Catalogue of undergraduate courses delivered in English by areas

Agricultural, Forest & Environmental Technologies

- Applied remote sensing and GIS
- Multiple use of natural products
- Structure and function of woody plants
- Uses of medicinal and aromatic plants
- Unit operations in the forest industries
- Zoology

Industrial Technologies

- Biodegradable polymers for food packaging
- Composite materials
- Drawing and sketching
- Finite element-based simulation model
- Intellectual capital and knowledge management
- Introduction to chaos in science and technology
- Materials recycling
- Mechanics of materials III
- Mechanics of materials IV
- Nanotechnology
- Numerical calculations for engineering
- Numerical simulation
- Practical Internet of Things with Raspberry Pi
- Properties of materials II
- Quality and management
- Soft matter
- Surface Engineering
- Sustainable design

Building Technology & Civil Engineering

- History of urban law and planning

Information & Communication Technologies

- Analog electronics
- An introduction to electronics
- Basic circuit analysis
- Biomedical digital signal processing
- Calculus
- Communications electronics
- Digital electronics
- Digital signal processing
- Digital systems
- Dynamical systems
- Electromagnetics
- Embedded system design with Raspberry Pi
- Human-computer interaction
- Image understanding
- Information coding
- Introduction to bioinformatics and biocomputing
- Introduction to machine learning
- Linux system administration
- Logic
- Multimedia
- Optical communications
- Physics I
- Physics II
- Physical and technological foundations of computer science
- Programming I
- Programming for mobile devices
- Programming scalable systems
- Radiation and wave propagation
- Random signals
- Semantic web, linked data and knowledge graphs
- Signals and systems
- Software quality
- Software Architecture and Design
- Spatial data infrastructure
- The art of programming
- Vector analysis
- Wireless communications

Management and Spanish Culture

- Business management basics (ICT)
- Intellectual capital and knowledge management
- Spanish language
- Women in science and technology
# Catalogue of undergraduate courses delivered in English by Schools

## Moncloa Campus

<table>
<thead>
<tr>
<th>School</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SCHOOL OF BUILDING TECHNOLOGY (ETS DE EDIFICACIÓN)</strong>&lt;br&gt;Av. Juan de Herrera, 6, 28040 Madrid, Spain</td>
<td>• History of urban law and planning</td>
</tr>
<tr>
<td><strong>SCHOOL OF CIVIL ENGINEERING – MONCLOA CAMPUS (ETS DE INGENIEROS DE CAMINOS, CANALES Y PUERTOS)</strong>&lt;br&gt;C/ Prof. Aranquines, s/n, 28040 Madrid – Spain</td>
<td>• Composite materials&lt;br&gt;• Materials recycling&lt;br&gt;• Mechanics of materials III&lt;br&gt;• Mechanics of materials IV&lt;br&gt;• Nanotechnology&lt;br&gt;• Numerical simulation&lt;br&gt;• Properties of materials II&lt;br&gt;• Quality and management&lt;br&gt;• Soft matter&lt;br&gt;• Surface engineering</td>
</tr>
<tr>
<td><strong>SCHOOL OF FORESTRY ENGINEERING AND NATURAL RESOURCES (ETS DE INGENIERÍA DE MONTES, FORESTAL Y DEL MEDIO NATURAL)</strong>&lt;br&gt;C/ Antonio Novais, 10, 28040 Madrid – Spain</td>
<td>• Applied remote sensing and GIS&lt;br&gt;• Multiple use of natural products&lt;br&gt;• Structure and function of woody plants&lt;br&gt;• Uses of medicinal and aromatic plants&lt;br&gt;• Unit operations in the forest industries&lt;br&gt;• Zoology</td>
</tr>
<tr>
<td><strong>SCHOOL OF TELECOMMUNICATIONS ENGINEERING (ETSI TELECOMUNICACIÓN)</strong>&lt;br&gt;Avda. Complutense, 30, 28040 Madrid – Spain</td>
<td>• Analog electronics&lt;br&gt;• An introduction to electronics&lt;br&gt;• Basic circuit analysis&lt;br&gt;• Business management basics&lt;br&gt;• Calculus&lt;br&gt;• Communications electronics&lt;br&gt;• Digital electronics&lt;br&gt;• Digital signal processing&lt;br&gt;• Electromagnetics&lt;br&gt;• Optical communications&lt;br&gt;• Physics I&lt;br&gt;• Physics II&lt;br&gt;• Radiation and wave propagation&lt;br&gt;• Random signals&lt;br&gt;• Signals and systems&lt;br&gt;• Spatial data infrastructure&lt;br&gt;• Vector analysis</td>
</tr>
</tbody>
</table>
Undergraduate academic offering in English by Schools

City Centre Campus

SCHOOL OF INDUSTRIAL ENGINEERING AND DESIGN (ETS DE INGENIERÍA Y DISEÑO INDUSTRIAL)
C/ Ronda de Valencia, 3, 28012 Madrid, Spain
Catalogue of courses delivered in English
- Biodegradable polymers for food packaging
- Drawing and sketching
- Finite element-based simulation model
- Intellectual capital and knowledge management
- Introduction to chaos in science and technology
- Numerical calculations for engineering
- Practical Internet of Things with Raspberry Pi
- Spanish language
- Sustainable design

Montegancedo Campus

SCHOOL OF COMPUTER SYSTEMS ENGINEERING (ETS DE INGENIERÍA DE SISTEMAS INFORMÁTICOS)
C/ Alan Turing s/n, 28660, Boadilla del Monte, Madrid, Spain
Catalogue of courses delivered in English
- Information coding
- System administration
- Software quality
- Software Architecture and Design

SCHOOL OF TELECOMMUNICATIONS AND SYSTEMS ENGINEERING (ETS DE INGENIERÍA Y SISTEMAS DE TELECOMUNICACIÓN)
C/ Nikola Tesla s/n, 28012 Madrid, Spain
Catalogue of courses delivered in English
- Biomedical digital signal processing
- Dynamical systems
- Embedded system design with Raspberry Pi
- Introduction to machine learning
- Wireless communications
- Women in science and technology
- Digital systems
- Human-computer interaction
- Image understanding
- Introduction to bioinformatics and biocomputing
- Logic
- Multimedia
- Physical and technological foundations of computer science
- Programming I
- Programming for mobile devices
- Programming scalable systems
- Semantic web, linked data and knowledge graphs
- The art of programming