Module 1

Quantitative Finance (APP)
This course will provide students with a working methodology and a solid knowledge base for the use of statistical and econometrical tools in finance. Through case analyses and problem-solving in class, students will gradually gain the confidence required to work with the most common statistical and econometrics techniques used in finance.

Financial Accounting (FAA)
This course will explore the main items within corporations’ financial statements and how financial information is communicated to external parties. It will look at financial accounting from an international perspective. Additionally, the course will look at consolidation policies, accounting for international corporations.

Corporate Finance (CFI)
This course will examine the foundations of financial theory by exploring the foundations of analysis of the financial situation of a business, evaluation of capital investment decisions, drivers of the cost of capital and how to gauge the optimal capital structure. The student will also learn topics related to advanced corporate finance, such as dividend and buy back policy, corporate restructuring, and issues of securities, agency problems, asymmetric information, or executive compensation policies.

Economics for markets (ECO)
The course aims to introduce students to some of the most important concepts of macroeconomics. With the impact on firms as the main concern, this course aims to familiarize students with the nature of macroeconomic variables (GDP, employment, inflation, and economic cycles) and the likely economic policy responses that their behavior may induce. The course will extend into the workings of open economies: international trade and finance, the determination of exchange rates and international policy co-ordination (free trade areas and common currency unions).

Derivative Fundamentals
This course will analyze the foundations of derivatives, valuation of these instruments and how they are used to manage risk as well as to take investment views. The student will learn about managing financial risk as well as the different techniques available to measure said risks. The course will also cover the evaluation of financial risks both in financial and non financial institutions, the valuation of the different derivatives instruments available to manage risks and the role of risk management within the overall corporate strategy.

Investing in Emerging Markets (ECO)
It is simply not possible to understand global financial markets without understanding the dynamics of emerging markets: their weight in global economy growth, trade, population, impact on the production and consumption of basic resources, relevance in terms of foreign reserves, etc. All these factors should place them firmly on the radar of any investor. How could you invest in BHP Billiton or Volkswagen without knowing how important China is for these companies? Or how could an investor invest in Telefonica without at least analyzing its Latin American operations? Did anybody notice that China has 6 large cap corporations in the Global
Top 25, in second position behind the USA (with 12)? And that PetroChina is the second largest company in terms of market cap globally? Or that the two largest banks in the world are Chinese? These are just a few of the facts that illustrate how emerging markets are, in a way, leading the world. During these sessions, we will talk about the main EM regions, with a special focus on BRICs, the different EM profiles (consumer based countries, commodity producers, mixed profiles), the tools we can use to invest (from ETF to ADR), how easy it is to invest and edge (using derivatives) in these countries, currencies, main risks and barriers, key companies, investment trends (“bankarization”), and the increasing weight of consumers, housing, energy infrastructure, etc. Concepts such as carry trade, decoupling, correlation or relationship risk/reward will also be reviewed.

**Fixed Income Fundamentals (INV)**
This course is a practical approach of how bonds are traded in the financial markets and the key determinants of their performance and valuation.

**Portfolio Management Simulation I**
The key concepts of portfolio management theory will be studied in the second period, including topics such as the efficient portfolio, correlation between asset classes and risk measuring techniques applicable to the investment process, such as the information ratio. The course will cover the main implications of asset management in main asset classes: equities, bonds and alternative investments. An internet-based internet simulation of portfolio management will be used during this course, providing the student with the opportunity to prove his/her money-making skills. Student will have to build equity, bonds and currency portfolios simulating real life experiences and using live market data. They will have to make presentations justifying the rationale behind their portfolios and their security selection. The grading of the course will be based on both the return of the portfolios and the quality of the analytical reasoning underlying their investments.

**Financial Modeling**
The “financial modeling” course will deal with the effective use of the spreadsheet as a basic tool for financial analysis, data modeling, construction of models and specific tools for financial analysis. The course will focus on familiarizing students with the modeling process, from the basics of data management to the use of user-defined functions and personalized macros. A group project covering the development of specific analysis tools will generate a shared repository of ready-to-use, community-developed, financial models.

**Foreign Exchange (CFI)**
The focus of this course is on the unique problems encountered by the international treasurer or chief financial officer of multinational corporations. It is the international sequel of a corporate finance course and as such it revisits the same funding/financing and investment questions within a multi-currency setting. A special attention is given to risk management.

**Behavioral Finance**
Psychology plays a pivotal role in the pricing of assets. On average, during rainy days the stock market underperforms to sunny days. How human psychology affects these variables will be covered in this course, which will run though the most up to date literature existing on these issues.

**Employability in Finance**
The objective of this course is to make you aware of the importance of managing and leading your professional career with a proactive approach. This course offers a wonderful opportunity to develop the management skills and competences required to improve your “employability” as well as your “market value”, given that this is the best time to take control and responsibility of your personal and professional development. The Employability in Finance Course is conducted
by members of the Career Management Centre (CMC) with the collaboration of external partners such as career counseling consultants, recruitment professionals and HR managers and headhunters across a wide range of companies within the Finance sector in Spain and abroad. Also your class’s Career Counselor will work with students throughout the year and will assist students individually on their career planning and strategy.

Module 2

Valuation & Equity Research
This course provides a critical analysis of the different equity valuation methodologies, with their advantages and disadvantages in different scenarios and contexts within the capital markets. Specifically, the course will cover the main valuation methodologies applied in finance (discounted capital cash flows, discounted equity cash flows, dividend discount models, market multiples, similar transaction analysis, adjusted present value, real options, Montecarlo simulations).

Fixed Income Derivatives
This course will explore the current trends within the fixed income derivatives markets, the investment process within these products, the application of credit default swaps and their relationship with the financial markets. The course will also cover the SWAP market, which has experienced astonishing growth rates since its inception in 1981. SWAP agreements are now widely used in a variety of markets and with many different underlying products. This course will explore basic and complex SWAP structures, their valuations and applications.

Advanced Corporate Finance
A critical analysis of the different equity valuation methodologies, with their advantages and disadvantages in different scenarios and contexts within the capital markets. Specifically, the course will cover the main valuation methodologies applied in finance (discounted capital cash flows, discounted equity cash flows, dividend discount models, market multiples, similar transaction analysis, adjusted present value, real options or Montecarlo simulations).

Islamic Finance
Islamic finance is becoming an increasingly important field of investment as Gulf investors have become pivotal actors in the world’s capital markets. Islamic law (sharia) considers very specific products to be allowed. A deep understanding of the mechanisms used to issue sharia compliant products will be a big asset for any future financier. This course will cover all these fields.

Commodities
This course will cover the increasingly important market of the main types of commodities. The course will also explore the main options used to trade commodities or to hedge commodities risk.

Portfolio Management Simulation II
See course description in Module I.

Entrepreneurship through Acquisition & Private Equity
The course “entrepreneurship through acquisitions” will show students how acquiring an established business through a management buyout supported by private equity and a well structured financing is a viable tool to become an entrepreneur. In this course students will...
seek for potential investments suitable for a private equity and select these opportunities together with the financing to a selected audience of private equity professionals.

**Advanced Issues in World Economy (ECO)**
The aim of this course is to equip students with critical analytical skills in the field of economic environment. The course provides the analytical tools and background information needed to have an informed opinion on different positions in the current economic debate, and their implications for businesses and financial markets.

**Employability in Finance**
See course description in Module I.

**Financial Inclusion (TBC)**

**Mergers & Acquisitions (CFI)**
This course will put into practice the knowledge acquired in the different corporate finance and valuation courses and will explore how deal making is structured from the point of view of the companies and from that of corporate financiers.

**Asset Allocation**
Strategic Asset Allocation is a course which faces the real challenges faced by chief investment officers when allocating savings in global portfolios. This course will not deal with the art of stock selection, not with the art of specific bond selection. It will just deal with the big global flows based on top down investment. To achieve this, the course will consider the main asset classes available to trade ideas, and how these classes behave to macroeconomic data. Additionally, the course will brief students on the valuation tools that strategists use to allocate funds on a global basis.

**Risk Governance (TBC)**

**Employability in Finance**
Please see course description of Period I.

*The structure/courses may be altered depending on market dynamics and company demands.*