



## Teaching Guide

Identifying Data					2024/25
Subject (*)	Old Age Demography		Code	653540001	
Study programme	Máster Universitario en Xerontoloxía				
Descriptors					
Cycle	Period	Year	Type	Credits	
Official Master's Degree	1st four-month period	First	Obligatory	4	
Language	Spanish				
Teaching method	Face-to-face				
Prerequisites					
Department	Fisioterapia, Medicina e Ciencias Biomédicas				
Coordinador	Lorenzo López, Laura	E-mail	laura.lorenzo.lopez@udc.es		
Lecturers	Lorenzo López, Laura	E-mail	laura.lorenzo.lopez@udc.es		
Web	estudos.udc.es/gl/subject/4540V01/4540001/2024				
General description	<p>This subject provides a comprehensive perspective of the characteristics of the population and its dynamics and provides insight into the main demographic challenges - particularly population aging - facing European societies. The analysis of the composition of the population by sex and age and its graphical representation will be addressed. Students will learn how the different demographic variables (mortality, fertility, migrations) condition the structure of the population by sex and age, which will allow them to understand the process of population aging and the changes in the age structure at advanced ages. The student will become familiar with the statistical and mathematical basic techniques necessary for the study of the population. Finally, the retirement age will be analyzed from a demographic perspective, and the pension system in Spain will be presented.</p>				

## Study programme competences / results

Code	Study programme competences / results
A5	Acquire knowledge that allows the student to establish the appropriate Geronto-geriatric resource according to the characteristics of the older person
A6	Develop sufficient autonomy to participate in research projects and scientific or technological collaborations within the field of Gerontology, in interdisciplinary contexts both public and private and, where appropriate, with a high component of knowledge transfer.
A7	Acquire advanced knowledge and demonstrating, in a context of scientific and technological or highly specialized research, a detailed and informed understanding of the theoretical and practical aspects and the methodology of work in the field of Gerontology
A8	Know how to apply and integrate the knowledge acquired, the understanding of these, its scientific foundation and its problem-solving capabilities in social and socio-sanitary environments and defined in an imprecise way, including multidisciplinary contexts both researchers and professionals in the field of gerontology
B1	Possess and understand knowledge that provides a basis or opportunity to be original in the development and/or application of ideas, often in a research context
B2	That students know how to apply the knowledge acquired and their ability to solving problems in new or little-known environments within broader (or multidisciplinary) contexts related to gerontology and geriatrics
B4	That students know how to communicate their conclusions ? and the knowledge and ultimate reasons that support them ? to specialized and non-specialized audiences in a clear and unambiguous way
B5	That students possess the learning skills that allow them to continue studying in a way that will be largely self-directed or autonomous
C10	Know and apply the scientific method in the writing of projects
C11	Know how to disseminate the results obtained in the development of its activity through the sources of information available to the scientific community
C13	Know the possibilities of research in the field of gerontology in order to motivate students to join it, enabling the realization of doctoral theses

## Learning outcomes



Learning outcomes	Study programme competences / results		
	AJ5	BC1	CC10
Knowledge and application of the main sources of statistical information on the population.	AR1	BC2	CC11
	AR2	BC4	CC13
	AC1	BC5	
Knowledge and application of the main techniques and instruments for demographic analysis of the population.	AJ5	BC1	CC10
	AR1	BC2	CC11
	AR2	BC4	CC13
	AC1	BC5	
Knowledge of the main indicators related to the study of the population.	AJ5	BC1	CC10
	AR1	BC2	CC11
	AR2	BC4	CC13
	AC1	BC5	
Knowledge of the composition of the population by sex and age.	AJ5	BC1	CC10
	AR1	BC2	CC11
	AR2	BC4	CC13
	AC1	BC5	
Knowledge of the main characteristics of the population in relation to economic activity and its impact on welfare systems.	AJ5	BC1	CC10
	AR1	BC2	CC11
	AR2	BC4	CC13
	AC1	BC5	
Knowledge of the main demographic phenomena and their impact on aging.	AJ5	BC1	CC10
	AR1	BC2	CC11
	AR2	BC4	CC13
	AC1	BC5	
Knowledge of the aging of the population in Galicia and Spain and the situation in the context of the European Union.	AJ5	BC1	CC10
	AR1	BC2	CC11
	AR2	BC4	CC13
	AC1	BC5	
Knowledge of the main differences in the aging process: geographical differences, spatial differences, gender differences.	AJ5	BC1	CC10
	AR1	BC2	CC11
	AR2	BC4	CC13
	AC1	BC5	
Knowledge of the pension system in Spain: its recent evolution, its reforms, its current situation and its challenges and alternatives for the future.	AJ5	BC1	CC10
	AR1	BC2	CC11
	AR2	BC4	CC13
	AC1	BC5	

Contents	
Topic	Sub-topic
BLOCK I: Study of the population. General considerations	THEME 1. Description and contents THEME 2. Availability of information THEME 3. Conceptual details
BLOCK II: Composition and characteristics of the population	THEME 4. Composition of the population by sex and age. THEME 5. Population pyramids THEME 6. Economic activity and its impact on welfare systems.
BLOCK III: Study of the main demographic phenomena and their impact on aging.	THEME 7. Birth rate and fertility. THEME 8. Mortality



BLOCK IV: Aging of the population and pension systems	THEME 9. Aging of the population in Galicia and Spain THEME 10. The pension system in Spain and its reforms
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Planning				
Methodologies / tests	Competencies / Results	Teaching hours (in-person & virtual)	Student's personal work hours	Total hours
ICT practicals	A5 A6 A7 A8 B2 B4 B5 C10 C11 C13	10	36	46
Objective test	A5 A7 A8 B1 C13	2	0	2
Guest lecture / keynote speech	A5 A7 A8 B1 B5 C10	16	32	48
Personalized attention		4	0	4

(\*)The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

Methodologies	
Methodologies	Description
ICT practicals	Interactive laboratory classes: will take place in the computer classroom or using the students' personal computers. In these classes the students will have to carry out practical cases in which they will use the tools described in the theoretical classes. Students will have to analyze and comment on aspects related to demography and aging.
Objective test	Multiple-choice test on the contents of the subject matter explained in the lectures.
Guest lecture / keynote speech	Lectures: explanation of the theoretical contents of the subject. These classes will be supported by the use of PowerPoint presentations and the analysis of institutional web pages where statistical information for the analysis of the population can be found.

Personalized attention	
Methodologies	Description
ICT practicals	<p>Personalized attention will be, globally, through personalized individual and group tutoring during the course and according to established schedules. The student can contact the teachers by e-mail (jcmillan@udc.es; amaseda@udc.es; laura.lorenzo.lopez@udc.es) or in-person to establish tutorials, always according to their availability or the established schedules.</p> <p>Since this is a subject with a relevant practical part, the student's personal work is a fundamental part of the evaluation of the same, assuming a number of hours (minimum) similar to the classroom hours. The personalized attention to the student will help to complete in an individualized way his training, mainly in the search of information referred to demographic data of the population, the realization of the practical activities proposed during the course, as well as the examination of the subject.</p>

Assessment			
Methodologies	Competencies / Results	Description	Qualification
Guest lecture / keynote speech	A5 A7 A8 B1 B5 C10	For attendance to classroom and/or laboratory teaching.	10
Objective test	A5 A7 A8 B1 C13	Multiple choice test on the subject matter explained in the lectures.	50
ICT practicals	A5 A6 A7 A8 B2 B4 B5 C10 C11 C13	Performance of tasks in interactive laboratory classes.	40

Assessment comments
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In order to pass the course it is necessary to have passed an objective test.

All aspects related to "academic dispensation", "dedication to study", "permanence" and "academic fraud" shall be governed in accordance with the current academic regulations of the UDC.

### Sources of information

<b>Basic</b>	Martínez Roget, F. (2002). Demografía Gerontológica. Segra Ediciones. Santiago de Compostela.
<b>Complementary</b>	Arroyo, A. (Coord.) (2003). Tendencias demográficas durante el siglo XX en España. Universidad de Sevilla-Instituto Nacional de Estadística. Entremont, A. (2001). Diez temas de demografía. Ediciones Internacionales Universitarias. Madrid. Fernández Leiceaga, X. (Dir) (2000). Avellentamento demográfico e consecuencias socioeconómicas. Edicións Xerais de Galicia. Vigo. Hinde, A. (1998). Demographic methods. Arnold. London. Livi-Bacci, M. (1993). Introducción a la demografía. Editorial Ariel. Barcelona. Nyce, Steven A., Schieber, Sylvester, J. (2005). The economic implications of aging societies: The costs of living happily ever after. Cambridge University Press. Cambridge, UK. Onofri, P. (Editor) (2004). The economics of an ageing population: Macroeconomic issues. Cheltenham: Edward Elgar. Pressat, R. (1989). Introducción a la demografía. Ariel. Barcelona. Preston, S.H., Heuveline, P., Guillot, M. (2001). Demography: Measuring and modeling population processes. Ed. Blackwell. Oxford. Reher, D., Valero, A. (2005). Fuentes de información demográfica en España.

### Recommendations

#### Subjects that it is recommended to have taken before

#### Subjects that are recommended to be taken simultaneously

Assessment in Gerontology/653540002

#### Subjects that continue the syllabus

### Other comments

General recommendations for the study of the course: Regular attendance to classes  
Completion of the laboratory practices  
Daily study of the materials taught and the basic bibliography  
Consultation of the recommended complementary bibliography  
Participation and active discussion in the activities organized  
Beginning in the use of the Microsoft Excel spreadsheet  
According to the different regulations applicable to university teaching, the gender perspective must be incorporated in this subject: Non-sexist language will be used, bibliography of authors of both sexes will be used, participation of male and female students in class will be encouraged....  
Work will be done to identify and modify sexist prejudices and attitudes and to influence the environment to modify them and promote values of respect and equality. Situations of gender discrimination should be detected and actions and measures to correct them will be proposed.  
GREEN CAMPUS: To achieve a sustainable immediate environment and meet the strategic objective 2 of the fifth Plan of sustainability - environmental Green Campus FCS 2023-2025, the documentary work carried out on this subject: Will be mostly requested in a virtual format and computer support  
If paper is used: Do not use plastics  
Use double-sided printing  
Use recycled paper  
Prevent the realization of drafts

(\*)The teaching guide is the document in which the URV publishes the information about all its courses. It is a public document and cannot be modified. Only in exceptional cases can it be revised by the competent agent or duly revised so that it is in line with current legislation.