

A.Y. 2015-16



UNIVERSITY OF NAPLES  
"PARTHENOPE"

Department of Engineering

COURSE LEADER  
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WHERE WE ARE

Department of  
ENGINEERING

Centro Direzionale-Isola C4-  
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UNIVERSITY OF NAPLES  
"PARTHENOPE"

GUIDANCE AND TUTORING

Department of  
ENGINEERING

First-level Degree Course

Civil and Environmental Engineering  
(Class L-7)

[www.uniparthenope.it](http://www.uniparthenope.it)



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## COURSE OVERVIEW

The degree course in Civil and Environmental Engineering aims to train engineers who will be able to help in the design and superintendence of works and infrastructures typical of the civil sector and to operate in the field of the protection of the environment from natural and human risks. Besides giving a thorough grounding in civil engineering (especially in subjects such as calculus, chemical and applied physics), the syllabus also includes both core and related subject units. The former are designed to promote the acquisition of the tools needed to plan and evaluate civil engineering works, environmental engineering problems with connected analysis and monitoring systems. The latter, which are centred on the study of the properties of building materials and the application of thermodynamics to civil structures and infrastructures, complement the core units thereby enabling graduates to gain understanding of working methods and develop key skills required for the job market.

## CAREER PROSPECTS

*-Area of Civil Engineering:* graduates can operate in engineering companies; professional firms; building and maintenance firms; civil and/or environmental divisions of big companies; public bodies (Ministries, Regions, engineer corps, municipalities, etc.); regional and national agencies; firms and companies for the management of technological networks of public utilities; legislative and quality certifying bodies; raw materials, semi-finished products and components manufacturers; research institutions; consultancy and real estate agencies.

*-Area of Environmental and Land Engineering:* graduates can operate in companies, public and private institutions and professional firms for the design, planning, implementation and management of works and control systems for the monitoring of the environment (i.e. soil protection, waste management, raw materials and environmental, geological and energetic resources), and for the assessment of the environmental impacts of plans and works;

*-Area of Safety Engineering and Civil Protection:* graduates can operate in environmental and land management, major infrastructures, construction sites, places of employment, industrial environments, local authorities, public and private bodies in charge for activities of prevention and security management under the current rules for the control of safety and security requirements (see Italian laws 494/96, 626/94, 195/03, 818/84, UNI 10459).

## SYLLABUS

The syllabus is structured into three years and six semesters. Each semester is then divided into a three- or four-month period of attendance and study, and two/three months exclusively devoted to exams, for a total of 180 ECTS credits, which are evenly distributed in the three-year period. First semester classes start in late September and end in December; second semester classes start in March and end in June. Exam sessions are in June, July and September.

## SYLLABUS

Year I	ECTS
Algebra and Geometry	9
Calculus I	9
Calculus II	9
Chemistry	9
Drawing and Automatic Drawing	9
General Physics I	9
English Language	6
Year II	
Software Tools for Data Processing	9
Technical Physics	9
Hydraulics	9
Analytical Mechanics	6
Building Science	9
Materials Science and Technology	9
Elective Module	9
Year III	
Hydraulic Works	9
Public Health/Environmental Engineering	9
Soil Mechanics	9
Building Techniques	9
Topography	9
Elective Module	6
Internship + Final Exam	9