

**Department of Science and Technology
Parthenope University
Naples**

A.A. 2013-2014

First Level Degree Course in
COMPUTER SCIENCE (class L-31 – DM 47)
 Academic Year 2013/2014

Year I - 1st semester	S. S.D.	Credits
Computer Architecture with Lab.	INF/01	12
Mathematics I	MAT/05	9
Computer Programming I with Lab.	INF/01	12
2nd semester		
Business Economics and Organization	SECS-P/10	6
Physics	FIS/01	6
Computer Programming II with Lab.	INF/01	9
English	L-LIN/12	4
	Total	58
Year II - 1st semester		
Algorithms and Data Structures with Lab.	INF/01	12
Mathematics II	MAT/05	9
2nd semester		
Data bases with Lab.	INF/01	9
Numerical Computing	MAT/08	6
Operating Systems with Lab.	INF/01	12
Elective course		6
	Total	54
Year III - 1st semester		
Computer networks with Lab.	INF/01	9
Geographic information systems with Lab.	ICAR/06	9
2nd semester		
Image processing	INF/01	6
Computer Programming III with Lab.	INF/01	6
Parallel and distributed computing	MAT/08	6
Elective course		6
Elective course		6
Further skills		3
Traineeship		12
Final Examination		5
	Total	68

ELECTIVE COURSES

Area Advanced Systems	S. S.D.	CFU
Web technologies - 2nd sem.	INF/01	6
Computational applied mathematics - 1st sem.	MAT/08	6
Security in information systems - 2nd sem.	INF/01	6
Area Geomatics		
Geomatic data processing - 2nd sem.	ICAR/06	6
Mobile computing - 2nd sem.	INF/01	6
Remote sensing - 2nd sem.	ICAR/06	6
Area Multimedia Technology		
Web technologies - 2nd sem.	INF/01	6
Mobile computing - 2nd sem.	INF/01	6
Virtual reality - 2nd sem.	INF/01	6

First Level Degree Course in
BIOLOGY (Class L-13 - DM 47)
Academic Year 2013/2014

Year I - 1st semester	S. S.D.	Credits
General and Inorganic Chemistry with Lab.	CHIM/03	9
Mathematics and Statistics	MAT/08	9
Physics with Lab.	FIS/05	6
Plant Biology and Plant Physiology (part I) (*)	BIO/01-04	6
2nd semester		
Environmental and Organic Chemistry	CHIM/12	6
Introduction to Computer science and bioinformatics	INF/01	6
Physical Chemistry	CHIM/02	6
Plant Biology and Plant Physiology (part II) (*)	BIO/01-04	6
	Total	54
Year II - 1st semester		
Animal Biology and Physiology (part I) (**)	BIO/05-09	6
Biochemistry with Lab.	BIO/10	9
Developmental Biology and Animal Phylogeny	BIO/06	9
English	L-LIN/12	3
2nd semester		
Life Cycle Assessment	CHIM/12	9
Animal Biology and Physiology (part II) (**)	BIO/05-09	6
Biological Indicators	AGR/13	9
Microbiology with Lab.	BIO/19	9
Elective course		6
	Total	66
Year III - 1st semester		
Ecology	BIO/07	9
Hygiene	MED/42	9
Elective course		6
2nd semester		
Environmental and Energy Assessment	BIO/07	6
Pharmacology and Toxicology	BIO/14	6
Elective course		6
Further skills		6
Traineeship		6
Final Examination		6
	Total	60
ELECTIVE COURSES		
Astrobiology	FIS/05	6
Biological Conservation - 2nd sem.	BIO/07	6
Clinical Biochemistry and Basic Pathology - 2nd sem.	BIO/10	6
Environmental and Quality Certification - 2nd sem.	CHIM/12	6
Environmental Pollution and Ecosystem Protection - 2nd sem.	AGR/13	6
Genetics - 2nd sem.	BIO/18	6
Human Anatomy - 2nd sem.	BIO/16	6
Marine Biology - 2nd sem.	BIO/05	6
Molecular Biology - 1st sem.	BIO/11	6
Plants for Food and Medicine - 2nd sem.	BIO/01	6

(*) Single examination.

(**) Single examination.

First Level Degree Course in
NAUTICAL AND AERONAUTICAL SCIENCE (class L-28 – DM 47)
 Academic Year 2013/2014

Year I - 1st semester	S. S.D.	Credits
Mathematical Analysis I	MAT/05	9
General Chemistry	CHIM/03	6
Navigation (maritime and air) law	IUS/06	6
English	L-LIN/12	3
2nd semester		
Physics I	FIS/05	9
Introduction to computer science with Lab	INF/01	6
Naval Architecture and Stability	ING-IND/01	9
	Total	48
Year II - 1st semester		
Flight mechanics	ING-IND/03	9
Mathematical analysis II	MAT/05	6
Physics II	FIS/05	6
2nd semester		
Geodesy and Navigation	ICAR/06	9
Numerical analysis and applied mathematics	MAT/08	6
Marine Geology	GEO/02	9
Estimation Techniques for Survey and Navigation	ICAR/06	6
Elective course		9
	Total	60
Year III - 1st semester		
Numerical Cartography and Gis	ICAR/06	6
Meteorology	GEO/12	9
2nd semester		
Oceanography	GEO/12	9
Radionavigation	ICAR/06	9
Elective course		9
Elective course		6
Traineeship and stage		9
Further Studies		6
Final Examination		9
	Total	72
ELECTIVE COURSES		
Area Navigation and Survey		
Thematic Cartography	ICAR/06	6
Ship Manoeuvrability and Operational safety	ING-IND/01	9
Astronomical Navigation	ICAR/06	9
Technologies of construction and outfitting of ships	ING-IND/02	6
Air Navigation and Air Traffic Control	ICAR/06	9
Remote sensing	ICAR/06	6
Area Meteorology and Oceanography		
Fluid dynamics of the ocean and the atmospheres	GEO/12	6
Coastal systems analysis and sedimentology	GEO/02	9
Polar oceanography	GEO/12	9
Area Flight Safety and Management		
Avionics and aircraft systems	ING-IND/05	9
Air navigation and air traffic control	ICAR/06	9
Aeronautic rules and human factor	ING-IND/05	6
Services for air and marine navigation	SECS-P/10	9

MASTER'S DEGREE Course in
APPLIED COMPUTER SCIENCE (Class L-13 - DM 47)
 Academic Year 2013/2014

Year I - 1st semester	S. S.D.	Credits
Scientific computing applications with Lab. Part I (*)	MAT/08	6
Physics for systems	FIS/05	6
Pattern recognition and classification	INF/01	9
2nd semester		
Scientific computing applications with Lab. Part II (*)	MAT/08	6
Data bases II with Lab	INF/01	9
Computer graphics with Lab.	INF/01	6
Elective course		9
	Total	51
Year II - 1st semester		
Multimedia systems with Lab.	INF/01	9
Parallel and distributed computing II with Lab.	MAT/08	6
Geographic information systems with Lab.	GEO/04	6
2nd semester		
Advanced network architecture and programming with Lab.	INF/01	12
Distributed operating systems with Lab.	INF/01	6
Elective course		6
Traineeships, further skills		3
Final Examination		21
	Total	69
ELECTIVE COURSES		
Area Advanced Systems		
Bioinformatics - I sem.	CHIM/03	6
Security in information systems with Lab - II sem.	INF/01	9
Area Geomatics		
Geodesy and Navigation - II sem.	ICAR/06	9
Photogrammetry with Lab. - I sem.	ICAR/06	6
Space Technologies Applied to the Environment - II sem.	FIS/05	6
Area Multimedia Technology		
Semantic multimedia with Lab. - II sem.	INF/01	9
Computer vision - I sem.	INF/01	6

(*) Single examination

Master's Degree Course in
SCIENCE AND TECHNOLOGY OF NAVIGATION (Class LM-72 – DM 47)
 Academic Year 2013/2014

Year I - 1st semester	S. S.D.	Credits
Scientific computing applications - Part I (*)	MAT/08	6
Climatology	GEO/12	6
Flight mechanics II	ING-IND/03	6
Radar and Radionavigational Aids	ING-INF/03	9
2nd semester		
Scientific computing applications - Part II (*)	MAT/08	3
Naval Architecture and Stability II	ING-IND/01	6
Space science and technology	FIS/05	9
Elective course		6
	Total	51
Year II		
Satellite navigation	ICAR/06	9
Meteo-oceanographic and climatological modeling	GEO/12	9
Business economics and organisation	SECS-P/10	6
Elective course		6
Elective course		6
	Total	36
Traineeships		9
Further skills		6
Final Examination		18
	Total	33
ELECTIVE COURSES		
Area Navigation and Survey		
Photogrammetry	ICAR/06	6
Navigation Systems Modeling	ICAR/06	6
Synoptic meteorology	GEO/12	6
Ship and Navigation Safety	ING-IND/02	6
Inertial and integrated air navigation	ICAR/06	6
Remote Sensing	ICAR/06	6
Seakeeping of ship	ING-IND/01	6
Topography and Hydrography	ICAR/06	6
Space Technologies Applied to the Environment	FIS/05	6
Technologies of construction and outfitting of ships	ING-IND/02	6
Area Climate Sciences		
Methodologies and Techniques of Coastal Oceanography	GEO/12	6
Space Technologies Applied to the Environment	FIS/05	6
Stratigraphy and paleoclimate	GEO/02	6
Transport and diffusion in the ocean and in the atmosphere	GEO/12	6

(*) Single examination