

ENGLISH COURSES GUIDE 2023-1

PUCP

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MOBILITY DIVISION



TABLE OF CONTENTS

1

Faculty of Architecture & Urbanism

**Faculty of Management & Executive
Direction**

2

Faculty of Psychology

General Studies in Humanities

3

Faculty of Social Sciences

4

Faculty of Gastronomy & Tourism

6

Faculty of Law

7

Faculty of Art & Design

8

General Studies in Sciences

9

Faculty of Sciences & Engineering

Architecture & Urbanism

Walkable Cities old and new: Gender, accessibility, day and night

- **Teacher:** Álvarez Calderón , Rosabella Vita
- **PUCP credits:** 2
- **Type of course:** elective
- **Course code:** 1ARC28

Summary

This course aims to explore the concepts of walkability, accessibility and heritage in cities, especially historic cities, and how these intersect with larger themes like gender and other forms of identity, disability, and the difference between day and night, while also considering sustainability, diversity and justice. Walking thus becomes a science, an art and a tool to analyze and study the city and its people, as well as a way to understand and engage with places and people.

Based on a series of thematic walks - 1. the human scale and design of the city during different historical periods 2. The night 3. The senses 4. Accessibility for all bodies 5. Urban explorations - and the use of tools like ideas and design workshops, journals, literature reviews, discussions and lectures, students will develop their ability to read and understand urban landscapes, and propose interventions based on their observations, reflections and learnings.

Management & Executive Direction

Innovation and Change Management

- **Teacher:** Arroyo Andonaire, Gerardo Enrique
- **PUCP credits:** 3
- **Type of course:** obligatory
- **Course code:** GEE25 - 1003

Summary

This course seeks that the student can understand, analyse, and manage the processes of organizational transformation, during a change or growth period. During this transformation, innovation is the key asset that organizations use to face the different challenges that came up, proposing creative solutions for prospective times. For this reason, the course proposes the change management fundamentals, cultural transformation methodologies and last trends that organizations use to success in their transformational processes.

Psychology

Cognitive and Affective Processes

- **Teacher:** Pinzás García, Juana Rosa Antonia
- **PUCP credits:** 3
- **Type of course:** obligatory
- **Course code:** PSG201 - 7125

Summary

This is an introductory course. It covers basic cognitive (sensation, perception, attention, memory) and affective processes (motivation, self-regulation, social-emotional skills) as well complex cognition (problem solving and decision making, critical and creative thinking).

General Studies in Humanities

Ethics

- **Teacher:** León, Sebastian
- **PUCP credits:** 4
- **Type of course:** elective
- **Course code:** FIL122 -I580

Summary

Ethics, as a philosophical reflection concerned with the conditions of the good life and the practical realization of principles such as good and justice, has always been in conflict – openly or tacitly– with “realistic” understandings of reality and human action, which reduce human beings to creatures motivated exclusively by selfish interests and social practices and institutions to mere expressions of power relations. Nevertheless, an ethical reflection that takes its work seriously must not only accept the existence of injustice, exploitation, domination and conflict in societies, but also investigate the different ways in which they operate and the peculiar nature of power.

The first part of the course will be a journey through the thought of some classics of moral and political philosophy –Plato, Hobbes, Kant and Hegel–, while in the second part we will study contemporary authors who, starting from different social problems – such as the question of class, gender or race – have sought to explain in what ways power obstructs the realization of justice in modern societies, and in what ways critique and collective action can contribute to overcoming these impasses.

Narratives of Horror in Film and Literature

- **Teacher:** Wurst Cavassa, Daniela
- **PUCP credits:** 3
- **Type of course:** elective
- **Course code:** LIT105 - I615

Summary

This course focuses on the horror genre and the exploration of the sinister in contemporary narrative. Using a comparative lens we will read classic authors from different periods (Edgar Allan Poe, H.P. Lovecraft, Stephen King, among others), discussing their influences and the way in which the use of horror has been transformed over time, particularly in Latin America. We will reflect on how horror allows us to address social issues and deliver into what is repressed in society. Why is the use of fear and the fantastic so effective as a narrative strategy?

The genre known as "horror" is not a new phenomenon, but has played an important role since the eighteenth century, when Gothic fiction sought to evoke powerful emotional responses from a public fascinated and strongly inspired by the Enlightenment. Gothic works, as well as the numerous works of horror produced thereafter, use narrative fictions to confront their audiences with their fears, anxieties, and repressed desires. This course will take an interdisciplinary look at the horror genre through different narratives (literary, filmic, visual) in order to delve into what these narratives reveal about culture, society, and its ills. We will discuss the nature of terror, the evolution of horror and the sinister and its specificity in Latin America.

We will also read comparatively American and Latin American horror through emblematic figures of horror (the double, sinister creatures, birds, vam-pires and zombies) as well as the main themes of the genre (space and atmosphere, the body, motherhood, madness, violence and socio-political commentary). We will discuss these diverse materials to explore the place of horror in popular culture and the way in which this genre express-es a confrontation with various individual and collective anxieties in contemporary society.

Social Sciences

Private Equity, Venture Capital and Fintech Security

- **Teacher:** Estrada Mendoza, Germán Francisco
- **PUCP credits:** 3
- **Type of course:** elective
- **Course code:** 1FIN45

This course will expose students to investments in privately-held companies that do not trade on organized exchanges at the early stages of a firm's life cycle. The focus is on venture capital startup funding, particularly in the tech industry and fintech.

At the end of the course, students will develop the following competencies:

- An introduction to the basic concepts and topics in private equity and venture capital.
- An understanding of the financing of early-stage startups and the role of venture capital (VC) firms.
- Comprehension of the economics of a tech and fintech startup.
- Knowledge about the issues in organizing and financing a VC-backed start-up company.
- Expose students to methods and perspectives on valuing and structuring venture capital investments.

Gastronomy & Tourism

Museology, Turism and Comunity

- **Teacher:** Luna Polo, Carolina
- **PUCP credits:** 3
- **Type of course:** elective
- **Course code:** 1HSP32

Summary

Through the analysis of the history of museums and specific case studies, students will reflect upon museums as community spaces, examining the main opportunities and challenges of this museum paradigm. Course topics include the history of global and Peruvian museums, museums as spaces for knowledge and learning, museum typologies and paradigms, audiences and their behaviors, and global museum debates. Students will also learn basic museum administration concepts, and will develop a museum/exhibition proposal.

By the end of the course, students are able to reflect critically and creatively about museums as community spaces, utilizing the course's framework and resources to produce original ideas that address today's key debates in museum issues. Students are able to develop museum/exhibition proposals, considering their impact on local communities and the tourism sector. Also, they will reflect upon the role of museums as community and learning spaces for diverse audiences, analyze the impact of museums on local communities and the tourism industry and create museum/exhibition proposals that address the needs of diverse audiences.

E-commerce in the Hotel Industry

- **Teacher:** Mora Cevallos, Lynn Teobaldo
- **PUCP credits:** 3
- **Type of course:** elective
- **Course code:** 1HSP61

Summary

This course is designed to learn about the role of online sales in the hospitality industry. Also, it enables students to effectively understand direct and indirect distribution systems for the hotel business. By the end of the semester, they will be able to make strategic e-commerce decisions based on data to increase hotel revenue and learn about the latest trends in the e-commerce marketplace.

Information Systems in the Hotel Industry

- **Teacher:** Mora Cevallos, Lynn Teobaldo
- **PUCP credits:** 4
- **Type of course:** elective
- **Course code:** 1HSP52

Summary

This course is designed to learn about hospitality Information Technology (IT). It prepares students to effectively evaluate and use hospitality technology systems. The topics covered include hospitality industry common functions such as reservation, rooms management, guest accounting, and food & beverage management. The course will also allow students to examine hospitality IT interfacing and strategic planning from a global perspective.

The main objective is that students are able to evaluate and use hospitality technology to increase time efficiency and accuracy in the management of customer data.

Secondary objectives are:

- Evaluate the use of hospitality technology systems within a global context.
- Assess hospitality technology systems and their associated software applications.
- Analyze the financial operational functions of a hospitality technology system.
- Learn the main operational procedures that involve the use of technology within a hotel.

Law

International Criminal Law

- **Teacher:** Reyes Milk, Michelle Elisa
- **PUCP credits:** 3
- **Type of course:** elective
- **Course code:** DEE220 - 0902

Summary

This course seeks to provide an overview of the background and main developments of this area of IL over the last 50 years. By studying and understanding the origins of this area following World War II, the course will center on the foundational idea that justice is a key component of peace, and that seeking accountability for the commission of the most heinous crimes which - paraphrasing the Rome Statute of the International Criminal Court (ICC) - “deeply shock the conscience of humanity”, is of paramount importance to ensuring the survival of the international Rule of Law.

We will also dissect the legal elements and components of the four crimes under international law; namely, war crimes, crimes against humanity, genocide, and the crime of aggression. We will rely on leading cases for this analysis, both at International Criminal Tribunals – including the ICC – as well as domestic or hybrid courts. Understanding the foundations of ICL leads us, in turn, to understand the different elements behind individual criminal responsibility at the international level. This will require taking a closer look at the theories of criminal liability and the different modes of liability enshrined in the Rome Statute, both in terms of direct perpetrators and in terms of accessories. Again, leading cases from within the ICC and beyond will guide our analysis, including cases such as Lubanga, Bemba, and Ntaganda.

While the course will cover different ICL mechanisms – highlighting the centrality of domestic courts in the Rome Statute system – the course will focus in particular in the ICC as one of the leading mechanisms in ICL. Thus, we will focus, on the one hand, on admissibility and jurisdictional issues, studying the different stages of Preliminary Examinations as well as trial stages. On the other hand, understanding the ICC will require a closer look at two of its fundamental pillars: the principle of complementarity, and the obligation of states to provide full cooperation to the ICC. Current challenges in this front, such as those arising in the situations of Sudan, Venezuela and Ukraine, will be analyzed.

Lastly, the course of International Criminal Law will also reflect on the relationship of this area with transitional justice mechanisms, such as the Special Jurisdiction for Peace in Colombia. Throughout this course, we will be taking stock not only of current developments, but also adopting a gender and victim-centered focus in our work.

Integrative Seminar on International Law

- **Teacher:** De Urioste Samanamud, Roberto Ricardo
- **PUCP credits:** 3
- **Type of course:** obligatory
- **Course code:** DEE253 - 1003

Summary

The Integration Seminar on International Law is an alternative-compulsory course that can be taken from the seventh semester onwards. It aims to apply International Law - in its public (including human rights), private and economic aspects- together with Constitutional Law, Banking and Financial law and the General Theory of Law in the field of international relations and deepen on some of the problems around the context of the internationalization of law. The Seminar will also offer the opportunity to apply and develop effective communication and research skills.

Through the dynamic review of international jurisprudence, the practice of international organizations and the latest doctrinal developments of international economic law the course will discuss aspects related to economic liberalization and the formulation of the social market economy in Constitutions and international instruments, the affirmation of the standard of fair and equitable treatment in investment arbitration, the risks of fragmentation in international economic law, the jurisprudential dialogue between human rights and investment law, the liberalization of financial services, the new supervision and financial assistance by the International Monetary Fund, the independence of central banks and public regulation regarding issuing and circulation of digital currency.

Art & Design

Free Subject Seminar 17

- **Teacher:** Holmquist Pachas, Ulla Sarela
- **PUCP credits:** 3
- **Type of course:** elective
- **Course code:** 1ART47

Summary

Through the creations of the ancient Andean cultures, the various visual languages developed by indigenous societies will be analyzed. Within Andean ontologies, the possible meanings and interpretations of pre Columbian art will be considered. Personal and group research projects will be centered on iconographic analysis of pre Columbian art-works.

Contemporary Art Seminar 1

- **Teacher:** Clarke Paliza, George
- **PUCP credits:** 3
- **Type of course:** elective
- **Course code:** ART502 - 0902

Summary

Contemporary art is a wide and complex field whose limits are in constant movement. The course has been designed to offer a general overview on the main topics and trends in contemporary art, from the 1960s to the present. The seminar has been divided into 7 units, each with its texts and visual material. The different art movements and postures will be presented by studying certain artists and art works as examples. Special guests may be invited to the class, and a visit to the MALI museum is included in order to study Peruvian contemporary art on site.

Although the main examples of each topic will be showed using international cases, the course also focuses on Peruvian examples. The main objective of the course is to present a panoramic view of the different postures and strategies in contemporary art, and at the same time expecting the student to adopt a critical approach towards each case.

General Studies in Sciences

Culture and Christianity

- **Teacher:** Gauthier de Lecaros, Véronique Claire
- **PUCP credits:** 3
- **Type of course:** obligatory
- **Course code:** 1CDR01- 0483

Summary

The course takes into account the existence of a new cultural context, that since the development of Modernity, affects personal and social life and therefore, also, the religious environment. Hence, it is crucial to analyze the challenges of today's culture to Christian thought and the necessary dialogue that is established between them. From this approach, the course deals with the following topics: a brief history of the fundamental question about God and the human being, looking at how that question is formulated today (creation and the meaning of human life). It continues with the conception of human beings as presented by the biblical data and as being capable of transcendence, called to fullness. The challenges of current culture, as well as the challenges of religious pluralism and the need for ethical behavior, are also raised.

Science & Engineering

Six Sigma

- **Teacher:** Flores Molina, José C.
- **PUCP credits:** 3
- **Type of course:**
- **Course code:** IND353

Summary

The purpose of course is study the Six Sigma methodology, which means a process improvement approach under techniques utilization, such as: problem definition, process measurement, analysis of root causes and methods of optimization. It also includes the application of control of processes and the organizational structure to support the overall improvement process.

Quality Management

- **Teacher:** Aragón Casas, Lucy Gabriela
- **PUCP credits:** 3
- **Type of course:** elective
- **Course code:** IND363

Summary

The course provides students from engineering and other programs with an overview of the foundations and main concepts related to quality management. This course also explores well-known quality management systems and models, such as ISO9001 and MBNQA. At the end of the semester, the student will understand quality concepts and tools of quality, which will allow him or her to implement methods of quality management and quality assurance for driving continuous improvement in companies.

Rocks' Mechanics

- **Teacher:** Cabello Robles, Oscar Luis
- **PUCP credits:** 5.5
- **Type of course:** Obligatory
- **Course code:** MIN266

Summary

In this course you will learn how to design underground excavations in rock and rock slopes. Identify intact rock and rock mass properties, rock characterization and classification, calculate in situ stress, design underground excavations in hard rock mines, and design rock slopes in open pit mines.

Electronic Devices

- **Teacher:** Carranza de la Cruz, César Alberto
- **PUCP credits:** 5
- **Type of course:**
- **Course code:** 1IEE26

Summary

Theoretical-practical course, aimed at providing the student with the concepts of nonlinear devices at the level of discrete components (diodes and transistors), developing the ability to analyze electronic circuits with said devices and giving the basic foundations for their design. In addition, theoretical concepts will be reinforced with laboratory experiences.

Conservation in the Peruvian Amazon

- **Teacher:** Gallice, Geoffrey Rene
- **PUCP credits:** 3
- **Type of course:**
- **Course code:** 1ING13 (1001)

Summary

Theoretical and practical course. It will provide students with an overview of the biodiversity of the Peruvian Amazon, the conservation challenges facing the region, and the strategies being employed to sustainably manage Amazonian natural resources.

*It is taught in an accelerated way, one week in Lima, and one week in Puerto Maldonado. Trip expenses are covered by the student.

Sustainable Energy

- **Teacher:** Ramzy Kahhat
- **PUCP credits:** 3
- **Type of course:**
- **Course code:** ING310 (1001)

Summary

This course will expose students to the principles of sustainability and sustainable energy: a living harmony between the equitable availability of energy services to all people and the preservation of the earth for future generations.

Integrative Ecology of the Central Andes

- **Teacher:** Bartl, Karin & González, Luis Fernando
- **PUCP credits:** 3
- **Type of course:**
- **Course code:** ING309

Summary

The course will provide the basic concepts behind ecological theory and then proceed to review current research topics on ecosystem function, biodiversity and the human dimension in the region covering the transition from the Pacific Ocean over the Andes and into the Amazon rainforest.

Introduction to Aeronautical Engineering

- **Teacher:** Saito, Carlos
- **PUCP credits:** 3.5
- **Type of course:**
- **Course code:** ING339

Summary

This course should be taken by students and professionals who want to be involved in the Aeronautical and Aerospace industry. Also, professionals who want to know more about unmanned aerial systems and understand how this system works and can be applied to satisfy different kinds of industrial services

Advanced Motion Control

- **Teacher:** Yupanqui, Ivan
- **PUCP credits:** 3.5
- **Type of course:**
- **Course code:** 1MTR13

Summary

Theoretical-practical course that contributes to expanding the skills of students towards the achievement of competencies in mechatronics engineering design and automation. This course aims to provide an overview of modern control techniques used in industrial processes, advanced control techniques and the likely future trends in control design.

Advanced Dynamics

- **Teacher:** Cuellar, Nilton & Flores, Pedro
- **PUCP credits:** 3.5
- **Type of course:**
- **Course code:** 1MTR14

Summary

This course aims to provide a comprehensive understanding of the principles of dynamics of multibody systems, and to develop an ability to analyze such systems by motion simulation and data techniques.

Space Science and Engineering

- **Teacher:** Heraud Pérez, Jorge Arturo
- **PUCP credits:** 3.5
- **Type of course:**
- **Course code:** ING306

Summary

The course covers some basic new mathematics (Tensor Calculus) in order to understand the Theory of General Relativity. We cover relativistic Cosmology, Extragalactic, galactic and stellar astrophysics, including neutron stars, pulsars, black holes and some electromagnetic theory and an introduction to Plasma Physics. The Solar System, stellar bodies like star formation, extrasolar planets, solar-terrestrial astrophysics and astrobiology are covered. On the engineering side, satellites, space probes, radiotelescopes and radioastronomy techniques and sources are also covered. In summary, the course gives engineering and science students a modern view of the Universe with coming future « back to space » applications in the near future.

Introduction to Medical Imaging

- **Teacher:** Lavarello, Roberto
- **PUCP credits:** 3
- **Type of course:**
- **Course code:** ING340 (08B1)

Summary

Introduction to basic concepts regarding medical image formation and processing. Students will learn about the most important modalities to create radiological images and the physical principles behind them. In addition, topics about enhancing the images and extracting useful clinical information for detection and diagnosis will be covered.

Introduction to Environmental Engineering

- **Teacher:** Karin Bartl
- **PUCP credits:** 3.5
- **Type of course:**
- **Course code:** CIV229 (501)

Summary

The course provides an introductory overview of the basic concepts of environmental engineering and human-nature interactions. The different mechanisms of water, soil and air pollution are emphasized, including environmental impacts of civil infrastructure throughout its entire life cycle.

Digital Signal Processing

- **Teacher:** Romero, Stefano Enrique & Falcón, Franco
- **PUCP credits:** 3
- **Type of course:**
- **Course code:** 1ING09

Summary

Introduction to basic concepts to analyze discrete-time signals and systems. Students will develop the necessary skills to apply theoretical concepts in the activities that involve digital signal processing. The laboratory sessions will be focused to evaluate the application of the theoretical background as well as a high level programming skills in simulation environments.

Mechatronics Engineering Topics

- **Teacher:** Santos López, Félix Melchor
- **PUCP credits:** 3
- **Type of course:**
- **Course code:** 1MTR15

Summary

This course is about Information Technologies Architectures in the context of Internet of Things (IoT) applied to mechatronics projects. The course develops advanced software architecture topics, quality attributes, patterns, tactics, and Attribute Driven Design (ADD) architecture design process. The syllabus follows the SEI Software Architecture Professional Certificate program.

In addition, architecture issues for Big Data, Blockchain, APIs, Cloud, Testing and Microservicios are discussed. The course has a laboratory component, practical, where each week software development and architecture projects are developed, as well as cloud services (AWS). The course ends with an IoT implementation project by the students.

