



UNIVERSITY OF NAPLES  
"PARTHENOPE"

Department of Science and Technology



COURSE LEADER  
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## WHERE WE ARE

Department of  
SCIENCE AND TECHNOLOGY

Centro Direzionale-Isola C4-  
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A.Y. 2015-16



UNIVERSITY OF NAPLES  
"PARTHENOPE"

GUIDANCE AND TUTORING

Department of  
SCIENCE AND TECHNOLOGY

First-level Degree Course

Computer Science  
(Class L-31)

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## COURSE OVERVIEW

The degree course provides students with a broad and solid background in IT, including the planning and analysis of algorithms, an in-depth knowledge of the different programming languages, software development, the management of databases, the planning and management of computational methods and computer networks. The primary objective of the degree course is to train professionals who can effectively work in the IT sector of production and services both in a national and international context. To this end, graduates are trained to devise, develop and assess, independently or working as part of a team, effective, efficient and reliable IT solutions in several application domains. Skills in specific branches of applied IT, such as complex web applications, image processing, the management and processing of geographical and territorial data, programming methods and techniques of parallel and distributed systems are also developed. These subjects are given a prominent role in the training process and, since they are learnt through practical activities carried out in dedicated advanced didactic laboratories, they facilitate the acquisition of specific professional skills that distinguish the course from similar IT degree courses offered by other institutions. Furthermore, some modules are structured in a way that enables students to get professional qualifications, such as ECDL-GIS, an international certification that demonstrates skills in geographic information systems.

## CAREER PROSPECTS

Graduates are specifically trained to analyse, plan and develop IT solutions (as programme technicians, application developers, web application experts, technical managers of IT networks and systems) for companies and information system providers, firms, state agencies, local bodies, health, cultural institutions and transport companies. They can also work as self-employed consultants in the above mentioned sectors. The choice of optional modules further enhances graduates' professional opportunities, especially in the areas of information management of geographical data and computational geography, which are attracting the growing interest of local bodies and private enterprises; in multimedia technologies for the entertainment industry, video surveillance and multimedia companies; in the computer simulation of scientific phenomena and industrial processes.

## SYLLABUS

The degree course in Computer Science is a three-year programme encompassing 19 exams, an oral English examination, a 300 h internship with companies or research institutes within the field of information technology, and a final examination. It is possible to register for a part-time degree. The course encourages an operational approach, which aims to develop skills through the solution of practical problems, an intense IT lab activity, the use of advanced hardware/software tools, and the development of effective software products. IT skills are further improved through a broad background in both operational and theoretical maths, in classis physics and its methodologies, and thanks to the introduction to economics and business organization.

## SYLLABUS

Year I	ECTS
Computer Architecture with Lab.	12
Mathematics I	9
Computer Programming I with Lab.	12
Business Economics and Organization	6
Physics	6
Computer Programming II with Lab.	9
English Language	4
Year II	
Algorithms and Data Structures with Lab.	12
Mathematics II	9
Databases with Lab.	9
Numerical Computing	6
Operating Systems with Lab.	12
Elective Module	6
Year III	
Computer Programming III with Lab.	6
Computer Networks with Lab.	9
Geographic Information Systems with Lab.	9
Parallel and Distributed Computing	6
Image Processing	6
Elective Module	6
Elective Module	6
Further skills	3
Internship	12
Final Examination	5

For further Information, visit our website:  
<http://informatica.uniparthenope.it>