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http://www.med.unipi.it

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http://www.tnmed.unipi.it

Department of Pharmacy
http://www.farm.unipi.it

Hauzacias

Department of Civilizations and Forms of Knowledge
http://www.cfs.unipi.it

Department of Philology, Literature and Linguistics
http://www.fileli.unipi.it

Social Sciences

Department of Economics and Management
http://www.ec.unipi.it

Department of Law
http://web.jus.unipi.it

Department of Political Science
http://www.esp.unipi.it

Agricultural and Veterinary Sciences

Department of Agricultural, Environmental and Food Sciences
http://www.agr.unipi.it

Department of Veterinary Sciences
http://www.esv.unipi.it

Mathematical, Physical and Natural Sciences

Department of Mathematics
http://www.dm.unipi.it

Department of Physics
http://www.df.unipi.it

Department of Computer Science
http://www.dcs.unipi.it

Department of Chemistry and Industrial Chemistry
http://www.dci.unipi.it

Department of Biology
http://www.biologia.unipi.it

Department of Earth Sciences
http://www.dsi.unipi.it

Department of Civil and Industrial Engineering
http://www.dici.unipi.it

Department of Energy, Systems, Territory and Construction Engineering
http://www.destec.unipi.it

Department of Information Engineering
http://www.dii.unipi.it
Dear International Students and Researchers,

The University of Pisa, one of the oldest in the world, has been extraordinarily successful in updating and maintaining its infrastructure and human resources to meet the new challenges of international research and education.

We boast an excellent international reputation in all areas: Natural Sciences, Mathematics, Humanities, Social Sciences, Medicine, Engineering, Agricultural Sciences, Applied Sciences, and many more. We lead important international research and direct vital education networks whose results we constantly incorporate into our programmes.

The University of Pisa is committed to promoting quality in all areas of research and teaching, and to making all our programmes available to an increasing number of international students and researchers.

The city of Pisa, of which our University has always been a fundamental institution, offers students and researchers an ideal environment for living, studying and working. Pisa has a pleasant climate, excellent food and world-famous cultural and leisure attractions. Both the sea and the mountains are nearby, as well as ever-celebrated cities, such as Florence, Siena, and Bologna, museums, monuments and the beautiful countryside for which Tuscany is rightly renowned. With its large and intellectually stimulating scholarly community, Pisa is an attractive environment for researchers in any field.

We hope to see you soon!

Warmest regards,

The International Office
University of Pisa
The University of Pisa was officially established in 1343, when it was proclaimed a "Studium Generale" with the authority to prepare university teachers, although its origins date back to earlier centuries. Amongst its glories is Galileo Galilei, who was born and studied in Pisa, and became professor of Mathematics in 1589. The University also counts several Nobel Prize winners among its alumni, including Giorgio Carducci (Literature), Enrico Fermi (Physics), Carlo Rubbia (Physics), and two Fields medalists (Mathematics), Enrico Bombieri and Alessio Figalli.

Today, the University of Pisa is a modern and prestigious centre of advanced teaching and research. It offers 58 undergraduate courses (first cycle), 67 master's degree courses (second cycle) and 8 single-cycle degree courses, all in the main fields of advanced professional knowledge and education. The University has 20 PhD courses; its educational offer also includes 46 specialization courses and 62 one-year master's courses, including 12 Bologna and the Sapienza di Roma. Second place for Physics and Astronomy and amongst the top 300 universities in the world as well as the University of Pisa being ranked between 101 and 150th place in the scientific field. It is amongst the top one-hundred in Natural Sciences, an improvement of four places compared to 2017, and 169th in Engineering and Technology, climbing 16 places. The university's good performance is also reflected in the rankings for degree programmes it is amongst the top 150 in IT and Electrical Engineering and amongst the top 200 for Medicine, Pharmacy, Agriculture, Statistics, and Archaeology.

Almost all departments of the University of Pisa are located in the core of the city. They are in the old university buildings with modern structures, some of which are located in the centre and some in the outskirts. Most facilities are within 20 minutes walking distance from the centre of the city.

According to the latest rankings by Shanghai ARWU 2017, The University of...
STUDENT SERVICES

Intensive Italian language courses for international students are offered in September and October each year by the CLI (Centro Linguistico Interdipartimentale/Interdepartmental Language Centre). The CLI also offers regular Italian courses during the year for different proficiency levels. For further information and to register: www.cli.unipi.it.

Most student services are provided by the Tuscan Region’s DSU. The DSU offers a large number of scholarships and accommodation in university dormitories. Priority is given to low-income students. The DSU also offers all students an excellent food service at very favourable prices in the three university dining halls located downtown, as well as other information and guidance services. For further information see www.dsu.toscana.it or write to info@dsu.toscana.it.

A wide range of sports facilities and services are provided by the Centro Universitario Sportivo (CUS), a member of CONI (the Italian Olympic Committee). The CUS takes part in national and international university championships in every sport. For further information see: www.unipi.it/sports-and-leisure

CUS Pisa
via Napoli, 49
56123 Pisa (PI)
Homepage: www.cuspisa.it
Info: segreteria@cuspisa.it

ABOUT PISA

Pisa is world famous for its Leaning Tower and Cathedral (listed as a UNESCO World Heritage site) and its many other medieval and Renaissance monuments. It is located in Tuscany, in the central part of the Italian peninsula, on a plain near the coast of the Mediterranean Sea close to the mouth of the river Arno. Its multicultural population totals about 100,000 people, in addition to the many thousands of students who enliven the city. The university buildings are located in the city itself, some in monumental historical buildings and others in modern structures. Together, the University and the city form a single complex, a “campus in a city”, just as they have for many centuries.

In addition to the University, the city hosts two prestigious higher education institutes: the Scuola Normale Superiore and the Scuola Superiore Sant’Anna di Studi Universitari e di Perfezionamento. Both are centres for advanced studies and research in various disciplines. On the basis of a yearly national competition, they admit the best high school graduates to study at the University, and participate in special seminars and activities at the Institutes. Pisa is also an ideal place for students to live and meet in the city centre’s streets and piazzas, with their bars and pubs.

Both the beaches and the mountains are close and easily accessible, as are other famous Tuscan cities, such as Lucera, Florence, Volterra and Siena.

The climate in Pisa is generally mild. The city enjoys cool summers and mild winters. There is some rain in autumn and winter although it rarely snows; the summers are dry and make for pleasant excursions to the sea.

Rates of criminality are very low. Overall Pisa is a very friendly and safe city, well attuned to students’ and researchers’ needs.

Rental rates: most students find lodgings in shared private flats in the city centre. Rates vary from about 250.00€ per month for a place in a double room to € 350.00 or more per month for a single room.
HOW TO REACH PISA

By Plane: Pisa’s international airport “Galileo Galilei” offers a large and ever-growing number of flight connections with Europe, America and Asia. It is the preferred hub in Tuscany for Low-Cost companies as well as for major airlines. The airport is very close to the city centre, and can be reached very quickly by bus, train, car or bicycle. For further information see http://www.pisa-airport.com.

By Train: Pisa’s main train station offers frequent connections with Florence, Lucca, Viareggio and other Tuscan destinations as well as with major Italian and European cities. The trip by rail to Rome takes 3 hours. For further information see www.trenitalia.com.

By Bus: There are regional bus services with connections to Florence, Lucca, Pisa, Pistoia, Massa Carrara, Volterra, Livorno, Viareggio and other destinations. For further information see: www.pisa.cittamtd.it.

By Car: Pisa is served by two large motorways (“Autostrade”): A12 (Genoa - Rosignano), and A11 Pisa-Florence. There are state highways such as SS67 to Florence and SS1 (the Roman “via Aurelia”) which connects Pisa to Rome in the south and La Spezia to the north, and a “super road” from Livorno-Pisa-Florence.

Transportation in the city: The urban bus service is operated by the CPT (Pisa Transport Consortium, www.pisa.cittamtd.it). By far the most popular means of transportation amongst students, given the convenient size of the city, is by foot or by bicycle (see: www.ciclopi.eu).
DEGREE PROGRAMMES OFFERED

FIRST CYCLE (BACHELOR’S) DEGREE PROGRAMMES (3 years, 180 ECTS credits)
• Mathematics
• Physics (some courses in English)
• Computer Science
• Digital Humanities (together with Humanities)
• Chemistry
• Chemistry for Industry and Environment
• Biological Sciences
• Biotechnology
• Natural and Environmental Sciences
• Geological Sciences

SECOND CYCLE (MASTER’S) DEGREE PROGRAMMES (2 years, 120 ECTS credits)
• Mathematics (some courses in English)
• Physics (some courses in English - together with the Université Pierre et Marie Curie - UPMC)
• Applied and Exploration Geophysics
• Computer Science (in English - possibility of a Double degree with the Universidad de Málaga or the Université de Paris Ouest Nanterre La Défense)
• Data Science and Business Informatics (mostly in English – together with the Department of Economics, possibility of a Double degree with the Université Paris Dauphine)
• Computer Science and Networking (in English - together with Engineering and the Scuola Superiore Sant’Anna, possibility of a Double degree)
• Chemistry

MATHEMATICAL, PHYSICAL AND NATURAL SCIENCES
• Industrial Chemistry
• Marine Biology (Double degree with Zhejiang Ocean University)
• Biology Applied to Biomedical Sciences
• Molecular and Cellular Biology
• Molecular Biotechnology (joint degree with the Scuola Superiore Sant’Anna)
• Conservation and Evolution (some courses in English)
• Biosciences and Genotechnologies
• Environmental Science
• Neuroscience
• Materials and Nanotechnology
• Digital Humanities

SPECIAL PROGRAMMES
The departments of Mathematics of the University of Pisa and the University of Lombarde share a 18 ECTS programme.

THIRD CYCLE (DOCTORAL) DEGREE PROGRAMMES (3 years)
• Biology
• Biochemistry and Molecular Biology (together with the University of Florence and the University of Siena)
• Chemistry and Materials Science
• Earth Sciences (together with the University of Florence and the University of Siena)
• Life Sciences (together with the University of Florence and the University of Siena)
• Mathematics (some courses in English)
• Physics (some courses in English)

ONE-YEAR SPECIALISATION PROGRAMMES
5 one-year Specialisation programmes (60 ECTS credits)

RESOURCES AND SERVICES FOR STUDENTS AND RESEARCHERS
• Physics, Mathematics and Computer Science library (47,000 books, 87 current journals, 3,568 e-journals)
• Chemistry library (8,814 books, 9 current journals and 1,739 e-journals)
• Natural and Environmental Sciences library (36,873 books, 186 current journals and 2,334 e-journals)
• Maths computer room (26 workstations equipped with maple, matlab, scilab, octave)
• Computer Science labs fully-equipped for teaching
• Chemistry computer room
• Natural Sciences computer room
• Full wi-fi coverage
• Self-service facility for printing and photocopying
• International relations offices in each department

ENGAGE MINES-JOINT-DEGREE – E.M.I.-THEORETICAL CHEMISTRY AND COMPUTATIONAL MODELING

WORKING WITH THE BUSINESS WORLD
Cooperation with major firms like Yahoo and Google results in funding fellowships for our PhD students. A large number of firms, Small Medium Enterprises (SME), local and regional authorities, hospitals and health institutions, non-academic research centers have cooperation contracts to offer training opportunities to our undergraduate students.
Research in Physics is done in very close collaboration with the local branches of the National Institute for Mathematics research in Pisa focusses on the following areas:

- Numerical Analysis
- Computational Algebra
- Business Theory
- Quantum Theory
- Calcolo dell’Iterazione, Control
- Partial Differential Equations
- Game Theory
- Multidimensional Analysis

The University of Pisa is, together with the Scuola Normale Superiore and the Scuola Superiore Sant’Anna, a founding partner of the Centro di Ricerca Matematica Ennio De Giorgi (Mathematical Research Centre Ennio De Giorgi), which is part of ERCOM (European Research Centres on Mathematics) and has established agreements with prestigious foreign institutions and laboratories, as well as with national public authorities and private foundations for the development of research.

- Change through time: paleoenvironmental reconstruction, fossil record and biological evolution
- Cosmochronology and radiometric dating
- Crystallography and crystal chemistry
- Complex information and molecular networking of natural systems
- Environmental monitoring, collection and classification of biological and environmental data
- Properties of new materials
- Chemical and environmental monitoring
- Physical studies of the Earth’s dynamic processes
- Nano and biotechnology, research on the state of the art in microscopy
- Molecular and cellular processes and modelling
- Water resources management and planning

INTERNATIONAL NETWORKS

- More than 50 international research networks funded by the European Union and other institutions
- Erasmus Mundus and Marie Sklodowska-Curie Programme
- Marie Sklodowska-Curie and Erasmus Mundus Joint Doctorate in “Theoretical Chemistry and Computational Modelling"
- Erasmus Mundus joint doctorate PCUBE (Physics)
- 2 international cooperation agreements for the exchange of students and researchers
DEGREE PROGRAMMES OFFERED

LONG SINGLE CYCLE DEGREE PROGRAMMES

• Medicine (6 years, 360 ECTS credits)
• Dentistry and Dental Prosthodontics (6 years, 360 ECTS credits)
• Pharmacy (5 years, 300 ECTS credits)
• Pharmaceutical Chemistry and Technology (5 years, 300 ECTS)

FIRST CYCLE (BACHELOR’S) DEGREE PROGRAMMES (3 years, 180 ECTS credits)

Medicine:
• Dental Hygiene
• Dietetics
• Speech and Language Therapy
• Sports and Physical Education
• Nursing
• Midwifery
• Physiotherapy
• Podiatry
• Sciences and Techniques in Clinical and Health Psychology
• Audioprothesic Techniques
• Biomedical Laboratory Techniques
• Environment and Workplace Prevention Techniques
• Psychiatric Rehabilitation Techniques
• Imaging and Radiotherapy Techniques
• Childhood Neuro and Psychomotricity

Pharmacy:
• Science of herbal and health products (together with Agricultural Sciences)

SECOND CYCLE (MASTER’S) DEGREE PROGRAMMES (2 years, 180 ECTS credits)

Medicine:
• Sciences and Techniques in Clinical and Health Psychology
• Nursing and Midwifery Sciences
• Health Professions of Rehabilitation Sciences
• Sport Science for Prevention and Rehabilitation

Pharmacy:
• Human Nutritional Sciences

THIRD CYCLE (DOCTORAL) DEGREE PROGRAMMES (3 years)

• Clinical and Translational Sciences
• Clinical Physiopathology
• Genetics, Oncology and Clinical Medicine (together with the University of Florence and the University of Siena)
• Life Sciences (together with the University of Florence and the University of Siena)
• Molecular Medicine (together with the University of Florence and the University of Siena)
• Neuroscience (together with the University of Florence and the University of Siena)
• Science of Drug and Bioactive Substances

SPECIALISATION SCHOOLS AND ONE-YEAR SPECIALISATION PROGRAMMES

46 Residency Programmes in Medicine and Pharmacy, some of which are in cooperation with other universities

56 One-Year Specialisation programmes (60 ECTS credits)

RESOURCES AND SERVICES FOR STUDENTS AND RESEARCHERS

Medicine and Surgery Library (29,742 books, 72 current journals and 6,879 e-journals)
Pharmacy Library (9,175 books, 35 current journals and 465 e-journals)
12 department libraries
Medicale School Computer Centre
C.I.S.I.F. (Interdepartmental Centre of Computer Sciences for Drugs Design and Learning)
Pharmacy Computer Centre (18 workstations)
Assistance of Human Anatomy “Filippo Civinini”
AREAS OF EXCELLENCE IN RESEARCH

Medicine:
• Study of innovative approaches in computer-aided surgery.
• Study of innovative methodologies in organ transplantation.
• Study of a novel integrated system to measure autonomic functions.
• Analysis of novel markers and therapies in oncology and hematology.
• Study of innovative approaches in imaging techniques and surgical practice.
• Innovative techniques and enforcement in neurophysiology.
• Basic and translational studies related to novel drug treatment and surgical procedures in neuropsychiatric disorders.
• Functional neuroimaging in development and adult psychobiology.
• Translational research on microorganisms related to novel antimicrobial agents.
• Basic and translational studies of the cardiovascular system related to novel therapeutic approaches in cardiovascular disorders.
• Set up of an integrated environment for rehearsal and planning of surgical interventions.

Pharmacy:
• Innovative synthetic methodologies to obtain bioactive compounds.
• Innovative methodologies for the release and bioavailability of bioactive compounds.
• Isolation and study of natural compounds endowed with potential biological activities.
• Computational methodologies for the design and development of bioactive compounds.
• Evaluation and study of the mechanism of interaction between biological systems and new compounds.
• Design and synthesis of compounds into therapeutic activity.
• Evaluation of the activity and toxicity of novel compounds in cellular and animal models.
• Green chemistry: Ionic liquids as solvents, catalysts and smart materials.
• New methodologies and synthetic applications towards bioactive carbohydrates.
• Asymmetric catalysis.

WEBSITE
Medicine: http://www.med.unipi.it/
Pharmacy: http://www.farm.unipi.it/

CONTACT INFO
Medicine: international@med.unipi.it
Pharmacy: international@farm.unipi.it

INTERNATIONAL NETWORKS
• Erasmus+ Study and Traineeship Programme
DEGREE PROGRAMMES OFFERED

FIRST CYCLE (BACHELOR’S) DEGREE PROGRAMMES (3 years, 180 ECTS credits)

- Foreign Languages and Literatures
- Humanities
- Digital Humanities (together with Computer Science)
- Historical Studies
- Philosophy
- Studies in Performing Arts and Communication
- Sciences for Peace: International Cooperation and Conflict Transformation (together with other areas)
- Cultural Heritage Studies
- Tourism Sciences (Lucca Campus)
- Italian Language and Culture for Foreigners
- Teleological bachelor’s degree in Italian Language and Culture (for residents abroad only), promoted by the ICoN Consortium of twenty Italian Universities, managed by the University of Pisa

SECOND CYCLE (MASTER’S) DEGREE PROGRAMMES (2 years, 120 ECTS credits)

- Classical Philology and Ancient History
- Archeology Studies
- History and Civilisation (together with four European universities)
- History and Forms of the Visual and Performing Arts and New Media
- Digital Humanities (together with Computer Science)
- Italian Studies
- Linguistics and Translation
- Planning and Governance of Tourism System in Mediterranean Studies (Lucca Campus, together with other institutions)
- Euro-American Literatures and Philologies
- Studies on Ancient Egypt, Near and Middle East (together with the University of Aden)
- Philosophy and Forms of Knowledge
- Peace Studies: Development Cooperation and Conflict Transformation (together with other departments and the Università Paris Diderot)

THIRD CYCLE (DOCTORAL) DEGREE PROGRAMMES (3 years)

- Classical Studies and Archaeology (together with the University of Florence and the University of Siena)
- History
- History of the Arts and Entertainment (together with the University of Florence and the University of Siena)
- Italian Studies (together with the University of Florence and the University of Siena)
- Philology, Literature and Linguistics
- Philology and Criticism (together with the University of Siena)
- Philosophy (together with the University of Florence)

SPECIALISATION SCHOOLS AND ONE-YEAR SPECIALISATION PROGRAMMES

2 Specialisation Schools
- Cultural Heritage
- Archaelogical Heritage

4 One-Year Specialisation Programmes (60 ECTS credits)

WORKING WITH THE NON-ACADEMIC WORLD

The Humanities area has particular links with local and regional authorities (for example, in the one-year specialisation programme on Political Communication), as well as publishing houses, museums and archives.

RESOURCES AND SERVICES FOR STUDENTS AND RESEARCHERS

- Interdepartmental Language Centre (CLI) (courses in Italian for international students, courses in foreign languages)
- Humanities Computer Centre
- The Area cooperates with the Interdepartmental Centres for Jewish Studies and for Peace Studies
- A very large number of specialised department libraries (591,249 books, 1,456 current journals and 5,307 e-journals)
AREAS OF EXCELLENCE IN RESEARCH

The Humanities division of the University of Pisa has an exceptional tradition of research, in some cases going back many centuries.

Amongst the many sectors in which it excels, there are the following areas:

• Egyptology: archaeology and history of Thebes (Egypt), where excavations are conducted.

• Archaeology: the Mycenaean presence in Cyprus; the Archaic age sanctuaries in the Northern Aegean; figurative culture in Sicily and Magna Graecia; Etruscan studies (in particular, Volterra); the Arno river valley settlements. Excavations are conducted in most sites.

• Languages: Syriac, Armenian, South Slavic, and Arabic language and literature.

• Cinema and Performing Arts: studies on the relationship between drama and performance, text and stage settings, cinema and literary narrative, video and video art.

• History: Italy and the Middle Ages to the 21st century, in relation with European and North American art; in studies in numismatics, art history of collecting and of the art market, music studies, and art of restoration work.

• Philosophy: the analysis of texts of ancient (Plato, Aristotle, Plotinus), modern (Bruno), and contemporary philosophers (Nietzsche, Kierkegaard, Sartre and French thought); onto-theory; proof theory, modern and contemporary effective computability and complexity.

• History: the medieval urban realities in the Middle Ages, Europe and the Mediterranean during the 15th and 16th centuries; the Bourbon, Napoleonic, and fascista States in 19th century Europe, Italianic regneri and Sant’Emilia in the 20th century, history of the media.

• Two ERC projects are hosted by the Department:
  - Digital Archive for the Studies of pre-Islamic Arabian Inscriptions: digitalization of the epigraphic patrimony of pre-Islamic Arabia, and excavations in Yemen, Oman.
  - Greek into Arabic. Philosophical concepts and linguistic bridges: transmission of late ancient philosophy, especially Neo-platonic, to the Arabic-speaking world.

Classical Philology

• Editing of complete and fragmentary classical Greek texts (Plato, Aristotle, Archelaus).

• Editing of complete and fragmentary Latin texts (Virgil, Servius, Cicero, Ennius, Terence, Donatus). "Terence"

• Linguistic and historical studies on Greek and Latin lexicon, syntax, pragmatics.

• Reception of Greek and Latin literary texts in modern and contemporary literatures.

Roman Studies

• Critical editions and collation in ancient sources.

• Text analysis (encyclopaedic, literary).

• Literary History from the Middle Ages to the Contemporary Age (in France, Italy, Latin America, Spain, Portugal and Romania).

• Theory and practice of translation.

Linguistics

• Theoretical Linguistics.

• Historical Linguistics.

• Comparative Linguistics, with reference to Italian and other European languages (Norman, Portuguese, Slavic studies).

• Applied Linguistics (acquisition, computational, acoustic phonetics, etc).

English Studies

• Medieval, late medieval and drama studies. Critical editions and commentaries.

• Early Modern Culture and Theatre Studies.

• Renaissance and Victorian Poetry.

• Modernism and Postmodernism.

• Global American Literature.

• Poetic studies (Critical Theory and Anglophone Literature).

• Translation studies and Interpersonal communication.

• Semantics, Pragmatics and Text/Discourse analysis.

• Lexicology and Lexicography.

• Corpus Linguistics.

• ESP and Second Language Learning.

Italian Studies

• Drama Studies.

• Editing and commentary of the works of major Italian writers between the Middle Ages and the Renaissance.

• Italian Classical Studies between the 15th and 19th centuries.

• Italian Contemporary Poetry and Narrative Studies.

Modern European Literatures

• German Literature.

• Italian Literature.

• Comparative Literature.

WEBSITES

Classical Philology:  http://www.lingu.humnet.unipi.it

Modern Foreign Languages and Literatures: http://lingue.humnet.unipi.it

CONTACT INFO

Humanities, Literature and Philosophy: Letters and Philosophy: erasmus@cfs.unipi.it

Modern Foreign Languages and Literatures: erasmus@fileli.unipi.it

INTERNATIONAL NETWORKS

• 7 research and education programmes funded by the European Union

• Erasmus+ Study and Traineeship Programme

HUMANITIES:  http://www.fileli.unipi.it/didattica/corsi-di-laurea-triennale/

http://www.cfs.unipi.it/formazione/corsi-di-laurea-triennale/

MODERN FOREIGN LANGUAGES AND LITERATURES: http://www.fileli.unipi.it/lin/ http://lingue.humnet.unipi.it
DEGREE PROGRAMMES OFFERED

LONG SINGLE CYCLE DEGREE PROGRAMME
• Law (5 years, 300 ECTS credits)

FIRST CYCLE (BACHELOR’S) DEGREE PROGRAMMES
(3 years, 180 ECTS credits)
Business and Economics:
• Banking Finance Financial Markets
• Business Studies
• Economics and Commerce
Political Science:
• Political Science
• Science of Social Work
Law:
• Business, Work and Administrative Legal Services
• Law

SECOND CYCLE (MASTER’S) DEGREE PROGRAMMES
(2 years, 120 ECTS credits)
Business and Economics:
• Banking Finance and Financial Markets
• Professional Advice to Business
• Economics (in English - together with Scuola Superiore Sant’Anna)
• Marketing and Market Research
• Strategy, Management and Control
• Data Science and Business Informatics
Political Science:
• International Studies
• Sociology and Management of Social Services
• Corporate Communication and Human Resources Management
• Planning and Governance of Tourism System in Mediterranean Area

J oint Programmes:
• Management and Law of Logistics Systems (together with other departments, Livorno campus)
• Tourism Sciences (together with other departments, Lucca campus)
• Government and Administration of the Sea (together with the Naval Academy, Livorno)
• Sciences for Peace: International Cooperation and Conflict Transformation (together with other departments and the Université Paris Dauphine)

THIRD CYCLE (DOCTORAL) DEGREE PROGRAMMES
(3 years)
• Business Administration and Management (together with the University of Florence and the University of Siena)
• Data Science (together with the Scuola Normale Superiore)
• Economics (together with the University of Florence and the University of Siena)

One Year Specialization Programmes
• 19 One Year Specialization Programmes (60 ECTS credits), among which an MBA (Master di livello) in Business Administration (in English), A Risk Management Programme (Master di livello) and a Programme in Business Ethics. Governance and Risk (Master di livello)
• 1 Specialization School in Legal professions (1 year) Working with the non-academic world
• 1 Advanced Course in Constitutional Justice and Judicial Protection of Human Rights
• 1 Summer School on Fundamental Rights, Fundamental Freedoms and Private Law after the Lisbon Treaty

WORKING WITH THE BUSINESS WORLD
A large number of internship opportunities are available with Italian and international companies, amongst which Autogrill, Fiat, Erba, Gucci Group, Illy Caffe, Indesit Company, Pirelli, Prada, Salvestro Ferragamo, Vodafone, Piaggio, Ibm, Unicoper Firenze, Ansaldo Breda, Ansaldo Energia, Iper S.p.A, Ifp Italia, Ikko, and a number of multinational audit firms such as Pricewaterhouse Coopers, KPMG, Ernst&Young, Deloitte.

RESOURCES AND SERVICES FOR STUDENTS AND RESEARCHERS
• Business and Economics Library (112,492 books, 142 current journals, 4,305 e-journals and 3 specialized data banks)
• Law Library (121,685 books, 445 current journals and 1,087 e-journals)
• Political Science department library (44,200 books, 65 current journals, 2,064 e-journals and several specialized data banks)
• Business and Economics Computer Centre (130 terminal equipped computers, 3 computers lab)
• Law Computer Centre
• Political Science Computer Centre (14,500 books, 65 current journals, 2,644 e-journals and several specialized data banks)
• E-learning platform
• Bookshop
• Printing centre
• Self-service train ticket machine
• Student union store
• Student union office
• International relations offices in each area of study
• IFN
• Bar / Caffetteria
• Vending machines
AREAS OF EXCELLENCE IN RESEARCH

• Theory of production
• Development economics at firm, micro- and macroeconomic level
• General equilibrium theory and game theory
• Economic growth and population economics
• Process economics
• History of economic thought
• Public Finance
• Internal auditing
• Management accounting with special focus on costing
• Marketing, economic behaviour and consumer culture theory
• History of economics with an institutional approach
• Quantitative research and mathematical optimization
• Mathematical finance with special focus on portfolio selection
• Survey methodology and small area estimation
• Psychological economics of infectious diseases
• Business and tax law
• Private Law
• Roman Law
• History of law
• Constitutional Law and Justice
• Procedure law
• Philosophy of law
• Criminal law
• Political Parties and Party Systems
• Political Corruption and Organized Crime

• Democracy in the History of Political Thought
• Political Economy (Islamic)
• Social Policy, Participation, Citizenship and Social Exclusion
• European Union and Regional Integration in Latin America
• International Migration Law, Development and Migration
• Constitutional and Administrative Justice
• Political Philosophy of the Enlightenment Age
• Copyright Theory and Open Access Publishing
• Institutional History in Italy and Spain
• Gender Studies
• Social network analysis and Media research
• History of globalization
• History and International Relations of the Asian Countries

INTERNATIONAL NETWORKS

• More than 15 international research programmes, mostly funded by the European Union
• Erasmus+ Study and Traineeship Programme
• 11 international cooperation agreements for the exchange of students and researchers

WEBSITES
Economics: http://www.ec.unipi.it
Economics - International Relations Office: http://international.ec.unipi.it/
Political Sciences: http://www.sp.unipi.it
Law: http://www.jus.unipi.it/
Law - International Relations Office: http://www.rapp-int.jus.unipi.it/

CONTACT INFO
Economics: international@ec.unipi.it
Political Sciences: international@sp.unipi.it
Law: rapp.int@jus.unipi.it
## DEGREE PROGRAMMES OFFERED

### LONG SINGLE CYCLE DEGREE PROGRAMMES (5 years, 300 ECTS credits)
- Architectural and Building Engineering

### FIRST CYCLE (BACHELOR’S) DEGREE PROGRAMMES (3 years, 180 ECTS credits)
- Aerospace Engineering
- Biomedical Engineering
- Chemical Engineering
- Civil and Environmental and Building Engineering
- Computer Engineering
- Electronic Engineering
- Energy Engineering
- Engineering Management
- Mechanical Engineering
- Telecommunications Engineering
- Maritime and Naval Science
- Government and Administration of the Sea

### SECOND CYCLE (MASTER’S) DEGREE PROGRAMMES (2 years, 120 ECTS credits)
- Aerospace Engineering (in English only for the Space option)
- Applied and Exploration Geophysics
- Biomedical Engineering
- Bionics Engineering (in English)
- Chemical Engineering
- Civil Infrastructures and Environmental Engineering
- Computer Science
- Data Science (together with the Scuola Normale Superiore)
- Data Science (together with the University of Florence)
- Electrical Engineering
- Electronic Engineering
- Energy Engineering
- Energy, Systems, Territory and Construction Engineering
- Embedded Computing Systems (in English)
- Electric Engineering
- Energy Engineering
- Government and Administration of the Sea
- Hydraulic, Transportation and Territory Engineering
- Management Engineering (together with Cranfield University)
- Materials and Nanotechnology
- Mechanical Engineering
- Nuclear Engineering (in English)
- Robotics and Automation Engineering
- Structural and Building Engineering
- Telecommunications Engineering
- Vehicle Engineering

### THIRD CYCLE (DOCTORAL) DEGREE PROGRAMMES (3 years)
- Civil and Environmental Engineering (together with the University of Florence)
- Data Science (together with the Scuola Normale Superiore)
- Data Science (together with the University of Florence)
- Management Engineering (together with Cranfield University)
- Management Engineering (together with the University of Florence)
- Information Engineering
- Smart Computing (together with the University of Florence)

### SPECIAL AND ONE-YEAR SPECIALISATION PROGRAMMES
- 11 One-Year Specialisation Programmes (1 year, 60 ECTS)
- Summer Schools in cooperation with the University of Illinois at Urbana, Champaign (Illinois), San Diego State University (California) and the University of Tokyo (Japan)

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**RESOURCES AND SERVICES FOR STUDENTS AND RESEARCHERS**
- Engineering library (54,685 books, 236 current journals, 5,212 e-journals and several specialised data banks)
- Seminar rooms (50 workstations, 7 computer labs, printing area)
- 2 Bars/Cafeterias
- Full wi-fi coverage
- 50 laboratories equipped with specialised machines and instruments

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**WORKING WITH THE NON-ACADEMIC WORLD**
The Engineering Departments are involved in a continuous activity of technology transfer towards small and medium enterprises, with a turnover of 10M€ annually. Furthermore, a number of international companies outsource research activities to the laboratories hosted by the Engineering Area. The list of companies includes:
- Ansaldo, AustriaMicroSystems, Avio, Boeing, Dana, Dael, Ericsson, Fiat, Intel, Magna, Pegaso Geotechnical Equipment, PowerONE, Saab Gallery, Senior Dynamics, SISMicroelectronics, Thales, Yumata, La Spezia and Livorno Port Authorities, Robert Bosch Produktiv, Continental Automotive Italy.

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**SPECIAL AND ONE-YEAR SPECIALISATION PROGRAMMES**
- 11 One-Year Specialisation Programmes (1 year, 60 ECTS)
- Summer Schools in cooperation with the University of Illinois at Urbana, Champaign (Illinois), San Diego State University (California) and the University of Tokyo (Japan)
AREAS OF EXCELLENCE IN RESEARCH

The Engineering Area of the University of Pisa has a well-established international reputation in several research fields, with particular excellencies in the following sectors:

AEROSPACE ENGINEERING
- Advanced chemical propulsion
- Aerodynamics of road vehicles
- Development of fly-by-wire control systems
- Flow stability and control
- Sleep and spatial orientation

APPLIED ELECTROMAGNETICS
- Microwave circuits, antennas and metamaterials for advanced applications
- Computational electromagnetics
- Electromagnetic propagation in complex environments
- Wireless systems for remote identification and radio-localization

AUTOMATION ENGINEERING
- Guidance, navigation and control systems
- Oceanic engineering
- Process and control theory
- Robotics

BIOENGINEERING
- Biomedical signal and image processing
- Health information technology
- Mathematical and in-vitro models of physiological and biomimetic systems
- Smart materials and multiscale fabrication for bioengineering

CHEMICAL ENGINEERING
- Environmental engineering
- Fuel technology and carbon capture
- Industrial chemical process design, control, intensification, modeling
- Industrial safety
- Materials engineering (polymers, functional materials, nanocomposites, metals, biomaterials)
- Multiphase flow, fluid mechanics and interfacial engineering
- Product design (textiles, electronics, bioceuticals, etc)

CIVIL ENGINEERING
- Architectural design and Architectural technologies
- Landscape and town planning
- Preservation and valorization of the historical architectural heritage
- Geotechnical design of river embankments
- Seismic microzonation
- Design of hydraulic and environmental works (sewerage systems, coastal engineering and hydraulic engineering, water supply and sewer systems, environmental and sanitary engineering)
- Geotechnical modeling and numerical simulation
- Advanced methods for standardized design and fluid simulation
- Structural mechanics
- Dynamic analysis and structural optimization
- Advanced methods for transport demand and network analysis
- Long-term dynamic analysis and long-term design, maintenance and assessment
- Road safety and congestion of road traffic noise
- Structural mechanics
- Dynamics
- Stochastic processes
- Non-destructive tests
- Classical beams and structures
- Damage mechanics, Failure behaviour and Fatigue
- Fatigue and fracture and Structural Failures
- Fatigue

COMPUTER ENGINEERING
- Computer Architectures
- Distributed Systems and Computer Networking
- Embedded Systems and Pervasive Computing
- Dependable and Secure Systems
- Software Engineering
- Computational Intelligence
- Information Systems

ELECTRIC AND ENERGY ENGINEERING
- Acoustics and lighting technology
- Building physics
- Computational and applied electromagnetics and fluid dynamics
- Distributed generation and cogeneration
- Electric machines, power electronics and electrical drives
- Electric propulsion and hybrid vehicles
- Energy market, energy storage and energy systems optimization
- Geothermal plants
- Heating, cooling, safety and environment systems
- High transfer efficiency
- Liquid energized and fuel cells
- Internal and external combustion engines
- Marine and ship technology
- Non-destructive testing
- Power generation systems and power systems' reliability
- Power systems and VPP
- Renewable energy
- Energy storage and vehicle electronics

BIOMEDICAL ENGINEERING
- Analog integrated systems design

MANAGEMENT ENGINEERING
- ICT management and organization
- Innovation management and economics
- Inspection, quality control and management

MICROCHEMICAL ENGINEERING
- Microelectronics and system on chip
- Nano-electronics
- Radiofrequency and microwave ICs design
- Manufacturing planning, systems and optimization

MICROENGINEERING
- Analog integrated system design
- Energy storage and vehicle electronics
- Films and Nano-structured alloys for health care
- Microelectromechanical systems design
- Microelectronics and optoelectronics
- Nanoelectronics
- Pulmonary systems and microchip IC design
- Maintenance, refurbishment and segmented reality
- Manufacturing planning, systems and organization
• Logistics and industrial plants
• Maintenance, virtual and augmented reality
• Manufacturing planning, systems and optimization

Mechanical and Nuclear Engineering
• Acoustics and Bioacoustics: noise analysis and modelling
• Computational and Experimental Biomechanics and Morphology
• Design and engineering of tools for nuclear and transportable diagnostic techniques
• Dynamics and design of vehicles, transmission, structural and rotor dynamics
• Dynamics and design quality to industrial objects
• Environmental and personal sources and pressure staticity
• Multiscale Environments
• Laser applications for Manufactured Goods
• Mechanics of Materials and composite moulding, testing and computational analysis (fracture, fracture, creep, wear, structural analysis)
• Bioelectronics and Biotechnology
• Surface mechanics and Tribology
• Nuclear Safety
• Qualification tests of nuclear reductive grades delay beds with activated carbon

Telecommunications Engineering
• Signal Processing Techniques
• Image and Signal Processing
• Radio Systems
• Internet of Things
• Modern Communications
• Telecommunications Control and Networking

Currently about 300 patents have been co-authored and 10 spin-offs have been set up by staff members.

INTERNATIONAL NETWORKS
• More than 40 international research projects, mostly supported by the European Commission (5M€ annually)
• 5 European networks of excellence including the European Nuclear Education Network (ENEN)
• 12 agreements for student exchange and research cooperation
• Erasmus+ Study and Traineeship Programme
DEGREE PROGRAMMES OFFERED

LONG SINGLE CYCLE DEGREE PROGRAMMES
• Veterinary Medicine (5 years, 300 ECTS credits)

FIRST CYCLE (BACHELOR’S) DEGREE PROGRAMMES (3 years, 180 ECTS credits)

AGRICULTURE:
• Agricultural Sciences
• Science of Herbal and Health Products (together with Pharmacy)
• Viticulture and Enology

VETERINARY MEDICINE:
• Animal Production Science and Technology
• Animal Breeding Techniques and Dog Training

SECOND CYCLE (MASTER’S) DEGREE PROGRAMMES (2 years, 120 ECTS credits)

AGRICULTURE:
• Agrofood Production and Agroecosystem Management
• Urban Green Areas and Landscape Planning and Management
• Plant and Microbiome Biotechnologies
• Food Biosafety and Quality (together with Veterinary Medicine)

VETERINARY MEDICINE:
• Animal Production Science and Technology

THIRD CYCLE (DOCTORAL) DEGREE PROGRAMMES (3 years)

• Veterinary Sciences
• Agriculture, Food and Environment

RESOURCES AND SERVICES FOR STUDENTS AND RESEARCHERS
• Agricultural Sciences library (41,456 books, 379 current journals and 1,255 e-journals)
• Veterinary Medicine library (10,627 books, 90 current journals and 804 e-journals)
• 2 Biology Labs (70 workstations)
• 1 Chemical Lab (30 workstations)
• 1 Molecular Lab (10 workstations)
• 22 Veterinary Labs

SPECIALISATION SCHOOLS AND ONE-YEAR SPECIALISATION PROGRAMMES
• 3 Veterinary Specialisation Schools
• 7 One-year Specialisation programmes (1 year, 60 ECTS credits)

WORKING WITH THE BUSINESS WORLD
The Areas of Agriculture and Veterinary Sciences/Medicine have a total of 770 and 450 internship agreements each. These internship agreements have been established with companies which aim to give graduate students the opportunity to gain authentic work experience, enhancing their professional opportunities. Most of the active networks in Veterinary Medicine consist of collaboration with public bodies at national, regional and local levels in the fields of animal pathology, food inspection, social farming, rural development, animal production and toxicology.

• 1 Agriculture Computer Lab (30 workstations)
• 1 Veterinary Computer Lab (20 workstations)
• Full Wi-fi coverage
• Veterinary Hospital (24 hour service, 34 boxes for horses, 40 boxes for small animals)
• University Farm (1,300 ha)
• 3 Specialised rooms: Anatomy, Microscopy, Necropsy
• 2 ECDL Test Centres

SPECIALISATION SCHOOLS AND ONE-YEAR SPECIALISATION PROGRAMMES
• 3 Veterinary Specialisation Schools
• 7 One-year Specialisation programmes (1 year, 60 ECTS credits)
Areas of Excellence in Research

Students interested in the Agricultural and Veterinary areas will find research activities focused in different fields like:

- Agronomy and organic production
- Agricultural chemistry
- Sustainable food production
- Biotecnology
- Food and soil microbiology
- Agricultural mechanization
- Irrigation
- Horticultural and fruit production
- Olive growing, viticulture and Mediterranean crops and products
- Multifunctional agriculture and rural development
- Animal housing
- Food planning and policy industries
- Bio-technologies applied to food inspection
- Animal pathology
- Veterinary and comparative oncology
- Wildlife diseases
- Animal public health
- Microbiology of typical products
- Hygiene rules and procedures
- Animal behaviour
- Food quality in animal production
- Equine nutrition
- Equine breeding and reproduction
- Equine sports medicine
- Nanotechnologies in food production
- Animal assisted therapy
- Parasitology
- Fisheries

International Networks

- 5 ongoing EU funded projects
- Erasmus Mundus International Master of Science in Rural Development (2 years, 120 ECTS credit)
- Joint Chinese and Italian Centre on Food Safety (CSISA)
- 19 international agreements with universities and research centres
- Erasmus+ Study and Traineeship Programme

Websites

- Agriculture: http://www.agr.unipi.it/
- Veterinary Medicine: http://www.vet.unipi.it/

Contact Info

- Agriculture: presidenza@agr.unipi.it
- Veterinary Medicine: erasmus@vet.unipi.it
These are intensive academic courses for international students and also for graduates. They mostly last from 3 to 6 weeks and take place in an international context, with students and lecturers coming from various parts of the world and all lectures delivered in English. They are characterized by nonconventional teaching formats (workshops, tutorials, excursions, cultural events, business testimonials, etc.) and a multidisciplinary approach. Our professors are experts in their areas and have a keen interest in what they do. Our Summer Schools meet strict academic regulations: each grant at least 6 ECTS credits and the participants who successfully pass the final exams will receive a transcript.

**ARIES**
- Agricultural and Veterinary Sciences
- Humanities
- Engineering
- Health Sciences
- Social, Economic and Legal Sciences
- Mathematical, Physical and Natural Sciences

The content of the courses takes into account the admission exam to Medicine and the evaluation tests students must take in order to access a degree programme.

**Foundation Course**

The Foundation Course is a study programme composed of two fields of study: Humanities (Foundation Course in Humanities-FCH) and Sciences (Foundation Course in Science-FCS), taught in English and primarily aimed at candidates who do not possess the minimum schooling requirements outlined in current legislation for enrolment at an Italian university.

The FC is also aimed at candidates in possession of the 12 years of schooling required for enrolment, in order to fill in any educational or linguistic gaps.

**STUDY OPTIONS**

**FC in Humanities (FCH)**
- Italian Literature: an introduction
- Modern European History
- Greek and Roman Archaeology
- History of Art: an introduction
- Introduction to Philosophical Thought
- Italian Language and Culture

**FC in Science (FCS)**
- Basic Mathematical Language, Modelling and Reasoning
- Physics
- Chemistry
- Biology
- Principles of Economics and Management
- Italian Language and Culture

The content of the courses takes into account the admission exam to Medicine and the evaluation tests students must take in order to access a degree programme.

**OTHER OPTIONS**
- For candidates with 10 years of schooling
- For “Native Italians” (i.e.: Italian citizens)
- For Italian native speakers or those who have an Italian language certificate at a C1 level
- For candidates with 12 years of schooling who are interested in taking ‘free-choice’ modules

**NECESSARY REQUIREMENTS IN ORDER TO APPLY TO THE PROGRAMME**

Candidates interested in pursuing the FC must meet the following requirements:
- Certified knowledge of the English Language at a B2 level
- High school diploma obtained overseas