
Testi del Syllabus

Resp. Did. **BORRUSO GIUSEPPE** **Matricola: 009373**

Docente **BORRUSO GIUSEPPE, 3 CFU**

Anno offerta: **2025/2026**

Insegnamento: **659EC-2 - SUSTAINABLE CITIES**

Corso di studio: **EC53A - ECONOMIA, AMBIENTE E SVILUPPO**

Anno regolamento: **2025**

CFU: **3**

Settore: **M-GGR/02**

Tipo Attività: **B - Caratterizzante**

Anno corso: **1**

Periodo: **Primo Semestre**

Sede: **TRIESTE**



Testi in italiano

Lingua insegnamento INGLESE

Contenuti (Dipl.Sup.) The course is aimed at providing a geographical and holistic framework to the complexity of the global changes ongoing on our Planet Earth, with particular reference to cities as the major physical expression of human action and settlements. The attention will be given to the importance of cities in the organization of the geographical space, and as places where, at present, challenges to economical and ecological ecosystems are put.

Testi di riferimento Materials - Powerpoint presentations, key articles, case studies materials - will be made available throughout the course and delivered by means of the Moodle and Teams platforms.

Obiettivi formativi The course objectives are in line with the master degree ones, aiming to provide students with adequate knowledge tools to address and solve complex issues such as those related to cities in their complex set of relationships. that affect various disciplinary fields and can impact natural resources and the environmental sector, as well as lead to further social, economic, and technological implications. In particular the course of Economic is aimed at reaching the following objectives. **KNOWLEDGE AND UNDERSTANDING** Know the main elements characterizing space and the social, economical and environmental space Know the main instruments used by geography to tackle spatial issues Know the models used to represent and analyse geographical reality Understand the theoretical foundations of geography within the framework of the geographical sciences and the other 'soft' and 'hard' sciences. Understand the importance of space in human decisions Understand the importance of spatial thinking Understand the benefits and limitations of models used in economic geography to represent and analyse the geographical realm. **APPLYING KNOWLEDGE AND UNDERSTANDING** Know how to study a geographical space Know which methods and models to apply to the different economical sectors Know how to evaluate choices over the geographical space. Use geographical instruments to represent, analyze, understand and present reality. **MAKING JUDGEMENTS:** Students have to demonstrate - at the end of the course - that they have not only

memorised the concepts but they have understood and interiorized them through possible application in situations other than those presented during the course COMMUNICATION SKILLS: The purpose of the oral exam is to verify the student's ability to communicate effectively and with technical language properties the concepts learned during the course LEARNING SKILLS: At the end of the course, a student must demonstrate that he/she can apply the minimum knowledge and understanding described in this syllabus.

Prerequisiti	No prerequisites.
Metodi didattici	Classroom lessons Ex cathedra teaching Classroom discussion Classrooms will be implemented with seminars and classes (remote and in presence), also with the participation of colleagues and experts from other universities and organizations. Materials will be made available also through digital platforms as video and multimedia presentations.
Modalità di verifica dell'apprendimento	Students will be asked to realize an individual project on a selected topic tackled during the course. The topic can be one not necessarily tackled in class, but relevant in geographical terms. The project can be realized as a 10-15 page essay, discussed during the oral examination, accompanied by a presentation (in form of either a powerpoint, prezi or storymap presentation, or just in form of a viva voce discussion). The presentation of the individual project will represent an occasion for a discussion on the major topics presented in class, with questions from the two modules ('Resources and global changes' and 'Smart and Sustainable Cities'). During an oral examination the typical timeframe is around 15 to 20 minutes per person. Marks are expressed in */30. A minimum of 18/30 mark will mean the exam is passed. 30/30 represent the highest marks. Brilliant presentations can be awarded of the 'cum laude' recognition.
Programma esteso	Smart and sustainable cities. Humans as citizens; Sustainable Development: yesterday and today; Human geography and population: The population on the Earth, patterns and development; Introduction to urban geography: urbanization and an urbanized world; Cities and territories: cities and their relationship with their regions. Relations and resource consumption. Cities as global nodes: Transport and communication networks; The local / global analysis of relations among cities; From a global to a local World? The ongoing changes. The smartness of the cities and the cities of tomorrow.
Obiettivi Agenda 2030 per lo sviluppo sostenibile	Geography deals with the human-environment relationship. So, the concept of Sustainability is rooted into the geographical thought and therefore all the aspects of sustainability finds room into geographical courses.

Obiettivi per lo sviluppo sostenibile

Codice	Descrizione
7	Energia pulita e accessibile
9	Industria, innovazione e infrastrutture
11	Città e comunità sostenibili
13	Agire per il clima



Testi in inglese

Language	English
-----------------	---------

The course is aimed at providing a geographical and holistic framework to the complexity of the global changes ongoing on our Planet Earth, with particular reference to cities as the major physical expression of human action and settlements. The attention will be given to the importance of cities in the organization of the geographical space, and as places where, at present, challenges to economical and ecological ecosystems are put.

Materials – Powerpoint presentations, key articles, case studies materials - will be made available throughout the course and delivered by means of the Moodle and Teams platforms.

The course objectives are in line with the master degree ones, aiming to provide students with adequate knowledge tools to address and solve complex issues such as those related to cities in their complex set of relationships. that affect various disciplinary fields and can impact natural resources and the environmental sector, as well as lead to further social, economic, and technological implications. In particular the course of Economic is aimed at reaching the following objectives. **KNOWLEDGE AND UNDERSTANDING** Know the main elements characterizing space and the social, economical and environmental space Know the main instruments used by geography to tackle spatial issues Know the models used to represent and analyse geographical reality Understand the theoretical foundations of geography within the framework of the geographical sciences and the other 'soft' and 'hard' sciences. Understand the importance of space in human decisions Understand the importance of spatial thinking Understand the benefits and limitations of models used in economic geography to represent and analyse the geographical realm. **APPLYING KNOWLEDGE AND UNDERSTANDING** Know how to study a geographical space Know which methods and models to apply to the different economical sectors Know how to evaluate choices over the geographical space. Use geographical instruments to represent, analyze, understand and present reality. **MAKING JUDGEMENTS:** Students have to demonstrate - at the end of the course - that they have not only memorised the concepts but they have understood and interiorized them through possible application in situations other than those presented during the course **COMMUNICATION SKILLS:** The purpose of the oral exam is to verify the student's ability to communicate effectively and with technical language properties the concepts learned during the course **LEARNING SKILLS:** At the end of the course, a student must demonstrate that he/she can apply the minimum knowledge and understanding described in this syllabus.

No prererequisites.

Classroom lessons Ex cathedra teaching Classroom discussion Classrooms will be implemented with seminars and classes (remote and in presence), also with the participation of colleagues and experts from other universities and organizations. Materials will be made available also through digital platforms as video and multimedia presentations.

Students will be asked to realize an individual project on a selected topic tackled during the course. The topic can be one not necessarily tackled in class, but relevant in geographical terms. The project can be realized as a 10-15 page essay, discussed during the oral examination, accompanied by a presentation (in form of either a powerpoint, prezi or storymap presentation, or just in form of a viva voce discussion). The presentation of the individual project will represent an occasion for a discussion on the major topics presented in class, with questions from the two modules ('Resources and global changes' and 'Smart and Sustainable Cities'). During an oral examination the typical timeframe is around 15 to 20 minutes per person. Marks are expressed in */30. A minimum of 18/30 mark will mean the exam is passed. 30/30 represent the highest marks. Brilliant presentations can be awarded of the 'cum laude' recognition.

Smart and sustainable cities. Humans as citizens; Sustainable Development: yesterday and today; Human geography and population: The population on the Earth, patterns and development; Introduction to urban geography: urbanization and an urbanized world; Cities and

territories: cities and their relationship with their regions. Relations and resource consumption. Cities as global nodes: Transport and communication networks; The local / global analysis of relations among cities; From a global to a local World? The ongoing changes. The smartness of the cities and the cities of tomorrow.

Geography deals with the human-environment relationship. So, the concept of Sustainability is rooted into the geographical thought and therefore all the aspects of sustainability finds room into geographical courses.

Obiettivi per lo sviluppo sostenibile

Codice	Descrizione
7	Affordable and clean energy
9	Industries, innovation and infrastructure
11	Sustainable cities and communities
13	Climate action