

Demography

Code: 101098
ECTS Credits: 6

Degree	Type	Year	Semester
2500259 Political Science and Public Management	OT	3	2
2500259 Political Science and Public Management	OT	4	2
2500262 Sociology	OT	4	2
2503778 International Relations	OT	4	2
2504216 Contemporary History, Politics and Economics	OT	3	2
2504216 Contemporary History, Politics and Economics	OT	4	1
2504216 Contemporary History, Politics and Economics	OT	4	2

Contact

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Use of Languages

Principal working language: spanish (spa)
Some groups entirely in English: No
Some groups entirely in Catalan: No
Some groups entirely in Spanish: Yes

Teachers

Francesc Muñoz Pradas
Roser Nicolau Nos

Prerequisites

They have not been established

Objectives and Contextualisation

Contextualization: This subject is taught in the third and fourth years of the Degree in Politics and Public Management, in the fourth year of the Degree in Sociology and in the fourth year of the Degree in International Relations.

Objectives: The subject is an introduction to the study of human populations for social science students. It is oriented to the learning of basic methods and techniques of demographic analysis and knowledge (empirical and theoretical) of the most relevant contemporary demographic transformations.

Training objectives. Basic training is structured around the following aspects:

1. Knowledge of the statistical sources for the study of the populations and of the basic methodologies for their treatment

2. Basic principles in the development of demographic indicators.
3. Applications of demographic analysis to the study of social and political phenomena.
4. Knowledge of contemporary demographic changes.

Competences

Political Science and Public Management

- Act with ethical responsibility and respect for fundamental rights and duties, diversity and democratic values.
- Applying the discipline's main theories and different fields to real practical and professional problems.
- Assess the social, economic and environmental impact when acting in this field of knowledge.
- Demonstrating good writing skills in different contexts.
- Develop critical thought and reasoning and be able to communicate them effectively, both in your own language and second or third languages.
- Develop strategies for autonomous learning.
- Distinguishing the discipline's main theories and different fields: conceptual developments, theoretical frameworks and theoretical approaches underlying the discipline's knowledge and different areas and sub-areas, as well as their value for the professional practice through concrete cases.
- Identifying sources of data and conducting bibliographic and documentary searches.
- Interpreting and applying English texts in an academic way.
- Make changes to the methods and processes of the area of knowledge to provide innovative responses to the needs and wishes of society.
- Managing the available time in order to accomplish the established objectives and fulfil the intended task.
- Realising effective oral presentations that are suited to the audience.
- Showing a good capacity for transmitting information, distinguishing key messages for their different recipients.
- Synthesizing and critically analysing information.
- Take sex- or gender-based inequalities into consideration when operating within one's own area of knowledge.
- Working autonomously.
- Working by using quantitative and qualitative analysis techniques in order to apply them to research processes.
- Working in teams and networking, particularly in interdisciplinary conditions.

Sociology

- Analysing the problems arising from the implementation of public policies and conflict situations by recognising the complexity of the social phenomena and political decisions affecting democracy, human rights, social justice and sustainable development.
- Applying the concepts and approaches of the sociological theory, specially the explanations of social inequalities between classes, between genders and between ethnic groups, to the implementation of public policies and to the resolution of conflict situations.
- Assessing the contributions of sociological approaches to the study of culture, education, interaction between society and environment, social policy, and work.
- Demonstrating a comprehension of the analysis of social phenomena presented in English, as well as observing their strengths and weaknesses.
- Demonstrating a comprehension of the approaches of the sociological theory in its different aspects, interpretations and historical context.
- Describing social phenomena in a theoretically relevant way, bearing in mind the complexity of the involved factors, its causes and its effects.
- Developing critical thinking and reasoning and communicating them effectively both in your own and other languages.
- Developing self-learning strategies.
- Effectively communicating the basic analysis of social phenomena in an elementary level of English.
- Generating innovative and competitive proposals in research and professional activity.
- Respecting the diversity and plurality of ideas, people and situations.
- Searching for documentary sources starting from concepts.
- Students must be capable of assessing the quality of their own work.

- Students must be capable of managing their own time, planning their own study, managing the relationship with their tutor or adviser, as well as setting and meeting deadlines for a work project.

International Relations

- Analyse the behaviour of international actors, both state and non-state.
- Apply quantitative and qualitative analysis techniques in research processes.
- Identify data sources and carry out rigorous bibliographical and documentary searches.
- Produce and prepare the presentation of intervention reports and/or proposals.
- Students must be capable of collecting and interpreting relevant data (usually within their area of study) in order to make statements that reflect social, scientific or ethical relevant issues.
- Students must be capable of communicating information, ideas, problems and solutions to both specialised and non-specialised audiences.
- Students must develop the necessary learning skills to undertake further training with a high degree of autonomy.
- Use metatheoretical data to argue and establish plausible relation of causality and establish ways of validating or rejecting them.

Contemporary History, Politics and Economics

- Analyse the sociodemographic, geoeconomic and environmental dynamics at different territorial scales.
- Manage and apply data to solve problems.
- Students must be capable of collecting and interpreting relevant data (usually within their area of study) in order to make statements that reflect social, scientific or ethical relevant issues.
- Students must be capable of communicating information, ideas, problems and solutions to both specialised and non-specialised audiences.
- Students must develop the necessary learning skills to undertake further training with a high degree of autonomy.
- Work cooperatively in multidisciplinary and multicultural teams implementing new projects.

Learning Outcomes

1. Act with ethical responsibility and respect for fundamental rights and duties, diversity and democratic values.
2. Analyse and critically evaluate the evolution of the population of a region.
3. Analyse and evaluate the socioeconomic and environmental causes and consequences of the evolution of population in a region.
4. Analyse and show future scenarios focusing on the different basic demographic variables.
5. Analyse the relations between population growth, economic development and the environment.
6. Analysing and explaining future scenarios bearing in mind the expected evolution of the basic demographic variables.
7. Analysing and explaining future scenarios bearing in mind the expected evolution of the demographic variables.
8. Apply quantitative and qualitative analysis techniques in research processes.
9. Assess the social, economic and environmental impact when acting in this field of knowledge.
10. Carry out basic demographic studies (population pyramids, growth forecasts, age-period cohort analysis) and analyse the main current problems of the population.
11. Carrying out basic demographic studies (population pyramids, prospects of population growth, age cohort analysis) and analysing the main current population problems.
12. Compare social policies from different ideologies present in the social reality of Spain and Catalonia.
13. Comparing the different theoretical approaches concerning social policy.
14. Comparing the reading of social policies from several ideologies of the social reality of Spain and Catalonia.
15. Comprehending the social interpretations of social policy in accordance with these approaches.
16. Critically analysing and assessing the evolution of a territory's population.
17. Defining the basic knowledge of the demographic analysis, particularly the essential categories, techniques and elements of the study of population (rates of birth, death, migration and natural increase).
18. Defining the sociological concepts that interpret social policy.
19. Defining the underlying social phenomena of social policies and conflicts about social needs.

20. Demonstrate the capacity for oral and written communication in Catalan, Spanish and English which allows the work to be summarised and presented orally and in writing.
21. Demonstrating a comprehension of the analysis of social phenomena presented in English, as well as observing their strengths and weaknesses.
22. Demonstrating good writing skills in different contexts.
23. Develop critical thought and reasoning and be able to communicate them effectively, both in your own language and second or third languages.
24. Develop strategies for autonomous learning.
25. Developing critical thinking and reasoning and communicating them effectively both in your own and other languages.
26. Developing self-learning strategies.
27. Distinguishing sociological concepts about social policy.
28. Distinguishing sociological concepts, as well as the methods and techniques of social investigation commonly used to analyse social policy.
29. Distinguishing the explanations of the access inequalities and the impact of social policies between classes, between genders and between ethnic groups that these actors take for granted.
30. Distinguishing underlying social policies of specific conflicts.
31. Effectively communicating the basic analysis of social phenomena in an elementary level of English.
32. Expressing the debates regarding these approaches, that refer to social policy.
33. Generating innovative and competitive proposals in research and professional activity.
34. Identify data sources and carry out rigorous bibliographical and documentary searches.
35. Identifying sources of data and conducting bibliographic and documentary searches.
36. Interpret the complexity of sustainability and interpret processes of change, from the perspective of sustainable development.
37. Interpreting and applying English texts in an academic way.
38. Know the main theories on economic development and demographic change.
39. Lead multidisciplinary and multicultural teams, implement new projects, coordinate, negotiate and manage conflicts.
40. Make changes to the methods and processes of the area of knowledge to provide innovative responses to the needs and wishes of society.
41. Make decisions in situations of uncertainty and show an enterprising and innovative spirit.
42. Managing the available time in order to accomplish the established objectives and fulfil the intended task.
43. Organise work in relation to good time management and planning.
44. Outline the basic knowledge for demographic analysis, in particular the basic techniques and elements for studying population (birth and death rates, migration , natural and organic growth, etc.)
45. Produce and prepare the presentation of intervention reports and/or proposals.
46. Realising effective oral presentations that are suited to the audience.
47. Relate the mechanisms and institutions of cooperation for development and the improved biological welfare of the population.
48. Relating the concepts, methods and techniques used to analyse social policy with general theoretical and methodological debates.
49. Relating the debates regarding these approaches, that refer to social policy, with the historical context in which they emerged.
50. Relating the explanations of the access inequalities and the impact of social policies with the general theoretical and methodological debates.
51. Relating them with the debates about state, social change and inequality.
52. Respect the diversity and plurality of ideas, people and situations.
53. Respecting the diversity and plurality of ideas, people and situations.
54. Searching for documentary sources starting from concepts.
55. Showing a good capacity for transmitting information, distinguishing key messages for their different recipients.
56. Students must be capable of assessing the quality of their own work.
57. Students must be capable of collecting and interpreting relevant data (usually within their area of study) in order to make statements that reflect social, scientific or ethical relevant issues.
58. Students must be capable of communicating information, ideas, problems and solutions to both specialised and non-specialised audiences.

59. Students must be capable of managing their own time, planning their own study, managing the relationship with their tutor or adviser, as well as setting and meeting deadlines for a work project.
60. Students must develop the necessary learning skills to undertake further training with a high degree of autonomy.
61. Synthesizing and critically analysing information.
62. Take sex- or gender-based inequalities into consideration when operating within one's own area of knowledge.
63. Use metatheoretical data to argue and establish plausible relation of causality and establish ways of validating or rejecting them.
64. Use sources of data, time references and magnitudes in population analysis.
65. Using data sources, time references and magnitudes in population analysis.
66. Working autonomously.
67. Working by using quantitative and qualitative analysis techniques in order to apply them to research processes.
68. Working in teams and networking, particularly in interdisciplinary conditions.

Content

1. Population growth

- 1.1 Evolution of the world population and the projections of the UN
- 1.2 Demographic transition in different groups of countries
- 1.3 Foundations and justification of population policies
- 1.4 Sources and methods for estimating populations and describing their characteristics.

1.5 Measurement and calculation of growth rates

1.6 Use of graphs with arithmetic and logarithmic scales

2. Changes in the composition by sex and age of the population

- 2.1 Relationship between male and female populations: determinants and consequences
- 2.2 Indicators and graphic representations
- 2.3 Causes and perspectives of aging of populations
- 2.4 Consequences of changes in age composition of population

3. Growth components and use of gross and specific rates

- 3.1 Vital and migratory statistics
- 3.2 Balancing equation and calculation of gross rates
- 3.3 Interpretation of gross rates and the use of age specific rates
- 3.4 Control of structural effects: standardization techniques

4. Description of demographic phenomena

- 4.1 Temporal reference and the use of Lexis Diagram
- 4.2 Types of magnitudes (stock, flow) and measures (proportions, rates and probabilities)
- 4.3 Period and cohort approach: longitudinal, cross-sectional and by age or duration
- 4.4 Interpretation of period data: differentiating between effects of age, generation and momentum. Analysis of various sociodemographic variables

5. Construction of demographic tables

- 5.1 Functions of a table and synthetic indicators: the model of the life table
- 5.2 Construction and interpretation of period life tables
- 5.3 Application to the analysis of fertility. Period or Cohort Tables.

6.- Evolution and inequalities of mortality and fertility

- 6.1 Determinants of health and mortality: historical evolution, international and internal disparities in Western countries
- 6.2 Decline and fluctuations of fertility. Analysis of proximate variables, their causes and consequences.

Methodology

The course is organized around three types of educational activities : Lectures, Assignments and Readings. This set of activities is carried out in three levels:

Conducted activities: lectures and practice sessions led by the teacher.

Supervised activities: monitoring of practices and activities requested in class.

Autonomous activities: completion of the practices, preparation of the written tests, study of the theoretical contents and complementary readings

Annotation: Within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Seminar (practices)	16.5	0.66	16, 54, 11, 65
Theoretical classes	33	1.32	13, 17, 48
Type: Supervised			
Tutorials	14	0.56	56, 21, 59, 66
Type: Autonomous			
Readings	24	0.96	21, 25, 37, 61
Resolve the practices	22	0.88	54, 25, 11, 59, 42, 35, 65
Study	30	1.2	6, 16

Assessment

1. The subject will be graded on continuous assessment basis from the following activities and weights:

- Two written tests throughout the course (the arithmetic mean of these two notes will be weighted 50% to calculate the final grade)
- Two reading controls (the arithmetic mean of these two notes will be weighted by 15% to calculate the final grade)
- Two Assignments (the arithmetic mean of these two notes will be weighted by 25% to calculate the final grade)
- Participation in practice sessions r (this note will be weighted by 10% to calculate the final grade)

2. To participate in the resit exam the student must have obtained an average grade between 3.5 and 4.9. The date of this test will be scheduled in the exam calendar by the School of Political Science and Sociology administration. .

3.- The students who do not show up to one or more of the activities submitted to evaluation throughout the course will be graded as "non assessable subject"

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Participation seminar of practices	10	1.5	0.06	62, 9, 4, 16, 8, 63, 56, 54, 31, 21, 22, 26, 23, 25, 45, 11, 46, 33, 59, 34, 35, 40, 39, 55, 41, 58, 57, 48, 53, 52, 61, 67, 66, 68, 65
Practices	25	4	0.16	16, 2, 8, 63, 56, 54, 15, 18, 44, 19, 22, 24, 23, 29, 28, 45, 32, 11, 10, 33, 42, 34, 35, 55, 43, 60, 58, 57, 48, 49, 61, 66, 65, 64
Reading control	15	1	0.04	4, 63, 13, 14, 15, 44, 21, 26, 23, 25, 29, 30, 45, 32, 10, 46, 42, 37, 60, 58, 57, 49, 51, 64
Written test	50	4	0.16	1, 6, 4, 7, 16, 2, 3, 5, 8, 63, 54, 13, 14, 12, 15, 31, 18, 44, 17, 19, 22, 20, 26, 24, 23, 29, 27, 28, 30, 38, 11, 10, 46, 59, 42, 34, 36, 43, 60, 58, 57, 48, 47, 50, 51, 61, 67, 65, 64

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Dossier:

a) Statistical material used and commented on class. Readings about some program topics, exercises and practice sessions materials. This dossier is available at the electronic address of the virtual campus.

b) Teaching Materials: Courses notes available at the electronic address of the Virtual Campus

Electronic addresses:

Look at the website of the "Centre d'Estudis Demogràfics" of the UAB: <http://www.ced.uab.es/>. Links from other research centres and production of data and demographic statistics institutions are available.

Software

Excel