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School of Advanced Studies

Phd Courses

| Areas | PhD Curricula in | Key-words describing training and research activities for each area: | Coordinator: |
|--------------------------------------|--|--|--|
| Architecture, Environment and Design | <p><u>Knowledge and Design of Urban Landscape</u></p> <p><u>Research topics</u></p> | <p>- Urban design- Contemporary City - Housing - Landscape - Tourism - Town Planning - Regional Planning - Environmental- Assessment</p> | <p>L. Coccia luigi.coccia@unicam.it</p> |
| | <p><u>Industrial Design and Experimental Architecture</u></p> <p><u>Research topics</u></p> | <p>Product Design - Eco-Design - Innovative design methods and process - Innovative Materials for Design - Enviromental design - Strategies for habitat</p> | <p>M. Perriccioli massimo.perriccioli@unicam.it</p> |
| | <p><u>Civil law and constitutional legality</u></p> <p><u>Research topics</u> [english]</p> <p><u>Research topics</u> [italiano]</p> | <p>· Civil law · Constitutional Principles · Person and Market · Law and family · The Weak Contractor · Drug patent · Responsibility</p> | <p>A.Flamini antonio.flamini@unicam.it</p> |
| Law, political and social sciences | <p><u>Fundamental Rights in the Global Society</u></p> <p><u>Research topics</u></p> | <p>Historical roots - Theoretical statute - Constitutional rank - Evolution and risks in relationship with economic and social transformation - Internal, transnational and international dimension of their safeguard</p> | <p>P. Bianchi paolo.bianchi@unicam.it</p> <p>L. Baccelli luca.baccelli@unicam.it</p> |

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|--|---|---|---|
| | Public Services | Health services and hospital management - | |
| | <u>Research topics</u> | City and county agencies - Legal structure for private sector business organization | F. Lorenzotti fabrizio.lorenzotti@unicam.it |
| | | · Legality -illegality | |
| | <u>Social Sciences on work and legality</u> | · Organised criminality | |
| | <u>Research topics</u> | · Grassroots movements/civil society | M. Giovagnoli marco.giovagnoli@unicam.it |
| | | · International criminality | |
| | <u>Chemical Sciences</u> | · Safety | |
| | <u>Research topics</u> | · Socially responsible | |
| | | · Entrepreneurship | |
| | | · Law and work | |
| | | · Analytical Chemistry | |
| | <u>Pharmaceutical Sciences</u> | · Synthesis | C. Santini carlo.santini@unicam.it |
| | <u>Research topics</u> | · Natural Substances | |
| | | · Organometallic Chemistry | |
| | | · Environmental Chemistry | |
| | | · New Materials | |
| | | · Target Discovery and Drug Design | |
| | | · Medicinal Chemistry | |
| | <u>Pharmaceutical Sciences</u> | · Receptor Chemistry | P. Angeli piero.angeli@unicam.it |
| | <u>Research topics</u> | · Molecular Pharmacology | |
| | | · Pharmacology and Toxicology | |
| | | · Pharmacogenomics and Pharmacogenetics | |
| | | · Pharmaceutical Technology | |
| | | · Pharmaceutical Biotechnology | |
| | | · Food Quality and Safety and Food Biotechnology | |
| | | · Enzyme Inhibitors | |
| | | · Natural Drugs | |
| | | · Drug Development | |
| | | · Feeding and Ageing | G. Falcioni giancarlo.falcioni@unicam.it |
| | <u>Ageing and Nutrition</u> | · Nutrition and Disease | |
| | | · Epidemiology and Feeding | |
| | <u>Research topics</u> | · Food biochemistry and biotechnology | |
| | | · Gene Expression and Ageing | |
| | | · Obesity and Diabetes | |
| | | · Neurodegenerative Disease and Ageing | |

Molecular Biology, Biochemistry, and BiotechnologyResearch topics

- Nutrition and Physical Activity

- Molecular Microbiology
- Microbial Biotechnology
- Genetic Engineering
- Antibiotics
- Biofilms
- DNA Vaccination
- Xeno- Pre- and Pro-biotics
- RNA World
- Nucleotide Metabolism

C. O. Gualerzi

claudio.gualerzi@unicam.itEnvironmental Sciences and Public HealthResearch topics

- Ancient DNA Technology
- Biodiversity
- Cellular Immunology
- Ecology and molecular ecology
- Entomology
- Environmental Biomonitoring
- Environmental Biotechnology
- Eukaryotic microbiology
- Molecular Evolution
- Parasitology and molecular parasitology
- Genetic and metabolic diseases
- Molecular diagnostic procedures

C.Miceli

crisrina.miceli@unicam.itPhd programme in e-Health and TelemedicineMalaria and Human Development (WHO- Unicam collaboration)Research topics

A. Habluetzel

annette.habluetzel@unicam.itVeterinary SciencesResearch topics

- Animal Biochemistry
- Animal Physiology
- Agricultural Economics
- Infectious Diseases
- Reproduction Pathology
- Pathology and histopathology
- Clinical Sciences
- Food Hygiene and Technology
- Animal Biotechnology

A. Loschi

annarita.loschi@unicam.it

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| | <u>Information Science and complex systems</u> | <ul style="list-style-type: none"> · Control Systems and Robotics · Bio-informatics · Computer Graphics and Computational Geometry · Theoretical Computer Science · Networks and distributed systems · Formal Methods | E. Merelli emauela.merelli@unicam.it |
| | <u>Research topics</u> | | |
| <u>Sciences and Technology</u> | <u>Physics</u> | <ul style="list-style-type: none"> · Disordered Systems · Many-Body Theory · Nuclear Physics · Quantum Optics · Quantum Information · Statistical Physics · Surface Physics · Superconductivity and Superfluidity | F. Marchesoni fabio.marchesoni@unicam.it |
| | <u>Research topics</u> | | |
| | <u>Earth Sciences</u> | <ul style="list-style-type: none"> · Structural Geology · Geomorphology · Geochemistry · Mineralogy · Tectonics · Palaeontology · Stratigraphy · Hydrogeology | M. Carroll michael.carroll@unicam.it |
| | <u>Research topics</u> | | |

The PhD courses involve 3 years of study and research , with a final thesis that can be written in either English or Italian. Teaching activities mainly involve seminars and topical Short Courses; research experience in laboratories outside of Camerino is possible and actively encouraged. Approximately half of the students admitted to the PhD programs will be awarded fully paid fellowships; the other students will need to find external financial support (however, research costs will be met with internal funds).