Ca’ Foscari Foundation Year

Program Structure and Course Contents
In order to pass Foundation Year and obtain the final certificate, students must successfully complete each of the three learning modules:

**Program Overview**

**General Curriculum**  
(compulsory)  
These are the three mandatory subjects for everyone.  
- Modern and Contemporary Italian history  
- Critical Thinking  
- Academic skills for University preparation

**Language module**  
(students choose one module)  
A. International Option (English)  
B. Bridge Option (Italian)  
C. Native Speakers Option (personalised)

**Study Track**  
(students choose one track)  
A. Economics and Management Track  
B. Humanities Track  
C. Science Track  
D. Architecture, Art & Design Track
General Curriculum

The general curriculum is taken by all students and offers classes in modern Italian history, critical thinking and a workshop on academic skills for university preparation. All subjects are taught in English.

Modern and Contemporary Italian History
This course will provide an overview of the major cultural and political developments that have defined Italian modern and contemporary history in its European context (1789-1948). The course is divided into 2 modules: during the first semester students will study the period following the French Revolution, to focus on the events leading up to the creation of the Italian independent State, and Italy’s role in WWI. In the second semester the module on contemporary history will analyse the rise of Fascism in the 1920s, Italy during WWII, with special attention to the transition from Fascism to the Republic and the challenges faced by the post-war Italian state and Italian society. At the end of the course students will have gained a general knowledge of the key concepts and main periods in modern and contemporary European and Italian history.

Critical Thinking
The course will explore the foundations of critical thinking in order to provide awareness of our own beliefs about the world, where they come from and why we might have them—with a focus on how power and politics shape the ways that we understand the world, and how critical thinking can serve as a resource to empower people. The more general outcome will be an improvement in the students’ communication skills. The topics will help students acquire new skills and boost their abilities to reason, think and debate in a critical way. Students will be guided through several lessons in a process that will enable them to discuss rationally about their statements, arguments, beliefs and to provide evidence. The aim of the course is also to foster the development of critical thought regarding media contents, social and moral problems.

Academic skills
The workshop is designed to assist students so as to learn, understand and reinforce their academic skills. It will focus on academic essay writing, researching sources and verifying their reliability, as well as strengthening the students’ study method through various activities and strategies.
Language module

Depending on the degree program they want to apply for at the end of the Foundation Year, students choose to take one of three language module options.

**International Option (English)**
This option is meant for students wishing to enrol in a degree program entirely taught in English. Students will study to achieve a B2 language level in English, while also attending a course in Elementary Italian which will help them becoming part of the student and local communities.

By attending several language classes every week, students will consolidate their knowledge of grammar and new vocabulary. Besides, through participation in group activities, they will quickly gain more confidence in speaking a foreign language.

**Bridge Option (Italian)**
This option is meant for those wishing to enroll in an Italian-taught degree program, as it helps them to achieve a B1 level within one year. Student will then be able to apply to all Ca’ Foscari’s undergraduate programs (under a special agreement that allows them to achieve a B2 level by the end of their first year).

Students choosing the Bridge Option will take intensive Italian language lessons, alongside the English-taught classes of their study track and general curriculum. They will also be divided into smaller groups based on their language level, which will be assessed at the beginning of the program.

**Native Speaker Option**
This is a personalised option for students who can demonstrate to be both a native speaker of English, and have a C1 knowledge of Italian. Students in this category will take extra disciplinary courses in English and courses in formal speaking or writing in English or Italian, and will be required to write a short thesis in the language of their choice, which will be reviewed by the Teaching Committee for evaluation.
Study Track

Each student chooses a Study Track from one of the four options below. Students must attend and successfully complete each course within the Track.

**Track A: Economics and Management**

This set of courses is designed for students wishing to apply for a degree course in the fields of economics or management.

**Mathematics**
These are the fundamental topics covered in this course:

- Terms and forms of mathematical language: logical connectives; implication; quantifiers; definition; axiom; theorem.
- Elements and sets. Subsets and operations between sets.
- Functions. Composite and inverse functions. Real functions of real variables: monotone; periodic; even; odd; Graph of a function. Transformations of function graphs. Linear, quadratic, exponential and logarithmic functions.
- Equations and inequalities: rational; irrational; with absolute value; exponential; logarithmic.
- Coordinate systems in the plane and in the space. Distance in the plane. Line, circumference, ellipse, hyperbole and parabola.
- Basics of Trigonometry

**Fundamentals of Financial Literacy**
This course introduces students to some of the main topics in economics by improving their knowledge of financial markets and their comprehension of the financial behaviour of individuals along the life-cycle. The course is divided into two modules.

The first module will cover the current and future value of money (interest, compounding interest and present value); prices, inflation and purchasing power of money inflation; the lifecycle model and risk attitudes; financial markets (price-return and risk-return relationships); diversification and portfolio choice; and finally biases in investors’ choices.

The second module will focus on loans mortgages (both fixed and floating rate); investment products (bank saving accounts, stocks, bonds, mutual funds, Exchange Traded Funds, retirement accounts, life insurance policies); investors protection; pension systems: multi-pillar systems, defined benefit and defined contribution pension plans.
Business Management and Administration
This course is an exploration of some of the fundamental themes at the basis of business administration and contemporary management studies. In particular, the course aims at equipping students with concepts, definitions and tools that will be useful in their further management studies at the university. The course will cover topics such as the structure of business firms and organizations; the nature and content of management as a profession; strategy, marketing and innovation (the interfaces between firms and demand); financial performance measuring and reporting, and the relevance of accounting in this process.

Introduction to Law
This course gives students a basic knowledge of all important aspects of Law. Students will deepen their knowledge on topics that span from the phenomenology of legal systems in modern and contemporary Western experience, to national states structures and their constitutions. Course contents will also include fundamental rights and the legal regulations of relations between private subjects, as well as fundamental institutes of relations between individuals such as contracts, and obligations. The impact of the European Union on national systems, from the point of view of public law and private law is also going to be discussed in class, together with notions on Civil law and common law.

Data Analysis
The course is expected to include hands-on sessions to give students the possibility to carry out data analyses assisted by the course instructor. See here below the two main areas of study of this course.

Coding tools for data management
• Definition of a research question and identification of the relevant variables to consider
• Introduction to a statistical software for data-analysis
• Data collection and organization of datasets
• Basic notions of coding: conditional expressions, loops
• Examples and applications

Applied statistics for data analysis
• Variable types: quantitative and qualitative variables
• Summary statistics and graphical data visualisations of the distribution of quantitative and qualitative variables
• Statistical tools and graphical data visualisations to describe the relationships among variables
Track B: Humanities

This set of courses is designed for students wishing to apply for a degree course in the fields of Humanities.

**Italian literature**  
The course will offer a detailed overview of Italian Literature from 1300s up to today through both lectures and seminars. Lectures will guide students through major literary works (poetry, novel, essay, theatre), following the general timeline of cultural history in Italy – the Florentine “Trecento”, Humanism, Renaissance, Classicism, Baroque, Romanticism, Risorgimento, Verismo, Fascism and Futurism, Neorealism. Seminar classes will focus on reading and analyzing specific literary texts throughout the course in small groups or as a discussion based on homework assignments.

The objective of the course is to provide students with a general but solid knowledge of Italian literary tradition, focusing on those milestone works along the evolution of literary genres and forms (sonetto, novella, commedia dell’arte, libretto d’opera) that have allowed Italian culture and language to become appreciated internationally.

**Art History**  
The course will focus on the development and the spread of the arts in Italy and Europe from the early Medieval period to the 19th century. Starting from the end of the Roman Empire and its legacy, the course will explore the main traits of each historical period of the arts produced and preserved in Italy and Europe (Greek and Roman, Byzantine, Medieval, Renaissance, Baroque, Rococo, Neoclassical, Contemporary Art).

Students will experience a combination of different teaching and learning techniques (frontal lectures; group discussion; group-work; guided tours) enabling them to describe and compare works of Italian architecture, painting and sculpture, and to learn how to set them in their historical context and within the development of the History of European and Italian Art.

At the end of the course, students will be able to identify the main periods of Italian art history within their historical and cultural context and analyse the characteristics of prominent works of art.
Philosophy
This course is designed to enable students to read and analyse philosophical texts and topics. It will cover the development of Western philosophical thought throughout the ages, providing students with the key philosophical concepts and questions, as well as insights into the historical and theoretical context surrounding the development of the framework of Western philosophy, from its ancient origins (Plato, Aristotle, Saint Augustine) and through key-figures of the Middle Ages and early modern period (Saint Thomas, Descartes), up to modern day (from Kant to Hegel). Students will gain an understanding of the main schools of thought and their approaches (e.g. metaphysics, idealism, materialism, empiricism, etc.) and will become acquainted with a variety of philosophical issues (e.g. the mind-body problem, the nature of beauty and goodness, and the relation between human freedom and necessity) which are key to critical thinking and problem-solving skills.

Introduction to classics
Starting from the very first key question of “What is Classics?” and inquiring how this definition evolved over time, this course will provide an introduction to the history and literature of ancient Greece and Rome based on extracts from key texts of Greek tragedy and Latin love poetry, and by such authors as Homer and Virgil. Students will also be introduced to the use of classical myths as the first form of historical records, and will then follow the evolution of historiography from its oral beginnings to the more modern written forms. By addressing these texts in their cultural and historical context, students will gain a basic knowledge of Classical culture and society. The course will help students identify the Classical roots of European culture, and of Italian culture within it.
Track C: Science

This set of courses is designed for students wishing to apply for a degree course in the fields of science, such as Environmental Sciences, Chemistry, Computer Science, and Engineering Physics, and will include topics such as mathematics, physics, chemistry and biology.

Mathematics

These are the fundamental topics covered in this course:

• Terms and forms of mathematical language: logical connectives; implication; quantifiers; definition; axiom; theorem.
• Elements and sets. Subsets and operations between sets.
• Functions. Composite and inverse functions. Real functions of real variables: monotone; periodic; even; odd; Graph of a function. Transformations of function graphs. Linear, quadratic, exponential and logarithmic functions.
• Equations and inequalities: rational; irrational; with absolute value; exponential; logarithmic.
• Coordinate systems in the plane and in the space. Distance in the plane. Line, circumference, ellipse, hyperbole and parabola.
• Basics of Trigonometry

Physics

These are the fundamental topics covered in this course:

• Definition of position, velocity, acceleration. Uniform linear motion. Linear motion at constant acceleration.
• Work, energy, power. Energy conservation. Friction.
• Fluids. Pressure. Pascal’s and Archimedes’ principles.
• Sound. Propagation. Intensity. Echo, resonance, interference.
• Electric charge. Static electricity. Coulomb’s law. Insulators and conductors.
• Radioactivity (outline). Atomic theory of matter (outline).

**Chemistry**
These are the fundamental topics covered in this course:
• Elements, compounds and atoms.
• The gas laws.
• Atomic mass.
• Mole.
• Basic rules of nomenclature.
• Stoichiometry.
• Subatomic particles and atomic structure.
• Periodic table.
• Chemical bonds, intermolecular forces.
• The properties of solutions.
• Thermodynamics.
• First principle, enthalpy, state functions, entropy.
• Second principle, free energy.
• Reaction kinetics and chemical equilibrium.
• Chemical reactions: acids and bases, redox reactions, electrochemistry.
• Alkanes alkenes, alkynes, aromatic compounds.
• Functional groups.
• Biomolecules: carbohydrates, aminoacids, polysaccharides, proteins, DNA.
• Cellular metabolism and photosynthesis.

**Biology**
These are the fundamental topics covered in this course:
• Definition of “life”. Life molecules and organic compounds. Biomolecules.
• Genetics: Mendel’s experiments and his laws. Variations on Mendel’s laws, incomplete dominance, co-dominance.
• The evolution: evidences. Fixism and evolution. Lamark and Darwin. Modern evolutionary theory.
Track D: Architecture, Art and Design

This set of courses, provided by IUAV – University of Venice, is designed for students wishing to apply for a degree course in the fields of art, architecture, fashion design, or urban planning. As suggested by the national admissions policy for undergraduate studies in Architecture, students will take two admission test simulations (in Italian) during the course.

**Italian Architecture**
This is an introductory course in architectural studies, designed to give students a head start in two key areas. First, it provides an overview of the most significant movements in the history of architecture and art, starting with Italian and European dynamics. Second, it introduces the participants to the fundamentals of architectural design, illustrating its basic tools and methods. The goal is to introduce students to the primary terms and concepts of the architectural discipline, while practicing and sharpening their skills as it pertains to reading, writing, discussion, critical thinking, team working and problem solving. The course alternates lectures, design exercises and activities in which the students are invited to take the lead, such as presentations of short research assignments and reading discussions.

**Communication, Visual and Interior Design**
The course is aimed at introducing students to the knowledge of the constitutive principles inherent in the design of objects, spaces and communication artifacts, considering also the relationship with analog and digital tools that come into play in their conceptualization and concretization. The proposed subjects will mainly focus on the investigation of the fundamental processes related to perceptual, formal and spatial configuration, referring in this sense to the tradition of preliminary training extensively codified within the 20th century’s design pedagogy. The introduced concepts will be systematically contextualized from the historical and theoretical point of view, in order to support students in the development of a design sensitivity which, albeit in an embryonic form, is aware of the cultural roots from which such instances arise.

**Fashion Design**
The intention of this course is to create a space in which to begin exploring fashion design practice, and offer contextual perspective and tools for participating with sensibility and discernment in this crucial cultural conversation. The purpose of this course is to assist students in orienting and preparing themselves for further studies in fashion design, through the
study of topics such as fashion history, communication strategies for fashion, the Italian art and fashion system and through drawing sessions. The course will mostly examine the period from the end of the 19th century to the present day, while also taking a look at what is emerging on the horizon. Students will gain clarity on where and how fashion design touches their life path and interests, and see how these are also embedded in the wider collective context.

**Urban Planning**

This course has the general objective of providing students a reference framework relating to the major themes of urban planning, intended as a discipline of connection between differing knowledge. The course offers a path divided into three major segments, through which students will be asked to deal with the main issues, problems and opportunities that concern the contemporary city (such as climate change, energy, place identity, city and territory resilience, social equality), its process of change and the main techniques that historically have marked the fundamental evolutionary traits. The aim is to provide adequate historical-cultural and technical-practical knowledge of urban planning, with the aim of teaching students the fundamental principles and tools to read, interpret and act on contemporary urban contexts.

**Visual Arts**

This course introduces students to the fundamentals of visual arts, focusing on the techniques and languages used in European artistic production in the modern era, from the Renaissance to the present day. Taking Venice as its main case study, we will explore the relationship between the city and the local artistic production, as the result of global exchanges and trans-historical processes. Venice is simultaneously a timeless and contemporary city, where the visual arts play a central symbolic role of creation of collective imaginaries which travel well beyond urban limits. The focus will be on the material history of works of art, and their change of meaning when displaced from their original location to an exhibition space (i.e. from church to museum).