

<b>General information</b>	
Academic subject	<b>Business Demography</b>
Degree course	<b>Science of Administration (SA)</b>
Academic Year	<b>2022-2023</b>
European Credit Transfer and Accumulation System (ECTS):	<b>8</b>
Language	Italian
Academic calendar (starting and ending date)	September/December
Attendance	Attendance, while not compulsory, is highly recommended

<b>Professor/ Lecturer</b>	
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Virtual headquarters	Teams
Tutoring (time and day)	Thursday: 8,30-10,30 in attendance or on Teams

<b>Syllabus</b>	
<b>Learning Objectives</b>	<p>The course aims to provide the necessary tools to deal with the analysis and interpretation of the fundamental issues of economic demography. Particular attention will be paid both to the methodologies for the observation and description of the structural and evolutionary characteristics of the population, and to the use of demographic data and techniques for the analysis of economic behavior.</p> <p>Thus articulated, the course will bring out the multidisciplinary character of the research concerning the interaction of demographic and economic factors, providing the student with the methodological tools necessary to understand the complex underlying mechanisms and the political and social implications.</p> <p>In the first part of the course the objective is to transmit to the students the theoretical-conceptual tools to understand the relationships between economic, environmental factors and demographic behaviors and events; and the links between demography and development. In the second part, the aim is to develop in students the technical skills necessary to deal with the quantitative analysis of demo-economic aggregates in time and space and to understand the political and socio-economic consequences of demo-economic dynamics.</p> <p>In addition, concrete case studies in which demographic data and techniques can be truly applied will be presented in the setup and practical running of the course. All this will take place bearing in mind the global didactic characteristics and the educational objectives of the Master's Degree in Science of Administration. The course is enriched by several seminars held by representatives of the public and private administration, as well as by researchers from research institutes and by professors from other Italian universities.</p>
<b>Course prerequisites</b>	Notions of elementary statistics and basic demography
<b>Contents</b>	Course program



	<p>The Course in Business Demography is divided into two parts that link concepts and methodologies for the analysis of demo-economic phenomena: the first part is devoted to the study of both the structure and the dynamics of populations through the use of demographic instruments; the second part analyses the link between economic development and demographic dynamics, paying particular attention to the application of demographic techniques to behaviour and economic systems (market, enterprises). In both the first and second parts, some of the most interesting demographic issues (in the Italian and European context) and their repercussions in the social and economic spheres will be illustrated.</p> <p>In the <b>FIRST PART</b>, demographic phenomena are defined and the main links between demography and the economy are explained through the construction of statistical ratios and rates. More specifically, demographic evolution depends on the assessment of population growth and the analysis of structures: thus, measures of population growth and its natural and migratory components, population structures, standardisation measures are explained. In addition, the fundamental concepts of demography such as populations and cohorts as well as the analysis by contemporaries and generations are highlighted. The relationships between time, duration and age are represented in the Lexis Diagram with the addition of renewable and non-renewable events and the types of observation (snapshot, retrospective and perspective). Within the demographic themes, emphasis is placed on the phenomenon of mortality measurable by means of mortality rates and on direct and indirect standardisation, which allows or enables the comparison of mortality levels in populations with different age structures. As a crossroads between the study of mortality and Applied Demography, the study proceeds to the calculation of mortality tables and the structural and process effects typical of standardisation for Economics. The first part ends with the demographic projections and forecasts, tools that allow to estimate the future size of a population and its distribution by sex and age.</p> <p>In the <b>SECOND PART</b> of the programme, the relationships between population and economic variables are explored. First, Malthus' Theory of Population followed by alternative views of the relationship between economic progress and population. This is followed by a rather empirical development starting with business demography and the use of demographic methods for business populations (human resource management, staff dynamics). Further demographic techniques such as standardisation and survival are applied to business scenarios following this line. Other topics covered include: the socio-economic characteristics of the population with particular regard to demographic ageing and the implications for social security; the funded and pay-as-you-go pension systems and their comparison; economic consumption behaviour; brief outlines of marketing; population estimates for analysing economic behaviour and markets; the Theory of Family Production; and, finally, demographic trends, family structures and private consumption.</p> <p>A part of the study will also be devoted to the health system, understood as the organisation of people, institutions and resources to provide health care services in order to make a contribution to preserving and improving the health of the population, is conditioned by external factors (demographic, socio-cultural, economic, ecological, technological and political) and internal factors (health status of the population, organisation and financing of health care, regulatory mechanisms, etc.).</p>
<p><b>Books and bibliography</b></p>	<p>F. RACIOPPI, G. RIVELLINI, Applied Demography. La Demografia per le aziende e la governante locale, Edizioni Nuova Cultura, 2013.</p>

	A. FASANO, N. MIGNOLLI, R. PACE, Sistemi sanitari nell'Unione europea. Nuovi modelli e aspetti multidimensionali. McGraw-Hill, Milano, 2016 G. DE SANTIS, Demografia, Il Mulino, 2010  G. BLANGIARDO, Elementi di demografia, Il Mulino, 2006
<b>Additional materials</b>	For the exercises: Notes provided by the professor.

<b>Work schedule</b>			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
200			
200	54	10	136
<b>ECTS</b>			
8			
<b>Teaching strategy</b>		Lectures with slides (PPT)	
<b>Expected learning outcomes</b>			
<b>Knowledge and understanding on:</b>		Students will be able to apply the knowledge and understanding acquired during teaching activities through the simulation of concrete situations and case studies. This will allow students to develop skills regarding the measurement, observation and processing of statistical and demographic data, and the application of useful concepts and methods to design and carry statistical surveys capable of producing information on social phenomena and social behaviours. These objectives will be pursued by accompanying lectures and exercises with reports and oral presentations carried out individually and/or in groups during lessons.	
<b>Applying knowledge and understanding on:</b>		Students will be guided to develop skills to build critical evaluations, by applying the theoretical knowledge acquired, on information provided during the course regarding methods, data elaborations, and interpretations. This will allow students to acquire the ability to collect and analyze data, to make autonomous judgments and coherent reflections on topics addressed during lessons, with special regard to the observation and management of relevant populations -from a statistical-demographic perspective- and to the decision-making-processes of public and private interest.	
<b>Soft skills</b>		Lessons are planned to be interactive inviting attending students to actively participate in carrying out exercises and analyzing case studies to stimulate their ability to communicate orally and/or written, using the language of statistical-demographic disciplines. This will allow attending students to develop their critical thinking, identify problems and suggest solutions suitable to evaluate, applying quantitative methods, dynamics and relationships existing among companies, institutions, public administrations and private companies and organizations.	

<b>Assessment and feedback</b>	
Methods of assessment	Written test and oral interview

Evaluation criteria	Capacità di risolvere problemi: ossia applicare in una situazione reale quanto appreso, individuando gli ambiti di conoscenze che meglio consentono di affrontarla. Gli studenti frequentanti applicheranno le metodologie acquisite allo studio delle dinamiche delle Amministrazioni pubbliche e private e forniranno un'interpretazione critica dei risultati ottenuti.
Criteria for assessment and attribution of the final mark	Analizzare e sintetizzare informazioni: ossia acquisire, organizzare e riformulare dati e conoscenze provenienti da diverse fonti. Si effettueranno esercizi a partire dalle fonti ufficiali che contribuiranno a sviluppare capacità di analisi e comparazione dei dati statistici rilevati.
<b>Additional information</b>	