



CEU | *Universidad  
San Pablo*

2020-2021

# Courses in English

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Vice Rectorate for Internationalisation

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# WHY

# CEU?



## Over 85 Years of History

We are one of the oldest private schools in Spain and have a **broad network of alumni** present in more than 40 countries. CEU is a **prestigious and solid** educational institution with more than **85 years of experience** in high-level teaching.



## Internationally Driven

We offer a large number of Bachelor's degrees, both **bilingual** and in **English**, as well as other optional languages through supplementary programs. We also offer a large variety of **international** and **study-abroad programs** which will allow you to complete part of your degree in some of the **best universities** in the world.



## Partnerships with Companies

We have collaboration agreements in place with more than **8,000 companies and institutions**, allowing our students to complete internships in Spain and abroad.



## Leaders in Scholarships

We rank first among Spanish private universities in terms of the greatest investment in **merit and academic excellence scholarships**, as well as in financial aid.



## Teaching Values

We prepare our students to become outstanding professionals but, more importantly, **persons of integrity**, with an education based on the values of **Christian Humanism**.



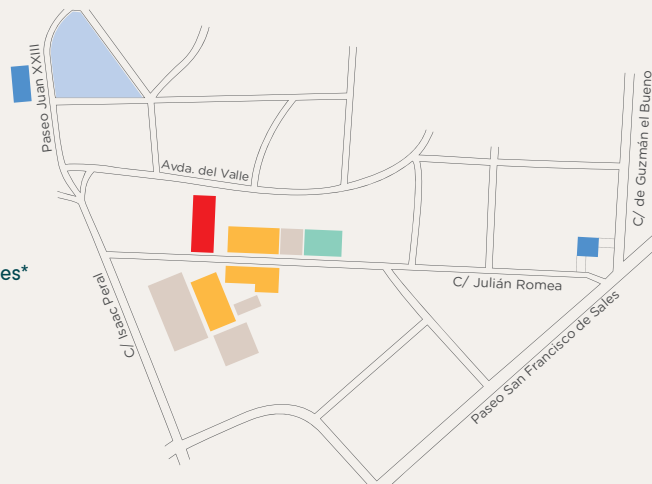
## Research Oriented

We are the **3rd private university** in Spain with the highest output of **scientific research** and the 1st in the Autonomous Community of Madrid.



# MONCLOA CAMPUS

- School of Law
- School of Business and Economics, International Relations' Office, Moncloa Campus Student Services
- School of Humanities and Communication Sciences (provisional location)
- Future School of Humanities and Communication Sciences\*
- Admission's Office  
Student Affairs and School Life Office
- Other Campus' Facilities



## School of Humanities and Communication Sciences

Paseo Juan XXIII, 3 • 28040 • Madrid

The School is provisionally located at the Fundación Pablo VI, across where it used to be, while construction of the new building is taking place.

- Television studios
- Radio and sound recording studios
- Editing and post-production rooms
- Photo laboratory
- The Hub



\* The new School of Humanities and Communication Sciences is currently under construction.



## School of Law

Av. del Valle 21 • 28003 • Madrid

- Mock trial room
- Institute of European Studies
- Institute of Democracy Studies
- Institute of Family Studies
- Institute of Historic Studies
- European Documentation Center
- Debate Club

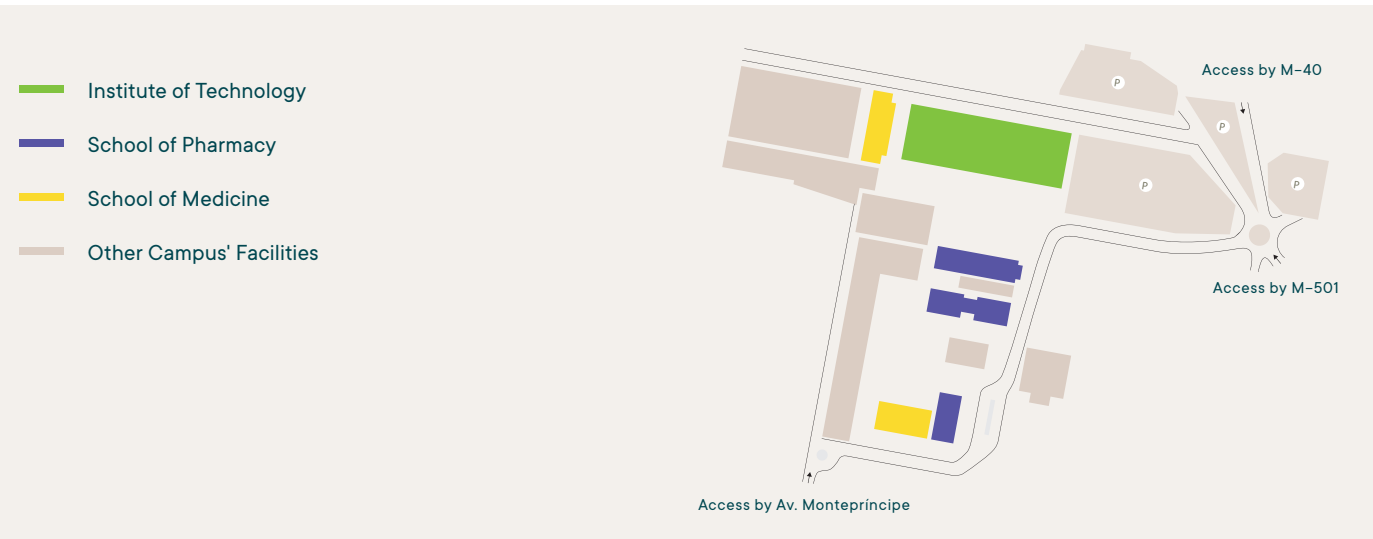
## School of Business and Economics

C. Julián Romea 23 • 28003 • Madrid

- Innova Hall
- Bloomberg room
- Economic and business current affairs sessions
- SPSS and SAS laboratory
- The Entrepreneur Club



# MONTEPRÍNCIPE CAMPUS



## School of Pharmacy

Urb. Montepríncipe • 28668 • Alcorcón

- Metabolomics and Bioanalysis Center of Excellence (CEMBIO)
- Agreements with HM Hospitales
- 64 research and teaching laboratories
- Pharmacy virtual room
- Optical shop virtual room
- Metabolism and body composition unit
- Experimental cuisine kitchen



## Institute of Technology

Urb. Montepríncipe • 28668 • Alcorcón

- Digital Fabrication (FabLab CEU)
- Infrastructure laboratory
- Habitability and development laboratory
- Architectural Modeling workshop
- Architectural Prototyping and Innovation workshops
- Biomedical engineering laboratory

## School of Medicine

Urb. Montepríncipe • 28668 • Alcorcón

- University dental clinic
- Agreements with HM Hospitales
- Centro Integral Oncológico Clara Campal (HM CIOCC), Centro Integral de Enfermedades Cardiovasculares (HM CIEC) and Centro Integral de Neurociencias (HM CINAC)
- Associated clinics for internships in Physical Therapy and Psychology
- Institute of Applied Molecular Medicine (MMA)
- Research and teaching laboratories
- Our own University Polyclinic





# School of Business and Economics

## Bachelor Degree in Business Administration

YEAR	SUBJECT	ECTS	SEM
1st	Fundamentals of Management	6	S1
	Economic Theory I	6	S1
	Mathematics I	6	S1
	Computer Science	6	S1
	History and Society	6	S1
	Introduction to Financial Accounting	6	S2
	Economic Theory II	6	S2
	Statistics I	6	S2
	Fundamentals of Marketing	6	S2
	Business Civil Law	6	S2
	Business Management and Organization I	6	S1
	Macroeconomic and Monetary Theory	6	S1
	Modern Language	6	S1
	Financial Accounting	6	S1
2nd	Economic Policy	6	S2
	Structure and International Market	6	S1
	Business Management and Organization II	6	S2
	Mathematics II	6	S2
	Cost Accounting	6	S2
	The Spanish and Comparative Tax Systems	6	S2
	Commercial Management and Administration	9	S1
	Business Finance	6	S1
	Balance Sheet Analysis	6	S1
	Statistics and Business Econometrics	9	S1
	Commercial Information and Communication (Grouping 4.08 GAM.)	6	S1
	Social Doctrine of the Catholic Church	6	S2
	Economic History	6	S2
	Financial Management	6	S2
3rd	Financial Instruments	6	S2
	Operational Company Management	6	S2
	Merchandising	6	S2

YEAR	SUBJECT	ECTS	SEM
4th	The Spanish and Comparative Tax Systems II	6	S1
	Business Policy	6	S1
	Human Resources Management	6	S1
	Corporate Finance	6	S1
	Professional Deontology and Ethics in Business (Grouping 4.08 GAM.)	6	S1
	Information Systems for Management (Grouping 4.08 GAM.)	6	S2
	Business Strategy Management (Grouping 4.08 GAM.)	6	S2

ECTS: European Credit Transfer and Accumulation System | SEM: Semester | S1: Fall Semester | S2: Spring Semester

# School of Business and Economics

## Bachelor Degree in Marketing

YEAR	SUBJECT	ECTS	SEM
3rd	Commercial Distribution	6	S1
	Market Research in Marketing I	6	S1
	Commercial Information and Communication	6	S1
	E-Commerce	6	S1
	Social Doctrine of the Catholic Church	6	S2
	Consumer Behavior	6	S2
	Advertising Management	6	S2
	Commercial Logistics	6	S2
	Merchandising	6	S2
4th	International Marketing	6	S1

ECTS: European Credit Transfer and Accumulation System | SEM: Semester | S1: Fall Semester | S2: Spring Semester

## Bachelor Degree in Economics

YEAR	SUBJECT	ECTS	SEM
1st	Introduction to Microeconomics	6	S1
	Labor Law	6	S1
	Mathematics for Economics I	6	S1
	History and Society	6	S1
	Fundamentals of Business	6	S1
	Social Doctrine of the Catholic Church	6	S2
	Introduction to Macroeconomics	6	S2
	Financial Accounting	6	S2
	Mathematics for Economics II	6	S2
	Statistics I	6	S2
	Dynamical Systems and Optimization Theory	6	S1
	Statistics II	6	S1
2nd	Economy and International Markets	6	S1
	Macroeconomics I	6	S1
	Economy of the Public Sector	6	S1
	Microeconomics I	6	S2
	Economic Policy I	6	S2
	Econometrics	6	S2
	The Spanish Economy	6	S2
	Global Economic History	6	S2
	Financial Operations	6	S1
	Economic Policy II / International Economic Policy	6	S1
	Financial Instruments	6	S2
	Financial Management	6	S2
3rd	Macroeconomics II / International Macroeconomics	6	S2

ECTS: European Credit Transfer and Accumulation System | SEM: Semester | S1: Fall Semester | S2: Spring Semester

# School of Humanities and Communication Sciences

## Bachelor Degree in Advertising & Public Relations

YEAR	SUBJECT	ECTS	SEM
1st	Fundamentals of Writing I	6	S
	Social Networks	6	A
	Theory of Communication and Information	9	A
	Principles of Advertising	6	S
	Contemporary World History	6	S
	Contemporary Literary Movements	6	S
	Fundamentals of Art and Design	6	S
	Fundamentals of Photography and Aesthetics	6	S
2nd	Political and Cultural Thought	6	S
	Radio and Podcast	6	S
	Television and Video	6	S
	Fundamentals of Writing II	6	S
	History of the Modern Day World	6	S
	Production in Digital Environments	6	S
	Communication and Marketing	6	S
	Theory and Techniques in Public Relations	6	S
	Creative Thought	6	S
3rd	Ethics and Professional Deontology	6	S
	Contemporary Spanish History	6	S
	Modern Language	6	S
	Social Research: Methods and Techniques	6	S
	Structure of the Advertising and Public Relations Sectors	6	S
	Communication Management	6	S
	Advertising Creativity	6	S
	Advertising Language	6	S
	Corporate Reputation and Corporate Social Responsibility	6	S
	Below the Line Advertising Strategies	6	S
	Social Doctrine of the Catholic Church	6	S

YEAR	SUBJECT	ECTS	SEM
4th	Public Opinion	6	S
	Political Communication	6	S
	Applied Legislation	6	S
	Integrated Communication	6	S
	Strategic Communication	6	S
	Media Planning	6	S
	Communication and Culture	6	S
	Brand Management	6	S

ECTS: European Credit Transfer and Accumulation System | SEM: Semester | S: Half-year subject | A: Fall and Spring Semester



# School of Humanities and Communication Sciences

## Bachelor Degree in Digital Communication

YEAR	SUBJECT	ECTS	SEM
1st	Fundamentals of Writing I	6	S
	Social Networks	6	A
	Theory of Communication and Information	9	A
	Principles of Advertising	6	S
	Contemporary World History	6	S
	Digital Society	6	S
	Fundamentals of Art and Design	6	S
	Fundamentals of Photography and Aesthetics	6	S
	Political and Cultural Thought	6	S
	Radio and Podcast	6	S
2nd	Television and Video	6	S
	Fundamentals of Writing II	6	S
	History of the Modern Day World	6	S
	Graphic Communication and Digital Narrative	6	S
	Marketing and Digital Communication	6	S
	Production in Digital Environments	6	S
	Web Environment I: Programming and Development	6	S
	Community and Social Media Management	6	S
	Social Doctrine of the Catholic Church	6	S
	Ethics and Professional Deontology	6	S
3rd	Contemporary Spanish History	6	S
	Modern Language	6	S
	User Experience (UX)	6	S
	Web Environment II: Edition and Administration of Contents	6	S
	Online Strategic Communication	6	S
	Online Brand Reputation	6	S
	Augmented Reality and Virtual Reality	6	S
	Transmediality and Gamification	6	S

YEAR	SUBJECT	ECTS	SEM
4th	Public Opinion	6	S
	Political Communication	6	S
	Applied Legislation	6	S
	Brand Management: On-Line Image and Reputation	6	S
	On-Line Marketing and Advertising	9	A
	E-Commerce	6	S
	Development of Multimedia Projects	9	A

ECTS: European Credit Transfer and Accumulation System | SEM: Semester | S: Half-year subject | A: Fall and Spring Semester

# School of Humanities and Communication Sciences

## Bachelor Degree in Journalism

YEAR	SUBJECT	ECTS	SEM
1st	Fundamentals of Writing I	6	S
	Social Networks	6	A
	Theory of Communication and Information	9	A
	Principles of Advertising	6	S
	Contemporary World History	6	S
	Contemporary Literary Movements	6	S
	Fundamentals of Art and Design	6	S
	Fundamentals of Photography and Aesthetics	6	S
2nd	Political and Cultural Thought	6	S
	Radio and Podcast	6	S
	Television and Video	6	S
	Fundamentals of Writing II	6	S
	History of the Modern Day World	6	S
	Production in Digital Environments	6	S
	Journalistic Design	6	S
	History of Spanish Journalism	6	S
	Journalistic Editing I	6	S
3rd	Audiovisual Journalism	6	S
	Social Doctrine of the Catholic Church	6	S
	Ethics and Professional Deontology	6	S
	Contemporary Spanish History	6	S
	Modern Language	6	S
	Documentation and Research Techniques	6	S
	Fundamentals of Specialized Journalism	6	S
	User Experience (UX)	6	S
	Journalistic Editing II	6	S
	Communication and Culture	6	S
	Communication Management	6	S
	Cultural and Scientific Journalism	6	S

YEAR	SUBJECT	ECTS	SEM
4th	Opinion Journalism	6	S
	Media Groups and Communication Companies	6	S
	Business and Institutional Communication	6	S
	Public Opinion	6	S
	Political Communication	6	S
	International Relations	6	S
	Applied Legislation	6	S
	Specialized Journalism II	6	S

ECTS: European Credit Transfer and Accumulation System | SEM: Semester | S: Half-year subject | A: Fall and Spring Semester

# School of Humanities and Communication Sciences

## Bachelor Degree in Audiovisual Communication

YEAR	SUBJECT	ECTS	SEM
1st	Fundamentals of Writing I	6	S
	Social Networks	6	A
	Theory of Communication and Information	9	A
	Principles of Advertising	6	S
	Contemporary World History	6	S
	Contemporary Literary Movements	6	S
	Fundamentals of Art and Design	6	S
	Fundamentals of Photography and Aesthetics	6	S
	Political and Cultural Thought	6	S
	Radio and Podcast	6	S
2nd	Television and Video	6	S
	Fundamentals of Writing II	6	S
	History of the Modern Day World	6	S
	Production in Digital Environments	6	S
	Audiovisual Narrative	9	A
	Audiovisual System	9	A
	Social Doctrine of the Catholic Church	6	S
	Screenwriting and New Narratives	6	S
	Modern Language	6	S
	Contemporary Spanish History	6	S
3rd	Ethics and Professional Deontology	6	S
	Video Editing	6	S
	Cinematography	6	S
	Audiovisual Production	6	S
	Production I: Fundamentals	6	S
	Sound	6	S
	History of Audiovisual Communication	6	S

YEAR	SUBJECT	ECTS	SEM
4th	Television Direction I	6	S
	Television Direction II	6	S
	Postproduction	6	S
	Radio Direction and Production	6	S
	History of Audiovisual Communication	6	S
	Applied Legislation	6	S
	Public Opinion	6	S
	Political Communication	6	S

ECTS: European Credit Transfer and Accumulation System | SEM: Semester | S: Half-year subject | A: Fall and Spring Semester

# School of Law

## Bachelor Degree in Law

YEAR	SUBJECT	ECTS	SEM
1st	Foundations of Constitutional Law	6	S1
	Political Economy and Public Finance	6	S1
	Introduction to Private Law and Personal Law	6	S1
	History of Spanish Law	6	S1
	Oral and Written Legal Expression	6	S1
2nd	Introduction to the Spanish Judicial System and Process	3	S1
	History of Administration	3	S1
	Law on Civil Obligations and Contracts	6	S1
	Fundamentals of Criminal Law	6	S1
	Law and Religion in a Democratic State	6	S1
	Civil Procedural Law	6	S1
	Fundamentals of Administrative Law	6	S1
	Property Law	6	S1
	Legal Estatus of the Employer	6	S1
	Account for Legal Experts	6	S1
	Advanced Criminal Law	6	S1
	Company Law	6	S1
	Recruitment and Public Administration Resources	6	S1
	Law of Damages and Consumer Law	6	S1
	Foundations of Labour Law	6	S1
3rd	Criminal Procedural Law	6	S1
	Financial and Tax Law	6	S1
	Commercial Contracts	6	S1
	Administrative Activity	6	S1
	Civil Family Law	6	S1
	Human Rights and their Protection	6	S1
	Industrial Relations System	6	S1

YEAR	SUBJECT	ECTS	SEM
4th	Inheritance Law	6	S1
	Financial and Tax Law II	6	S1
	General Ethics	6	S1
	Specialized English	6	S1
	Elective 1	6	S1
	Elective 2	6	S1
	Private International Law	6	S1
	Bachelor's Degree Final	6	S1
	Economic Criminal Law	6	S1
	Philosophy of Law	6	S1
	Deontology	6	S1
	Professional Skills	6	S1
	Elective 3	6	S1
	Elective 4	6	S1

ECTS: European Credit Transfer and Accumulation System | SEM: Semester | S1: Fall Semester | S2: Spring Semester



# School of Law

## Bachelor Degree in Criminology

YEAR	SUBJECT	ECTS	SEM
1st	Forensic Anthropology	6	S1
	Introduction to Law	6	S1
	Personality Psychology and Social Psychology	6	S1
	Introduction to Criminology	6	S1
	Criminal Law. General Part.	6	S1
	Victimology	6	S1
	Legal Medicine and Forensic Sciences	6	S1
	Criminal Law. Special Part.	6	S1
2nd	Criminal Procedural Law	6	S1
	Prision Law	6	S1
	Prevention and Treatment of Criminal Conduct	6	S1
	Sociology and Criminal Policy	6	S1
	Specific Forms of Crime	6	S1
	Criminal Psicology	6	S1
	Administrative Law	6	S1
	Cibersecurity	6	S1
	Law of Obligations, Contracts and Civil Liability	6	S1
	Transnational Crimes and International Justice	6	S1
	Forensic Psichiatty	6	S1
	Network Security "Ethical Hacking"	6	S1
3rd	Criminal and Operational Investigation Techniques	6	S1
	Practice of Crime Lab	6	S1
	Comprehensive Security Planning and Management	6	S1
	Self-Protection, Emergency Prevention and Management	6	S1
	Corporate Security Directorate, Protection of People, Critical Infraestructures and Heritage	6	S1
	Legal Framework for Private Security	6	S1

YEAR	SUBJECT	ECTS	SEM
4th	Techniques of Accident Investigation	6	S1
	Cybercrime	6	S1
	Practices of Forensic Laboratory	6	S1
	Digital Techniques Applied to Criminology	6	S1
	Business Management and Human Resources	6	S1
	Prefessional Ethics and Deontology	6	S1
	Security and Intelligence	6	S1
	Private Investigation Techniques and Expert Reports	6	S1
	Special Administrative Law. Security, Liability and Data Protection Officers	6	S1
	Security and Justice in the EU Space	6	S1
	Corporate Responsibility	6	S1

ECTS: European Credit Transfer and Accumulation System | SEM: Semester | S1: Fall Semester | S2: Spring Semester

# School of Law

## Bachelor Degree in International Relations and European Union

YEAR	SUBJECT	ECTS	SEM
1st	Language 1 Level 1	6	A
	Language 2 Level 1	6	A
2nd	Language 1 Level 2	6	A
	Language 2 Level 2	6	A
3rd	Development Cooperation and Humanitarian Aid	6	S1
	EU Competition Policy and Law	6	S1
	America Today	6	A
	Asia Today	6	A
	Europe Beyond the EU. Neighbourhood Policy	6	A
	Africa and Oceania Today	6	A
	Comparative European Literatures	6	A
	Language 1 Level 3	6	A
	Language 2 Level 3	6	A
	International Private Law	6	S1
4th	Economic and Monetary Union and the International Financial System	6	S1
	Case Studies on International Relations	6	A
	Climate Change and Environmental Protection	6	A
	Security and Defence	6	A
	Migration and Asylum	6	A
	European Citizenship, Globalisation and Public Opinion	6	A
	Language 1 Level 4	6	A
	Language 2 Level 4	6	A

ECTS: European Credit Transfer and Accumulation System | SEM: Semester | S1: Fall Semester | S2: Spring Semester | A: Fall and Spring Semester



# Institute of Technology

## Bachelor Degree in Architecture (degree with a substantial equivalency from NAAB)

YEAR	SUBJECT	ECTS	SEM
1st	Architectural Form Analysis I	6	S1
	Descriptive Geometry I	6	S1
	Fundamentals of Mathematics in Architecture I	3	S1
	Fundamentals of Physics in Architecture I	3	S1
	Introduction to Architecture	6	S1
	Key Aspects of Contemporary History and Literature	6	S1
	Architectural Form Analysis II	6	S2
	Descriptive Geometry II	6	S2
	Architectural Drawing I	6	S2
	Fundamentals of Mathematics in Architecture II	3	S2
	Fundamentals of Physics in Architecture II	3	S2
	Architecture and Society	6	S2
2nd	Architectural Design I	6	S1
	Solid Mechanics	6	S1
	Urban Theory I	3	S1
	History of Architecture I	3	S1
	Fundamentals of Mathematics in Architecture III	6	S1
	Architectural Drawing II	6	S1
	Architectural Design II	6	S2
	Building Construction Materials	6	S2
	Urban Theory II	3	S2
	History of Architecture II	6	S2
	Structural Systems	6	S2
	Drawing and Geometry	3	S2
3rd	Architectural Design III	6	S1
	Structural Analysis I	3	S1
	Building Construction I	3	S1
	Urban Design I	3	S1
	Environmental Systems	6	S1
	Social Doctrine of the Catholic Church	6	S1
	Architectural Design IV	6	S2
	Structural Analysis II	3	S2
	Building Construction II	6	S2
	Urban Design II	3	S2

YEAR	SUBJECT	ECTS	SEM
4th	Electrical and Lighting Systems	6	S2
	History of Architecture III	6	S2
	Architectural Design V	6	S1
	Dimensioning of Structures I	3	S1
	History of Architecture IV	3	S1
	Urban Planning I	3	S1
	Mechanical Systems	6	S1
	Building Construction Analysis	6	S1
	Architectural Design VI	6	S1
	Building Construction Design. Assembly	6	S1
	Ethics	3	S1
	Architectural Design VI	6	S2
	Dimensioning of Structures II	3	S2
	Architectural Composition	6	S2
5th	Urban Planning II	3	S2
	Building Construction Design: Assembly	3	S2
	Professional Practice	6	S2
	Advanced Courses I*	3	S2
	Architectural Design VII	6	S1
	Foundations	3	S1
	City and Territorial Planning I	3	S1
	Building Construction Design: Prototypes	6	S1
	Legal Architecture	3	S1
	Architectural Innovation Workshop	6	S1
	Advanced Courses II*	3	S1
	Architectural Design VIII	6	S2
	Deontology	3	S2
	City and Territorial Planning II	3	S2
	Design of Environmental Mechanical Systems	6	S2
	Design of Building Structures	6	S2
	Advanced Courses III*	3	S2
	Advanced Courses IV*	3	S2
	Final Thesis Project	30	

ECTS: European Credit Transfer and Accumulation System | SEM: Semester | S1: Fall Semester | S2: Spring Semester

# Institute of Technology

## Digital Fabrication for Architecture (Non-official Degree. Fee-paying courses)

### Freeform Modeling - M1

SUBJECT	ECTS	SEM
Rhinoceros Basic	3	S1
Rhinoceros Advanced	3	S1

### Modeling & Rendering - M2

SUBJECT	ECTS	SEM
3DMAX Modeling	3	S1
3DMAX + Vray Rendering	3	S1

### Design & Make - M3

SUBJECT	ECTS	SEM
Grasshopper Basic	3	S1
Grasshopper Advanced	3	S1

### Building & Modeling - M4

SUBJECT	ECTS	SEM
Revit (BIM)	6	S1

### Graphics & Design - M5

SUBJECT	ECTS	SEM
Photoshop	3	S1
Illustrator	1.5	S1
InDesign	1.5	S1

### Graphics & Design - M5

SUBJECT	ECTS	SEM
Sketch up + Digital Drawing	4.5	S2
Flash	1.5	S2

### Digital Fabrication - M7

SUBJECT	ECTS	SEM
CNC, Makerbot, Vinyl, Arduino	6	S2

### Structure & Design - M8

SUBJECT	ECTS	SEM
Structural Dimensioning	3	S2
Structural Analysis	3	S2

### Digital Restoration - M9

SUBJECT	ECTS	SEM
Mapping	3	S2
Digital Archaeology	3	S2

### Building & Modeling 2 - M10

SUBJECT	ECTS	SEM
Revit Advanced	6	S2

### Free Courses S1

SUBJECT	ECTS	SEM
Digital Manufacturing 1	1	S1
Digital Manufacturing 2	1	S1
Digital Manufacturing 3	0.5	S1

### Free Courses S2

SUBJECT	ECTS	SEM
Digital Manufacturing 4	1	S1
Digital Manufacturing 5	1	S1
Digital Manufacturing 6	0.5	S1



# Institute of Technology

## Bachelor Degree in Biomedical Engineering

YEAR	SUBJECT	ECTS	SEM
1st	Mathematical Foundations of Biomedical Engineering I	6	S1
	Mathematical Foundations of Biomedical Engineering II	6	S1
	Programming	6	S1
	English*	6	S1
	Chemistry	6	S1
	Waves, Electrostatics and Thermodynamics	6	S2
	History and Society	6	S2
	Algorithms and Data Structures	6	S2
	Mathematical Foundations of Biomedical Engineering III	6	S2
	Fundamentals of Biology*	6	S2
2nd	Dynamical Systems in Biomedical Engineering	6	S1
	Electromagnetism and Optics	6	S1
	Histophysiology*	6	S1
	Biochemistry and Molecular Biology *	6	S1
	Circuit Theory	6	S1
	Signals and Systems	6	S2
	Biostatistics I	6	S2
	Digital Electronics*	6	S2
	Anatomy and Physiology	6	S2
	Databases*	6	S2
3rd	Biostatistics II*	6	S1
	Pathophysiology and General Pathology	6	S1
	Random Signals*	6	S1
	Digital Signal Processing*	6	S1
	Projects in Biomedical Engineering I	6	S1
	Numerical Methods in Biomedical Engineering*	5	S2
	Imaging Techniques in Biomedicine	3	S2
	Digital Systems*	7	S2
	Digital Image Processing*	6	S2
	Computer Architecture and Operating Systems	6	S2
	Projects in Biomedical Engineering II *	3	S2

YEAR	SUBJECT	ECTS	SEM
4th	Genomics and Proteomics*	6	S1
	Telemedicine*	3	S1
	Biomedical Instrumentation*	3	S1
	Systems Biology*	3	S1
	Projects in Biomedical Engineering III*	3	S1
	Practicum*	6	S1
	Social Doctrine of the Church	6	S1
	Bioinformatics*	6	S1
	Biomedical Signals*	6	S2
	Decision Support Systems*	4.5	S2
	Data Mining in Biomedicine*	4.5	S2
	BSc Thesis*	12	S2

Courses marked with (\*) are taught in English, the rest are taught in Spanish. The courses taught in English may vary from year to year; please ask for details about what courses are taught in English each year.

ECTS: European Credit Transfer and Accumulation System | SEM: Semester | S1: Fall Semester | S2: Spring Semester

# School of Pharmacy

## Bachelor Degree in Pharmacy

YEAR	SUBJECT	ECTS	SEM
1st	General Chemistry	9	S1
	General Biology	9	S1
	Mathematics	6	S1
	History and Literature	6	S1
	Chemical Experimentation	3	S2
	Inorganic Chemistry	6	S2
2nd	Plant Physiology	3	S2
	Organic Chemistry I	6	S1
	Analytical Chemistry	6	S1
	Physical Chemistry II	6	S1
	Biochemistry I	6	S1
	Immunology	3	S1
	Food Science	3	S1
	Biochemistry II	6	S2
	Organic Chemistry II	6	S2
	Instrumental Techniques	6	S2
	Social Doctrine of the Catholic Church	6	S2
	Modern Language (English)	6	S2
	Parasitology	6	S1
	Microbiology	9	S1
3rd	General Pharmacology	6	S2
	Pharmaceutical Chemistry I	6	S2
	Biological Analysis and Laboratory Diagnostics	6	S2
	Nutrition and Dietetics	6	S1
	Pharmacology and Pharmacotherapy	6	S1
4th	Pharmaceutical Chemistry II	6	S1
	Clinical Biochemistry (only practices in English)	6	S1
	Toxicology	6	S2
	Clinical Pharmacy	6	S2
	Final Project*	12	S1 or S2

\*Only available for selected students. Please, contact [capegar@ceu.es](mailto:capegar@ceu.es) for further information.

ECTS: European Credit Transfer and Accumulation System | SEM: Semester | S1: Fall Semester | S2: Spring Semester

## Bachelor Degree in Biotechnology

YEAR	SUBJECT	ECTS	SEM
1st	General Chemistry	9	S1
	General Biology	9	S1
	Mathematics	6	S1
	History and Literature	6	S1
	Modern Language (English)	6	S2
	Plant Physiology	3	S2
2nd	Microbiology	9	S1
	Ethics	3	S1
	Organic Chemistry	9	S1
	Biochemistry I	6	S1
	Biochemistry II	6	S2
	Social Doctrine of the Catholic Church	6	S2
	Advanced Plant Physiology	3	S2
	Instrumental Techniques	6	S2
	Molecular Biology (only labs in English)	6	S2
	Immunology	3	S1
3rd	Bioinformatics (70% in english)	6	S1
	Genetic Engineering	6	S1
	Bioanalytical Techniques	3	S1
	Microbial Biothecnology	6	S2
	Chemistry and Protein Engineering (only labs in English)	6	S2
	Fundamentals of Pharmacology and Toxicology	3	S2
	Pharmaceutical Biotechnology Products	6	S1
4th	Nutrigenomics and Pharmacogenomics	6	S1
	External Internship*	12	A
	Final Project (Final Dissertation)*	12	A

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ECTS: European Credit Transfer and Accumulation System | SEM: Semester | S1: Fall Semester | S2: Spring Semester | A: Fall and Spring Semester

# School of Medicine

## Bachelor Degree in Dentistry



### Practical training

- Latest generation clinical and preclinical facilities where one can gain knowledge and experience in a framework of cutting-edge dentistry.
- Voluntary work experience in dentistry clinics that have an agreement with the University or in our University Dental Clinic.
- Patient treatment based on scientific evidence from third year onwards.

### Practical training

- Latest generation clinical and preclinical facilities where one can gain knowledge and experience in a framework of cutting-edge dentist We arrange complementary activities in collaboration with renowned professionals such as seminars, courses, conferences, and congresses.
- We encourage student’s scientific production, guiding them towards participation in internal and national congresses.
- Interdisciplinary and comprehensive training in the treatment of oral diseases, thereby promoting teamwork with other health professionals.
- Voluntary work experience in dentistry clinics that have an agreement with the University or in our University Dental Clinic.
- Patient treatment based on scientific evidence from third year onwards.

### First Year

Human Anatomy	9
Antropology	6
Biology	6
Biochemistry	6
Physiology	6
History of Dentistry	3
Introduction to Investigation & Statistics	6
Introduction to Dentistry	6
Preventive Dentistry & Public Health	6
Psychology	6

### Second Year

Anesthesia & Reanimation	3
Oral Histology & Pathology	6
Biomaterials	6
Surgical Emergencies	3
Medical Emergencies	3
Pharmacology	6
Physiopathology & Surgial Basics	3
Social Doctrine of the Church	6
Modern Language	6
Immunology	3
Microbiology	3
General Pathology	6
Basic Periodontics	6

### Third Year

Gerodontology	2
Odontopediatry I	6
Orthodontics I	6
Orthodontics II	6
Dentistry for Special Patients	4
Surgical Oral Pathology I	6
Surgical Oral Pathology II	6
Pathology & Dental Therapeutics I	6
Pathology & Dental Therapeutics II	6
Prosthesis I	6
Prosthesis II	6

### Fourth Year

Pediatric Oral Surgery	6
Implantology	4
Esthetic Dentistry	3
Odontopediatry II	6
Orthodontics III	3
Orthodontics IV	3
Oral Medical Pathology I	3
Oral Medical Pathology II	3
Pathology & Dental Therapeutics III	6
Pathology & Dental Therapeutics IV	6
Advanced Periodontics	2
Prosthesis III	6
Prosthesis IV	6
Implant Prothesis	3

### Fifth Year

Maxillofacial Surgery	12
Forensic Dentistry	3
Integrated Dental Clinic I	3
Integrated Dental Clinic II	6
Advances in Temporomandibular Joint (TMJ) pathology	3
Ethics & Deontology	3
Community Dentistry	12
Radiology	6
Final Year Project I	3
Final Year Project II	3
Optional Subjects*	3

### Details of optional subjects

Science and Trends in Dentistry	3
Primary Care in Dentistry	3
Management and Marketing of Dentistry Clinics	3
Language II	3
Basics of Healthcare Economics & Management of Medical Resources	3

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# School of Medicine

## Bachelor Degree in Physiotherapy



### Presentation

The CEU San Pablo University of Madrid started to offer university studies in Physiotherapy in 1998. As a result of our experience and adapting the studies to the European Higher Education Area, we have offered the Degree in Physiotherapy since 2010, a degree that lasts four years and is worth 240 ECTS credits. Work experience carried out in different hospitals and specialised clinics is undertaken throughout the four years of studies, with the aim to develop clinical skills and the integration of the student in the working world. In order to carry out their studies, each student is designated with a tutor who will advise them and guide them personally throughout the course of their academic progress.

### Objective of this Degree

The objective of the Degree in Physiotherapy is to provide our students with all of the necessary training to be able to perform numerous tasks as a physiotherapist, be that in the private sector (doctor’s surgeries and clinics) or the public one (hospital network, social and health services, etc.), both nationally and internationally.

Over the last few years, the demand for professionals in this sector has increased in order to cover the needs of a population that suffers occupational and traffic accidents, but which additionally, and thanks to the advances achieved, has a greater life expectancy rate therefore presenting a greater number and longer duration of chronic diseases. At our university, we are responsible for giving our students an excellent theoretical and practical training so that they are capable of taking care of their future patients in an optimum way and can develop a successful professional career.

### First Year

Anatomy of the Locomotor System	6
Biology	6
Anthropology	6
Physiology	6
Foundation of Physiotherapy	6
General Anatomy I	3
General Anatomy II	3
Biophysics	3
Assessment in Physiotherapy	6
Physical Agents I	4
Physical Agents II	4
Principles of Kinesitherapy	4
Study of the Human Movement	3

### Second Year

Practical Basis of Kinesitherapy	3
General Pathology	6
Physical Agents III	6
Statistics Applied to Health Sciences	6
Psychosocial Sciences Applied to Physiotherapy	6
Medical and Surgical Conditions I	3
Public Health	3
Specific Methods in Traumatology and Orthopaedics	4.5
Manual Therapy I	4.5
Physiotherapy in Trauma and Orthopaedic Processes	6
Medical and Surgical Conditions II	3
Modern Languages	6
Clinical Practice	3

### Third Year

Medical & Surgical Conditions III	6
Clinical Integration	4.5
Physiotherapy in Diseases of the Central and Peripheral Nervous System	3
Physiotherapy in Diseases of the Cardio-Respiratory System	3
Physiotherapy in Diseases of the Cardiovascular System	3
Specific Methods in Adult Neurology	4.5
Specific Methods in Infant Neurology	4.5
Specific Methods in Circulatory Diseases	3.5
Manual Therapy II	4.5
Medical and Surgical Conditions IV	5.5
Specific Methods in Diseases of the Cardio-Respiratory System	3.5
Legislation and Deontology in Physiotherapy	3
Health Complementary Techniques	3.5
Clinical Practice II	5
Research in Health Sciences	3

### Fourth Year

Physiotherapy in Obstetrics and Genital and Urinary Systems	3
Physiotherapy in Physical Activity and Sport	3
Physiotherapy in Geriatrics	3
Physiotherapy in Temporo-Mandibular Dysfunction	3
Skeletal Muscle Physiotherapy Techniques	3
Social Doctrine of the Catholic Church	6
Physiotherapy Management	3
Prevention in Physiotherapy	3
Final Year Project	6
Clinical Practice III	18
Clinical Practice IV	18

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More information at  
[www.uspceu.com](http://www.uspceu.com)

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**Learn more:**

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