

1. BASIC INFORMATION

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|-------------------------------|---|
| Course | Urban Areas and Sustainable Design |
| Degree program | Bachelor's in the Fundamentals of Architecture |
| School | Architecture, Engineering and Design |
| Year | 2nd |
| ECTS | 6 ECTS basics (150 hours) |
| Credit type | Compulsory |
| Language(s) | 80% English 20% Spanish |
| Delivery mode | Classroom |
| Semester | 1st |
| Academic year | 2025/2026 |
| Coordinating professor | Francisco Javier González González |
| Professor | Mateus Porto Schettino, Francisco Javier González González, Silvia Herrero Alonso , Lourdes Jiménez Garcinuño |

2. PRESENTATION

The major focus of this course is the study of THE CITY AND ITS NEIGHBOURHOODS AS HABITABLE SPACES. The program devoted to the knowledge of and intervention in residential areas where the conditions of HABITABILITY are explicit. We will study these conditions by concentrating on two fundamental aspects: the sustainability of both urban metabolism in general and the quality of the urban environment in particular, and the ability of the residential space to become a space of coexistence, where the integration and articulation of social diversity is possible.

To objectify as much as possible these conditions of habitability of residential space, a series of key issues are proposed throughout the course, to be applied in a diverse way in the development of instruments for the urban integrated regeneration either on the renovation of spaces with proposals for new ground plans or in consolidated spaces to be rehabilitated.

3. COMPETENCIES AND LEARNING OUTCOMES

Core competencies:

- CB1 That students have demonstrated knowledge and understanding in a field of study that is based on general secondary education, at a level which, although supported by advanced textbooks, imply some knowledge of the latest advances in their field of study.
- CB2 That students know how to apply their knowledge to their work or vocation in a professional manner and possess the skills that are usually demonstrated through the elaboration and defence of arguments and the resolution of problems within their field of study.
- CB3 That students have the ability to gather and interpret relevant data (usually within their field of study) to make judgements that include reflection on relevant social, scientific or ethical issues.

Cross-curricular competencies:

- CT01 Responsibility: aptitude or capacity to face responsibility that the profession of architect has in society, particularly when elaborating projects that take into consideration social and environmental factors.
- CT02 Self-confidence.
- CT03 Awareness of ethical values: ethical commitment, which includes the understanding and knowledge of the rights and duties of individuals and professional people, fostering respect for human rights, the protection of the most vulnerable members of society and respect for the environment.
- CT04 Communication skills in the native language (both oral and written) and in the English language, in accordance with the principles of the Universidad Europea de Madrid, any concept or specification for the development of the regulated profession of architect. This includes learning the specific vocabulary of the degree as well as the ability to manage information.
- CT05 Interpersonal skills.
- CT06 Flexibility
- CT07 Teamwork: ability to work in teams of architects, or in interdisciplinary teams (with shared responsibility in many cases), managing and planning work groups that are necessary in the scheme of competencies and tasks that are defined for projects of a certain scale, in which several disciplines come together. This ability includes skills for interpersonal relations and team leadership.
- CT08 Initiative and the spirit of an entrepreneur, both in the area of architecture as well as in business.
- CT09 Planning and time management: ability to plan work in order to comply with delivery times and to respect the limits imposed by budgets and building codes.
- CT10 Innovation and creativity: creativity, imagination and aesthetic sensitivity applied to the design in order to satisfy both the aesthetic and technical demands. This competence includes critical reasoning and historical culture.

Specific competencies:

- CE35 Ability to solve passive environmental conditioning, including thermal and acoustic insulation, climate control, energy efficiency and natural lighting.
- CE38 Ability to design, put into practice and develop urban projects.
- CE40 Ability to develop functional programs for buildings and urban spaces
- CE42 Ability to exercise architectural criticism.
- CE46 Ability to apply urban planning regulations and ordinances.
- CE47 Ability to carry out environmental, landscaping and environmental impact correction studies.

Learning outcomes:

- LO1 Has developed the skills to design and plan city areas for residential use.
- LO2 Understands in detail the structure and morphology of the different types of urban fabric.
- LO3 Understands the current social dynamic in these matters and its influence on the urban landscape.
- LO4 Understands the ecological cycles in urbanised areas within the city limits.
- LO5 Includes the environmental sustainability of city areas in the project.
- LO6 Defines planning instruments for urban areas, with a broad understanding of their meaning and possibilities.
- LO7 Creates and projects public spaces emphasising a focus that integrates a system of open spaces into the city as a whole.
- LO8 Design housing complexes from the different degrees of defined privacy.

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- LO8 Design housing complexes from the different degrees of defined privacy.

The following table shows the relationship between the competencies developed during the course and the learning outcomes pursued:

| Competencies | Learning outcomes |
|---|-------------------|
| CB1, CB2, CB, CB4, CG3, CG7, CT3, CT4, CT7, CT10, CE38, CE40, CE46, CE47 | LO1 |
| CB3, CB4, CG3, CT9, CE42 | LO2 |
| CB3, CB4, CG3, CG7, CT1, CT3, CT9, CE42 | LO3 |
| CB3, CB4, CG3, CG7, CT1, CT3, CT9, CE47 | LO4 |
| CB1, CB2, CB3, CB4, CG3, CG7, CT3, CT4, CT7, CT10, CE38, CE40, CE42, CE46, CE47 | LO5 |
| | |

4. CONTENT

Activity 1. Street design for a livable public space at neighborhood scale.

- 1. Local Urban Structure and sustainable mobility

Activity 2. Cities, districts and neighbourhoods.

- 2.1. Blocks and superblocks
- 2.2. Design of a neighborhood. Structural components. Block grouping. Sustainability criteria with indicators.
- 2.3. Design of a district. Structural components

5. TEACHING-LEARNING METHODOLOGIES

The types of teaching-learning methodologies used are indicated below:

- Lectures
- Guided studies, practical exercises, problem-solving
- Independent study/work
- Tutorials, academic monitoring and assessment

6. LEARNING ACTIVITIES

Listed below are the types of learning activities and the number of hours the student will spend on each one:

Campus-based mode:

| Learning activity | Number of hours | |
|--|-----------------|-------------|
| Lectures | 25 h | Allowed |
| Guided studies, practical exercises, problem-solving | 50 h | Allowed |
| Team work | 25 h | Allowed |
| Independent study/work | 25 h | Promoted |
| Tutorials, academic monitoring and assessment | 25 h | Not Allowed |
| TOTAL | 150 h | |

More details about the AI use policy will be published on the virtual campus once the course has begun.

7. ASSESSMENT

Listed below are the assessment systems used and the weight each one carries towards the final course grade:

Campus-based mode:

| Assessment system | Weight |
|---------------------------------------|--------|
| Activities | 70% |
| Exams | 25% |
| Performance, participation, portfolio | 5% |

When you access the course on the *Campus Virtual*, you'll find a description of the assessment activities you have to complete, as well as the delivery deadline and assessment procedure for each one.

7.1. First exam period

To pass the course in the regular session, you must obtain a grade greater than or equal to 5.0 out of 10.0 in the final grade (weighted average) for the course.

In all cases, you must obtain a grade greater than or equal to 4.0 in the exams, both oral and written, so that it can be averaged with the rest of the activities. If you do not pass this grade, the final grade for the session will be a maximum of 4, or the average grade of all the exercises and exams, if this is less than 4.

Additionally, an oral exam will be given if the professor has doubts about the authorship of the work.

To be eligible for the regular session, attendance is mandatory until 70% of the in-person class hours have been completed. Late arrivals of more than 10 minutes will be considered absences. If the required minimum attendance is not met, the final grade for the exam will be a maximum of 4, or the average grade of all the exercises and exams, if this is less than 4.

7.2. Second exam period

To pass the course in the regular exam, you must obtain a grade greater than or equal to 5.0 out of 10.0 in the final grade (weighted average) for the course.

In any case, you must obtain a grade greater than or equal to 4.0 in the exam papers, both oral and written, so that the grade can be averaged with the rest of the activities. If this grade is not met, the final grade for the exam will be a maximum of 4, or the average grade of all the exercises and exams, if this is less than 4.

All failed assignments and exams from the regular exam must be submitted. The practical activities may be located differently from those used during the regular session, and new instructions may be provided for each activity if necessary. The activities to be submitted for this session are individual.

An oral exam will also be given if the instructor has doubts about the authorship of the work.

To be eligible for this session, students must attend at least two monitoring sessions.

8. SCHEDULE

This table shows the delivery deadline for each assessable activity in the course:

| Assessable activities | Deadline |
|-----------------------|------------|
| Activity 1 | Week-1-13 |
| Activity 2 | Week 14-17 |

This schedule may be subject to changes for logistical reasons relating to the activities. The student will be notified of any change as and when appropriate.

9. BIBLIOGRAFÍA

The main reference work for this subject is:

- ÁLVAREZ, A., ROCH, F., et al. (2010). *Regeneración Urbana Integrada en Europa. Documento de Síntesis*. Valladolid, Castilla-León: Instituto Universitario de Urbanística de la Universidad de Valladolid
- ÁLVAREZ MORCILLO, D. (2014). *La rehabilitación de Ciudad de los Ángeles en Madrid. Mejorar la habitabilidad de un barrio de 1950 con criterios de eficiencia energética*. En: *12 Congreso Nacional del Medio Ambiente*, 24 al 27 de noviembre 2014, Madrid. ISBN 978-84-697-2060-8.
- ANDERSEN, H. T. (2001). The new urban politics of Europe: The area-based approach to regeneration policy. In Andersen H. T.; van Kempen R. (Eds.), *Governing European cities; social fragmentation, social exclusion and urban governance*. Aldershot. London
- ARTHURSON, K. (2002). Creating inclusive communities through balancing social mix: A critical relationship or tenures link? *Urban Policy and Research*, 20(3), 1–29.
- BENTLEY, I.; ALCOCK, A.; MURRAIN, P. MCGLYNN, S.; SMITH, G. (2004), *Entornos vitales* Barcelona: Gustavo Gili. ISBN 88425217318 (ed orig 1985)
- BOOTH, N.K. (1983), *Basic Elements of Landscape Architectural Design*. Oxford: Elsevier.
- BORJA, J.; CASTELLS, M. (2000). *Local y global. La gestión de las ciudades en la era de la información*. Madrid: Taurus.
- BOSSELMANN, P. et al (1984) *Sun, Wind and Comfort: A Study Of Open Spaces and Sidewalks in Four Downtown Areas*. Berkley: University of California Press.
- CANTER, D. (1977) *The Psychology of Place*, London: Architectural Press,
- CAPEL, H. (2006) *La morfología de las ciudades (vol 1): Sociedad, Cultura y Paisaje Urbano* . Barcelona: El Serbal. ISBN 9788476283912 (ed orig 2002)
- CARMONA, M. (2010a) Contemporary Public Space: Critique and Classification, Part One: Critique; *Journal of Urban Design*, Vol. 15. No. 1, 123–148, February 2010
- --- (2010b) Contemporary Public Space, Part Two: Classification *Journal of Urban Design*, Vol. 15. No. 2, 157–173, May 2010
- CARMONA, M.; TIESDELL, S.; HEATH, T.; TANNER, O. (2010) *Public Places, Urban Spaces. The Dimensions of Urban Design*. London: Routledge. ISBN 978 1856 178273 (Ed orig 2003)
- CASTELLS, M. (1997) *The Power of Identity*. Oxford. Blackwell.
- CAVANAGH, S. (1998) Women and urban environment in Ed. Greed C. and Roberts, M. *Introducing Urban Design. Interventions and responses*. Harlow: Longman
- CUCÓ, J. (2004) *Antropología Urbana. Ariel Barcelona*
- CUTHBERT, A. R. (2007). Urban design: requiem for an era—review and critique of the last 50 years. *Urban Design International*, 12(4), 177-223.

- DAY, K. (1999) Introducing gender in the critique of privatized public space, *Journal Of Urban Design*, 4 (2) 155-178
- DELGADO, M. (2011) *El espacio público como ideología*. Madrid: Los libros de la Catarata. ISBN: 978-84-8319-595-6
- FORREST, R.; KEARNS, A. (2001) Social cohesion, social capital and the neighbourhood. *Urban Studies*, 38 (12), 2125–2143
- KIRSCHENMANN, J. (1985). *Diseño de Conjuntos residenciales*. Barcelona Ed. GG,
- FARIÑA TOJO, J. (1980) *La ciudad y el medio natural*, Madrid Departamento de publicaciones UPM.
- GEHL, J. (2006) *La humanización del espacio urbano. La vida social entre los edificios*. Barcelona: Ed Reverté (ed orig 1971)
- GOFFMAN, E. (1963). *Behavior in public places: Notes on the social organization of gatherings*. New York/London: The Free Press
- GONZALEZ, F.J.; STOUTEN, P. (2014) Experiencias de regeneración urbana, Puper en Amber, Poptahof, Delft en *La rehabilitación, la regeneración y la renovación urbanas*. Revista: *Ciudad y Territorio, Estudios Territoriales*, vol XLVI Cuarta época, nº 179 Primavera 2014 pag 175-181 ISSN: 978-84-616-8921-7.
- GONZÁLEZ, F.J. GÓMEZ, A.; MORENO, S. (2013). La regeneración urbana en España Revisión crítica para un estudio de caso de regeneración sostenible. *Revista De Arquitectura* n.27 Facultad de Arquitectura y Urbanismo de la Universidad de Chile. pp. 6-14. DOI: [10.5354/0719-5427.2013.33563](https://doi.org/10.5354/0719-5427.2013.33563)
- GONZALEZ, F.J.; PÉREZ, A. (2013) Lo social en la regeneración urbana madrileña. Algunas notas sobre inmigración y gentrificación. en Ed: CDU. *Madrid: materia de debate 2003-2013*. CDU. Madrid, Vol 4, pag 125-156. ISBN 978-84-616-9206-4
- HERTZBERGER, H. (2000). *Space and the Architect. Lessons in Architecture 2*. Rotterdam. 010 Publishers.
- JACOBS, J. (2011). *Muerte y vida de las grandes ciudades*. Madrid: Ed. Capitán Swing Libros. (ed orig 1961). ISBN 9788493898502
- LEFEVBRE, H. (2013) *La producción del espacio*. . Madrid: Capitán Swing (ed orig 1974) ISBN 9788494169052.
- NEWMAN, O. (1995), Defensible Space A New Physical Planning Tool for Urban Revitalisation, *Journal of the American Planning Association*, 61, 149–55.
- PARK, R.E. (1999) *La ciudad y otros ensayos de ecología urbana*. (Ed y recop Emilio Martínez) Barcelona: Ediciones del Serbal (ed orig.1925) ISBN 8476282907
- POZUETA, J.; LAMIQUIZ, F., PORTO, M. (2009) *La Ciudad Paseable*. Madrid: CEDEX. ISBN 9788477905097
- RAMÓN, F. (1985) Teoría del recinto. *Introducción al Diseño Urbano. Calidad en la ciudad consolidada*. Pag 55-60, Madrid: Ministerio de Obras Públicas y Urbanismo ISBN 8460040836

- ROBERTS, P. (2016), "The evolution, definition and purpose of Urban Regeneration", In Roberts, P. Sykes, H. and Granger, R. (Eds), *Urban Regeneration: A Handbook*, London-Thousand Oaks-New Delhi: Sage, pp. 9–37.
- RUBIO DEL VAL, J. (2011). Rehabilitación urbana en España 1989-2010. Barreras actuales y sugerencias para su eliminación. *Informes de la Construcción*, Vol. 63, Extra 5.
- RUEDA, S., CORMENZANA, B. (2008). *Plan Especial de Indicadores de Sostenibilidad Ambiental de la Actividad Urbanística de Sevilla*
- RUEDA, S. (2017). *El urbanismo ecológico*.
www.upv.es/contenidos/CAMUNISO/info/UrbanismoEcologicoSRueda.pdf
- SARGATALL, A. (2000) El estudio de la gentrificación *Biblio 3W. Revista Bibliográfica de Geografía y Ciencias Sociales* N° 228, 3 de mayo de 2000. Universidad de Barcelona ISSN 1138-9796
- SOLA-MORALES I RUBIO (1997) *Las formas de crecimiento urbano*, Edicions UPC.
- STOUTEN, P. (2010) *Changing Contexts in Urban Regeneration. 30 Years of Modernisation in Rotterdam*, Amsterdam: Techne Press,
- WHYTE, H. W. (2004) *The social life of small urban spaces*. New York. Project for public Spaces. ISBN 097063241X (ed orig 1980)

10. EDUCATIONAL GUIDANCE AND DIVERSITY UNIT

From the Educational Guidance and Diversity Unit we offer support to our students throughout their university life to help them reach their academic achievements. Other main actions are the students inclusions with specific educational needs, universal accessibility on the different campuses of the university and equal opportunities.

From this unit we offer to our students:

1. Accompaniment and follow-up by means of counselling and personalized plans for students who need to improve their academic performance.
2. In terms of attention to diversity, non-significant curricular adjustments are made in terms of methodology and assessment for those students with specific educational needs, pursuing an equal opportunities for all students.
3. We offer students different extracurricular resources to develop different competences that will encourage their personal and professional development.
4. Vocational guidance through the provision of tools and counselling to students with vocational doubts or who believe they have made a mistake in their choice of degree.

Students in need of educational support can write to us at:

orientacioneducativa@universidadeuropea.es

11. ONLINE SURVEYS

Your opinion matters!

The Universidad Europea encourages you to participate in several surveys which help identify the strengths and areas we need to improve regarding professors, degree programs and the teaching-learning process.

The surveys will be made available in the “surveys” section in virtual campus or via e-mail.

Your assessment is necessary for us to improve.

Thank you very much for your participation.