



Barcelona, Spain

Science and Technology in English at Universitat Pompeu Fabra (UPF)

Course Preregistration Guidelines

After consulting with your school's academic advisor, choose courses according to the following guidelines.

Prerequisites:

1. Minimum 3.0 GPA
2. You must be a junior or senior in college by the time the program in Barcelona begins.

Instructions:

1. You must preregister for a minimum of 12 and a maximum of 18 credits.
2. Due to possible schedule conflicts between departments, we recommend the following course combination:
 - Most of your courses from the Barcelona Interdisciplinary Program (BaPis) section
 - One or two courses from the Science and Technology courses section
3. SSA and Universitat Pompeu Fabra reserve the right to cancel courses due to low enrollment.

Fall Semester (12-18 credits)	Spring Semester (12-18 credits)
BaPis Courses in English • 51613 - Society and Politics in Contemporary Spain (3cr) • 51801 - Innovation and the Law. How Technology Changes the Legal System (3cr) • 51809 - Cinematic Creativity in Spain: Authorship, Industry, Politics (3cr) • 51811 - Globalization, Human Development and Sustainability: Politics and Policies in the Framework of the 2030 Agenda (3cr) • 51816 - Art and Gender in Contemporary Spain (3cr) • 51863 - Understanding and Awakening your Creativity (3cr) • 51886 - Barcelona the City and its History (3cr) • 51893 - Getting to know the Economies of the European Union (3cr) • 51909 - Generative Artificial Intelligence in Education, Culture and Society (3cr)	BaPis Courses in English • 51795 - Ecofeminisms: The Politics of Gender and Territory (3cr) • 51809- Cinematic Creativity in Spain: Authorship, Industry, Politics (3cr) • 51812 - Mind, Brains and Machines (3cr) • 51819 - Artificial Intelligence, Creativity, and the Arts (3cr) • 51828 - LGTB+: Exploring Identities and Diversity (3cr) • 51829 - The Jews in Spain: History, Heritage and Memory (3cr) • 51831 - Five Challenges for the Future of Sport Global Governance (3cr) • 51839 - The Collectivity Revolution: Building a Global Community (3cr) • 51864 - Sovereignty, Democracy and Constitutionalism in Europe (3cr) • 51865 - From Ethnographic Cinema to the Avant-garde (3cr)

- 51911 - Filming from the Margins: Gender, Class Equality and Minority Groups in Contemporary Catalan Cinema (3cr)
- 51913 - Geopolitics of Borders and Migrations in the European Union (3cr)
- 51917 - Collective Intelligence, Planetary Challenges, and Public Problems Solving (3cr)
- 51918 - Gender, Sexuality and Diversity: Past and Present (3cr)
- 51959 - Culture and Business: Spain's Top Brands (3cr)
- 51977 - From Prediction to Action: Modern Prescriptive Analytics (3cr)
- 51982 - Listening: an Awakening Journey through the Aural World (3cr)
- 51985 - Social Media and European Regulation (3cr)
- 51986 - Business Organizations, the EU Internal Market and the Law (3cr)
- 51994 - Gender and Violence in Spanish Literature and Cinema (3cr)
- 51999 - Introduction to Intersectionality (3cr)

Science and Technology Courses in English

- 22133 - Systems Biology (3cr)
- 22135 - Organs and Systems Modelling (2cr)
- 22148 - Advanced Synthetic Biology (2cr)
- 23966 - Transmission Media and Circuits (3cr)
- 23972 - Digital Data Transmission (3cr)
- 23974 - Network Simulation and Modelling (3cr)
- 23979 - Project Management (3cr)
- 23980 - Optical Networks (3cr)
- 23981 - Mobile Communications (3cr)
- 24043 - Project Management and Innovation in Biomedical Engineering (2cr)
- 24044 - Introduction to Drug Research and Development (2cr)
- 24047 - Biomechanics II (3cr)
- 24050 - Biocomputing (3cr)
- 24293 - Signals and Systems I (3cr)
- 24294 - Functional Design of Programs (3cr)
- 24303 - Databases (3cr)
- 24304 - Artificial Intelligence (3cr)
- 24374 - Acoustic Engineering (3cr)
- 24382 - Audio Equipment and Systems (3cr)

- 51872 - Art and Gender in Contemporary Spain (3cr)
- 51887 - Barcelona the City and its History (3cr)
- 51905 - Laws of Creativity. The Impact of Legal Systems on Artistic Practices and Other Creative Endeavors (3cr)
- 51906 - Great Ideas that Have Shaped our World: From the Axial Age to the Artificial Intelligence Revolution (3cr)
- 51925 - Understanding and Awakening your Creativity (3cr)
- 51926 - Understanding Globalization: Global Issues in Historical Perspective (3cr)
- 51928 - Critical Approaches to Artificial Intelligence and Network Society (3cr)
- 51933 - Sustainable Leadership and Values in Business: Navigating the Transition Across the EU and Beyond (3cr)
- 51938 - Geopolitics of Borders and Migrations in the European Union (3cr)
- 51943 - Society and Politics in Contemporary Spain (3cr)
- 51960 - In the Mood for Love: Cultural Discourses on Love (3cr)
- 51978 - Exploring Catalonia: History, Politics, and Society (3cr)
- 51984 - Arts and the Neurosciences: Painting and Music as Reverse Engineering the Brain (3cr)
- 51990 - International Business and Global Politics (3cr)
- 51991 - Innovation and the Law. How Technology Changes the Legal System (3cr)
- 51992 - Intercultural Cooperation and Transformational Change (3cr)
- 51993 - The Spanish Empire: Debates on Colonization and Rights in Latin America (3cr)
- 51997 - Sensarticate Methods: Doing Qualitative Research with Arts and Sensory-Based Approaches (3cr)

Science and Technology Courses in English

- 22130 - Analysis of Biomedical Images (3cr)
- 22134 - Control Theory and Self-Regulation (3cr)
- 22172 - Advanced Analysis of Neuronal Signals (2cr)
- 23965 - Signals and Systems II (3cr)

- 24383 - Audio and Video Encoding Systems (3cr)
- 24933 - Introduction to Network Science (3cr)
- 24943 - Massive Datasets Mining (3cr)
- 24945 - Statistical Models (3cr)
- 24948 - Stochastic Processes (3cr)
- 24951 - Visual Analytics (3cr)
- 24952 - Information Retrieval and Web Analytics (3cr)
- 25030 - Nanomedicine and Nanobiotechnology: Introduction and Applications (2cr)
- 25230 - The Internet of Things (2cr)
- 25424 - Advances in Speech Technologies (3cr)
- 26003 - Theory of Computing (3cr)
- 26474 - Advanced Computer Graphics (3cr)

- 23973 - Network Engineering (3cr)
- 23975 - Management of IT Companies (3cr)
- 23977 - Radio Communication Systems (3cr)
- 23978 - Telematics Applications (3cr)
- 23982 - IT Services and Network Management (3cr)
- 24049 - Biomedical Imaging Systems (3cr)
- 24296 - Operating Systems (3cr)
- 24298 - Algorithm Design (3cr)
- 24305 - Compilers (3cr)
- 24307 - Large-scale Distributed Systems (3cr)
- 24308 - Cryptography and Security (3cr)
- 24364 - Perception and Audiovisual Cognition (3cr)
- 24366 - Computer Graphics (3cr)
- 24378 - Optical Engineering (3cr)
- 24379 - Video Processing (3cr)
- 24380 - Sound, Speech and Music Processing (3cr)
- 24389 - Face and Gesture Analysis (2cr)
- 24949 - Probabilistic Graphical Models (3cr)
- 25210 - Robotics (2cr)
- 25369 - Machine Learning for Biomedical Applications (2cr)
- 26226 - Advanced Modelling in Biomechanics and Systems Mechanobiology (2cr)
- 26518 - Fairness, Accountability, Transparency and Ethics (FATE) in Data Processing (3cr)
- 26652 - Causal Inference for Data Science (2cr)