







Second cycle and third cycle third cycle degree courses

University of Siena

This guide

This document illustrates the II and III cycle degree courses offered by the University of Siena for the Academic Year 2012/2013, some of whom are entirely held in English.

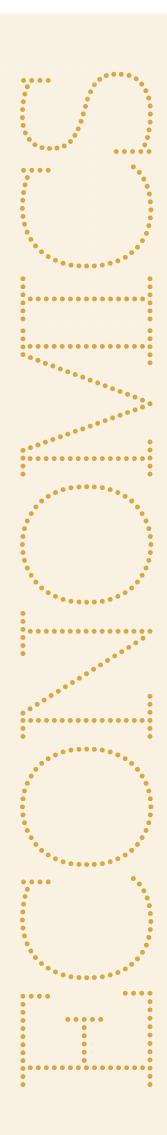
Courses Access

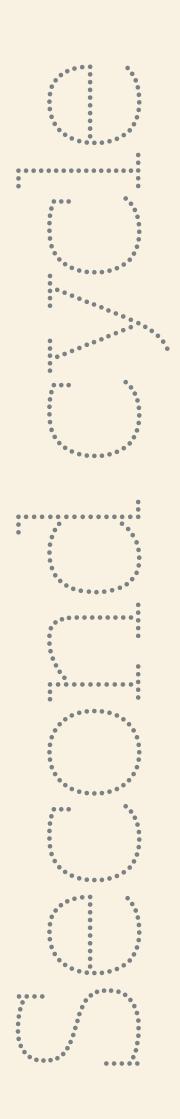
A Three-year I cycle degrees is required to access a II cycle degree courses; each course, though, has further access requirements, stated in the Course Regulations. Set-number Courses (as indicated in the text with Numerus Clausus) require an Admission Exam.

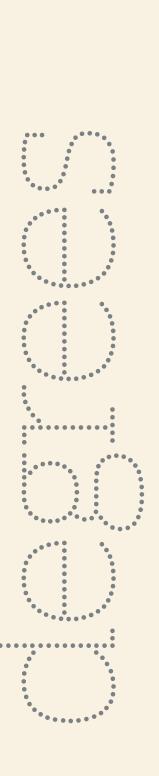
New Departmental organization

Instead of the current 9 Faculties, University of Siena will be constituted of 15 new organizational units: the Departments. Degree courses will only be marginally affected, in that they will administratively belong to one of the new Departments, as opposed to a Faculty: from the student's point of view, only the course administrative "container" will change.

The new Departments will be: Information
Engineering and Mathematical sciences;
Environment, Earth and Physical sciences;
Life sciences; Biotechnology, Chemistry and
Pharmaceutical sciences; Medical Biotechnologies;
Molecular & Developmental medicine; MedicalSurgical sciences & Neurosciences; Education,
Human sciences and Inter-cultural communication;
Philological, Classical and Modern literature
Critical studies; History and Cultural heritage;
Social, political and cognitive Sciences; Political
and international sciences; Economics and
Statistics, Business and Law studies; Law.







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Economics
Class LM-56

- Environment and Development Economics curriculum
- Economics curriculum held entirely in english

Career prospects

Economics students may aspire to all those position which require the knowledge of solid financial evaluation instruments, and, at the same, time, versatility, and analysis and decision abilities, often within a rapidly evolving context. Specifically, a student who chooses the Environment and Development Economics curriculum may be employed in the evaluation of sustainable development projects, with particular emphasis on accurate evaluation of available, resources, energy sources, and possible environmental impacts, and the expansion of environmental and cultural development projects.

Concerning career prospects, a student who is awarded the MSc in Economics should have the flexibility and skills that are necessary to begin a career in academic institutions, research centres, central banks, and national or international organizations, but also for more operative jobs in the public or private sector, where both a broad view and excellent problem solving skills are most required. The MSc in Economics replaces the pre-existing "laurea specialistica in Scienze economiche", which had a well established reputation among Italian courses in Economics. Many of our former students have continued their graduate studies in leading academic institutions abroad and gained positions at universities, in research departments, and in private companies.

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Economics and management of financial institutions (EGIF)
Class LM-77
120 credits

Career prospects

The MSc in EGIF prepares a student for qualified insertion in financial firms (specifically, banks and insurance companies), in auditing and financial advisory societies, in Ombudsman authorities and rating agencies. Prospective employment roles include financial management and investor relations, internal controls, assessment of credit and financial risks, as well as academic research and study activities.

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Management and governance (MaGo) Class LM-77

120 credits

- Enterprise Management and Control curriculum/Direzione e controllo delle aziende (DECA)
- Accounting and Management curriculum held entirely in english

Career prospects

The Enterprise Management and Control curriculum prepares students to be employed in high-level enterprise management roles, as well as staff and line management activities; self-employment management; accounting; public sector institutions management and control; as well as in utilities and non-profit organizations.

The curriculum in Accounting and Management is specifically designed to provide a deep understanding of the characteristics and trends of the international markets, which is the first step for an international career. Particular attention is devoted to develop a problem solving attitude and leadership skills, which are highly valued by recruiters around the world. Graduates will be able to operate in the private and public sector, working as general and operations managers, management analysts or management consultants in Italy and abroad. Also, they will be able to run or increase their own business, expand their business abroad or launch a start-up.

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Finance Class LM-16 120 credits

held entirely in english

Career prospects

The MSc in Finance will provide the knowledge in three main fields:

- quantitative area: the topics in these courses cover the basic principles of stochastic calculus, the no-arbitrage principle and risk neutral (martingale) pricing, basic option pricing (Cox-Ross-Rubinstein and Black-Scholes models), basic interest rate derivatives valuation: short rate models (Vasicek and Cox-Ingersoll-Ross), in order to supply the methods used in financial markets to price financial securities;
- economic area: courses cover microeconomic models for business and finance, and in particular models with asymmetric information and decision under uncertainty, together with central banking approaches;
- management area: our fundamental courses will provide the knowledge to find out the financial behaviour of firms and within financial markets. Moreover, regulation of financial markets will be analysed in order to learn constraints and legal rules which financial players are expected to comply with.

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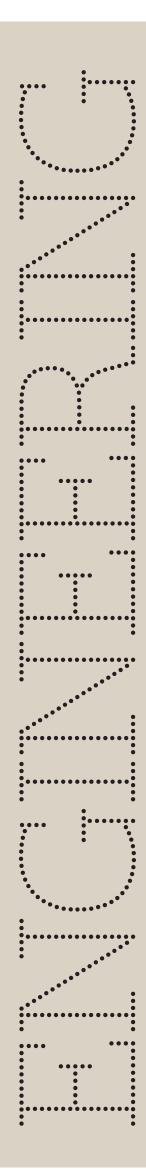
Statistics for sample surveys (SSIC) Class LM-82 120 credits

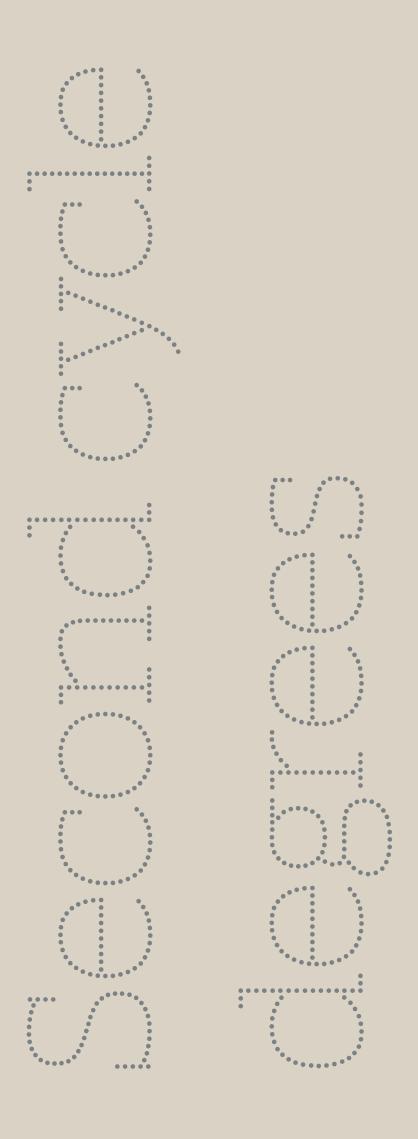
Career prospects

The skills acquired will allow the SSIC student to operate in high responsibility positions within national and international statistics institutes, as well as in private and public sector enterprises, in research institutes and professional consulting activities. The qualification the course offers not only offers easy employment opportunities, but also a fundamental step in the preparation for subsequent access to Master and Doctorate Studies.

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Electronics and communications engineering Class LM-27 120 credits

held entirely in english

Career prospects

The Master's graduate in Electronics and Communications Engineering can find jobs within industries, public companies, government agencies, financial institutions and research centres, whose R&D divisions carry out activities concerning design, production and management of systems for information processing and transmission, data networking, wired and wireless transmission, design, development and management of complex electronic systems and subsystems. In particular, main positions are in companies involved in design, production and management of telecommunication systems, as well as infrastructures for data acquisition and transportation and information technology applications for telecommunications, remote sensing and multimedia. In particular, the Master's graduate at the University of Siena will acquire knowledge in the vast and complex field of smart and wireless sensor systems. Typical job opportunities for the Master's graduates include companies producing or managing telecommunication and smart sensor systems, in the agro-food, tourism and medical areas, safety and care to elderly or disabled, preservation

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ry, energy, etc.

of cultural heritage, space and automotive indust-

Engineering management
Class LM-31
120 credits

Career prospects

An MSc Degree in Industrial Engineering is frequently required by National manufacturing and service enterprises, and increasingly in the public sector too. The ability to combine the financial, management and technological aspects of an industrial process allow the IE graduate to apply for positions involved in strategic decision making, both in manufacturing and public sector businesses, typically tasked with production innovation and development, and planning duties; process and complex systems management; project management; investment and financing decision making support; logistics management; industrial processes design/re-engineering; integrated information and communications system design and management; decision-support models, systems and applications development; planning of organizational processes and procedures for interaction between enterprises and suppliers; enterprise processes reengineering; strategic planning and management control; direct management of complex processes; industrial and services marketing; energetic and environmental management of industrial sites.

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Computer and automation engineering
Class LM-32
120 credits

held entirely in english

Career prospects

The Master's graduate in Computer and Automation Engineering can find jobs within industries, public companies, financial institutions and research centres, whose R&D divisions carry out activities in the fields of information systems, industrial automation and robotics. Furthermore, the MSc in Computer and Automation Engineering allows the students to access PhD programs in the areas of Information Engineering.

More specifically, the professions which are more suitable to the computer and automation engineer are those requiring advanced competences and skills on: industrial automation and process control; robotic systems; modelling and simulation of dynamical systems; data analysis; information systems; systems including artificial intelligence; design of hardware/software integrated systems; man-machine interfaces exploiting natural language; human-robot interfaces; design and management of biological databases.

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STENA

Anthropology and visual studies
Class LM-1
120 credits

Career prospects

The Msc Degree in Anthropology allows professional access to social, education, healthcare and schooling services, as well as town and country planning, International development cooperation, migrant people assistance and support, particularly regarding inter-cultural communication, while occupying high-level positions; tutoring activities in manufacturing firms, regarding foreign workforce integration; selection, drafting and production of local cultural work; heritage conservation and promotion services, etno-anthropological research activities, both empirical and speculative, and the National and International promotion of learning and knowledge.

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Archaeology Class LM-2 120 credits

Career prospects

The MSc in Archaeology allows work in all the institution devoted to the conservation and promotion of archaeological resources, like Governmental institutes and museums; organizations involved in research, conservation and study of archaeological, artistic and monumental heritage, belonging to the public and private sector; firms, co-ops and private groups who intervene in all activities, from the excavation to public display phases, in collaboration with public conservation institutions; traditional and new media conservation-related publishing.

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Classics
Class LM-15

Career prospects

The Msc in Classical Literature allows a Graduate to a work at a high level in appropriate institutions, like National and Archives, Libraries, Heritage Institutes and Foundation, as well as in the publishing industry, both in the public or private sector. Graduates will be employed in high value roles in the cultural services sector, in culture institutes and research centres, both public and private, in local- and government-level organizations devoted to cultural services and local traditions and heritage promotion; historic and literary culture publishing.

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Modern Literatures

Class LM-14

120 credits

- Philology, Linguistics and Literature curriculum
- Foreign Literature curriculum

Career prospects

The Modern Literature MSc gives access to highlyqualified consulting and reference activities in the cultural and publishing industry; in specific institutes, like National Archives, Libraries, Culture Centres and Foundations; in research organizations and units among national and international public and private sector authorities.

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History of Art Class LM-89 120 credits

Career prospects

The Master of Science in History of Art allows you to perform functions of high responsibility in specific institutions such as museums and Heritage Institutes, and professional specialized consulting for the culture and the heritage and artistic education industries.

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History and Philosophy Class LM-78 e LM-84

- Philosophy curriculum
- History curriculum

Career prospects

Knowledge obtained during the MSc course in History and Philosophy enables a Graduated student to do consultancy work in the cultural industry and institutions, as well as all those environments where specific subjects, together with strong analytical skills and knowledge transmission abilities are required, specifically in the following sectors: promotion and development of international cultural relations, civil rights promotion; human resources management and development in public or private sector enterprises; public libraries, publishing; cultural activities management in national government institutions.

Contact:

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Linguistics, persuavise communication technologies and cognitive studies Class LM-39 120 credits

Career prospects

Abilities learned during the course in Linguistics, cogent communication technologies and cognitive studies allow graduates to perform specialized consulting activities in the printed and multimedia publishing sector; high-ranking positions in intercultural communications services in the public sector; consultancy and specialist collaboration activities in medical research fields (speech therapy, audiology, language rehabilitation, neurolinguistics); positions of high responsibility within international cooperation institutions.

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AREZZO

Education sciences and educational consulting for organizations
Class LM-85

Career prospects

The MSc in Education and pedagogical consulting Sciences defines an articulated professional cultural-educational character, whose knowledge can be spent in a plurality of working areas. This profession is every day more and more required in socio-economic and cultural scenarios in which willingness to adapt is a strong requirement, as well as the continuous-learning approach. The graduate student will be able to work in research, consultancy, management and design activities in private and public sector institutions.

Contact:

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Philosophy and history: sources, texts and theories Class LM-78 e LM-84 120 credits

Career prospects

The MSc enables the achievement of positions of high responsibility in activities related to the services and cultural industries sector, and to research institutes, private and public research centres, culture governmental and local institutions, and promotion of local traditions and identities; in the publishing sector, in culture and historical and philosophical publications; in public administration, where the possession of a humanities degree is a requirement for access to management roles; in journalism and the world of culturally qualified communication.

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Literature, visual and performing arts
Class LM-14 e LM-65
120 credits

Career prospects

Graduates in this MSc will obtain a solid foundation enabling them to access high-ranking scientific and education roles in selected institutions, such as Government Ministries, Heritage Centres, museums, schools, book and film libraries, archives, cultural foundations and private enterprises, specialist publishing houses (including new media), exhibitions management services, cinema, theatre and music institutes, performing arts events organization and management, scientific and education manager in museum, film libraries and archives research programmes; there also may be opportunities in the literary and arts sectors of new and traditional media publishing sector.

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Medical biotechnologies Class LM-9 120 credits

held entirely in english

Career prospects

Our graduates may have careers within the following fields: National Healthcare System; public or private laboratories; Universities or other research institutes, both private and public; biotechnological, diagnostic and pharmaceutic industry; institutions dealing with law issues related to biotechnology (bioethics, healthcare rules, patent law).

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Nursing and midwifery sciences
Class LM/SNT1
120 credits

Career prospects

Graduates in Nursing and Midwifery find employment in healthcare institutions, public and private, as freelance or employed professionals, and in other organizations, where they are able to contribute to the scientific progress and development of nursing/midwifery sciences in healthcare; they may have education and teaching roles in academia, and as consultants in professional refresher courses. MSc Graduates are typically employed in the National Healthcare System (SSN), and in private equivalent organizations.

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Helt professions of rehabilitation sciences Class LM/SNT2 120 credits

Career prospects

Graduates in Rehabilitation Sciences possess advanced skills in education, prevention and rehabilitation disciplines, in response to general healthcare scenarios, and are usually employed in public or private healthcare organizations, either as employed or independent professionals. The ability to correctly evaluate and determine organizational/management scenarios in public or private concerns allows them also to manage homogeneous professional workgroups within hospital structures or private and public co-operatives and practices.

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Healthcare biology Class LM-6 120 credits

Career prospects

A Healthcare biology Graduate, after successfully passing the Biology Professional Qualification exam, can operate in the public and private sector, and in all the areas defined by Section A of the Biologist's National Register, and also conduct biomedical research activities. The Degree grants a student solid theoretical and practical foundations, allowing employment in public or private sector organizations, also as and independent professional.

Contact: prof. Giuseppe Lungarella, giuseppe.lungarella@unisi.it e prof. Eleonora Cavarra, eleonora.cavarra@unisi.it Molecular and cellular biology Class LM-6 120 credits

Career prospects

A degree in Cellular and Molecular Biology allows a graduate student to undertake research activities in private and public sector institutions, comprising academia and other research agencies. Applying for senior roles, areas of possible interest include biotechnology and pharmaceutical companies, as well as analysis laboratories (biological and micro-biological analysis, molecular diagnostics, biological origin and quality control of organic products). Other employment areas include public administration bodies, (higher education, heal-thcare sector), or independent consultancy work.

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Chemistry
Class LM-54
120 credits

Career prospects

According to the National Statistics Office, 72,8 % of MSc Chemistry Graduates, 3 years after completion of their studies, are employed. 38,2% of them have a full-time employment. The main areas of employment include independent profession, subject to the National professional Qualification Exam, as well as work in Research Centres or Institutes, public or privately-owned, chemical, pharmaceutical and cosmetic, and also pigment, new materials and food products industries, involved in scientific research, production and quality control processes.

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Ecotoxicology and environmental sustainability

Class LM-75

Career prospects

The Ecotoxicology and Environmental Sustainability MSc Degree grants students with practical and theoretical skills which allow them to be successfully employed in a number of areas, including: public and private research institutes, Environmental Protection, environmental quality protection and conservation Agencies (eg. Ministry of Environment, regional and provincial agencies); specific agencies (e.g. APAT, ISPRA, CPS&Q, ECHA); private sector industrial emissions control enterprises; independent professional environmental impact evaluation studies and environmental planning; chemical, pharmaceutical, extraction and metalworking industries, as emissions control manager.

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Mathematics
Class LM-40
120 credits

Career prospects

After obtaining a degree in Mathematics, work opportunities will include sciences and maths education and scientific research activities. Further areas include the modelling of natural, biological, healthcare, engineering and social sciences phenomena, often based on a numerical computation approach. Other fields of work include: data mining, data management, life, engineering and social sciences research and development.

Contact:

prof. Fabio Bellissima, fabio.bellissima@unisi.it

Geological sciences and technologies Class LM-74

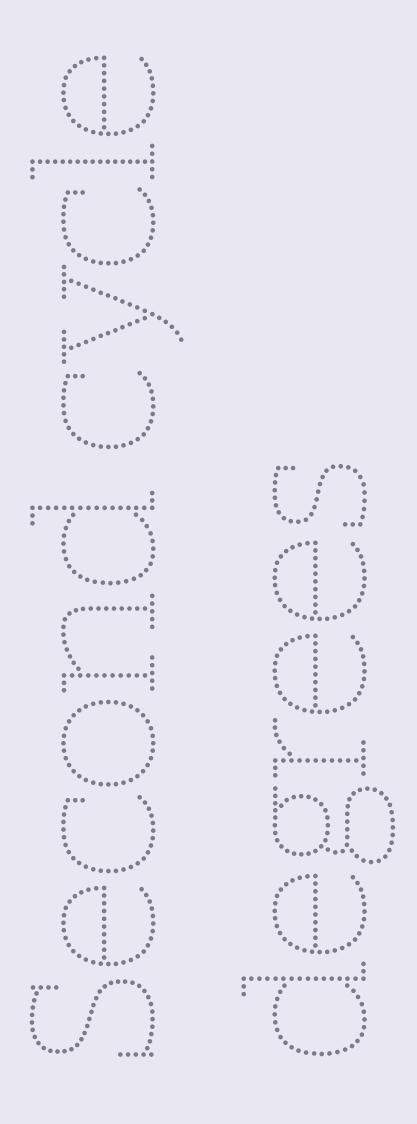
- Geological sciences and applications curriculum
- Geotechnologies and applied geology curriculum

Career prospects

According to current workforce trends and environmental and economic development policies, both on a regional/national and global level, it is foreseeable that an MSc graduate student in Geological Sciences and Technologies, building on his comprehensive multi-subject knowledge and methodological approach, may easily apply for a number of professional areas regarding the use and management of geological resources, including environmental planning and management, scientific research and publishing

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International studies
Class LM-52

- International and Diplomacy Studies curriculum
- International Cooperation and Development curriculum
- European Studies curriculum

Career prospects

Graduates in International Sciences can aspire to a profession in the public Italian administration, in major European Community institutions, or within larger International organizations. There are various relevant employment sectors: the typical figure of the diplomatic official, or as an expert in human resources, National Archive official, or analyst of international economic systems. The preparation provided by this program also creates the conditions for a broader inclusion in the private labour market, looking especially in the national and international corporate world. It is the course of studies which most typically leads to a career in diplomacy, or as an international public official, but more and more frequently corporate executives are required to have a pronounced background in political and social sciences. The course also develops skills for the growing sector of national and international non-profit organizations, governmental and privately funded, involved in cooperation activities for development and aid in humanitarian crisis areas

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Public administration and complex organizations

Class LM-63

120 credits

- Administration, finance and enterprise curriculum
- Social and institutional communication curriculum.

Career prospects

Graduates in the MSc in public administrations usually find employment in the public sector and civil services area, on a national and local scale, as well as other institutes, associations and privately financed foundations which may be involved in the public sector, and also in private enterprises. The skills they acquire are deep and cover many subjects, allowing them to be employed in a variety of environments: organization and management control, public services quality enhancement policies design and implementation. Human and technological resources management, public communications design and management. They also are able do manage data and design social services policies on a national, European and international level. Other sectors of interest include institutional communications and media, and information society policies.

Contact:

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Doctoral Research XXVII Cycle

- Medical Biotechnology held in english and in italian prof. Lorenzo Leoncini, lorenzo.leoncini@unisi.it
- Molecular Biotechnology held in english prof. Salvatore Oliviero, salvatore.oliviero@unisi.it
- Cognitive and Neurological Sciences held in english prof. Antonio Federico, antonio.federico@unisi.it
- Economics held in english prof. Ugo Pagano, ugo.pagano@unisi.it
- Physics
 held in english and in italian
 prof. Piersimone Marrocchesi, piersimone.
 marrocchesi@unisi.it
- Genetics, Oncology and Clinical Medicine held in english and in italian prof.ssa Alessandra Renieri, alessandra.renieri@unisi.it
- Information Engineering held in english prof. Stefano Maci, stefano.maci@unisi.it
- Molecular Medicine
 held in english and in italian
 prof. Felice Petraglia, felice.petraglia@unisi.it
- Political Sciences: Comparative and European Politics held in english prof. Maurizio Cotta, maurizio.cotta@unisi.it
- Chemical and Pharmaceutical Sciences held in english and in italian prof. Riccardo Basosi, riccardo.basosi@unisi.it

- Earth Sciences, Environmental and Polar held in english and in italian prof. Roberto Bargagli, roberto.bargagli@unisi.it
- Life Sciences held in english and in italian prof. Pietro Lupetti, pietro.lupetti@unisi.it

Postgraduate Schools

The Postgraduate Schools aim to provide graduates with the knowledge and experience required to carry out specific professional activities. Postgraduate schools train graduates for professions involving particularly complex knowledge and technologies, which require a division of skills into distinct areas.

http://en.unisi.it/teaching/postgraduate-andother-programmes/postgraduate-schools

University Master's degree programmes

The University's master's degree programmes are lifelong and continuing education courses that last 10-16 months and are accessible to graduates with a first cycle (for the first level master's) or second cycle (for the second level master's) degree. A minimum of 60 credits must be obtained to achieve the qualification of "master". Master's programmes may also be run in collaboration or under agreements with public or private external bodies.

http://en.unisi.it/teaching/postgraduate-andother-programmes/university-masters-degreeprogrammes

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Thanks to Kiné soc. coop for the cover shots