

**COURSE OF STUDY**

Statistics and Methods for Economics and Finance

**ACADEMIC YEAR**

2025-2026

**NAME OF THE COURSE**

Business Demography

Main information about the course	
Year of the course	2 <sup>nd</sup> year
Teaching period	2 <sup>nd</sup> semester
University Training Credits (CFU/ETCS):	8
SSD (Discipline Scientific Sectors)	STAT-03/A
Teaching language	Italian
Attendance	Attendance is not compulsory but suggested

Professor	
Name and Surname	Pietro Sacco
E-mail address	pietro.sacco@uniba.it
Telephone	080.5049318
Premises	Dipartimento di Economia e Finanza – Largo Abbazia S. Scolastica – 70124 Bari
Virtual site	Not provided
Office hours	Tuesday 9.30 – 12.30 (subject to e-mail agreement)

Teaching plan			
Hours			
Total	Lectures	Practice (lab, hands-on experience, training, etc.)	Individual study
200	56		144
CFU/ETCS (University Training Credits)			
8			

<b>Educational goals</b>	The course aims to provide students with both the necessary tools to comprehend the fundamental issues of Applied Demography and to develop specific skills regarding a "Demography" oriented to specific operational objectives, mainly aimed at the design, organization, implementation and evaluation of actions and strategic objectives concerning public and private companies.
<b>Prerequisites</b>	Statistics and Demography basic knowledge

<b>Teaching Methods</b>	Lectures with the help of power point presentations prepared by the teacher and written exercises on the topics that make up the study program.
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<b>Expected learning outcomes</b>	
<b>DD1 Knowledge and comprehension skills</b>	At the end of the course the student must be able to know the methodological tools that are required to understand the specific phenomena of Applied Demography.
<b>DD2 Knowledge and applied comprehension skills</b>	Knowledge and understanding of the phenomena belonging to Applied Demography will be reached through practical exercises of the technical-methodological tools characterizing demographic analysis.  • <i>Autonomy of judgment</i>

<b>DD3-5 Soft skills</b>	<p>The lectures and written exercises will give students the opportunity to acquire autonomy of judgment on the phenomena belonging to Applied Demography, which will be assessed in the final test.</p> <ul style="list-style-type: none"> <li>• <i>Communication skills</i></li> </ul> <p>During the course, students will be stimulated to take possession of the technical terms of the discipline, thus enabling them to transmit the discipline contents through a specific language.</p> <ul style="list-style-type: none"> <li>• <i>Ability to learn independently</i></li> </ul> <p>During the course, in order to assess the degree of autonomous learning, students will be asked to intervene in the discussion to verify the correct learning of the content and possibly adopt corrective tools. In the final test the student must be able to apply the methodological tools acquired during the course.</p>
<b>Teaching content (Study programme)</b>	<p><b>Preliminary Part: Elements of Demography:</b> the structural characteristics of the population; models and rates of population growth; the process of elimination: mortality tables, survival, and quality of life; the propensity to reproduce and reproductive models; internal and international migration; demographic forecasts: techniques and characteristics.</p> <p><b>General part:</b> 1) Population change: estimation of demographic phenomena affecting the market; 2) The age-period-cohort scheme; 3) Structural variables and socio-economic behaviours: demographic methods for comparative analyses; 4) Market applications of the survival tables; 5) Gender work segregation; 6) Ageing and welfare 7) Population estimates and projections for market research; 8) Sub-regional and small area population estimates and forecasts; 9) Application of technical and methodological tools typical of Demography to support the activities of local governance and business organization.</p>
<b>Reference list</b>	<p><b>Suggested textbook:</b> Racioppi F., Rivellini G. (a cura), 2013. Applied Demography. La Demografia per le aziende e la governance locale. Edizioni Nuova Cultura, Roma.</p> <p><b>Supplementary textbook:</b> Livi Bacci M., 1999. Introduzione alla demografia. Loesher, Torino</p> <p><b>Alternative textbook:</b> Blangiardo G.C., 2006. Elementi di Demografia. Il Mulino, Bologna.</p> <ul style="list-style-type: none"> <li>• Attending students can prepare the exam by studying the contents of the lectures.</li> <li>• Any other textbooks may be suggested at the beginning of the course.</li> </ul>

<b>Assessment</b>	
Learning monitoring methods	<p>The final exam consists of a written test and an oral test on two different days. The written test consists of two exercises to be solved in a maximum time of 60 minutes, while the oral test covers the entire program carried out during the course. During the written test it is possible to use a calculator (not a programmable one), but it is not possible to consult texts, notes, and electronic devices. There are no intermediate tests. The monitoring methods remain the same for both attending and non-attending students.</p>
Assessment criteria	The final mark is an overall assessment of the two tests.
Learning measurement criteria and final mark conferment	
<b>Further information</b>	