINANCE MAJOR – ELECTIVE FOR ACCOUNTING MAJOR

**Language of instruction:** Greek

**Year of study:** 3<sup>rd</sup> year

**Semester of study:** 5<sup>th</sup> semester (winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** G. Leledakis

**Course description:** The aim of the course is to describe and develop the theoretical dimension of activities related to investment management and to explore the practical applications of these theories. This course focuses on setting investment objectives and investment policy, selecting portfolio management strategies, valuing and selecting securities, measuring and evaluating portfolio performance, and hedging a portfolio through financial derivatives. The course is supported by the use of a database and software programs for the practical application of methods such as "Datastream", "E-Views" and "Investment Portfolio".

**Learning Outcomes:** Students who have successfully passed the course are able to:

- Explain the notion of required return and discuss the data related to the required return by an investor
- describe the steps of a portfolio management process
- define investment objectives and constraints
- explain why investment objectives should be expressed in terms of risk and returns
- discuss the role of investment policy in the portfolio management process
- Identify the factors that may affect the investor's risk tolerance
- formulate and apply the most important measures in the allocation of assets
- compare and contrast the strategic and tactical allocation of assets
- explain the advantage of dynamic in relation to static asset allocation
- Define the optimal portfolio and show that each investor can have a different optimal portfolio
- Identify the market portfolio and describe the role of the market portfolio in the formation of the capital market line
- identify the hypotheses of capital market theory
- describe the model of the market, asset valuation model and other multivariate models
- calculate, using the capital market line, the expected return on a stock and assess whether the share is undervalued, overvalued, or is correctly valued
- define the efficient capital market and describe and contrast the three forms of efficient markets
- discuss the impact of the phases of the economic cycle on short-term / long-term security yields
- Explain and justify the impact of international dispersion on the effective border
- calculate and interpret the value of a common stock using the dividend discount model
- Describe and estimate expected earnings per share and the earnings multiplier for a company and use the earnings multiplier to make an investment decision about the company
- calculate and interpret the following ratios P/E, P/BV, P/S and P/CF
- justify the need for a theory in active portfolio management

- discuss the rationale for passive, active and semi-active equity portfolio management
- propose a stock portfolio management strategy given the particular investment policy of an investor
- describe the fundamental principles of bond valuation
- calculate the duration of a bond
- Design a bond immunization strategy
- evaluate the performance of a portfolio
- Identify a strategy to hedge the systematic risk of a portfolio

**Recommended bibliography:**

1. TZAVALLIS I., PETRALIAS A., INVESTMENTS, AUEB Publications, 2009
2. Bodie Z., Kane A. and Marcus A., Investments, Utopia Publishing, 2014

**Method of assessment / grading:** Written exam at the end of the semester.

**Mode of lecture delivery and teaching and learning methods:** Lectures in class, tutorials, lab sessions.

**Course title:** Behavioral Finance

**Course code number:** 7205

**Type of course:** CORE CURRICULUM (COMPULSORY) FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 3<sup>rd</sup> year

**Semester of study:** 5<sup>th</sup> semester (winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** S. Spyrou

**Course description:** Traditional Models (Efficient Market Hypothesis, Asset Pricing Models), Capital Market Anomalies, Prospect Theory & Rationality, Investor Psychology & Heuristics, Predictions & Framing Effects, The Limits of Arbitrage Limits, Overreaction & Underreaction, Results in the Literature.

**Learning Outcomes:** At the end of the course students should have: understood the important elements of Behavioral Finance, critically examine research studies in this field, examine phenomena that affect investment decisions and the capital markets, understand at an advanced level the basic research tools of behavioral finance, and the implications of behavioral finance for modern financial theory and practice.

**Recommended bibliography:**

1. "Introduction to Behavioral Finance" Spyros Spyrou, 2009, Benos Publications
2. "Behavioral Finance" Alexakis-Xanthakis (2008), Stamoulis Publications

**Method of assessment / grading:** Written exam at the end of the semester, short essay questions (70%), written project (30%)

**Mode of lecture delivery and teaching and learning methods:** Lectures in class, seminars, study and analysis of the literature, research project

**Course title:** English V

**Course code number:** 7225

**Type of course:** CORE CURRICULUM (COMPULSORY) FOR ACCOUNTING MAJOR AND FOR FINANCE MAJOR

**Language of instruction:** English

**Year of study:** 3<sup>rd</sup> year

**Semester of study:** 5<sup>th</sup> semester (winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** E. Baliou

**Course description:** The course aims to provide students with the necessary skills to use the English Language so as to be able to work effectively in academic and professional environments related to different subjects and business areas (Accounting and Finance, Economics, International Professional Environment). Through the processing of targeted texts of business interest, the students can both practice their comprehension skills and also familiarize themselves with the particularities of the various specialized types of text. At the same time, at the communication level, students are engaged in producing written work with an emphasis on business correspondence. The aim is the correct and informed creation of letters, reports, memos, CVs and many other types of text used in modern companies internationally.

**Learning Outcomes:** At the end of the course, students who attend the lectures regularly are able to: a) understand and identify specialized business texts of advanced difficulty belonging to different textual subjects; b) to make the appropriate phrasal choices correctly using the English language (c) produce integrated forms of intra-company and inter-company correspondence with proper structure.

**Recommended bibliography:**

1. Business Communication: K.Karagkouni (2018) *The Art of Drafting Business Documents*. AUEB Publications, Athens,
2. Selected Academic Readings from various sources (available on e-class)

**Method of assessment / grading:** The course is evaluated through a final examination in the form of a written test divided into two parts to cover the range of subjects developed during the semester (Academic Readings - The Art of Drafting Business Documents). The contribution of each of the subjects to the final grade of the exam is proportional to the weight given to these issues during their development during the semester.

**Mode of lecture delivery and teaching and learning methods:** There is a lecture in every class and then the students work individually, in pairs or in groups in such a way as to ensure they are actively engaged in the course and not passive recipients. Q&A, problem solving and simulation techniques are used to trigger the students' interest in experiential participation. With respect to material, a projector and a computer are used during the presentation of the new material with slide presentations or audiovisual files when necessary. Occasionally, students are asked to prepare some homework, according to the Syllabus.

**Course title:** Programming II

**Course code number:** 8119

**Type of course:** ELECTIVE FOR ACCOUNTING MAJOR - ELECTIVE FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 3<sup>rd</sup> year

**Semester of study:** 5<sup>th</sup> semester (winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** D. Spinellis

**Course description:** Programming languages and environments. Compilation and execution technologies. Programming with Objects. Design, appearance and style. Creating classes. Heredity. Implementation of extensive systems: error handling and exceptions, final classes, methods and variables, interfaces, packages, structural design patterns, design patterns of behavior. Generations and threads. Description of data with XML and regular expressions. Data structures: strings, repeaters, bit sets, vectors, stacks, mappings, partition tables. File handling. Creation of graphical applications. Internet communication and use of databases.

**Learning Outcomes:** At the end of the course, students will be able to:

- be familiar with the basic methods and programming techniques used in the implementation of information systems
- design and build applications with complex features
- exploit ready-made libraries and data structures
- use design patterns
- process complex structures and data sources
- evaluate alternative technologies and alternative modes of implementation

**Recommended bibliography:**

Zakhour S. Hommel S., Royal J. Rabinovitch I., Risser T. Hoeber, M. The official Java guide, 4th edition 2007. Ch. Giourda Publications.

**Method of assessment / grading:** Performance in personalized exercises 80%, 20% multiple choice examination, 10% class participation (extra credit).

**Mode of lecture delivery and teaching and learning methods:** Lectures, tutorials, lab exercises.

**Course title:** Introduction to Marketing

**Course code number:** 5622

**Type of course:** ELECTIVE FOR ACCOUNTING MAJOR

**Language of instruction:** Greek

**Year of study:** 3<sup>rd</sup> year

**Semester of study:** 5<sup>th</sup> semester (winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** S. Dimitriadis

**Course description:** The main purpose of the course is to describe the importance of the marketing function for a company. The issues to be addressed are the following:

- The philosophy of marketing
- Strategic planning in marketing
- Market analysis

- Consumer behavior
- Market Research
- Segmentation
- Targeting
- Placement
- Product policy
- Distribution policy
- Pricing policy
- Communication-promotion policy

**Learning Outcomes:** Understanding of the marketing function for a company.

**Recommended bibliography:**

1. S. DIMITRIADIS & A. TZORTZAKI, MARKETING (PRINCIPLES, STRATEGIES, APPLICATIONS), Rosili Publications, 2010
2. W. PERREAULT, MARKETING, A STRATEGIC APPROACH, Broken Hill Publishers, 2011

**Course title:** Entrepreneurship

**Course code number:** 7188

**Type of course:** ELECTIVE FOR ACCOUNTING MAJOR – ELECTIVE FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 3<sup>rd</sup> year

**Semester of study:** 5<sup>th</sup> semester (winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** M. Boura

**Course description:** The aim of the course is for the students to understand the concept and importance of entrepreneurship and to acquire knowledge and skills related to the business process cycle: from identifying the opportunity, assessing the business idea and creating a viable business model to mobilizing resources, setting up the company, managing its growth and also exiting the business. Particular emphasis is placed on the development of digital and social enterprises. Also, public entrepreneurship is discussed as a special issue of entrepreneurship.

The specific objectives of the course are:

- Understanding the concept and importance of entrepreneurship
- Understanding the ecosystem of entrepreneurship and its dimensions
- Understanding the concepts of innovation and creativity
- Acquiring knowledge and skills related to all stages of the business process:
  - capturing a business idea
  - recognition of business model,
  - creating a business plan,
  - mobilizing resources
  - establishing and selecting a sustainable development model; and



- exploration of exit strategies.

- Understanding funding sources at all stages with an emphasis on venture capital.

The ultimate goal of the course is to initiate students into the basic principles of entrepreneurship and to combine the knowledge they have gained in other relevant courses through the examination of modern practical entrepreneurship issues.

**Learning Outcomes:** After completing the course students will:

- understand the challenges of entrepreneurship
- understand the requirements of all stages of the business process
- Identify opportunities and be able to turn business ideas into sustainable businesses
- Identify sustainable business models with emphasis on: value propositions, customer segments, channels, customer relationships, revenue models, partners, resources and activities, and cost.
- are able to develop complete business plans

**Recommended bibliography:**

All students will receive the notes (slides) of the course. Additionally, the following textbooks will be used:

Main textbooks:

- Storey D., Greene F., Chassid I. & Fafaliou E., “Entrepreneurship for small and medium businesses”, Kritiki Publications, 2011.
- Deakins D., Freel M., Pekka B. & Chatzidimitriou I., “Entrepreneurship and small businesses”, Rosili Publications, 2014.

Additional material:

- Kuratko, Donald F. (2014), Entrepreneurship: Theory, Process, Practice (9th Edition), Cengage/Southwestern Publishers. Hardcover: 624 pages, ISBN-13: 978-1285051758, ISBN-10: 1285051750.
- Osterwalder, A. & Pigneur, Y., (2010), Business Model Generation, John Wiley & Sons. Paperback: 288 pages, ISBN-10: 0470876417, ISBN-13: 978-0470876411.
- Spinelli, S.Jr & Adams, R. (2015), Edt. in Greek by Papadakis B., Creation of Start-Up Businesses, Utopia.

Finally, students are given a list of selected scientific articles.

**Method of assessment / grading:** Written examination at the end of the semester, Essay questions (55%), Written assignment, Public presentation (45%), Other (5%)

**Mode of lecture delivery and teaching and learning methods:** Lectures in class, field exercise, written assignment/assignments, guest lectures by scientists.

**Course title:** Business Ethics

**Course code number:** 7165

**Type of course:** ELECTIVE FOR ACCOUNTING MAJOR – ELECTIVE FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 3<sup>rd</sup> year

**Semester of study:** 5<sup>th</sup> semester (winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** M. Boura

**Course description:**

Introductory Concepts

- Ethics and business
- The role of the business today
- Ethical issues that concern businesses
- Stakeholders

At People's Level: Ethics and Decision-Making Theories

- Basic definitions
- Framework
- Theoretical approaches
- Methods of decision making
- Implementation in practice

At the business Level: Dilemmas and Solutions

- Basic Dilemmas (Consumers, Employees, Society...)
- Implementation in practice
- Corruption

At a broader level I: Corporate Social Responsibility

- Concepts and historical background
- Triple bottom line
- Business and Natural Environment
- Business and Society
- International Standards

At a broader level II: Corporate Governance

- Introductory concepts
- Principles and frameworks of CG
- Structures and mechanisms to balance interested parties/stakeholders
- Standards and international experience

**Learning Outcomes:** The Business Ethics course deals with ethical issues that concern modern businesses and suggests methods for solving moral dilemmas. The main learning objectives of the course are as follows:

- Understanding the role of ethics in business
- Recognizing ethical issues within a business
- Applying important concepts and theories of moral values to solving business issues (e.g. moral reasoning).

- Understanding how businesses can develop programs and promote decision-making with codes of ethics
- Understand the benefits of ethical behavior of businesses and their connection to the concepts of competitiveness and sustainability.
- Assessing individual behaviors in business with the use of theoretical models
- Critical evaluation of the decisions and actions of modern enterprises on the basis of their moral implications.

**Recommended bibliography:**

- Thanopoulos G. 2003. Business ethics and code of conduct. Interbooks.
- Course presentations
- Stanwick P & Stanwick S. 2014. Understanding Business Ethics. Sage
- Weis, W.J. 2014. Business Ethics: A Stakeholder and Issues Management Approach. Berrett-Koehler Publishers

**Method of assessment / grading:** Written examination at the end of the semester, Essay questions (55%), Written assignment (project), Public presentation (40%), Other (5%).

**Mode of lecture delivery and teaching and learning methods:** Lectures in class, written assignment/assignments, guest lectures by scientists.

**Course title:** Marketing of Services

**Course code number:** 5637

**Type of course:** ELECTIVE FOR ACCOUNTING MAJOR

**Language of instruction:** Greek

**Year of study:** 3<sup>rd</sup> year

**Semester of study:** 5<sup>th</sup> semester (winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** Not offered

**Course description:** The area of service provision concerns the largest business sectors both internationally as well as in Greece, among which we distinguish the financial products and services sectors. The aim of the course is to understand the special nature of the field of services in the financial products and services sector and to acquire all the necessary knowledge of marketing management in the specific competitive environment. Upon completion of the lectures, the student will be able to understand the specific nature and characteristics of financial products and services companies and organizations and to implement systematic actions and marketing strategies for these environments.

**Learning Outcomes:** At the end of the course one will be able to:

- Tackle creatively and effectively the particularities of services, such as simultaneous production and consumption, the impossibility of storing them and how much they are affected by the human factor.
- They will also be able to combine the various variables to provide a unique experience for banking consumers, the so-called 8 Ps of services (product, price, place, promotion, physical evidence, people, process).

- In addition, the trends of our times and their impact on the modern banking market, such as service dominance, integrated communication and the influence of social media tools, will be analyzed.

**Recommended bibliography:**

1. G. PANIGIRAKIS, STRATEGIC MANAGEMENT OF BRANDED PRODUCT VOLUME A, Stamoulis Publications, 2003.
2. P. MALLIARIS, INTRODUCTION TO MARKETING, Stamoulis Publications, 2013.

**Course title:** Project and Program Management

**Course code number:** 8121

**Type of course:** ELECTIVE FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 3<sup>rd</sup> year

**Semester of study:** 5<sup>th</sup> semester (winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** K. Androutsopoulos

**Course description:** This course presents topics related to the organization, programming, control and evaluation of projects and programs. Basic principles of program and project management are also presented, methods of selection and evaluation of projects and programs, time planning techniques and methods, cost-to-time ratio, optimal allocation and normalization of resources, as well as project and program control techniques.

The course contents cover the following six sections:

- Introduction to Project Management: Definition and key features of projects, project lifecycle, categorization of projects and impact on the management process, organization of projects, critical success factors of a project.
- Project Planning: Definition, objectives, and limitations for the development of a project, identification of activities, estimation of time and resources required for the implementation of activities, construction of a project network.
- Project Time Planning Methods: Critical Path Method, Project Evaluation Review Technique.
- Cost and Use of Project Resources: Cost Calculation, Cost-to-Project Duration, Adjustment of Resource Allocation, Multi-Project Management (Programme Management).
- Project Control: Project Control Techniques.
- Selection and Evaluation of Projects: Cost-benefit analysis, cost-effectiveness analysis, multi-criteria project evaluation.

**Learning Outcomes:** After completion of the course the students will be able to:

- Evaluate projects and programs
- Optimally program the implementation of a project
- Monitor and control a project

**Recommended bibliography:**

1. Avraham Shtub, Jonathan F. Bard, Shlomo Globerson, (Foreword by K.P. Anagnostopoulos), "Project Management - Processes, Methodology and Techno-Economics", 2<sup>nd</sup> edition, Epikentro Publishers, Thessaloniki, 2008.
2. Rory Burke (Foreword by Sergios Lampropoulos), "Project Management - Planning and Control Techniques", KRITIKI Publications, 1<sup>st</sup> Edition, 2002.

**Method of assessment / grading:** Final exams (70%), written assignment (30%). The grade of the assignment is counted towards the final grade only if the exam grade and the assignment grade are passing grades (more than 5).

**Mode of lecture delivery and teaching and learning methods:** Lectures in class, tutorials, lab sessions.

**Course title:** Microstructure of Financial Markets

**Course code number:** 7195

**Type of course:** ELECTIVE FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 3<sup>rd</sup> year

**Semester of study:** 5<sup>th</sup> semester (winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** G. Chalamandaris

**Course description:** The purpose of the course is to analyze issues related to the organizational structure, the mode of operation and how trades are conducted on the financial markets. The topics covered are: Types of Markets (OTC, Stock Exchange etc.), Reference to key players in the Greek capital market, Trading methods (ASE, NYSE, Euronext) and clearing mechanisms, Auction types and price discovery process, Types of orders, their impact on market dynamics and their uses, Types of traders (Value Traders, News Traders, Technical Traders, etc.) and their strategies, market maker and its strategies. Theoretical microstructure models (Roll, Glosten-Millgrom, Kyle, Amihud-Mendellson).

**Learning Outcomes:** The student who has completed the course knows the basic ways of market organization, their uses as well as the categories of participants in them. They therefore have the ability to interpret market-related phenomena related to market dynamics in the very short term, as well as to assess the possible strategic decisions faced by a securities dealer during a day.

**Recommended bibliography:**

G. CHALAMANDARIS, Microstructure of Financial Markets, UNIVERSITY NOTES

**Method of assessment / grading:** Written exam at the end of the semester (80%), Written assignment (project) (20%).

**Mode of lecture delivery and teaching and learning methods:** Lectures in class, lab exercise.

## **SIXTH SEMESTER (SPRING)**

**Course title:** Management Accounting

**Course code number:** 7106

**Type of course:** CORE CURRICULUM (COMPULSORY) FOR ACCOUNTING MAJOR AND ELECTIVE FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 3<sup>rd</sup> year

**Semester of study:** 6<sup>th</sup> semester (spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** A. Ballas

**Course description:** The course aims at analyzing issues in which accounting information is used to make managerial decisions. Content is divided into four distinct but at the same time interrelated parts. The first part covers cost accounting approaches with an emphasis on activity-based costing. The second part analyzes issues related to planning and proactive business planning with the help of Management Accounting. The third part discusses issues of divergence, evaluation of decentralized departments and transfer prices. Finally, the fourth part presents some issues of strategic decisions.

**Learning Outcomes:** With the successful completion of the course, students will be able to:

- Understand the alternative costing approaches and the different utility of each approach.
- Use Management Accounting methodologies for planning and proactive planning.
- Use methodologies of Management Accounting when assessing budget deviations and decentralized management structures.
- Understand the usefulness of Management Accounting for strategic analysis and long-term planning.

**Recommended bibliography:**

**Proposed textbook:**

Dimitras, A., και A., Ballas, (2009): "Management Accounting for Planning and Control", Gutenberg.

**Recommended bibliography:**

1. Bhimani, A., Horngren, C., Datar, S., and Rajan, M. (2012): "Management and Cost Accounting", 5<sup>th</sup> Edition, Prentice Hall.
2. Garrison R., Noreen, E., and, Brewer, P. (2012): "Managerial Accounting", 14<sup>th</sup> Edition, McGraw-Hill Erwin.
3. Horngren, C., Datar, S., and, Rajan, M. (2012): "Cost Accounting: A managerial emphasis", 14<sup>th</sup> Edition, Prentice Hall.

**Method of assessment / grading:** Written exam at the end of the semester (100%).

**Mode of lecture delivery and teaching and learning methods:** Lectures in class.

**Course title:** Financial Accounting III

**Course code number:** 7235

**Type of course:** CORE CURRICULUM (COMPULSORY) FOR ACCOUNTING MAJOR AND ELECTIVE FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 3<sup>rd</sup> year

**Semester of study:** 6<sup>th</sup> semester (spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** D. Hevas

**Course description:** The course aims to familiarize students with specific theoretical and practical issues of Financial Accounting. Emphasis is given to the valuation rules that are qualified by the applicable (Greek and International) Accounting Standards.

**Learning Outcomes:** At the end of the semester the students will have acquired knowledge and skills regarding:

- The accounting treatment of equity investments
- Branch accounting
- The accounting for joint ventures
- The Accounting for Operating Segments
- The accounting treatment of investment property
- The accounting problems of the agricultural sector
- The accounting treatment of foreign currency transactions
- Assets available for sale
- The concept and the determination of Fair Value
- Special issues in revenue recognition

**Recommended bibliography:**

1. Hevas, D. **“Accounting for Business Combinations”**, Benos Publications. 2010
2. Ballas, A. and Hevas, D., **“Financial Accounting”**, 4<sup>th</sup> edition, Benos Publications, 2016
3. Hevas, D. **“Lecture Notes”**

**Method of assessment / grading:** Written exam at the end of the semester (100%).

**Mode of lecture delivery and teaching and learning methods:** Lectures in class. Teaching includes two two-hour lectures per week, with particular emphasis on the presentation of theoretical accounting concepts. The theoretical presentation is accompanied by a set of exercises solved on-the-spot during lectures with the participation of students that help students understand the various topics the course deals with.

**Course title:** Introduction to Econometrics

**Course code number:** 7136

**Type of course:** CORE CURRICULUM (COMPULSORY) FOR FINANCE MAJOR - ELECTIVE FOR ACCOUNTING MAJOR

**Language of instruction:** Greek

**Year of study:** 3<sup>rd</sup> year

**Semester of study:** 6<sup>th</sup> semester (spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** L. Rompolis

**Prerequisite courses:** Mathematical Calculus in Business and Economic Problems, Applications of Statistical Methods in Business Problems.

**Course description:** The purpose of the course is to introduce students to the basic theory of econometrics and to educate them on specific techniques applied in practice for the empirical analysis of accounting and financial data and the study and evaluation of the respective theoretical models. Course lectures also include practical applications with the help of software packages (Excel, Eviews).

The topics covered include: Introduction, Elements from Statistical Theory, Estimation of the Simple Linear Model, Properties of the Least Squares estimators, Statistical Induction in the Simple Linear Model, Presentation of Results and Selection of the Functional Form of the Simple Linear Model, Multivariable Linear Models: estimation and testing, Statistical induction in the multivariate linear model, The technique of pseudo variables, Co-integration, Heteroskedasticity, Autocorrelation.

**Learning Outcomes:** Upon completion of the course the student knows how to construct models, to empirically test economic hypotheses, e.g. associations between economic variables, and make forecasts using key statistical analysis tools. They also know how to check the suitability of the models used, as well as methods to correct any model errors and weaknesses.

**Recommended bibliography:**

1. TZAVALIS ILIAS, ECONOMETRICS, AUEB Publications, 2008
2. Wooldridge, J. Introduction to econometrics. A new approach. Papazisis Publications, 2011

**Method of assessment / grading:** Written exam at the end of the semester, Essay questions, Problem solving (100%)

**Mode of lecture delivery and teaching and learning methods:** Lectures in class, lab exercise, tutorials.



**Course title:** Financial Derivatives Analysis

**Course code number:** 7146

**Type of course:** CORE CURRICULUM (COMPULSORY) FOR FINANCE MAJOR - ELECTIVE FOR ACCOUNTING MAJOR

**Language of instruction:** Greek

**Year of study:** 3<sup>rd</sup> year

**Semester of study:** 6<sup>th</sup> semester (spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** M. Kavussanos

**Course description:** The course examines financial derivative products, their use for investment purposes and risk management. Futures, forward contracts, debt swaps and financial rights are part of the syllabus, while various valuation methods are also presented (e.g. for options, binomial, trinomial, and Black and Scholes). Investment strategies based on variance and other methods, as well as the formation of optimal risk hedging ratios are part of the syllabus.

**Learning Outcomes:** After successful completion of the course, the student will be able to understand the basic types of financial derivative products, their key positions, be able to design hedging strategies, investment strategies and speculative hedging strategies with these products. They will also be able to value different types of futures, forward contracts and options. Finally, they will be able to calculate optimal, hedge positions and use sensitivity parameters to create dynamic portfolios.

**Recommended bibliography:**

1. N. MILONAS, MARKETS AND DERIVATIVE PRODUCTS, TYPOTHITO Publications, 2005
2. P. AGGELOPOULOS, INTRODUCTION TO DERIVATIVE FINANCIAL PRODUCTS, Stamoulis Publications, 2011

**Course title:** Fixed Income Securities

**Course code number:** 7196

**Type of course:** CORE CURRICULUM (COMPULSORY) FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 3<sup>rd</sup> year

**Semester of study:** 6<sup>th</sup> semester (spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** G. Chalamandaris

**Course description:** This course introduces the markets, products and tools of managing fixed income portfolios. More specifically, the following are analyzed: Securitization Methods and Mechanisms, Types of Debt and Debt Issuance Mechanisms in the Primary Market. Reference to Government Bonds, Supranational Bonds, Eurobond, Agencies, Brady bonds, Municipals, Fixed and Floating Rate Bonds. Zero curves, par coupon, swap and forward rate, Swaps, Bond Futures and FRAs as interest rate hedging instruments, Corporate bonds, credit risk pricing and hedging with Total Return Swap, Credit Default Swap, Asset Backed Securities, and Mortgage Backed Securities, Fixed Income Portfolio Management and Complex Product Structuring through Cap / Floor and Swaptions.

**Learning Outcomes:** The student who has successfully performed in the course will be able to understand the basic principles and function of the debt market, the tools used in it as well as the basic strategies followed in terms of the use of these tools.

**Recommended bibliography:**

1. TUCKMAN B., FIXED INCOME SECURITIES, Papazisis Publications, 2010
2. G. CHALAMANDARIS, FIXED INCOME SECURITIES, UNIVERSITY NOTES

**Method of assessment / grading:** Written exam at the end of the semester (100%)

**Mode of lecture delivery and teaching and learning methods:** Lectures in class, tutorials.

**Course title:** Labor Law

**Course code number:** 2406

**Type of course:** ELECTIVE FOR ACCOUNTING MAJOR

**Language of instruction:** Greek

**Year of study:** 3<sup>rd</sup> year

**Semester of study:** 6<sup>th</sup> semester (spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** External partner

**Course description:**

- Content and sources of labor law - distinction to individual and collective labor law
- Nature of the standard employment contract and its forms - distinction from other similar forms of employment
- Managerial right and its expressions
- Setting the time and place of work
- Wage issues and permits
- The irregular development of the employment contract
- Labor accident

**Learning Outcomes:** Upon completion of the course, students will be able to:

1. Understand the basic principles of individual law by distinguishing the employment contract from other forms of employment and understanding the core function of collective agreements
2. Understand the basic rights and obligations of the employer and employee in an open-ended or fixed-term employment contract and their operation
3. Apply the above in practice
4. Combine knowledge from different disciplines related to business administration to propose specific and reasoned solutions to problems related to human resource management from a legal point of view

**Course title:** Real Estate Finance

**Course code number:** 7148

**Type of course:** ELECTIVE FOR ACCOUNTING MAJOR – ELECTIVE FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 3<sup>rd</sup> year

**Semester of study:** 6<sup>th</sup> semester (spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** A. Tsekrekos

**Course description:** The course introduces the student to the concepts and characteristics of the real estate market which differentiate real estate from the other assets. Initially, the simultaneous modeling of rents, property purchase prices and construction industry activity is analyzed through theoretical models and practical applications. Then, a significant part of the course is related to alternative real estate valuation methods, through many realistic numeric applications. The final part of the course covers a number of special topics in real estate finance such as real estate taxation, financial leverage as a tool for real estate investments, real estate funds, securitization of mortgages, real estate derivatives, real estate portfolio theory, depending on the current events in the real estate market.

**Learning Outcomes:** With the successful completion of the course the student is able to understand the special features of the real estate purchase system, which distinguishes property from other, more traditional assets. The student can assess the market value of real estate by applying the different valuation-estimation methods proposed in the relevant literature and perceiving the advantages, drawbacks and fields of application of each method. Finally, the student learns how an investor's exposure on the fundamentals of real estate can be achieved, apart from the direct purchase of real estate, through indirect investment vehicles affected by the real estate market (such as MBS, REITs, etc.).

**Recommended bibliography:**

1. REAL ESTATE: REAL ESTATE VALUES, GELTNER DAVID, MILLER NORMAN G., PAPAZISIS PUBLICATIONS, 2010
2. REAL ESTATE FINANCE AND INVESTMENTS, BRUEGGEMAN, Mc Graw Hill, 2010
3. INTRODUCTION TO REAL ESTATE APPRAISAL & VALUATION METHODS, P. KIOCHOS, ELENA KIOCHOU Publications

**Method of assessment / grading:** Written exam at the end of the semester (75%), Written assignment (project) (25%)

**Mode of lecture delivery and teaching and learning methods:** Lectures in class

**Course title:** Actuarial I

**Course code number:** 6135

**Type of course:** ELECTIVE FOR ACCOUNTING MAJOR – ELECTIVE FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 3<sup>rd</sup> year

**Semester of study:** 6<sup>th</sup> semester (spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** A. Zymbidis

**Course description:** Loss models: Individual and collective model, Loss distributions, compensation distributions and their appraisal. Applications of non-proportional insurance cover, asymptotic estimates of probability at the right-hand side of the distribution, computation and upper boundaries of stop loss premia, stop loss and inflation, positive experience clauses. Reinsurance applications. Bankruptcy Theory: The surplus process, the adjustment factor and its approaches, the probability of bankruptcy, a distinct surplus process, random variables related to the surplus process. Reliability Theory: Credibility theory, partial and complete reliability, Buhlmann and Buhlmann-Straub models, other models, loss functions, Bayes reliability, applications, time series methods, Kalman filters, applications in group insurance for individuals. Pricing. Non-life insurance models: Evolution of indemnities of a fiscal year or insurance year, stock of outstanding claims and allocated and unallocated settlement costs, loss reserving, total and structural, triangular methods in evolution of indemnities (chain ladder etc.), expected loss ratio method, Reid method, Bornhuetter-Ferguson method, separate frequency and severity modeling, parametric methods (use of loss distributions).

**Recommended bibliography:**

- ZYMBIDIS, A. (2008) Actuarial Mathematics for General Insurance. AUEB Publications.
- ZYMBIDIS, A. (2008) Risk Theory. AUEB Publications.
- Robert L. Brown, Leon R. Gottlieb (2007) Introduction to Ratemaking and Loss Reserving for Property and Casualty Insurance, ACTEX Publications.
- Kaas, R., Goovaerts, M., Dhaene, J., Denuit, M. (2008) Modern Actuarial Risk Theory, SPRINGER, 2nd ed.

**Method of assessment / grading:** Oral examination (50%) and written assignment (50%).

**Mode of lecture delivery and teaching and learning methods:** Lectures of an interactive nature, and seminars.

**Course title:** Microeconomic Theory II

**Course code number:** 1402

**Type of course:** ELECTIVE FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 3<sup>rd</sup> year

**Semester of study:** 6<sup>th</sup> semester (spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** Th. Palyvos

**Course description:**

1. Determining and Analyzing the Balance of a Competitive Sector
  - (a) Short-term Sector Supply and Short-term Equilibrium
  - (b) Long-term Equilibrium and Long-Term Sector Supply
  - (c) Applications
2. Monopoly
  - (a) Profit Maximization
  - (b) Monopoly Welfare Analysis
  - (c) Price Discrimination of First, Second and Third Degree
  - (d) Product Bundling
3. Game Theory
  - (a) Description of a Game
  - (b) Concepts of Equilibrium
  - (c) Examples
4. Oligopoly
  - (a) Homogeneous Oligopoly. Cournot model
  - (b) Cartel Formation
  - (c) Business leader. Stackelberg model
  - (d) Bertrand Model.
5. Theory of General Equilibrium under Conditions of Perfect Competition.
  - (a) Exchange. Box of Edgeworth
  - (b) Walras Law
  - (c) Competitive Equilibrium
6. Economic Efficiency
  - (a) First Theorem of Welfare Economics
  - (b) Second Theorem of Welfare Economics
7. Welfare Economics
  - (a) Utility Possibilities Curve
  - (b) Welfare Functions
8. Fair Distributions
  - (a) Definition
  - (b) Justice and Competitive Equilibrium
  - (c) Exchange and Justice

**Recommended bibliography:**

- Palyvos, Th. [2013]: Introduction to General Equilibrium, Xenofou Publications, Athens.
- Varian H. [2006]: Microeconomics – A modern approach, Kritiki Publications, Athens.

**Method of assessment / grading:** Final exam, and exercise solving during the semester. The grade is mainly determined by performance at final exams. The exercises contribute as a bonus up to 1 unit.

**Course title:** English VI

**Course code number:** 7216

**Type of course:** ELECTIVE FOR ACCOUNTING MAJOR - ELECTIVE FOR FINANCE MAJOR

**Language of instruction:** English

**Year of study:** 3<sup>rd</sup> year

**Semester of study:** 6<sup>th</sup> semester (spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** K.-K. Karagkouni

**Course description:** The linguistic prerequisite for this course is Level C2 as defined by the Common European Framework of Reference for Languages. Through a thorough analysis of texts of business interest (students of the departments of ACCOUNTING AND FINANCE, ECONOMICS, INTERNATIONAL AND EUROPEAN ECONOMIC STUDIES process texts of their subject area exclusively), the students enrich their wider business vocabulary and develop their text comprehension (Vocabulary Building, Expanding Vocabulary, Building Collocations). At the same time, through targeted translation exercises in the other language, they focus on individual difficulties and recurrent errors especially by users of Greek as a mother tongue.

**Learning Outcomes:** Upon completion of the last English language course, and subject to regular attendance at the lectures, the English vocabulary range of the students will fully cover their needs for the professional job market or to continue their studies at the postgraduate level. Students are able to read and understand texts of business interest and to adequately cope with English-language bibliography requirements.

**Recommended bibliography:**

- Karamitroglou, F. (2014). *Essential Business Terminology for Native Speakers of Greek*. Athens. Fedimos
- Academic Readings available on e-class

**Method of assessment / grading:** The course is evaluated through a final examination in the form of a written test covering the full range of subjects developed during the semester. Care must be taken to ensure that the contribution of each of the subjects to the final grade of the test is proportional to the weight given to these issues during their development during the semester.

**Mode of lecture delivery and teaching and learning methods:** The course is taught during the spring semester with 2 two-hour lectures per week. Student attendees contribute in an interactive way by answering questions on the individual topics and exercises solved in the classroom. Beyond the textbook other academic texts are used to accompany the subject areas as a supplement to expand student vocabulary {a projector and computer are used (PowerPoint Presentations)}. Students are regularly required to prepare some exercises at home, according to the Syllabus.

## FOURTH YEAR COURSES

### SEVENTH SEMESTER (WINTER)

**Course title:** Taxation

**Course code number:** 7107

**Type of course:** CORE CURRICULUM (COMPULSORY COURSE) FOR ACCOUNTING MAJOR – ELECTIVE FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 4<sup>th</sup> year

**Semester of study:** 7<sup>th</sup> semester (winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** N. Karampinis

**Course description:** The course consists of two distinct parts. The first part presents the basic concepts and methods of taxing individuals. Topics covered include nominal and marginal tax rates, tax residence, sources of taxable income, withhold taxes, foreign earned income, and bilateral tax agreements. The second part presents the most important kind of indirect tax, i.e., Value Added Tax (VAT). The lectures cover topics such as entities subject to VAT, self-supply of goods and services, imports, intra-community transactions, and VAT arrangements.

The overall content is based on national as well as European law directives, institutional laws, and international legislation. The approach followed has an international business perspective; the module examines international transactions across EU member states and with other non-EU countries, as well as special territories. The learning process is based on numerous real-world examples.

**Learning outcomes:** Upon successful completion of the course, students will be able to evaluate the tax framework of a country and the basic tax provisions for individuals. In addition, they will be able to explain tax reforms and recognize the impact of tax provisions on decision making. They will be able to calculate taxes to pay or to refund, process tax returns and fulfill tax obligations concerning individuals or VAT for entities.

**Method of assessment / grading:** Students' assessment is accomplished with a written examination at the end of the semester.

**Recommended bibliography:**

1. Dimosthenis L. Hevas (2017). *Tax Accounting Issues*, 6th Edition, Benos Publications, Athens.
2. University Notes.

**Course title:** Accounting for Financial Instruments

**Course code number:** 7247

**Type of course:** CORE CURRICULUM (COMPULSORY COURSE) FOR ACCOUNTING MAJOR – ELECTIVE FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 4<sup>th</sup> year

**Semester of study:** 7<sup>th</sup> semester (winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** G. Siougle

**Course description:** The Accounting for Financial Instruments course deals with the recognition, valuation and presentation of financial balance sheet items on the financial statements. In addition, issues of accounting for financial leases are presented, as well as issues pertaining to the accounting treatment of employee benefits either during employment or at the end of their employment / retirement. It also covers issues related to the information that an enterprise must provide to users of the financial statements to recognize revenues and cash flows arising from customer contracts. The syllabus layout includes the following sections:

1. Financial Items of the Balance Sheet (Initial Recognition, Valuation of Financial Assets / Liabilities and Recognition of Earnings / Losses, Write-off of Financial Assets / Liabilities, Classification of Financial Items)
2. Accounting for Derivatives (Embedded Derivatives, Hedge Compensation, Advanced Financial Instruments)
3. Financial Instruments: Disclosures
4. Financial Leases (Accounting treatment for Financial Leases by the Lessee, Accounting treatment for Financial Leases by the Lessor, Presentations in the Financial Statements, Disclosures)
5. Benefits to Employees (Short-term Benefits, Post-Employment Benefit Plan, Defined Benefit Plans, Disclosures)
6. Recognition of Revenues (Accounting for Financial Events, Disclosures)
7. Special Issues in Accounting for Financial Instruments (Fixed Asset Accounting)

**Learning Outcomes:** Upon successful completion of the course, students will be able to understand the accounting treatment of financial assets on the balance sheet, derivatives, financial leases, employee retirement benefits, income recognition and non-current assets.

**Recommended bibliography:**

Financial Accounting (International Financial Reporting Standards), 5<sup>th</sup> Edition, D. Ghicas, A. Papadaki, G. Siougle, E. Demirakos, Ch. Tzovas.

**Method of assessment / grading:** Written exam at the end of the semester.

**Mode of lecture delivery and teaching and learning methods:** Lectures in class.



**Course title:** Auditing

**Course code number:** 7118

**Type of course:** CORE CURRICULUM (COMPULSORY COURSE) FOR ACCOUNTING MAJOR

**Language of instruction:** Greek

**Year of study:** 4<sup>th</sup> year

**Semester of study:** 7<sup>th</sup> semester (winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** A. Ballas

**Course description:** The course is an introduction to audit and reassurance services. The course covers the basic theoretical concepts of audit science and their practical applications in various types of economic units. Unlike all other accounting courses, this course does not relate to the preparation of financial statements but to the formulation of an opinion on them. This implies that students should be familiar with the basic principles and concepts of Accounting taught in Financial Accounting and, possibly, Accounting Information Systems courses to attend the course.

**Learning Outcomes:** Successful attendance of this course will make it easier for students who will deal professionally with accounting and financial management to work effectively with external auditors while for students wishing to become certified auditors this course is a foundation for their future professional development.

**Recommended bibliography:**

- 1) Negkakakis Ch., Tachinakis P. (2017). Auditing – Internal Audit. AEIFOROS ACCOUNTING Publications.
- 2) K. Karamanis (2008). Modern Auditing: Theory and Practice in Accordance with International Auditing Standards. AUEB Publications.

**Method of assessment / grading:** Assessment of the students in the course is made by a written examination at the end of the semester during the January examination period. The score is in the range 0 to 10 and the minimum passing grade is 5.

**Mode of lecture delivery and teaching and learning methods:** Course teaching includes two two-hour lectures per week, with particular emphasis on the presentation of theoretical concepts. The theoretical presentation is accompanied by a set of exercises solved on-the-spot during lectures with the participation of students that help them understand the different topics.

**Course title:** Shipping Finance

**Course code number:** 7127

**Type of course:** CORE CURRICULUM (COMPULSORY COURSE) FOR FINANCE MAJOR – ELECTIVE FOR ACCOUNTING MAJOR

**Language of instruction:** Greek

**Year of study:** 4<sup>th</sup> year

**Semester of study:** 7<sup>th</sup> semester (winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** M. Kavussanos

**Course description:** This course aims to familiarize the student with the corporate financing system in the shipping industry. It examines the peculiarities of the sector in relation to the

general financial principles, and analyzes the basic principles of the economics that govern it and which are necessary for the better understanding of the concepts presented. This includes, inter alia, the analysis of topics such as the economics of shipping, the global nature and the international nature of the industry wherever it exists, the cyclicity of markets, the calculation of the cash flows of the enterprises involved, the investment decisions, the assessment of investment plans, cost structure, financing methods and risk management. Where possible, examples of research studies are presented for a better understanding of the concepts. Reference is made to recent literature in the subject.

**Learning Outcomes:** The student who has successfully completed the course will know how the individual shipping markets function, how they operate, how they are connected to each other. They will understand the financial details of the shipping business and will be able to calculate and determine cash flows under different circumstances. They will be aware of the alternative forms of financing available in the industry and the issues that arise when they are used. They will understand issues related to the analysis and management of the risks of shipping companies.

**Recommended bibliography:**

M. KAVUSSANOS, SHIPPING FINANCE - NOTES

**Course title:** International Finance

**Course code number:** 7137

**Type of course:** CORE CURRICULUM (COMPULSORY COURSE) FOR FINANCE MAJOR – ELECTIVE FOR ACCOUNTING MAJOR

**Language of instruction:** Greek

**Year of study:** 4<sup>th</sup> year

**Semester of study:** 7<sup>th</sup> semester (winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** D. Georgoutsos

**Course description:** The course is divided into three sections. The first concerns the foreign exchange market (spot and futures markets, FX swaps, foreign exchange futures and foreign exchange options). The second concerns the presentation of theories on the determination of current exchange rates, the ways to correct imbalances in the Balance of Payments, and exercising economic policy in open economies. In the third section we present specific topics of international finance, such as international banking, taxation for income obtained abroad, issues for international capital markets and money markets, monetary unions, etc.

**Learning Outcomes:** The student acquires knowledge on the operation of the foreign exchange market, exercising economic policy in open economies, and business operations in an international environment (taxation, hedging currency risk, international banking etc.), this knowledge improves the student's ability to work in a work environment related to foreign transactions.

**Recommended bibliography:**

1. P. Krugman & M. Obstfeld, International Economics: Theory and Politics, 4<sup>th</sup> edition, 2015, KRITIKI Publications
2. Pilbeam, K., 2017. International Finance, UTOPIA

3. D. Salvatore, International Economics, 2017, Tziolas Publications
4. G. Alogoskoufis, International Economics and the Global Economy, 2013, Gutenberg
5. E. Vlachaki & S. Kalivitis, International Monetary Economics and Macroeconomic Open Economy, 2011, Gutenberg
6. D. Georgoutsos, Notes on International Financing, 2017, Athens University of Economics and Business.

**Course title:** Alternative Investments

**Course code number:** 7207

**Type of course:** CORE CURRICULUM (COMPULSORY COURSE) FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 4<sup>th</sup> year

**Semester of study:** 7<sup>th</sup> semester (winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** I. Samantas

**Course description:** The Alternative Investments sector is considered the fastest growing branch of Financial Economics. The purpose of the course is to analyze the main categories of investments in this sector, to study their structure, to present the risks, and to describe the opportunities they offer. The course deals with Mutual Funds, Hedge Funds, Investments in Commodities, and Private Equity Funds.

The topics covered include: Alternative Investments - General, Mutual Funds, Hedge Funds, Investments in Commodities, Private Equity Funds.

**Learning Outcomes:** Upon completion of the course the students know the building blocks of a wide range of collective investments. They know basic investment strategies for this type of institutional portfolios and are able to assess the risks that these portfolios face but also evaluate their role in portfolio management.

**Recommended bibliography:**

Giamouridis, D., Alternative Investments, Notes, 2008.

**Method of assessment / grading:** Written exam at the end of the semester (80%), Essay questions, Multiple choice test, Problem solving, Written assignment (20%), Public presentation.

**Mode of lecture delivery and teaching and learning methods:** Lectures in class, Written assignment/assignments.

**Course title:** Public Sector Accounting

**Course code number:** 7167

**Type of course:** ELECTIVE FOR ACCOUNTING MAJOR

**Language of instruction:** Greek

**Year of study:** 4<sup>th</sup> year

**Semester of study:** 7<sup>th</sup> semester (winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** Ch. Tzovas

**Course description:** The subject of the Public Sector Accounting course is the presentation of the modern international trend of reforming accounting in the Public Sector within the framework of the new Public Management. The proposed methods of recording and presenting accounting information are presented, based on international and national accounting standards, as well as the budgets. In particular, the course examines the relationship between the New Public Management and Accounting, Budget and Audit, alternative accounting bases (cash-accrual), international accounting standards for the public sector, international trends and the international experience regarding the adoption of modern accounting methods for the public sector, as well as issues of costing, control and evaluation of performance of public organizations. Accrual accounting systems for Legal Entities of Public Law, Public Health Units and Local Self-Government / Authorities are described.

**Learning Outcomes:** Upon successful completion of the course, the student will be able to understand:

- Characteristics of Public Organizations
- Accounting systems for transaction monitoring in the public sector
- Budget in the Public Sector
- System of Double Taxation in Legal Entities of Public Law, Public Health Units and Local Self-Government / Authorities
- Costing, control and evaluation of performance in the Public Sector

**Recommended bibliography:**

- Sandra Cohen, "Public Sector Accounting", University Notes
- Notes on e-class

**Method of assessment / grading:** Written exam at the end of the semester (100%).

**Mode of lecture delivery and teaching and learning methods:** Lectures in class, study and analysis of the literature, Written assignment/assignments, Guest Lectures by scientists.

**Course title:** Business Policy and Strategy

**Course code number:** 7157

**Type of course:** ELECTIVE FOR ACCOUNTING MAJOR – ELECTIVE FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 4<sup>th</sup> year

**Semester of study:** 7<sup>th</sup> semester (winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** I. Thanos

**Course description:** The course consists of five basic sections, which refer to the below:

- Inputs to instigate strategic thinking: The complexity of the concept of strategy is given. Strategic views are considered as environmental determinism, but also as a resource based view. Presentation and evaluation of corporate mission and vision.
- Configuration and strategy types: Corporate strategies (range and type of activities) and strategies of competitive advantage (competitive strategy) in different external environments are studied. The nature of the competitive advantage is sought, drawing on alternative theoretical approaches.
- Strategy evaluation and selection: Strategic evaluation models are presented. Also, reference is made to the stage of the strategy's transformation into programs with actions covering a wide range: operational strategies, structures and systems.
- Methods of strategy implementation: Strategies are being implemented through acquisitions, mergers, alliances, or self-growth. Ways to more effectively implement these choices are provided.
- Making strategic decisions: Particular reference is made to the pitfalls of strategic thinking.

**Learning Outcomes:** The course examines a set of concepts, frameworks, methods and tools to shape a company's strategy and its implementation. The learning outcomes are:

1. Understand the basic concepts of strategy and the views and approaches developed in literature and business practice,
2. Learn to use techniques and methods of strategic analysis, recognize their strengths and weaknesses,
3. To help students understand how the strategy is shaped, given a number of strategic choices (including: range and type of activities, competitive strategy, implementation of the strategy through acquisitions / mergers / alliances / self-growth and timing of strategic moves),
4. Be able to evaluate and choose the best strategy options,
5. Understand the importance of implementing the strategy and its role in the effective implementation of appropriate organization, systems, human resources, values, culture,
6. Delve into strategic decision-making techniques and common mistakes in strategy design and implementation.

**Recommended bibliography:**

1. Papadakis Vasilis, Corporate Strategy: International and Greek Experience, Benos Publications, (Volume A', 2012, 6<sup>th</sup> edition)
2. GEORGOPOULOS N., STRATEGIC MANAGEMENT, Benos Publications, 2012

**Method of assessment / grading:** Written exam at the end of the semester, Essay questions, Multiple choice test, Problem solving, Written assignment (project), Public presentation.

**Mode of lecture delivery and teaching and learning methods:** Lectures in class, Lab exercise, Tutorials, Written assignment/assignments, self-study, guest lectures by scientists.

**Course title:** Actuarial II

**Course code number:** 6124

**Type of course:** ELECTIVE FOR ACCOUNTING MAJOR – ELECTIVE FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 4<sup>th</sup> year

**Semester of study:** 7<sup>th</sup> semester (winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** A. Zymbidis

**Course description:** Simple mortality matrix and relative functions. Force of mortality, classic mortality laws, actuarial tables and commutation functions, stochastic approach to life insurance. Types of personal insurance, actuarial present values, present values variances and covariances. Types of annuities, actuarial present values and annuities variances, relations between annuities and insurance policies. Insurance (annual, united, payable in installments), approximate relationships between different types of insurance. Recursive and differential relationships for insurances and annuities. Mathematical reserves of all types, differential equations and approximate relations, Lidstone and Hattendorf theorems, alternative reserve methods (stochastic and non-stochastic), reserve adequacy controls. Joint life and death probability, “multiple head” insurance and annuities, common insurance for Gompertz and Makeham cases, as well as under the assumption for uniform distribution of deaths (UDD). Matrices with multiple output causes, multiple situations standards, disability standards and Markov methods. Retirement models.

**Recommended bibliography:**

- Zymbidis A.(2009), Actuarial Mathematics for Life Insurance
- Zymbidis A. (2008), Pension Funds & Actuarial Studies
- Neil A. (1986), “Life Contingencies”, Heinemann Professional Publishing
- Etienne De Vylder (1997), “Life insurance: Actuarial Perspectives”, Kluwer Academic Print
- David C. M. Dickson, Mary Hardy, Mary R. Hardy, Howard R. Water. (2013), Actuarial Mathematics for Life Contingent Risks. Cambridge University Press, 2013
- Arthur W. Anderson (2006) Pension Mathematics for Actuaries, ACTEX Publications

**Method of assessment / grading:** Oral examination and written assignment.

**Mode of lecture delivery and teaching and learning methods:** Lectures, seminars, written assignments.

**Course title:** Computational Finance

**Course code number:** 7177

**Type of course:** ELECTIVE FOR ACCOUNTING MAJOR – ELECTIVE FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 4<sup>th</sup> year

**Semester of study:** 7<sup>th</sup> semester (winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** N. Loukeris

**Course description:** The main sections to be presented are as follows:

- Introduction to the Matlab Programming Language: Tables, Basic Functions, Programming (M-files), Graphs.
- Portfolio Optimization: CAPM, Mean-Variance Technique, VaR Technique.
- Monte Carlo Simulation: Random Number Generation, Mean Value Calculation, European Option Pricing, Sample Size.
- Variance Reduction Techniques: Antithetic Sampling, Control Variables, Common Random Numbers - Sensitivity Factor Calculation, Conditional Variance Reduction - Selective Option Pricing.
- Simulation of binomial - trinomial model: construction and estimation of binomial - trinomial tree parameters, European and American option pricing.
- Finite Difference Method: Difference quotient, Grid Construction, Boundary Conditions, Direct and Indirect Method in European Option Pricing, Financial Interpretation and Connection to the Trinomial Tree.
- Risk Hedging Techniques: Trajectory simulation and Tracking Errors, Geometric Brown Motion Simulation, Stop-Loss Risk Hedging, Delta Hedging.

**Learning Outcomes:** The course is an introduction to numerical methods that are widely used by applied economists in finance. The aim of the course is to bridge the gap between financial theory and computational practice in the valuation of financial derivatives. This is achieved by using the Matlab programming language, a powerful computing environment for financial applications.

**Recommended bibliography:**

1. Paolo Brandimarte, *Numerical Methods in Finance and Economics: A Matlab-Based Introduction*, 2nd Edition, John Wiley & Sons, New York, 2006.
2. Cleve B. Moler, *Numerical Methods with MATLAB*, Kleidarithmos, 2010.
3. John C. Hall, *Options, Futures, And Other Derivatives*, 8th Edition, Prentice Hall, New Jersey, 2011.

**Method of assessment / grading:** Formative evaluation, Written exam at the end of the semester, Essay questions, problem solving, practical exercises.

**Mode of lecture delivery and teaching and learning methods:** Lectures in class, lab exercise.

**Course title:** Mathematical Economics

**Course code number:** 4125

**Type of course:** ELECTIVE FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 4<sup>th</sup> year

**Semester of study:** 7<sup>th</sup> semester (winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** S. Vasilakis

**Course description:**

- Key problems of optimization. Existence, necessary conditions, sufficient conditions, properties of set of solutions
- Weierstrass Theorem of existence
- Theory of Necessary Conditions by Fritz John
- Search for global maximums.
- Theorem of Arrow-Enthoven sufficient conditions
- Convex sets, Concave and quasi-concave functions.
- Quadratic forms.
- Vector maximization (Pareto efficiency).
- The Berge maximum theorem
- Applications in economics.

**Learning Outcomes:** Understanding basic mathematical tools of economics with an emphasis on maximization, Pareto optimal points, and kurtosis. Upon successful completion of the course, students will be able to solve maximization problems, recognize concave and quasi-concave functions and solve vector maximization problems.

**Recommended bibliography:**

- Mathematical methods in Economics, Xepapadeas Anastasios P., Giannikos Ioannis
- Mathematics for Economics, Hoy Michael, Livernois John, McKenna Chris, Stengos Thanasis
- Mathematics for economists, Simon and Blume.

**Method of assessment / grading:** Written exam (100%), or written exam (70%) and exercises/assignments (30%).

**Mode of lecture delivery and teaching and learning methods:** Lectures, tutorials.



**Course title:** Mathematics for Economists III

**Course code number:** 1406

**Type of course:** ELECTIVE FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 4<sup>th</sup> year

**Semester of study:** 7<sup>th</sup> semester (winter)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** S. Arvanitis

**Course description:** The course deals with the introduction to mathematical analysis and problem solving techniques for Ordinary differential equations with applications in economic theory and econometrics. The concepts examined are:

1. Real sequences, accumulation points, convergence, transfer principle. Series, absolute convergence, D'Alembert convergence criterion. Power series, convergence interval, radius of convergence. Taylor theorem, Taylor series and Polynomials, intertemporal utility function, moment generating functions.
2. Ordinary differential equation (O.D.E.) of first order, implicit functions, separable variables, transformation to exact equations and Euler factors, homogeneous coefficients, first order linear equations, power series solutions, stability of competitive market equilibrium, Bernoulli equation and Solow model, stability of solutions and phase diagrams.
3. Linear higher order O.D.E. solving with power series, linear O.D.E. with constant coefficients, characteristic polynomials and stability, particular solutions.

**Recommended bibliography:**

Infinitesimal Calculus (in one volume), Finney R.L., Weir M.D., Giordano F.R

## **EIGHTH SEMESTER (SPRING)**

**Course title:** Financial Statement Analysis and Business Valuation

**Course code number:** 7108

**Type of course:** CORE CURRICULUM (COMPULSORY COURSE) FOR ACCOUNTING MAJOR - CORE CURRICULUM (COMPULSORY COURSE) FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 4<sup>th</sup> year

**Semester of study:** 8<sup>th</sup> semester (spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** A. Papadaki

**Course description:** The purpose of the course is to develop students' ability to use public financial statement information to make financial decisions. The ability to use financial accounting information requires knowledge of the accounting policies, procedures and choices applied by the management of a company to produce the accounting numbers that appear in the published financial statements. The ability to make financial decisions requires both the ability to use accounting information as well as the ability to exercise sound judgment when performing the necessary comparisons and making choices. These critical competencies are developed by

studying and analyzing case studies from the international literature and the Greek experience as well as by the application of the course syllabus during the preparation of a written research project on companies listed on the Athens Stock Exchange.

The following sections are covered:

Chapter 1 Introduction to Business Analysis and Valuation.

Chapter 2 Accounting Analysis.

Chapter 3 Analysis of the return on equity and analysis of the return on total assets.

Chapter 4 Credit Risk Analysis - Liquidity Analysis - Capital Structure Analysis.

Chapter 5 Business Valuation Methods.

**Learning Outcomes:** Upon successful completion of the course, students will be able to: 1) Analyze a company and estimate its financial risk. 2) Generate statements of cash flows, estimate liquidity and perform analysis of ROE/ROA. 3) Calculate the economic value of the company as well as the drivers of economic value.

**Recommended bibliography:**

1. BUSINESS ANALYSIS & VALUATION, GHICAS DIMITRIOS, PAPADAKI APHRODITI, SIOUGLE GEORGIA, 1<sup>st</sup> Edition (2010).
2. THE ANALYSIS AND THE USES OF FINANCIAL STATEMENTS, GHICAS DIMITRIOS, 3<sup>rd</sup> Edition (2002).

**Course title:** Tax Accounting

**Course code number:** 7128

**Type of course:** CORE CURRICULUM (COMPULSORY COURSE) FOR ACCOUNTING MAJOR – ELECTIVE FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 4<sup>th</sup> year

**Semester of study:** 8<sup>th</sup> semester (spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** N. Karampinis

**Course description:** The course covers the fundamental tax issues that modern entities face. The content is divided into two distinct but still interrelated parts. The first part covers the accounting treatment and the presentation of taxes in financial statements. This analysis is based (but not limited to) on International Accounting Standard 12. Topics covered include deferred taxation, tax basis for assets and liabilities, permanent/temporary differences, and timing approach in deferred taxes. The second part covers the tax treatment of business transactions according to the Greek Income Tax Code and the European tax legislation. The course follows an international perspective. Therefore, issues such as foreign controlled entities, intra-group dividends, and tax-favorable jurisdictions are covered in great detail.

**Learning outcomes:** Upon successful completion of the course, students will be able to:

- Understand the accounting treatment of taxes.
- Be able to present taxes on financial statements.
- Be able to evaluate the tax figures presented in financial statements and draw conclusions concerning an entity's tax planning vehicles.

- Be aware of the tax treatment of business transactions.
- Understand the tax implications of intra-group transactions
- Understand the tax implications of international transactions.

**Method of assessment / grading:** Students' assessment is accomplished with a written examination at the end of the semester.

**Recommended bibliography:**

1. Dimosthenis L. Hevas (2017). *Tax Accounting Issues*, 6th Edition, Benos Publications, Athens.
2. University Notes.

**Course title:** Risk Management

**Course code number:** 7138

**Type of course:** CORE CURRICULUM (COMPULSORY COURSE) FOR FINANCE MAJOR – ELECTIVE FOR ACCOUNTING MAJOR

**Language of instruction:** Greek

**Year of study:** 4<sup>th</sup> year

**Semester of study:** 8<sup>th</sup> semester (spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** D. Georgoutsos

**Course description:** Credit institutions and risk types they face. Asset-Liability Management: Interest Rate Risk Management - Gap Analysis, Duration Gap Analysis, Liquidity Management. Market Risk Management - Development of Value at Risk models. Credit policy of Credit Institutions - Credit risk calculation models - Credit risk management (credit derivatives). Capital adequacy of credit institutions: institutional framework.

**Learning Outcomes:** The student should be aware of the sources of risk faced by a modern enterprise in the financial sector and use methods to measure these risks. They should also understand the sources of systematic risk and know the institutional framework for the stability of the financial system.

**Recommended bibliography:**

1. D. Georgoutsos, 2008, Risk Management and Capital Adequacy of Credit Institutions, (notes), Athens University of Economics and Business.
2. Saunders, A., & M.M. Cornett, 2017. Financial Institutions Management and Risk Management, BROKEN HILL Publications.
3. G. Sapountzoglou και Ch. Pentotis, 2017, Banking Economics, 2<sup>nd</sup> edition, Benos Publications.
4. Jorion, P., 2005, Financial Risk manager Handbook, 3rd ed., Wiley Finance
5. Hull, J., 2012, Risk Management and Financial Institutions, 3<sup>rd</sup> ed., J. Wiley & Sons

**Course title:** Theory of Financial Decision Making

**Course code number:** 7228

**Type of course:** ELECTIVE FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 4<sup>th</sup> year

**Semester of study:** 8<sup>th</sup> semester (spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** A. Tsekrekos

**Course description:** The aim of the course is to provide students with the theoretical background on which modern finance is developing, and at the same time to highlight the practical implications of theoretical financial models for realistic - realistic problems.

In order to achieve this goal, course teaching revolves around four key themes: Capital markets and theories of choice, Equilibrium in the capital market and asset pricing models, Dynamic models and continuous time finance theory, and theories and models of Term Structure of Interest Rates

**Learning Outcomes:** Upon successful completion of the course the student has gained a complete overview of the most basic theoretical asset valuation models and the most important theoretical financial problems. The student can perceive the axioms and assumptions on which the most important theoretical models have been based, which is a basic prerequisite for later empirical applications of these models.

**Recommended bibliography:**

THEORY OF FINANCIAL DECISION MAKING, UNIVERSITY NOTES.

**Method of assessment / grading:** Written examination at the end of the semester.

**Mode of lecture delivery and teaching and learning methods:** Lectures in class.

**Course title:** Advanced Computational Finance

**Course code number:** 7168

**Type of course:** ELECTIVE FOR ACCOUNTING MAJOR - ELECTIVE FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 4<sup>th</sup> year

**Semester of study:** 8<sup>th</sup> semester (spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** G. Chalamandaris

**Course description:** The aim of the course is to familiarize the student with the structure, operation and methodology of the Reserves Management and Risk Management Systems of a Financial Institution through an Excel and Visual Basic laboratory environment. The aim of the course is to engage students with applied finance issues related to the above 2 areas. More specifically, it includes:

Market Risk Management by the Front Office: Sensitivity Methods and Hedging of Derivatives and Fixed Income Portfolios, Credit Risk Pricing by the Debt Market and Credit Default Swaps, Financial Engineering Components with applications on complex product structuring, Simulation Methods

with Emphasis on Pricing and complex derivative hedging and implementation of VaR methods to quantify market risk, calculate economic capital, set limits and model the use of credit lines.

**Learning Outcomes:** After completing the course, the students will be able to understand the basic functions of a unified informational system of an investment bank and implement themselves (either in an Excel spreadsheet or in a programming language) applications that solve basic computational problems of finance. These concern either pricing and hedging issues or risk management calculations.

**Recommended bibliography:**

G. CHALAMANDARIS, ADVANCED COMPUTATIONAL FINANCE, UNIVERSITY NOTES

**Method of assessment / grading:** Written examination at the end of the semester (70%), Written assignment (20%), Practice Exercises (10%).

**Mode of lecture delivery and teaching and learning methods:** Lectures in class, Lab exercise.

**Course title:** Management Control Systems

**Course code number:** 7198

**Type of course:** ELECTIVE FOR ACCOUNTING MAJOR - ELECTIVE FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 4<sup>th</sup> year

**Semester of study:** 8<sup>th</sup> semester (spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** A. Filiou

**Course description:** The course examines how management information is used by management and executives aiming at the successful allocation of responsibility, performance appraisal and decision-making. It combines knowledge, techniques, tools and methodology from the fields of Business Administration, Accounting, Business Strategy and Human Resource Management to study the conditions under which a modern information and control tool can be designed and successfully operated within the business. At the same time, technological developments and practices are incorporated that can assist in implementing the basic objective of a modern control system.

**Learning Outcomes:** Students will:

- Get a clear picture of the utility / usability / feasibility of a control system
- be able to combine knowledge from different scientific fields to design a control system
- Practice on thinking how to address complex issues of administrative control of business practice
- reflect on the integration of modern applications into control and management

**Recommended bibliography:**

“Management Accounting: For Planning and Control” Gutenberg, Athens 2009. Dimitras Augustinos I., Ballas Apostolos A.

**Method of assessment / grading:** Written examination at the end of the semester (90%), Oral examination, Essay questions, Multiple choice test, Problem solving, Written Assignment (10%), Practice exercises.

**Mode of lecture delivery and teaching and learning methods:** Lectures in class, lab exercise.

**Course title:** E-Business

**Course code number:** 7218

**Type of course:** ELECTIVE FOR ACCOUNTING MAJOR

**Language of instruction:** Greek

**Year of study:** 4<sup>th</sup> year

**Semester of study:** 8<sup>th</sup> semester (spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** A. Vrechopoulos

**Course description:** This course examines the basic principles of e-business and e-commerce in business-to-business (B2B), business-to-consumer (B2C) relationships, and so on. The sections of the course include Electronic Retailing and Consumer Behavior, Market Research in e-Business, Advertising and Promotion in e-Business, eCRM, e-business of B2B, e-business strategy, as well as Emerging Trends, Technologies and E-Business Applications.

**Learning Outcomes:** Understanding the theoretical background of e-Business and the needs and opportunities of an interdisciplinary approach to the subjects that are part of the course. Assessment of the dynamics of e-business technologies and their impact on business and consumer processes as well as on the respective relationships between the parties involved. Understanding the critical factors and benefits associated with the effective adoption and implementation of e-business and gaining experience to evaluate relevant strategic and business models. Acquire knowledge about recent developments and trends in the scientific research and entrepreneurial activity in e-business but also on changes in consumer behavior

**Recommended bibliography:** Available bibliography and resources on the Department's website and e-class (e.g. files with the detailed description of the course, etc.) and access to the resources through the University Library and the Internet in general.

**Method of assessment / grading:** Written examination at the end of the semester (70%), Written assignment (30%), Public presentation.

**Course title:** Advanced Econometrics

**Course code number:** 7258

**Type of course:** ELECTIVE FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 4<sup>th</sup> year

**Semester of study:** 8<sup>th</sup> semester (spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** S. Bekiros

**Course description:** Topics in Advanced Econometrics.

**Learning Outcomes:** Upon successful completion of the course the student has a specialized knowledge of advanced econometric models and practices.

**Recommended bibliography:**

1. CHRISTOU GEORGIOS, INTRODUCTION TO ECONOMETRICS, VOLUME B', Gutenberg, 2011
2. CHRISTOU GEORGIOS, INTRODUCTION TO ECONOMETRICS, EXERCISES, Gutenberg, 2004

**Method of assessment / grading:** Written examination at the end of the semester (60%), homework, Written assignment (40%), Public presentation.

**Mode of lecture delivery and teaching and learning methods:** Lectures in class, lab exercise, study and analysis of the literature, tutorials, conducting a study, assignment writing.

**Course title:** Internal Auditing

**Course code number:** 7155

**Type of course:** ELECTIVE FOR ACCOUNTING MAJOR

**Language of instruction:** Greek

**Year of study:** 4<sup>th</sup> year

**Semester of study:** 8<sup>th</sup> semester (spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** E. Demirakos

**Course description:** The primary purpose of the course is to familiarize students with the system of internal controls, which the management of the company should establish in order to avoid, detect and prevent fraud incidents. During the course, internal controls are considered to be critical tools that an enterprise should implement in order to safeguard its assets, improve the efficiency of its operations, ensure the accuracy of its accounting data, and ensure the regulatory compliance with the policies and procedures set by senior management.

More specifically, the structure of the course includes two main parts:

1. Internal Control System and Internal Audit: Students are introduced to the alternative internal control systems, the corporate governance concept, the operational risk analysis process, the categories of internal controls, the types and characteristics of the audit evidence, the main methods of conducting internal auditing engagements, the available sampling methods and, finally, some basic business processes of the sales, expenditures, and production cycles.

2. Prevention, Detection and Deterrence of Fraud: Students learn the characteristics of various types of fraud, such as asset misappropriation techniques, corruption and financial statement fraud. For each type of fraud, students recognize the appropriate internal controls that the company management should apply to prevent, detect and deter them.

**Learning Outcomes:** Upon successful completion of the course, students will be able to understand the importance of the internal control system and internal auditing to prevent and detect financial crimes.

**Recommended bibliography:**

1. Kapardi and Tsolakis (2011). Financial Crimes in Business: Prevention, Investigation, Deterrence. Kritiki Publications.
2. Vasileiou, Iriotis, Menexiadis, and Balios (2018). Internal Audit for Businesses and Organizations. Rosili Publications.

**Method of assessment / grading:** Written examination at the end of the semester (90%), Essay questions, Multiple choice test, Written assignment (10%).

**Mode of lecture delivery and teaching and learning methods:** Lectures in class, study and analysis of the literature, assignment writing, lectures by guest lecturers and practitioners.

**Course title:** European Law

**Course code number:** 4116

**Type of course:** ELECTIVE FOR ACCOUNTING MAJOR

**Language of instruction:** Greek

**Year of study:** 4<sup>th</sup> year

**Semester of study:** 8<sup>th</sup> semester (spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** A. Pliakos

**Course description:** The purpose of the course is to teach the student the contribution of European law to the regulation of the economy within the European Union. Through the course, the student is familiarized with the features of the European Union, the regulations generated by its bodies, the policies and actions developed within the framework of the European integration process. The subjects of the course cover both the fundamental features of the European legal order as well as the basic economic regulations governing the process of economic integration. The course provides a comprehensive and systematic view of European Union law, divided into two parts, the constitutional and economic law of the Union. In this context, the course focuses on the purpose, values, competences, sources of Union law, the institutions and the regulation generation, economic freedoms and the free competition regime of the Union.

**Learning Outcomes:** At the end of the course participants should:

- Have a thorough understanding of the historical reasons for the formation of the European Union (EU), its fundamental characteristics, its policies and actions, above all its purpose and values.
- Understand the multi-level relationships developed between EU Member States, the EU and international organizations, individuals with the EU.
- Understand institutional developments at European and national level, the impact of EU rules on Member States and businesses.

**Recommended bibliography:**

- Pliakos A., The Law of the European Union (2012), Nomiki Vivliothiki.
- Maravegias N., (edt.), European Union (2016), Kritiki Publications.
- Schütze R., European Union Law (2015), Cambridge University Press.

**Method of assessment / grading:**

Written exam: 70%.

The questions require 1) extensive written answers and require a good and in-depth understanding of the course content, 2) the use of evaluation capabilities of concepts, regulatory sets and case-law applications, 3) solutions to case studies.

Pre-exam tests: 30%

Two tests before the final examinations, each with four questions of theoretical, evaluative, and practical nature, ask participants to certify their comprehension after the lectures in terms of theory, assessment of regulations and practical applications.

**Mode of lecture delivery and teaching and learning methods:** Interactive lectures, combining analysis of examples and case studies and through two evaluative, practical and learning tests before the final examinations.



**Course title:** Actuarial I

**Course code number:** 6135

**Type of course:** ELECTIVE FOR ACCOUNTING MAJOR - ELECTIVE FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 4<sup>th</sup> year

**Semester of study:** 8<sup>th</sup> semester (spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** A. Zymbidis

**Course description:** Damage models: Individual and group standard, damage or loss distributions and compensation distributions and their estimation. Application in non-analog risk coverage, asymptotic estimations of the right end in the distributions, estimating upper limits of stop loss premiums, stop loss and inflation, positive experience clauses. Bankruptcy theory. The surplus procedure, the adjustment factor and its approaches, bankruptcy possibility, discrete surplus procedure, random variables relevant to the surplus procedure. Credibility theory, partial and full credibility, Buhlmann and Buhlmann – Straub models, other models, loss functions, Bayes credibility, time series methods, Kalman filters, application in persons group insurance. Pricing. Models of insurance against damage: evolution of one use payments or one insurance year use, Reserve for outstanding losses and allocated and non-allocated settlement expenses, loss reserving methods, total and structural, triangular methods of compensation progress (chain ladder etc.), expected loss ratio, the Reid method, the Bornhuetter-Ferguson method, separate frequency and severity modeling, parametric methods (use of damage functions).

**Recommended bibliography:**

- Zymbidis, A. (2008), Actuarial Mathematics for General Insurance. AUEB Publications.
- Zymbidis, A. (2008), Risk Theory, AUEB Publications.
- Robert L. Brown, Leon R. Gottlieb (2007), Introduction to Ratemaking and Loss Reserving for Property and Casualty Insurance, ACTEX Publications.
- Kaas, R., Goovaerts, M., Dhaene, J., Denuit, M. (2008), Modern Actuarial Risk Theory, SPRINGER, 2nd ed.

**Method of assessment / grading:** Oral examination (50%) and written assignment (50%).

**Mode of lecture delivery and teaching and learning methods:** Lectures of an interactive nature and seminars.

**Course title:** Stochastic processes with applications in derivative markets

**Course code number:** 7250

**Type of course:** ELECTIVE FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 4<sup>th</sup> year

**Semester of study:** 8<sup>th</sup> semester (spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** S. Bekiros

**Course description:** The course includes topics such as Brown's Movement, Stochastic processes and Random Walk, Diffusion & Martingales, Arith. and Geom. Brown's Movement, Stochastic

Differential Changes, Black-Scholes (BS) and Brownian motions, Stochastic Calculus and BS, BS for options and shares, Garman-Kohlhagen models for BS currency options, BS for futures options, Profitability and Implied Volatility through ODE, Volatility estimation through BS, Lemma Itô, Stochastic algebra, Itô for ABM and GBM, Lemma Itô for Greeks, BS solutions through stochastic processes Itô, Sharpe Ratios, Stochastic differential equations of balanced risk, Girsanov theorem, Stochastic integration, Greeks for portfolios, Elasticity of derivatives Portfolios, Examples / Applications.

**Learning Outcomes:** The purpose of the course is to specialize students in stochastic calculus, namely mathematical calculus methods of continuous time and the corresponding financial models that are considered absolutely necessary for the specialized financial analyst especially in the derivative products markets. Excellent knowledge of probability theory and statistics are required, of theory and application of derivatives, mathematical calculus in economic and business problems, differential equations and some specific topics of stochastic econometrics. Upon successful completion of the course the student is specialized in advanced techniques of stochastic processes and realizes that these techniques can be applied to real financial problems through their application in derivatives markets.

**Recommended bibliography:** “Stochastic Differential Equations with Applications in Finance”, Author: Ioan. Spiliotis, Symeon Publications (Athens 2004), ISBN: 960-7888-43-X.

**Method of assessment / grading:** Written final exam and/or assignment.

**Mode of lecture delivery and teaching and learning methods:** Lectures in class and tutorials.

**Course title:** Special Topics of Portfolio Management

**Course code number:** 7197

**Type of course:** ELECTIVE FOR FINANCE MAJOR

**Language of instruction:** Greek

**Year of study:** 4<sup>th</sup> year

**Semester of study:** 8<sup>th</sup> semester (spring)

**Number of credits awarded:** 6 ECTS

**Name of instructor:** I. Samantas

**Course description:** The course presents and analyzes the theoretical dimension of modern active portfolio management techniques. The course examines the research approach (quantitative or other) that precedes the formation of an investment portfolio, methods of risk measurement and prediction of future stock returns, portfolio construction techniques as well as practices used to measure return and evaluate portfolio managers.

**Learning Outcomes:** At the end of the course the students will be able to:

- Compare the effectiveness of alternative investment strategies
- Understand the concepts of Portfolio Management and Risk Diversification
- Understand the pricing models of the securities and the implications of their assumptions in the analysis and evaluation process
- Be able to formulate, implement and evaluate portfolio management strategies
- Be aware of the building blocks of a wide range of collective investments

- Develop and present modern portfolio management principles with emphasis on academic research, and empirical data (portfolio construction, risk management, monitoring, performance appraisal)
- Apply data processing packages such as Matlab, Eviews and Stata
- Construct portfolios using passive and active portfolio management techniques
- Develop, balance and evaluate a portfolio based on investor's goals and constraints
- Evaluate complex situations associated with hedging strategies, estimates, tax regime, regulatory framework and capital requirements across a range of different markets and economies
- Apply diversification practices to a global portfolio
- Incorporate alternative investments into a traditional portfolio
- Know basic investment strategies for alternative investments

**Recommended bibliography:**

- Kiochos, P., Kiochos, A., Papanikolaou, G. (2003). *Portfolio Management and Financial Risk Management*. SYNCHRONI EKDOTIKI Publications. ISBN: 978-960-816550-2.
- Papadamou, S. (2009). *Portfolio Management*. G. Dardanos – K. Dardanos Publications. ISBN: 978-960-011274-0.
- Filios, V. (1997). *Portfolio risk assessment and management*. SYNCHRONI EKDOTIKI Publications. ISBN: 978-960-734470-0.
- Thanos, G. (2015). *Money and Capital Markets and Portfolio Management*. Tsotras Publications. ISBN: 978-960-937087-5.

**Method of assessment / grading:** Student assessment is carried out with a final exam based on the topics covered during the semester and exercises corresponding to those that have been taught. Exam subjects are designed to cover learning outcomes, but also to foster student critical thinking. Students will be able to participate optionally in an assignment with a 20% weighting in the overall grade, which will be related with managing and evaluating a portfolio. The assignment will require the processing of real data using programs such as E-views and Stata. The learning outcomes will be achieved through a combination of discussions during lectures, case studies and the solving of practical examples as well as empirical data analysis.

**Mode of lecture delivery and teaching and learning methods:** The course is taught twice a week with two-hour lectures. The lectures are supported by detailed teaching notes and presentations, as well as proposed bibliography, related to each thematic unit. Each subject is supported by exercises that are analyzed during the lectures, with the participation of the students, as well as by additional exercises given to the students for further study. The course is structured as a combination of lectures, activities during lectures and presentations by students, and requires active participation during lectures. The learning process is supported by various activities including case studies, individual or group work, and familiarization with databases and data processing packages (Matlab, E-views, Stata). The course material is covered in the lectures. During lectures, various ways of linking theory to practice will be used, mainly through case study, exercise solving, and presentation of how econometric packages and databases are used.

Feedback from students is always valuable and appreciated. Students are supported throughout the semester, through weekly student-teacher contact hours and e-mail.

## **C. PART THREE: GENERAL INFORMATION FOR THE STUDENTS**

Athens University of Economics and Business prioritizes not only the provision of high quality education but also the provision of high quality services. The Presidential Decree 387/83 and Law 1404/83 determine how University Student Clubs are operated, organized, and administered so as to achieve improvement of living conditions of the University students and entertainment, and promote their social and intellectual education with processes and initiatives to participate in socialization.

In order to fulfill this objective it is necessary to ensure the relevant infrastructure for housing, boarding, athletics, with the operation of a restaurant, canteen, reading room, library, the organization of lectures, concerts, theatrical performances and excursions in Greece and abroad, the development of international student relations, the instruction of foreign languages, computer science and Modern Greek as a foreign language for foreign and expatriate students, and the provision of any other means.

### **C1. Living Cost**

The cost of living is calculated using current housing and boarding prices. This cost is reduced if students qualify for free accommodation and meals.

### **C2. Housing**

The Student Club of the Athens University of Economics and Business is responsible for providing free accommodation to its students under certain conditions, which are available on the Student Club's website (<http://www.aueb.gr/el/content/φοιτητική-λέσχη>). At the same time, the Student Club of the University also has a Student Accommodation Office, which collects advertisements for apartment rentals.

### **C3. Boarding**

In the main building of the University there is a restaurant where all members of the university community can enjoy meals either for free or for a fee. Free meals are granted to those who meet the necessary conditions for which they are informed by the Student Club office.

### **C4. Medical Services, Insurance / Healthcare**

Undergraduate, postgraduate and PhD students of the University who have no other medical and hospital care are entitled to full medical and hospital care in the National Health System (E.S.Y.) with coverage of the relevant costs by the National Health Service Provider (E.O.P.Y.Y.). The doctor's office is located in the main building and operates on specific workdays. The Emotional Health Counseling Service also operates at the University, where a physician specializing in the psychodynamic treatment of mental health issues is employed.

### **C5. Services for Students with Disabilities**

Athens University of Economics and Business ensures that the needs of students with disabilities are accommodated through the design and implementation of adaptations to the environment to facilitate access to university buildings. In particular, in the main building there are specially

designed hoist machines, ramps as well as lifts. There are also special exam rules for students with disabilities.

In addition, the Library provides students with visual impairment with the ability to access online the proposed Greek bibliography of the courses taught at the University. In this context, the Association of Greek Academic Libraries has developed a multimodal electronic library called [AMELib](#). Access to this service requires user authentication as well as the use of username and password. More information can be found on the Library website ([www.aueb.gr/library](http://www.aueb.gr/library)).

#### **C6. Student Financial Aid**

Undergraduate students of Higher Education Institutions and Higher Ecclesiastical Academies, Greek citizens or citizens of other European Union countries, are entitled to annual housing allowance in accordance with the terms and conditions set out in the Joint Ministerial Decision 140832 / G1 / 25-8-2017 (Government Gazette 2993 B / 31-8-2017).

Also, the State Scholarship Foundation (IKY) annually grants scholarships to students who have excellent academic performance in their semester courses and for high score of admission to the Higher Education Institutions. The Secretariats of the respective Departments shall notify the names of the Candidate Scholars by announcement and set the deadlines for submission of supporting documents.

In addition, the "George Halkiopoulos Foundation" which grants scholarships depending on the academic performance and the financial status of the candidates operates at the University. In October of each academic year, the Foundation (Public Relations Department, ground floor building) announces the amount of the scholarship, as well as the manner and timing of submission of interested parties' applications.

Finally, other awards are occasionally granted by various Institutions, Organizations and Companies. Information is provided by the Department of Student Welfare of the Division of Educational Affairs (ground floor of the main building) and by the Secretariats of the Departments, as well as on the central website of AUEB.

#### **C7. Office of Student Affairs – Study Advisors**

In each Department a Professor-Advisor is appointed by the Assembly of the Department, with the competence to direct and advise students on their studies. The Professor-Advisors (faculty members and EDIP) accept the students for queries and advice regarding the educational process on days and times announced by the Professor-Advisor's office.

#### **C8. Study Rooms - Reading Rooms - Libraries**

The Library & Information Center of Athens University of Economics and Business was established in 1920 and operates on the first and second floor of the University's main building. It participates in the Hellenic Academic Libraries Association (Heal-LINK), the European Documentation Centers' Europe Direct and the Hellenic Economic Library Network (H.E.L.I.N.). Moreover, three (3) Documentation Centers operate in the Library:

- The European Documentation Center since 1992,
- The Organization for Economic Cooperation and Development (OECD) Documentation Center (Depository Library) since 1997,

- The Documentation Center of the World Tourism Organization (UNWTO) publications since 2004.

The Library contributes decisively both to meeting the needs of the academic community for scientific information and to supporting teaching and research work. This objective is achieved through the unified organization of collections and the coordination of the services provided. The Library provides access to:

- the printed collection of books and scientific journals,
- the books taught in university lectures,
- the collection of electronic scientific journals
- the collection of e-books
- the postgraduate theses and doctoral theses conducted at the Athens University of Economics and Business and deposited in digital form at the PYXIDA institutional repository
- sectoral studies
- statistical series by national and international organizations
- audiovisual material
- informational material (encyclopedias, dictionaries)
- collection of official government publications of the European Union, the OECD and the UNWTO
- databases on topics addressed by the University
- printed collections of other academic libraries

The Library lends material to its members, for all its printed collections, except for journals and statistical series, in accordance with its internal regulation of operation. The Library and Information Center has as a reading room, computer workstations for visitors, photocopiers and printing machines, and provides the opportunity to borrow books and journal articles through interlibrary loans from other academic libraries that are members of the networks in which it participates.

### **C9. International programs and practical information on international student mobility**

Athens University of Economics and Business is actively involved in the Erasmus+ Program by promoting cooperation with universities, businesses and international organizations of the European Union (EU) as well as the mobility of students, teaching and administrative staff. Within the framework of the above Program, the University collaborates with more than 220 European Institutions on the subjects that its Departments teach. It is worth mentioning that more than 7,000 students have participated in the "Erasmus" Program to date. Of these, about 4,000 AUEB students have attended courses at Associate Universities in the European Union, and about 3,000 foreign students have completed a period of study at AUEB and ensured accreditation through the European Credit Transfer and Accumulation System (ECTS). In addition, Athens University of Economics and Business coordinates the Erasmus+ Professional Practice Club with the National Technical University of Athens and the Universities of Crete, Ioannina and Macedonia as its partners, to provide students of the five (5) Universities the opportunity for practical training as well as provide to faculty members and administrative staff teaching / training opportunities.

Finally, AUEB, within the internationalization and extroversion strategy has been successfully participating in the International Credit Mobility Program with the aim of developing

international collaborations in education and research with Partner Universities in countries outside the E.U. through: a) student mobility; b) the mobility of teaching staff for short-term teaching; and c) the mobility of teaching / administrative staff for training. The Program has been implemented in the University since the academic year 2015-2016, and until today, there have been a total of 52 student and staff members participations from and to 8 Partner Institutions in countries outside the E.U. (U.S.A., Canada, Singapore, Russia, South Korea, Armenia). More information can be found on the central website of AUEB (<https://www.aueb.gr/en/content/erasmus-programme>).

#### **C10. Foreign Language Courses**

Knowledge of foreign languages, as a universally accepted educational value, is a necessary resource for effective participation of the individual in the complex job market and social reality. The Student Club, understanding this modern educational necessity, offers the opportunity to every university student of Higher Education Institutions or Technological Education Institutions, as well as to all those who are interested in attending relevant seminars. Seminars are held in English, French, German, Spanish, Italian and Russian, and new language seminars are available if there is sufficient interest.

#### **C11. Internships / Professional Practice**

The mission of the Central Office of Practice is to promote in the best possible way the linking of theory to practice and the transition of students from student to working life. Internships are an integral part of education at the Athens University of Economics and Business, as all the Departments have established and included them in their curriculum. Internships have a duration of 2-4 months and are mainly implemented in three periods (winter semester, spring semester and summer). Preparatory seminars are conducted before each internship period. Information: 13 Elpidos street, 3rd floor.

#### **C12. Sports facilities**

The Athens University of Economics and Business organizes a variety of sports activities. It has a long history in sports accompanied by a multitude of distinctions, medals, cups, prizes in national and international competitions. In order to continue providing comprehensive education to its students, Athens University of Economics and Business collaborates with the City of Athens Cultural, Sports and Youth Organization and uses its sports facilities, located at 10 Pasov Street, Grava, Ano Patisia (indoor swimming pool, indoor basketball and volleyball court, open athletics course), at the junction of Ermonassis & Pityountos - Thermis (5x5 open soccer field) and at the junction of Mitsakis street & Polyla street - Ano Patissia (Open tennis-tennis) court.

The teaching of the courses in the Department of Physical Education of AUEB follows the curriculum for the teaching of academic subjects. It begins with the beginning of the winter semester and ends with the end of the spring semester courses. It is worth noting that students have the right to attend the Physical Education courses up to six months after receiving their Degree. The Department of Physical Education of the Athens University of Economics and Business is staffed by well qualified Physical Education Teachers and by specially trained teaching staff.



**C13. Student Associations**

Various Student Organizations and Associations are active in the university community of Athens University of Economics and Business. More information can be found on the main website of AUEB (<https://www.aueb.gr/el/content/σύλλογοι-φοιτητών>).