

UNITUS

CIVITAVECCHIA CAMPUS



STUDENT GUIDE
ACADEMIC YEAR 2018 / 2019

UNITUS
CIVITAVECCHIA
CAMPUS

Student Guide
Academic Year 2018/2019



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WELCOME FROM THE PRESIDENT



Avv. Vincenzo Cacciaglia

Consorzio universitario
Citta di Civitavecchia
and Fondazione Cariciv
President

The headquarters of the partnership between the Università degli Studi della Tuscia, the local council and the Cariciv Foundation are in the new and modern Piazza Giuseppe Verdi, 1 complex, owned by the CA.RI.CIV Foundation, in the charming setting of Civitavecchia's seafront.

The synergy between universities and institutions has defined the partnership's mission, which is that of starting three-year and second-level degree courses for research and training, also thanks to conventions with other universities and centres of excellence. The Civitavecchia campus offers research and didactics at all levels, using viable facilities and laboratories with state-of-the-art equipment.

The didactic offer at the Civitavecchia campus includes three-year degree courses in Business Administration (DEIM Department) and Environmental Sciences (DEB Department) and the second-level degree course in Biology and Marine Ecology (DEB Department). Some new courses are about to start, such as the second-level degree course in Circular economy, with two curricula (blue and green economy).

The courses available allow students to acquire socio-economic and environmental protection knowledge, which are fundamental competences for a town such as Civitavecchia as well as a great opportunity for the local area.

WELCOME FROM THE RECTOR



**Professor
Alessandro Ruggieri**
Rector of the University of Tuscia

This guide has been created in collaboration with our students to help you find your way around the University of Tuscia (Unitus) and make full use of all the opportunities and facilities it offers.

Our website www.unitus.it contains clear and simple information about all the services offered by our university, including online services such as first-year enrolment and enrolment in general, the possibility of checking one's administrative and didactic situation, study plan management, exam booking, digital certifications, didactic material and didactic evaluation, wi-fi coverage and university e-mail service.

The guide also provides information on applying for a grant, overseas study with the Erasmus+ programme, sports facilities (CUS) and our libraries.

You will also be able to find out more about the historical buildings that host our University, the beauty and diversity of our Botanic Gardens, the uniqueness of our research centres and our specialized support services including counselling, special needs, and the ombudsman.

The guide also includes information about the courses on offer at the Civitavecchia campus and all the contact details you will need throughout your university life.

For further details on each of the degree programmes on offer at our university, please refer to the individual Department guides providing specific information on the courses of study.

My best wishes to you all for a rewarding period of study.

WELCOME FROM THE MAYOR



Mr Antonio Cozzolino

Mayor of Civitavecchia

The Civitavecchia campus represents a fundamental strategic choice for the development of our town. The local authority offers its full support to the campus. We strongly believe that this institution can offer young people the essential competences and professional abilities needed to enter the job market.

The local university represents a fantastic opportunity for our young people who have had access to a quality university for the last 16 years. Our university is able to offer high-level study courses, research activities and didactic strategies thanks to a group of competent and meticulous professors. Knowing how to invest on knowledge and training for the new generations is fundamental for the growth of individuals and society.

I hope that the University of Civitavecchia, that can already count on a state-of-the-art campus that is well-structured and that offers efficient services tailored to the students' needs, can grow even more so as to cooperate with more organisations and promote the partnership within the local area.

I wish all the students a good academic year, full of fruitful work.

UNIVERSITY PARTNERSHIP OF CIVITAVECCHIA

The headquarters of the partnership between the Università degli Studi della Tuscia, the local council and the Cariciv Foundation are in the new Piazza Giuseppe Verdi, 1 complex, in the charming setting of Civitavecchia's seafront. The synergy between universities and institutions has defined the partnership's mission, which is that of starting three-year and second-level degree courses for research and training, also thanks to conventions with other universities and centres of excellence. The Civitavecchia campus offers research and didactics at all levels, using viable facilities and laboratories with state-of-the-art equipment. This is an extraordinary opportunity for our local area.

The didactic offer at the university of Civitavecchia includes degree courses in Business Administration (Maritime and International Trade Economy and Management) (DEIM Department), Environmental Sciences (DEB Department) and second-level degree courses in Circular Economy (DEIM Department) and Biology and Marine Ecology (DEB Department).

The Biology and Marine Economy degree course is very important for our town, because the sea represents a biologic and environmental resource which is fundamental for the growth and development of the whole local area.





UNITUS
CIVITAVECCHIA CAMPUS
COURSES
ACADEMIC YEAR 2018/2019

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 WeDEB



DEB

ECOLOGICAL AND BIOLOGICAL SCIENCES

Director

Professor Giorgio Prantera

Location

Largo dell'Università

Viterbo

Tel. 0761 357109

Contact details

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www.deb.unitus.it

The Department prepares highly skilled technicians and professionals in the biological and environmental sector. Graduates in Biological Sciences can carry out productive and technological activities in several practical fields and numerous analysis services. DEB has many laboratories, where students work towards their graduation theses and PhD final dissertations. The Department boasts state-of-the-art equipment and is supervised by teaching staff and researchers who have gained national and international recognition and who have published articles in leading international scientific journals.

Degree courses 2018 / 2019

The DEB Department offers a first cycle of study consisting of a three-year bachelor's degree program, followed by a two-year specialisation course, leading to the Italian second cycle degree.

Environmental Sciences (L-32)

Teaching Aims

The Degree Course includes 20 exams, many of which are dedicated to the marine environment. The course enables the student to acquire a systemic environmental culture and practical experience in the scientific world regarding process analysis methodology, systems and problems related to the environment, both natural and modified by man.

The course objectives are to form professionals able to tackle, recognize, classify and develop solutions to environmental problems, while carrying out informed and competent consultation with nature specialists, analytical technicians, businesses, public institutes and public opinion. At the end of your study pathway, as a university graduate in Environmental Sciences, you will have acquired the ability to carry out an interdisciplinary approach to the study of environmental issues, thus becoming a specialist with a definite working method rather than a specialist in a single disciplinary area. You will be able to dialogue with professionals from different backgrounds and put contributions resulting from more specific and sectoral areas into a perspective view.

The course aims to provide you with the following knowledge:

- appropriate and adequate elements of mathematics, physics, chemistry, statistics, information technology and English language;
- suitable operational elements relative to animal and plant biology, genetics, ecology, microbiology, earth science, soil science, environmental law and policy and environmental economics;
- methods of analysis achieved through laboratory activities in various sectors for at least 20 Credits (CFU);
- professional experience gained through training activities, such as external internships in companies, in public administration and laboratories, and internships at Italian and foreign universities within the framework of international agreements and the following skills:
 - detection, classification, analysis, restoration and

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Teaching department

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- conservation of biotic and abiotic components of natural eco-systems, including water and land (parks, natural reserves etc.);
- analysis, monitoring and simulation of systems and environmental processes controlled by scientists, focusing on sustainability and prevention, which aims towards the promotion of environmental quality;
 - localization, diagnostics, protection and recovery of environmental assets.
 - The course consists of several exercises at sea, thanks also to the small fleet available to the department for teaching and research activities that are also held at:
 - the Laboratory of Experimental Oceanology and Marine Ecology at the Port of Civitavecchia;
 - the Laboratory of Ecology and Experimental Ichthyogenic Centre at Saline di Tarquinia (salt flats).

Career opportunities

Employment and professional opportunities can be found in public and private sectors as well as in freelance work. In particular, central government research institutes and relevant ministries regarding the environment, agriculture, forestry and fishing, local, city, provincial and regional administrations, and organizations such as the water authorities, park authorities, ASSIND, ARPA, ISPRA, etc. represent natural employment possibilities for a professional with the skills of a graduate in Environmental Sciences. In addition, our graduates typically possess requirements which are needed by professionals operating in private institutes, industries and companies in the environmental field (water treatment, control of drinking water, waste disposal management, etc.). As a graduate in Environmental Sciences, you could also consider employment in activities regarding advisory services for small business in many sectors, which include safety at work, EU safety legislation, quality control, industrial hygiene, waste disposal, and the assessment of environmental impact. The course prepares students for the profession of:

- Environmental Control Technician
- Specialized guide
- Environmental restoration technician
- Coastal Management Technician

DEGREE COURSES - ACADEMIC YEAR 2018/19

In academic year 2018/2019 will be active only the first year

Exam	Professor	SSD	Year	Sem.	Hours	W/O/E	CFUs
Maths	contract	MAT/04	I	I	72	W/O/E	6+3*
Physics	Armentano	FIS/07	I	I	56	W/O/E	5+2*
Environmental economy	Branca - transfer credit	AGR/01	I	I	48	0	6
Animal biology	Belfiore	BIO/05	I	I	56	0	7
General geology	Piscopo	GEO/04	I	II	48	0	5+1*
General and inorganic chemistry	contract	CHIM/03	I	II	56	W/O/E	5+2*
Plant biology	Onofri	BIO/02	I	II	56	O/E	5+2*
English language	contract	L-LIN/12	I	II	40	W/O	5
Computer science ability	contract	INF/01	I	II	32	O/E	4
Physics complements and workshop	Delfino	FIS/07	II	I	56	W/O/E	4+3*
Environmental law and policy	contract	IUS/09	II	I	48	0	6
Fundamentals of genetics	Mosesso	BIO/18	II	I	48	0	5+1*
Climatology and oceanography	contract	GEO/12	II	I	72	0	7+2*
Training and orientation workshops			II		125		5
General and population ecology	Nascetti (mod.1) Canestrelli (mod.2)	BIO/07 BIO/07	II II	II II	40 40	0 0	2+3* 4+1*
Organic chemistry	Saladino	CHIM/06	II	II	56	W/O/E	6+1*
Microbiology	Barghini	BIO/19	II	II	48	O/E	6
Ecology of the ecosystems	Arduino	BIO/07	II	II	48	0	6
Environmental monitoring workshop	Cerfolli Willems	BIO/07 BIO/06	III III	I I	48 48	0	4+2* 4+2*
Applied ecology	Angeletti	BIO/07	III	I	48	0	4+2*
Training activities chosen by the student			III	I	96		12
Marine ecology and biologic oceanography	Marcelli	BIO/07	III	II	72	0	7+2*
Applied geology	Piscopo	GEO/05	III	II	80	0	8+2*
Internship in companies			III	II	125		5
Final test			III	II			6
Training activities chosen by the student (proposed by the CdS)							
Environmental monitoring workshop		BIO/05 - CHIM/12	III	I	96	0	3+3* 3+3*

Sem Semester **W/O/E** Written/Oral/Exemption during the course

CFUs The CFUs marked with an asterisk (*) indicate practical training/workshop credits and they correspond to 8 hours of frontal lessons

Biology and marine ecology (LM-6)

Teaching Aims

The educational objectives of the course aim to form a highly qualified and specialized professional figure capable of dealing with environmental problems from a biological point of view but at the same time able to manage all ecological processes at the basis of the production of goods and services that the marine environment provides. The study course aims at training marine environmental biologists. Marine environmental biologists are skilled at knowing, classifying and solving environmental issues through a systemic and interdisciplinary approach. This is achieved by prioritising competences in the management and conservation of the marine (coastal and ocean) environment biological resources. The course is aimed at the acquisition of:

- in depth knowledge of biological and ecological disciplines, both basic and applied to marine environment;
- applied management disciplines that are useful to adequately put into context biologic resources in environmental systems;
- methods of analysis through lab activities in different disciplines and in the sustainable management of fishing resources;
- professional experiences through external training and the writing of an experimental dissertation.

Students will acquire the following competences:

- detection, classification, analysis, restoration and conservation of biotic components of marine ecosystems, with the ability to place them correctly in a general environmental framework;
- monitoring and management of environmental systems and processes with specific reference to biological resources;
- design and management of evaluation, rehabilitation, restoration and conservation operations of the coastal and marine environment with particular reference to biotic components.
- The course consists of several exercises at sea, thanks also to the small fleet available to the department for

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Teaching department

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- teaching and research activities that are also held at:
- the Laboratory of Experimental Oceanology and Marine Ecology at the Port of Civitavecchia;
 - the Laboratory of Ecology and the Experimental Ichthyogenic Center at the Saline di Tarquinia (Tarquinia salt flats).

Career opportunities

Employment prospects for master's graduates in Marine Biology and Ecology could orient towards freelance work in professional and managerial tasks within a public framework (ministries, regions, provinces, municipalities, health care, national and regional agencies for environmental protection, parks, reserves, etc.) and within a private framework (companies, institutes, etc.) in the following areas:

- analysis, certification and management of the environment according to regulations controlling the quality of sea water;
- the analysis, conservation, management and monitoring of marine and coastal resources and environment systems aiming at maintaining biodiversity in all its components and functional levels;
- professional and project-related work in fields related to biological and ecological disciplines in the sectors of public administration, industry and health care, with particular reference to the knowledge of marine and coastal environments and relative animal and plant organisms, micro-organisms, biodiversity and environment;
- management of parks and nature reserves;
- the evaluation of the quality of the environment and the production of services and tools aimed at its improvement;
- the evaluation and put into practice of environmental impact and strategic evaluation studies;
- analysis and control of pollution;
- planning and monitoring of environmental control actions;
- planning, promotion and coordination of initiatives aimed at sustainability.

Other employment opportunities regard the sector of scientific research at universities and other public and

private research institutions. The doctoral programme gives what is known as a third level of training, which is crucial to undertake a career in the field of research. The course prepares graduates for the following jobs:

- ecologists and marine biologists;
- researchers and graduates in oceanology and biological sciences;
- zoologists and botanists;
- managers of coastal areas.

DEGREE COURSES - ACADEMIC YEAR 2018/19 In academic year 2018/2019 will be active only the first year

Exam	Professor	SSD	Year	Sem.	Hours	W/O/E	CFUs
Ecology of fishing and experimental aquaculture	contract (mod.1)	BIO/07	I	I	40		3+2*
	contract (mod.2)	BIO/07	I	I	40	0	4+1*
Marine biology	contract	BIO/07	I	I	40	0	5+1*
2 to be chosen amongst:							
a) Marine parassitology	contract	VET/06	I	I	48	0	5+1*
b) Marine environment protection	Angeletti	BIO/07	I	I	48	0	5+1*
c) Marine biological monitoring	contract	BIO/07	I	I	48	0	4+2*
d) Plant biology and coastal ecosystems	Onofri	BIO/03	I	II	48	O/E	5+1*
Biology of algae and marine mushrooms	Pasqualetti	BIO/02	I	II	56	0	6+1*
Marine microbiology and laboratory	Fenice	BIO/19	I	II	48		5+1*
	Barghini	CHIM/11	I	II	48	0	5+1*
Ecology, etology and evolution of marine organisms	Canestrelli	BIO/07	I	II	48		4+2*
	Carere	BIO/05	I	II	40	0	4+1*
Applied oceanography and dynamics of marine ecosystems	Marcelli	BIO/07	II	I	72	0	7+2*
Marine biodiversity conservation	Cimmaruta	BIO/07	II	I	56	0	6+1*
Training activities chosen by the student			II	I	96		12
Training			III	II	100		4
Experimental thesis			III	II			30

Sem Semester

W/O/E Written/Oral/Exemption during the course

CFUs The CFUs marked with an asterisk (*) indicate practical training/workshop credits and they correspond to 8 hours of frontal lessons

RESEARCH DEPARTMENT

The Department of Biological and Ecological Sciences brings together teaching staff whose background and research interests are deeply rooted in the areas of environmental science and biology. They carry out internationally relevant and highly competitive research. Since the Department's foundation, the wide range of disciplinary and technical skills of the members of the Department has resulted in fruitful interdisciplinary collaboration. The research objectives of the Department fall into two main and closely linked areas.

- Research in environmental and ecological fields. This is the study and characterization of marine and coastal environments, inland water and terrestrial environments, including extreme environments from a physical-chemical as well as biological perspective. The specific lines of research range from geology to green chemistry, to theoretical and applied ecology, with the study, monitoring and management of environmental resources.
- Research in the field of Biological Sciences. This deals with the analysis of the genetic and molecular mechanisms of fundamental biological processes, such as: evolution, adaptation and biodiversity, the origins of life, cell differentiation, nano-biotechnology, epigenetic inheritance, immunity, biochemistry of nutrients, mechanisms of carcinogenesis and neurodegenerative diseases, mutagenesis and toxicology, and omics sciences (proteomics, metabolomics and lipidomics), extraction, synthesis and biological characterization of natural substances.

USEFUL INFORMATION

On the DEB website www.deb.unitus.it you can find information regarding:

INFORMATION:

- Courses for the academic year 2018/19
- Calendar, lesson timetable and online forms
- Student services, internships, apprenticeships, choice of activities
- Orientation and mentoring
- Individual study plan ⁽¹⁾
- Support courses ⁽²⁾

1. In order to take exams starting from the early session in January / February 2019, students must validate their individual study plan through the online student portal in the periods set by the Department (01-12-2018/10-01-2019; 01-04-2019/30-04-2019; 01-06-2019/15-06-2019).
2. As of September/October 2018, support courses in Mathematics, Chemistry, Biology and Physics will take place. The Mathematics and Chemistry courses are required for freshmen who have not passed the entry test (recupero debito formativo-OFA). These support courses are aimed at raising the initial preparation of students to a required standard.

ORIENTATION

There is an online orientation, support and tutoring service for students:

- ✉ tutordeb.vt@unitus.it (Viterbo campus)
- ✉ tutordeb.civ@unitus.it (Civitavecchia campus)

STUDENT SERVICES

In addition to normal office hours for students (every day, from Monday to Friday, from 10:00 to 12:00am), from the 1st of May until the 31st of December and excluding the month of August an **afternoon support service** is available every Tuesday from 2:30pm to 4:00pm at the Department Academic Office. This is an initiative of the administrative staff in the hope of meeting the needs of students, which are not only of a strictly educational nature. Students will be able to ask the administrative staff about some general information such as public transport services, housing, services provided by the University (legal defence, psychological services) and more.

Department of Biological and Ecological Sciences Off-campus Laboratories



The **Centro Ittiogenico Sperimentale Marino** (CISMAR) (The Experimental Ichthyogenic Centre) was founded in 2008 and has its headquarters at the Animal Repopulation Reserve, “Le Saline di Tarquinia.” The Centre consists of 4 laboratories dedicated to Molecular Genetics, Monitoring of Marine and Coastal Environments, Monitoring of Benthos, Parasitology and Fish Pathology, and a Hatchery.

CISMAR was created with the aim of activating re-stocking projects of commercial and non commercial species of the coastal strip, for the benefit of professional, sports and recreation fishing activities, in addition to work aimed at the recovery of marine biodiversity also within protected marine areas. The creation of the Centre also pursues an objective of social and cultural nature aimed at fostering an awareness of the management of the coastline and proposes innovative strategies for management of “fishing” resources. Furthermore, CISMAR aims at being a reference point for both authorities and private parties in the sector for testing of breeding techniques for fish not already included among those currently farmed, and for the refinement of techniques already used.



The **Laboratory of Experimental Oceanology and Marine Ecology** was founded in 2001 and since 2005, it has its headquarters within the Port of Civitavecchia; the structure consists of 200 square meters of offices and laboratories (electronics, ecology, oceanographic instrumentation and an optical laboratory) and a library boasting around 1000 reference titles, and 180 square meters of warehouse for oceanographic equipment. The equipment includes scientific research instruments worth about 3 million euros, including a steel boat measuring 8.5 meters and two dinghies.



You can learn more about the courses offered by the Department on:

f Unitus DEB Viterbo

f Unitus DEB Civitavecchia

 WeDEIM



DEIM

ECONOMICS, ENGINEERING, SOCIETY AND ENTERPRISE

Director

Professor Stefano Ubertini

Location

Via del Paradiso, 47

Viterbo

Tel. 0761 357716

Contact details

deim@unitus.it

www.deim.unitus.it

The DEIM Department study programmes have been designed in cooperation with professional associations and businesses in order to foster education and training geared to the working world. This type of course guarantees a high number of work placements during the study period (through projects and internships).

Degree courses 2018 / 2019

The courses offered by the DEIM Department provide first cycle education, consisting of a bachelor's degree (3 years), followed by a second cycle degree (2 years).

Business administration (L-18)

Teaching Aims

The degree course provides students with a thorough grounding in the operating dynamics of companies through a rational balance of transversal competences (finance, business, law and maths-statistics). The logic of the course is to harmonise and integrate the different disciplines, in order to address various issues in an interdisciplinary way. We believe that this will provide students with the skills they need to manage difficult situations independently and enter the job market. Furthermore, graduates in Business Administration will be academically and pragmatically ready to continue their studies at a postgraduate level.

Starting from academic year 2016/2017, the Management curriculum that was available only in Viterbo will also be available at the Business School in Civitavecchia. 2018/2019, the Tourism Economics course in Civitavecchia has been replaced by the Maritime and International Trade Economy curriculum in order to meet the market's demand.

Responding to the job market's need is the reason why there are five degree courses. Three of them are in Viterbo and the remaining two are held at the Civitavecchia campus. These are all targeted to specific professional activities. The study plan includes English language studies and basic computer studies, workshops, work placements, internships, and other vocational activities in companies or institutions, and concludes with the preparation of a thesis. Graduates will therefore be able to understand and analyse a range of different economic and financial profiles in which companies work, because they possess specific technical-operational skills and a high level of interdisciplinary skills and practical experience. In sum, students can aspire to cover various roles of a mainly operational nature, with responsibility in many professional sectors.

For example, the course will prepare students for the managerial career prospects in the production and service industries, with auditing and consultancy

Course Director

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businesses, financial institutions, private companies and public administrations.

A degree in Business Administration also allows graduates to access the state exams to enter the Register of Certified Public Accountants, Section B, in accordance with the access procedures of the said register.

In the academic year 2014/2015, an agreement was signed with the Order of Certified Public Accountants of Viterbo, thanks to which students have certain benefits regarding a traineeship and preparatory tests for the state exam in order to carry out the profession of Chartered Accountant. The agreement was also signed with the Order of Certified Public Accountants of Civitavecchia and Rieti in the academic year 2015/2016.

To access the agreement it is necessary to accrue university credits in specific areas during university, also by taking extra exams. For more information, visit the Department's Web page: www.unitus.it/it/dipartimento/deim/mondo-del-lavoro-deim/articolo/abilitazione-alle-professioni-deim.

The **Management curriculum** (Viterbo and Civitavecchia) provides students with high-level training that will enable him to deal with different issues within a company in a professional and informed manner. Graduates acquire expertise that will enable them to take on many different roles, for example, in the management of production and service industries, in public and private companies, as well as in a freelance capacity and as a business consultant.

The **Banking and Finance curriculum** (Viterbo) is aimed at professional training for the banking and financial mediation sectors, in banks and other financial and securities markets. As a graduate, the main professional opportunities with this profile are in the sector of financial services (banks, insurance and financial services), consultancy activities for retail and corporate clients, informing and monitoring bank customers regarding banking and financial processes and working in risk assessment operational roles

in business, both in banking and in industrial and commercial companies.

The **Business Economics and Legislation curriculum** (Viterbo) is aimed at training professionals who are able to operate in an informed manner, either within companies, or in the capacity of freelance consultants, by providing solid basic information regarding the administrative, financial, and legal aspects of corporate proceedings, and by representing the business and communicating to third parties. The training offered by this curriculum enables students to apply for different jobs in freelance activities and business consultancy and in the development of a managerial career in businesses of different types and sizes, with a focus on the administrative and budgeting aspects.

The **Maritime and International Trade Economy curriculum** (Civitavecchia) aims at training students in both the basic disciplines of business administration, and in specific areas of the tourism and international trade sectors. Graduates will acquire competences allowing them to enter the job market and access a variety of career opportunities, both in company management and in self-employed jobs. Career opportunities include private and state-run transport and cruise companies, in particular in terms of planning, organisation and management of diverse services including stocking, inventory management and international trade.

MANAGEMENT

(Civitavecchia campus)

EXAM	Professor	SSD	CFUs
FIRST YEAR			
Political economy 1	Still to be assigned	SECS-P/01	8
Business Administration	Riccardo Cimini	SECS-P/07	8
General mathematics	Still to be assigned	SECS-S/06	8
Private law	Still to be assigned	IUS/01	8
Public law	Nicola Viceconte	IUS/09	8
Quality and environment management systems	Still to be assigned	SECS-P/13	8
SECOND YEAR			
Accounting	Riccardo Cimini	SECS-P/07	8
Political economy 2	Still to be assigned	SECS-P/01	8
Economy and company management	Michela Piccarozzi	SECS-P/08	8
Statistics	Still to be assigned	SECS-S/03	8
Financial mathematics	Still to be assigned	SECS-S/06	8
Commercial law	Still to be assigned	IUS/04	8
Other training activities			
English language	Still to be assigned		8
IT and data processing	Still to be assigned		6
Free exam			8
Free exam			8
THIRD YEAR			
Economic policy	Luca Cacchiarelli/Barbara Pancino	SECS-P/02	8
Quantitative determinations	Alessandro Mechelli/Riccardo Cimini	SECS-P/07	8
Financial analysis	Alessandro Frasca	SECS-P/07	8
Statistical methods for financial analysis	Still to be assigned	SECS-S/03	8
Bank legislation	Still to be assigned	IUS/04	8
Business organisation	Still to be assigned	SECS-P/10	8
Other training activities			
Practical activities (workshops, project work, work experience)			2
Final test			4

MARITIME AND INTERNATIONAL TRADE ECONOMY

(Civitavecchia campus)

ESAME	Docente	SSD	CFU
FIRST YEAR			
Political economy 1	Still to be assigned	SECS-P/01	8
Business Administration	Riccardo Cimini	SECS-P/07	8
General mathematics	Still to be assigned	SECS-S/06	8
Private law	Still to be assigned	IUS/01	8
Public law	Nicola Viceconte	IUS/09	8
Quality and environment management systems	Still to be assigned	SECS-P/13	8
SECOND YEAR			
Accounting	Riccardo Cimini	SECS-P/07	8
Political economy 2	Still to be assigned	SECS-P/01	8
Economy and company management	Michela Piccarozzi	SECS-P/08	8
Statistics	Still to be assigned	SECS-S/03	8
Financial mathematics	Still to be assigned	SECS-S/06	8
Commercial law	Still to be assigned	IUS/04	8
Other training activities			
English language	Still to be assigned		8
IT and data processing	Still to be assigned		6
Free exam			8
Free exam			8
THIRD YEAR			
Economy of maritime companies	Still to be assigned	SECS-P/07	8
International economy	Still to be assigned	SECS-P/01	8
Statistical methods for financial analysis	Still to be assigned	SECS-S/03	8
Port and customs law	Still to be assigned	IUS/04	8
Two exams chosen among the following:			
Natural resources and environmental economy	Giacomo Branca	AGR/01	16
Merceology and product safety	Still to be assigned	SECS-P/13	
History and culture of international trade	Still to be assigned	M-STO/04	
Other training activities			
Practical activities (workshops, project work, work experience)			2
Final test			4

Circular economy (LM-76)

The degree course in Circular Economy offers a high level of specialisation on Circular Economy and it aims at providing students with a series of innovative tools to work in a financial and environmental sustainability context. The aim is that of enhancing natural resources, the use of secondary raw materials, the sustainable management of the value chain and the activation of industrial symbiosis. The degree course aims at giving students the competences they need to work in a conscious way in different areas which are often heterogeneous but which have one thing in common: the opportunity to integrate technological innovation and new competences with converting production and sustainable development. The course has one common core, that of learning themes, methods and tools that are typical of circular economy, and it offers two curricula.

The first curriculum is focussed on industrial production from a circular economy perspective. Each process is characterised by a sustainable approach through a reduced use of traditional raw materials, the use of new forms of energy, recovery and recycling, the use of natural substances and production waste from other sectors (green economy). The second curriculum explores the circular approach in maritime economy, in all its aspects (tourism, nature, logistics, commerce) (blue economy). Graduates in Circular Economy can analyse, control and manage value chains in different commercial sectors; they can identify, evaluate and manage industrial symbiosis among similar sectors; they can develop techniques and methods for the analysis of productive systems and they can face problems related to the monitoring, territory and environment control and management, competences for the evaluation of resources and environmental impact, also through the use of conceptual and methodological tools provided by the economy, the law and environmental planning.

Course Director

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Job opportunities

The main prospective jobs are many and innovative. They are connected to:

- the analysis and management of environmental resources, environmental systems and territory;
- the management of innovative industrial processes;
- the management of resources recovery and reuse and of agricultural and industrial by-products;
- the sustainable management of tourism;
- the management of sustainable logistics and port processes;
- the management of sustainable maritime industry and services;
- the study and analysis of consumers' behaviour with a focus on green products and services;
- start-ups and spin-offs characterised by the products' sustainability;
- the prediction of sustainable financial scenarios and the impact of sustainable innovations;
- the interventions on the production of goods and services designed for the application of circular economy in a local production context;
- the interventions on the production of goods and services designed for the application of the improvement of environmental quality;
- innovation and sustainability brokers;
- the execution and evaluation of studies on environmental impact, strategic evaluation and environmental risk, as well as the safety aspect and other activities related to this;
- the monitoring and management of recycling and waste treatment activities;
- Activities of ecological innovation and design;
- environmental cost-benefit analyses.

The second cycle degree course in Circular Economy allows access to the national register for Chartered Accountants and Expert Consultants according to the register's access procedures (section A).

GREEN

EXAM	Professor	SSD	Year	Hours	CFUs
Consumer behaviour in circular economy	Still to be assigned	SECS-P/08	I	48	8
Micro and macro economic fundamentals of circular economy	Still to be assigned	SECS-P/01	I	48	8
History of sustainable economy	Still to be assigned	SECS-P/12	I	48	8
Policy for natural resources and the environment	Emanuele Blasi	SECS-P/02	I	48	8
Econometric models for circular economy	Still to be assigned	SECS-S/03	I	48	8
Economy and sustainable management of natural resources	Giacomo Branca	AGR/01	I	48	8
Technological innovation for circular economy (to chose wiht Resources, waste and environmental certificaion - year 2)	Enrico Maria Mosconi	SECS-P/13	I	48	8
European environmental law	Diego Vaiano	IUS/10	II	48	8
Sustainability and social responsibility in organisations	Still to be assigned	SECS-P/10	II	48	8
Resources, waste and environmental certification (to choose with technological innovation for circular economy - year 1)	Still to be assigned	SECS-P/13	II	48	8

Two exams chosen among the following:

Reuse of waste and sustainable agriculture	Danilo Monarca	AGR/09	II	48	8
“Green” chemistry	Still to be assigned	CHIM/06	II	48	8
Energy efficiency and environmental impact	Marco Barbanera	ING-IND/11	II	48	8
Circular planning	Marco Marconi	ING-IND/15	II	48	8

Chosen by the student			II	48	8
For the final thesis			II		12
Internships, project work, case studies, seminars and catalogue			II		12

BLUE

EXAM	Professor	SSD	Year	Hours	CFUs
Micro and macro economic fundamentals of circular economy	Still to be assigned	SECS-P/01	I	48	8
History of sustainable economy	Still to be assigned	SECS-P/12	I	48	8
Policy for natural resources and the environment	Emanuele Blasi	SECS-P/02	I	48	8
Econometric models for circular economy	Still to be assigned	SECS-S/03	I	48	8
Economy and sustainable management of natural resources	Giacomo Branca	AGR/01	I	48	8
International marine law (to be chosen with environmental European law - year 2)	Still to be assigned	IUS/13	I	48	8
One exam chosen between:					
Consumer behaviour in circular economy	Still to be assigned	SECS-P/08	I	48	8
Technological innovation for circular economy	Enrico Maria Mosconi	SECS-P/13	I	48	8
Sea marketing	Still to be assigned	SECS-P/08	II	48	8
Economy of sustainable tourist companies	Still to be assigned	SECS-P/07	II	48	8
Port activities management	Still to be assigned	SECS-P/13	II	48	8
European environmental law (to be chosen with international and marine law - year 1)	Diego Vaiano	IUS/10	II	48	8
Two exams chosen among the following:					
Circular planning	Marco Marconi	ING-IND/15	II	48	8
Industry digital and sustainable logistics	Still to be assigned	ING-IND/17	II	48	8
Tourism geography	Still to be assigned	M-GGR/01	II	48	8
Sea energy	Still to be assigned	ING-IND/08	II	48	8
Chosen by the student			II	48	8
For the final thesis			II		12
Internships, project work, case studies, seminars and catalogue			II		12

RESEARCH DEPARTMENT

The DEIM Department is a hub of knowledge and innovation. The 45-people staff of teachers-researchers work on research in various areas: Economics and Statistics, Industrial Engineering, Legal Studies, Political and Social Sciences, Agricultural Sciences, English Language and Historical Studies. These activities range from basic to applied research, technology transfer and research on behalf of third parties.

The DEIM Department cooperates with other universities and national research centres including ENEA and with international partners, such as the University of Glamorgan (Wales, UK) and the Higher School of Economics of the National Research University (Russia), as well as with 45 European institutions within the Erasmus+ mobility programme. International cooperation extends to wider European and international authorities (including FAO).

The Centre for Innovation and Development of the Territory, which collaborates with the University of Tor Vergata (Rome), the Science and Technology Park of Lazio, as well as the Centre for Studies on Economic Development.

The DEIM Department participates in the Jean Monnet programme with a research laboratory on 'Mediterranean Europe in European Integration'.

As regards postgraduate activities, DEIM offers:

- four PhD programmes:
 - **Economics, Management and Quantitative Methods External PhD programmes**
 - **Engineering for Energy and the Environment**
- some external PhD programmes

USEFUL INFORMATION

Three year degree course

- **Entry tests**
- **Pre-courses and mentoring**

As regards enrolment to one of the three year degree courses of the Department of Economics, Engineering, Society and Enterprise, according to current legislation (D.M. 270/04), students will have to undergo a multiple choice entry test aimed at testing the basic knowledge and individual knowledge.

The test is compulsory for all degree courses but is aimed at only acting as a selection tool for the Industrial Engineering course. For all courses, the department offers students who did not pass the test about mentoring systems aimed at strengthening the competences needed to follow the courses and take the exams.

Students whose test results are not satisfactory will fill the gaps by attending support activities/lessons. At the end of these activities/lessons, students will undergo a final test.

Terms and ways to carry out these activities will be published on the department's website on the study courses pages.

Second cycle degree courses

- **Access requirements**
- **Pre-courses**

Students wishing to enrol in the master's degree courses of the Department of Economics, Engineering, Society and Enterprise of the LM-77 Business Administration, Finance and Control or Marketing and Quality course must verify that they meet the following qualification criteria: Second level degree courses of the LM-77 Business Administration, Finance and Control or Marketing and Quality course have the following requirements:

- Bachelor's degree in courses L-18 or L-33 (or equivalent in accordance with legislation DM 509/99, L-17 and L-28);

- in the absence of the above requirements, students will have to acquire at least 48 credits in specific scientific areas, according to the following:

• LM -77

For the Master's Degree in

Accounting, Finance and Control:

- at least 12 CFUs in the SSD SECS-P/01 and/or SSD - SECS-P/02 (Economic Policy I, Economic Policy II or Economic Policy);
- at least 12 credits in SSD SECS-P / 07 (Business Economics and Accounting);
- at least 6 credits in SSD IUS / 01 (Private Law);
- at least 6 credits in SSD IUS / 04 (Commercial Law);
- at least 6 credits in SSD SECS-S / 01 or SECS-S / 03 (Statistics);
- at least 6 credits in SSD SECS-S / 06 (General Mathematics).

Second level degree course in **Marketing and quality:**

- from 8 to 16 CFUs in the SSD SECS-P/08;
- at least 8 CFUs in the SSD SECS-P/01 or SECS-P/02;
- at least 8 CFUs in the SSD SECS-S/01 or SECS-S/03;
- from 8 to 16 CFUs in the SSD SECS-P/07;
- from 8 to 16 CFUs in the SSD IUS/01 or IUS/04;

Students with training gaps compared to the curriculum prerequisites will have to be filled before the beginning of the degree course and the testing of the individual knowledge of each student so that courses can be attended with success. Students will be tested to check their individual knowledge in the manners stated in the Regulations of the study course.

• LM-76

In order to access the second level degree course in Circular Economy it is necessary to have a three year degree course in L-18 or L-33. Students who do not possess the above-mentioned requisite will have to acquire a minimum of 48 CFUs in basic and main SSDs listed in the table that is attached to DM 16th March 2007 for degree classes 18 and 33 and/or SSDs from MAT/01 to MAT/09 included, INF/01, ING-INF/05, ING-IND/17, ING-IND/35.

• LM-33

For more information on the second level degree course in Mechanical Engineering, visit the following

Web page: <http://www.unitus.it/it/dipartimento/deim-ingegneria/ingegneria-meccanica-ing/articolo/requisiti-accesso-ing-mecc-deim>

Mentoring service

The mentoring service, provided by young graduates or students enrolled in master's degree programmes of the School, perform the basic function of following new students throughout their education, from the last year of high school right up to postgraduate level.

The service is aimed at second level degree course students who have already followed the three year degree course but have also started following the second level degree course. This means that they are able to guide, support and welcome any questions or requests from the students.

The mentors' tasks are as follows:

- to cooperate in different orientation initiatives for high school students;
- to welcome and offer assistance to freshers;
- to give orientation and assistance during the course of study, to encourage students to attend and participate actively in the courses by removing any obstacles to a successful educational process;
- to interact with the Department Academic Office.

The mentoring activities are carried out by carefully selected students

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