

COURSE OF STUDY

Statistical Sciences

ACADEMIC YEAR

2023-2024

NAME OF THE COURSE

Demography

Main information about the course	
Year of the course	1st year
Teaching period	2nd semester
University Training Credits (CFU/ETCS):	10
SSD (Discipline Scientific Sectors)	SECS/S04
Teaching language	Italian
Attendance	Attendance is not compulsory but suggested

Professor	
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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
220	49	21	150
CFU/ETCS (University Training Credits)			
10	7	3	

Educational goals	The course aims to provide students with an operational knowledge of the basic methodological tools to measure demographic phenomena in their quantitative aspects and understand the causes of the main demographic issues.
Prerequisites	Statistics basic concepts

Teaching Methods	Lectures with the help of power point presentations prepared by the teacher, written exercises and laboratory using Excel software aimed at applying on real data the methodologies explained during the lectures.
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Expected learning outcomes	
DD1 Knowledge and comprehension skills	At the end of the course the student must be able to know the methodological tools necessary to understand demographic phenomena.
DD2 Knowledge and applied comprehension skills	The knowledge and comprehension of demographic phenomena will be reached through practical exercises of the technical-methodological tools typical of demographic analysis.

DD3-5 Soft skills	<ul style="list-style-type: none"> • <i>Autonomy of judgment</i> The lectures, the exercises and the laboratory practice will give students the opportunity to acquire autonomy of judgment on demographic phenomena, evaluated in the final test. • <i>Communication skills</i> 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. • <i>Ability to learn independently</i> 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 to the various demographic phenomena.
Teaching content (Study programme)	<ol style="list-style-type: none"> 1) Demography definitions and contents 2) Demographic data 3) Measures of population change 4) Lexis diagram 5) The structural characteristics of the population 6) Standardisation procedures 7) Mortality and the mortality table 8) Infant mortality 9) Marriage and divorce rates 10) Fertility and reproduction 11) Mobility and migration 12) Demographic forecasts
Reference list	<p>Suggested textbook: Livi Bacci M., <i>Introduzione alla Demografia</i>, Loescher Editore, Torino, last edition.</p> <p>Alternative textbook: Blangiardo G.C., 2006. <i>Elementi di Demografia</i>. Il Mulino, Bologna.</p> <ul style="list-style-type: none"> • Any other textbooks may be suggested at the beginning of the course.

Assessment	
Learning monitoring methods	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.
Assessment criteria	Tests assessment: 1 st exercise from 0 to 10 points; 2 nd exercise from 0 to 10 points; oral test from 0 to 10 points. You have access to the oral test if the two written exercises scored a minimum of 8 points.
Learning measurement criteria and final mark conferment	
Further information	