

higher technical school of architecture
university of seville, spain
60 credits. 1 year

mcas

Master degree in
sustainable
architecture
and cities
since 2006



<http://mastercas.net>

Why to apply?

MCAS has been conceived to allow you to continue, improve and expand your studies to successfully access into the labor market with an innovative and specific training, sharing weekly time with a part-time job, scholarships or family responsibilities.



You are expected to dedicate 30 hours per week working at MCAS.

The master is concentrated in two days, Thursday afternoon and Friday mornings (with some Friday afternoon added).

Get a properly training also as a researcher and compete with advantage to gain access to a position in doctoral schools.



MBA USe: #166
mcas@us.es

The MArch mcas challenges the traditional role of the architect from the cultural aspect that gives significance to the ecological, and develops new ways of working with the strong and long-term sustainability.

Learn to establish transdisciplinary frameworks, and understand complex, natural and cultural realities for sustainable action. Collaborate with other professions - the architectural practice constantly requires that you be able to communicate and collaborate with other professionals.

Our faculty belongs to 17 different departments of the University of Seville, from architecture, law, biology, engineering, etc. And it holds annually a dozen foreign universities (University of Columbia, NY, Politecnico di Milano, etc.) and a dozen different university and research areas of Spanish territory. Work closely with communities, and real territorial issues. The projects and opportunities of the MBA will put you in contact with communities, clients and social actors that seek to open new approaches to your role as an expert in sustainability.



OBJECTIVE general

MCAS provides as a basic objective, for professionals, administration technicians and future researchers, an advanced and transdisciplinary training in Sustainability, aimed at the regeneration of the City and Architecture. Its studies are distinguished by its cultural and reflective framework, and by a pioneering technical offer, which decisively anticipates the pressures enduring sustainability as a discipline.

OBJECTIVES specific

To instruct in environmental work with updated criteria and techniques, and reflective tuning with the guidelines of the government agencies in charge of their management and transformation, in particular with those of the territorial, urban and environmental framework of Andalusia.

Openness to new lines of research on sustainability, ecology and energy efficiency of our cities and buildings facing Global Change.

SKILLS basic

To acquire avant-garde knowledge in ecology.

To apply knowledge to professional work and problem solving within the study area.

Ability to interpret relevant data, to regenerate city and architecture.

Ability to transmit information and ideas.

Autonomous learning skills.

COMPETENCES

general

To acquire criteria and judgments of their own, interpretative, historical, complex, social, environmental, economic and ethical, for a congruent and anticipatory praxis, whether professional or research focus, mainly in urban and / or architectural areas.

To innovate for developing new lines, projects and products, such as systems design, processes or components, demanded by society.

To generate indicators' systems, audits, and accreditation of quality and sustainability in the urban environment.

To know-how to write and disseminate scientific articles, using adequate and ethically information resources with rigorous methodologies.

To understand the global energy crisis in the construction and planning of cities, and their impact on global warming and polluting emissions.

To generate efficient projects for the quality of civic life, decoupling the socio-economic development of the use and degradation of resources, improving environmental quality.



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Contents

Module 1. City and architecture in the ecological era.

- S1. Transdisciplinary Fundamentals in sustainability.
- S2. Territorial, urban and infrastructural basis for social and material regeneration of the habitat.
- S3. Landscape as a social interpretation of reality.
- S4. Policies and strategies for integrated urban regeneration.
- S5. New architectural scenarios.

Module 2. Technology and sustainability in architecture.

- S6. Architecture through the relation between the living with the non-living.
- S7. Energy in building and urban processes.
- S8. Environmental criteria and soft technologies for eco-friendly architectural design.
- S9. Habitat health and comfort.
- S10. Flows and links: materials and products for the 21st century.

Module 3. Workshop.

- S11. Regeneration projects: action and materiality.
- S12. Regeneration projects: research, advanced design, creativity and ethics.

Module 4. Master thesis.

- S13. Methods of innovation for thought and action.
- S14. Final Master Thesis.

EMPLOYMENT & research



Our alumni are prepared to face projects in landscape, social participation, advanced techniques in construction and new materials and, above all, will be professionals with high reflective qualification, answering by means of the acquired skills to unpublished approaches, due to the high cultural basis and understanding of their time.

Likewise, the MCAS has maintained a very elaborate and demanding line in research training. A high percentage decides to continue their studies to the maximum degree offered by the universities: the doctorate.

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Academic Coordinator: Prof. Ph.D. Domingo Sánchez Fuentes
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Academic Comission: (Professors) Ph.D. Carlos Tapia Martín, Ph.D. José E. López- Canti, Ph.D. Carmen Galán Marín, Ph.D. Francisco Ortega Riejos. **Administrative staff:** Carmen Fernández. A **student** in every edition.

Technical Secretary: Ph.D. Emilio Mascort Albea

Schedule

Lectures from October to June every year, approximately.

Final Work submitting until December in three calls:

June, September-December. Dissertation: no more than 15 days after submission

Spanish Language

Prices

ATTENDANCE: SECRETARÍA DE LA ESCUELA TÉCNICA SUPERIOR DE ARQUITECTURA

Avenida Reina Mercedes, 2, planta baja. 41012 Sevilla.

schedule (except holiday periods):

10.30 to 13.30, from Mondays to Fridays

15.30 to 17.30, on Mondays, 17.00 to 19.00, on Wednesdays

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→ **Apply now**