



Faculty of Science

Web site: <http://facolta.unica.it/scienze/>

Academic Year 2018/2019

1. Degree Programmes A.Y. 2018/2019

In academic year 2018/2019 the Faculty of Science offers the following degree programmes:

Bachelor's degree programmes (Italian course classification)	Web site
Chemistry (L-27)	http://people.unica.it/chimica/
Physics (L-30)	http://corsi.unica.it/fisica/
Informatics (L-31)	http://corsi.unica.it/informatica/
Geology (L-34)	http://corsi.unica.it/scienzegeologiche/
Mathematics (L-35)	http://corsi.unica.it/matematica/
Master's Degrees Programmes	Website
Physics (LM-17)	http://corsi.unica.it/fisica/
Informatics (LM-18)	http://corsi.unica.it/informatica/
Mathematics (LM-40)	http://corsi.unica.it/matematica/
Chemistry (LM-54)	http://people.unica.it/chimica/
Geological Sciences and Technologies (LM-74)	http://corsi.unica.it/scienzeetecnologiegeologiche/



2. Admission

Bachelor's degrees

Bachelor's Degree Programmes have free enrollment with a placement test.

Minimum qualification required: Five-year high school diploma

Degree Programme (University code)	Test date	Access	Number of students admitted	
			total	Foreign students (<i>non EU + Chinese Marco Polo programme</i>)
Chemistry (L-27)	19/07/2018 03/09/2018	Free access	Free	8+2
Physics (L-30)		Free access	Free	6+4
Informatics (L-31)		Local access	150	0
Geology (L-34)		Free access	Free	8+2
Mathematics (L-35)		Free access	Free	8+2

The admission to the chosen programme depends on the personal position in the list of candidates passing the entrance test.

More information is available (in Italian language) on the [Faculty web site](#), or <http://people.unica.it/orientamento/bandi-di-selezione/>

All the administrative procedures to enroll are available at link [Servizi online agli studenti](#).

Master'S Degrees

Master'S Degrees Programmes have free enrollment with a placement test.

Minimum qualification required: Bachelor's Degree

Degree Programme (University code)	Test date	Access	Number of students admitted	
			total	Foreign students (<i>non EU + Chinese Marco Polo programme</i>)
Physics (LM-17)	14/09/2018	Free access	Free	10
Informatics (LM-18)	21/09/2018	Local Access	40	5
Mathematics (LM-40)	17/09/2018	Free Access	Free	8 + 2
Chemistry (LM-54)	21/09/2018	Free Access	Free	9 + 1
Geological Sciences and Technologies (LM-74)	21/09/2018	Free Access	Free	8 + 2



3. Compulsory Supplementary Education (CSE) – Bachelor degrees

BACHELOR DEGREES IN HEALTH PROFESSIONS

A test result below the pass threshold (score < 22.5), for candidates in useful position in the list, causes assignment of compulsory supplementary education (CSE) in the subject of Biology, Chemistry and Physics.

4. Teaching calendar and course schedule

Teaching calendar is online on Faculty web site at the menu calendar and schedule >
<http://facolta.unica.it/medicinaechirurgia/didattica-2/calendari-e-orari/>.

First semester: to be defined

Second semester: to be defined

Course schedule is online on Faculty web site at the menu calendar for every course of study >

Bachelor's degree programmes	Web site
Chemistry (L-27)	http://people.unica.it/chimica/calendario-e-orari/
Physics (L-30)	http://corsi.unica.it/fisica/calendarioeorari/
Informatics (L-31)	http://corsi.unica.it/informatica/calendario-e-orari/
Geology (L-34)	http://corsi.unica.it/scienzegeologiche/calendario-e-orari/
Mathematics (L-35)	http://corsi.unica.it/matematica/calendario-e-orari/
Master's Degree Programmes	Web Site
Physics (LM-17)	http://corsi.unica.it/fisica/calendarioeorari/
Informatics (LM-18)	http://corsi.unica.it/informatica/calendario-e-orari/
Mathematics (LM-40)	http://corsi.unica.it/matematica/calendario-e-orari/
Chemistry (LM-54)	http://people.unica.it/chimica/calendario-e-orari/
Geological Sciences and Technologies (LM-74)	http://corsi.unica.it/scienzeetecnologiegeologiche/calendario-e-orari/



5. Course attendance

The course attendance is mandatory.

6. Exam sessions

All information about exam calendar and registration are online on the Faculty web site at the menu calendar and schedule > [exam calendar](#).

Exam schedule is also on Unica web at link [Servizi online agli studenti - Exams](#).

To register to an exam on-line, go to [Servizi online agli studenti](#) – Login, using your University User ID and Password.

9. Teaching courses a.y. 2018/2019

The teaching courses in academic year 2018/2019 are available in Annex A, for each degree programme.



**Annex A- Degree Programmes and teaching courses available in
A.Y. 2018/2019**

Chemistry	–	L-27
Physics	–	L-30
Informatics	–	L-31
Geology	–	L-34
Mathematics	–	L-35
Physics	–	LM-17
Informatics	–	LM-18
Mathematics	–	LM-40
Chemistry	–	LM-54
Geological Sciences and Technologies	–	LM-74

The most courses are taught in Italian language, only the courses with the English flag are taught in English language.

Abbreviations

SSD	Scientific Disciplinary Sector
TAF	Type of Educational Activity



Chemistry (L-27)

First year – enrolled student a.y. 2018/2019

Se m	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	SM/0149	General and Inorganic Chemistry + Lab	CHIM/03	A	13	124	
1	SM/0091	Maths 1	MAT/07	A	6	48	Francesco Demontis
2	SM/0092	Maths 2	MAT/07	A	6	48	
2	60/58/178	Organic Chemistry 1	CHIM/06	A	7	56	Enzo Cadoni
2	60/58/157	Analytical Chemistry 1 (mod. I + II) + Lab	CHIM/01	A	12	128	Davide Atzei Marzia Fantauzzi
2	60/58/158	Experimental Physics 1	FIS/01	A	6	48	Paolo Ruggerone
	60/58/155	Computer Skills	INF/01	F	3		
	SM/0142	Language Skills		E	3		



Second year – enrolled student a.y. 2017/2018 (CHEMISTRY FIELD)

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	SM/0093	Maths 3	MAT/07	C	6	48	Sebastiano Pennisi
1	60/58/159	Inorganic Chemistry + Lab	CHIM/03	B	12	112	Arca Massimiliano
1	SM/0116	Physical Chemistry 1 + Lab	CHIM/02	B	6	64	Silvia Porcedda
1	SM/0115	Physical Chemistry 1	CHIM/02	A	6	48	Anna Maria G. Musinu
1	60/58/1562	Organic Chemistry Lab 1	CHIM/06	B	5	60	Angelo Frongia
2	60/58/161	Experimental Physics 2	FIS/01	A	6	48	
2	SM/0118	Organic Chemistry 2 + Lab	CHIM/06	B	6	72	Claudia Fattuoni
2	SM/0117	Organic Chemistry 2	CHIM/06	A/B	6	48	Andrea Porcheddu
2	60/58/165	Biochemistry	BIO/10	C	6	48	Enrico Sanjust

Second year – enrolled student a.y. 2017/2018 (MATERIAL SCIENCE FIELD)

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	SM/0093	Maths 3	MAT/07	C	6	48	Sebastiano Pennisi
1	SM/0116	Physical Chemistry 1 + Lab	CHIM/02	B	6	64	Silvia Porcedda
1	SM/0115	Physical Chemistry 1	CHIM/02	A	6	48	Anna Maria G. Musinu
2	60/58/161	Experimental Physics 2	FIS/01	A	6	48	
	SM/0030	Inorganic Chemistry and Material Chemistry LAB	CHIM/03	B	12	96	
	SM/0031	Material Organic Chemistry LAB	CHIM/06	A/B	8	64	
	SM/0033	Material and Solid State Structure	FIS/03	C	9	72	



Third year – enrolled student a.y. 2016/2017

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
		Chemistry Field					
2	60/58/165	Biochemistry	BIO/10	C	6	48	Enrico Sanjust
1	60/58/174	Physical Chemistry 2	CHIM/02	B	6	48	Gabriele Navarra
		Material Science Field					
	SM/0032	Physics of Materials Lab	FIS/01	C	6	48	
1	60/59/241	Physical Chemistry of Materials	CHIM/02	B	6	48	
		Common field					
1	60/58/175	Physical Chemistry 2 +LAB	CHIM/02	B	6	64	Flaminia Cesare Marincola
1	60/58/167	Industrial Chemistry + Lab	CHIM/04	B/C	12	108	Roberto Monaci
		Elective Activities			12		
	60/58/168	Internship		F	15		
	60/58/169	Final Examination	PROFIN_S	E	2		



Physics (L-30)

First year – enrolled student a.y. 2018/2019

Se m	Code course	Teaching course	SSD	T A F	E C T S	H	Teacher
1	60/60/137	Geometry	MAT/03	A	8	64	Maria Paola Piu
1	60/60/136	Mathematical Analysis 1	MAT/05	A	12	96	Antonio Greco
1/2	60/60/134	Physics Lab 1	FIS/01	A	12	144	Carlo Maria Carbonaro
	SM/0142	Linguistic Skills		E	3		
1	60/60/138	Elements of Informatics	INF/01	F	5	40	Sabyasachi Siddhanta
2	60/60/135	Chemistry	CHIM/03	A	6	48	Maria Francesca Casula
2	60/60/133	General Physics 1	FIS/01	A	12	96	Gianluca Usai

Second year – enrolled student a.y. 2017/2018

Se m	Code course	Teaching course	SSD	T A F	E C T S	H	Teacher
1	60/60/142	Mathematical Analysis 2	MAT/05	A/C	6	48	Monica Marras
1	60/60/140	General Physics 2	FIS/01	B	12	96	Biagio Saitta
1/2	60/60/141	Physics Lab 2	FIS/01	B	12	144	Francesco Quochi
2	60/60/144	Mathematical Methods of Physics	FIS/02	B	12	96	Mariano Cadoni
2	60/60/139	Computational Physics	FIS/03	C	5	40	Vincenzo Fiorentini
2	60/60/143	Rational Mechanics	MAT/07	C	8	64	Salvatore Mignemi
		Elective Activities			6		



Third year – enrolled student a.y. 2016/2017

Se m	Code course	Teaching course	SSD	TAF	E C T S	H	Teacher
1	60/60/149	Astronomy and Astrophysics	FIS/05	B	9	72	Luciano Burderi
1	60/60/146	Theoretical Physics	FIS/02	B	12	96	Umberto D'Alesio
1/2	60/60/145	Physics Lab 3	FIS/01	B	12	144	Michele Saba
		Elective Activities			6		
2	60/60/147	Structure of Substance	FIS/03	B	9	72	Fabio Bernardini
2	60/60/148	Nuclear and Subnuclear Physics	FIS/04	B	9	72	Alessandro De Falco
2	60/60/151	Final Examination	PROFIN_S	E	4		



Informatics (L-31)

First year – enrolled student a.y. 2018/2019

Se m	Code course	Teaching course	SSD	TAF	E C T S	H	Teacher
1	60/61/113	Discrete Maths	MAT/03	A	9	72	Fabio Zuddas
1	60/61/114	Informatics	INF/01	A	6	48	Puglisi Giovanni
1	60/61/115	Programming 1	INF/01	A	12	120	Riccardo Scateni Fabio Sorrentino
	SM/0142	Linguistic Skills		F	3		
2	SM/0094	Mathematical Analysis	MAT/05	A	9	72	Giuseppe Vigliodoro
2	60/61/117	Algorithms and Data structures 1	INF/01	B	9	84	Cecilia di Ruberto
2	60/61/118	Computer Architecture	INF/01	B	6	48	Diego Angelo Reforgiato
2	60/61/119	Physics and Scientific Methods	FIS/01	A	6	48	Giulia Manca

Second year – enrolled student a.y. 2017/18

Se m	Code course	Teaching course	SSD	T A F	E C T S	H	Teacher
1	60/61/122	Robot and Formal Languages	INF/01	B	6	48	Massimo Bartoletti
1	60/61/121	Operating Systems 1	INF/01	B	12	120	Salvatore Mario Carta Silvio Barra
1	60/61/120	Scientific Calculation and Numerical Methods	MAT/08	C	6	48	Fermo Luisa
1	60/61/132	Elements of Economy and Law for Informatics: Economy Law	SECS-P/01 IUS/04	C	6	48	Fabio Iunio Botta Carla Zuddas
2	60/61/123	Computer Networks	INF/01	B	9	84	Gianni Fenu
2	60/61/124	Programming 2	INF/01	B	9	84	Maurizio Atzori
2	SM/0084	Data and Models	INF/01	C	6	48	Massimo Di Francesco
2	SM/0085	Web Programming	INF/01	D	6	72	Lucio Davide Spano



Third year – enrolled student a.y. 2016/2017

Se m	Code course	Teaching course	SSD	T A F	E C T S	H	Teacher
1	60/61/128	Programming Languages	INF/01	B	9	84	Giovanni Michele Pinna
1	60/61/127	Databases 1	INF/01	B	9	84	Daniele Riboni
1	60/61/129	Man-Machine Interaction	INF/01	B	6	60	Lucio Davide Spano
1	SM/0095	Video Game Design	INF/01	D	6	60	Riccardo Scateni
2	60/61/131	Software Engineering	INF/01	B	9	84	Michele Marchesi
	60/61/203	Internship		F	15		
	60/61/204	Final Examination	PROFIN_S	E	6		



Geology (L-34)

First year – enrolled student a.y. 2018/2019

Se m	Code course	Teaching course	SSD	T A F	E C T S	H	Teacher
1	60/63/41	Geology	GEO/02	A	9	80	Alfredo Loi
1	60/63/39	Inorganic and general Chemistry	CHIM/03	A	8	72	Francesco Isaia
1/2	60/63/42	Physical Geography and Cartography:	GEO/04	A	12	120	Angelo Ibba Rita Teresa Melis
1/2	60/63/58	Maths and Statistics	MAT/04	A	9	72	Maria Polo
1/2	60/63/40	Physics	FIS/01	A	8	72	Rudolf Oldeman
	SM/0142	Linguistic Skills (English B1)		E	3		
2	60/63/43	Paleontology	GEO/01	B	9	88	Gian Luigi Pillola



Second year – enrolled student a.y. 2017/2018

Se m	Code course	Teaching course	SSD	T A F	E C T S	H	Teacher
1	60/63/49	Mineralogy	GEO/06	B	9	84	Franco Frau
1	60/63/51	Geochemistry	GEO/08	B	7	60	Rosa Cidu
2	60/63/47	Geomorfology	GEO/04	B	9	84	Paolo Emanuele Orrù
1	60/63/214	Geographical Information System in Geology	ING-INF/05	A	6	48	Maria Teresa Melis
2	60/63/44	Sedimentary Geology	GEO/02	B	9	72	Luciano Lecca
2	60/63/50	Petrography + Lab	GEO/07	B	12	112	Marcello Franceschielli Gabriele Cruciani
		Elective Activities			12		



Third year – enrolled student a.y. 2016/2017

Se m	Code course	Teaching course	SSD	T A F	EC TS	H	Teacher
1	60/63/45	Geological Survey	GEO/02	B	7	68	Luca Giacomo Costamagna
2	60/63/48	Applied Geology	GEO/05	B	9	84	Stefania Da Pelo
1	60/63/46	Structural Geology	GEO/03	B	8	80	Antonio Luca Funedda
2	60/63/53	Geophysics	GEO/10	B	9	88	Silvana Fais
2	60/63/57	Pedological Elements	AGR/14	C	6	60	Andrea Vacca
1	SM/0002	Mineral Georisources	GEO/09	C	6	60	Columbu Stefano
1	60/63/59	Applied Petrography	GEO/07	C	6	56	Columbu Stefano
	60/63/211	Internship		F	3		
	60/63/213	Final Examination	PROFIN_S	E	4		



Mathematics (L-35)

First year – enrolled student a.y. 2018/2019

Se m	Code course	Teaching course	SSD	T A F	EC TS	H	Teacher
1	60/64/170	Algebra 1	MAT/03	A	8	64	Stefano Montaldo
1	SM/0025	Mathematical Analysis 1	MAT/05	A	12	96	Lucio Cadeddu
2	60/64/180	Physics 1	FIS/01	A	12	96	Francesco Dettori Andrea Sanna
1	60/64/172	Geometry 1	MAT/03	A	8	64	Beniamino Cappelletti Montano
2	60/64/174	Geometry 2	MAT/03	A	8	64	Irene Ignazia Onnis
2	60/64/175	Informatics	INF/01	A	8	64	Roberto Tonelli
	SM/0119	Linguistic Skills (A2)		F	3		
	SM/0120	Linguistic Skills (B1)		F	3		

Second year – enrolled student a.y. 2017/2018

Se m	Code course	Teaching course	SSD	T A F	EC TS	H	Teacher
1	SM/0026	Mathematical Analysis 2	MAT/05	A/B	10	80	Fabrizio Cuccu
2	SM/0027	Mathematical Analysis 3	MAT/05	B	10	80	Antonio Greco
1	60/64/178	Geometry 3	MAT/03	B	8	64	Gianluca Bande
1	60/64/179	Numerical Analysis	MAT/08	B	12	96	Daniela Lera
2	60/64/187	Physics 2	FIS/01	C	12	96	Umberto D'Alesio Giulia Manca
2	60/64/183	Mechanics 1	MAT/07	B	8	64	Sebastiano Pennisi



Third year – enrolled student a.y. 2016/2017

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	60/64/184	Algebra 2	MAT/02	B	8	64	Andrea Loi
1	60/64/186	Probability Calculation	MAT/06	B	7	56	Monica Musio
1	60/64/185	Mechanics 2	MAT/07	B	8	64	Francesco Demontis
2	60/64/182	Geometry 4	MAT/03	B	8	64	Stefano Montaldo
2	60/64/188	Statistics	SECS-S/01	C	7	56	Monica Musio
		Elective Activities			12		
2	60/64/189	Final Examination	PROFIN_S	E	8		



Master's Degree Programmes

Physics (LM/17)

First year – enrolled student a.y. 2018/2019

Se m	Code course	Teaching course	SSD	T A F	E C T S	H	Teacher
1	60/68/11	Advanced Quantum Mechanics	FIS/02	B	9	72	Francesco Murgia
1	60/68/1	Statistical Mechanics	FIS/03	B	9	72	Paolo Ruggerone
1/2	60/68/13	Lab 1	FIS/01	B	10	120	Guido Mula Alessandro Riggio Corrado Cicalò
1	60/68/7	Relativistic Electrodynamics	FIS/01	B	6	48	Gianluca Usai
2	60/68/16	Lab 2	FIS/01	B	6	72	Alessandro Cardini
2	SM/0054	Physics of Elementary Particles	FIS/04	B	6	48	Biagio Saitta
2	SM/0042	Physics of Matter	FIS/03	B	6	48	Giorgio Concas
2	SM/0043	Data Analysis and Statistical Methods	FIS/04	B	6	48	Alessandro De Falco
2	SM/0050	Quantum Matter Theory	FIS/03	B	6	48	Giancarlo Cappellini
2	SM/0044	Theory of Quantum fields	FIS/02	C	6	48	Cristian Pisano
2	60/68/3	Astrophysics	FIS/02	C	6	48	Riggio Alessandro



Second year – enrolled student a.y. 2017/18

Se m	Code course	Teaching course	SSD	T A F	E C T S	H	Teacher
		Elective activities		D	12		
		Others activities			1		
1	60/68/14	High Energy Astrophysics	FIS/05	C	6	48	Luciano Burderi
1	SM/0048	Biophysics	FIS/07	C	6	48	Ceccarelli Matteo
2	SM/0049	Phenomenology of Standard Model	FIS/02	C	6	48	
1	60/68/23	Astroparticle Physics	FIS/02	C	6	48	Lissia Marcello
1	SM/0047	Photonics	FIS/01	C	6	48	Giovanni Luigi C. Bongiovanni
2	60/68/9	Radioastronomy Lab	FIS/05	C	6	72	D'amico Niccolò
2	SM/0051	Lab 3	FIS/01	C	6	72	Geddo Lehmann Alessandra
1	SM/0045	Electronic Systems in Experimental Physics	FIS/01	C	6	48	Adriano Lai
1	SM/0070	Medical Physics	FIS/07	C	6	48	Randaccio Paolo
2	SM/0145	Methodologies and Didactical Technologies for Physics	FIS/01	D	6	48	Carbonario Carlo Maria Saba Michele Usai Gianluca
2	SM/0144	General Relativity	FIS/02	D	6	48	Cadoni Mariano
	SM/0046	Gauge Theories	FIS/02	C	6	48	
2	60/68/18	Final Examination	PROFIN_S	E	37	370	

Other elective exams from other courses:

Molecular Biology (8cfu);
Molecular Structures of Proteins (6cfu);
Physical Chemistry 1 (6cfu);
Physical Chemistry 1 Lab (6cfu);
Theory and Applications of NMR Spectroscopy (6cfu);
Physical Chemistry of solid state (6cfu);
Inorganic Chemistry + Lab (6+6cfu);
Data Mining (6cfu);
Elaboration and Analysis of Images (9cfu);
Superior Analysis (9cfu);
Mathematical Physics (9cfu);
Dynamics Systems (6cfu);
Integrated Circuits(5+5cfu);
Artificial Intelligence (5cfu)



Informatics (LM/18)

First year – enrolled student a.y. 2018/2019

Se m	Code course	Teaching course	SSD	T A F	ECTS	H	Teacher
1	60/73/3	Elaboration and Analysis of Images	INF/01	B	9	72	Cecilia di Ruberto
1	SM/0096	Geometric Algorithms and Spatial Data Structures	INF/01	B	9	72	Riccardo Scateni
1	SM/0097	Advanced Data Management	INF/01	B	6	48	Daniele Riboni
1	SM/0103	Cybersecurity	INF/01	B	6	48	Massimo Bartoletti
	SM/0141	Linguistic Skills (B2)		F	3		
2		Elective activities			6		
2		Seminars			3		
2	SM/0101 SM/0102 60/15 SM/0098 SM/0086 SM/0099 SM/0100	Three Exams among: Decision Science Computational Mathematics Data Mining Advanced Programming Techniques Computer Vision User Interface Technologies Embedded Systems for Internet of things	MAT/09 MAT/08 INF/01 INF/01 INF/01 INF/01 INF/01	C C B B B B B	6+6+6		Paola Zuddas Giuseppe Rodriguez Barbara Pes Michele Marchesi Giovanni Puglisi Lucio D. Spano Salvatore M. Carta

Second year – enrolled student a.y. 2017/18

Se m	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	SM/0125 SM/0121 SM/0122 SM/0123 SM/0124	Four exams among: Mathematical Logic Network Flows Optimization Formal Methods Networking Architecture Big Data	MAT/01 MAT/09 INF/01 INF/01 INF/01	C C B B B	6+6+6+6		Hector C. Freytes M. Di Francesco G.M. Pinna Gianni Fenu Reforgiato R. Diego
1		Elective activities			6		
2	60/61/204	Final Examination	PROFIN_S	E	30		



Mathematics (LM/40) General field

First year – enrolled student a.y. 2018/2019

Se m	Code course	Teaching course	SSD	T A F	E C T S	H	Teacher
1	SM/0104	Superior Analysis 1	MAT/05	B	9	72	Claudia Anedda
1	SM/0105	Differential Geometry	MAT/03	B	9	72	Caddeo Renzo Ilario
1	SM/0106	Mathematical Physics	MAT/07	B	9	72	C.V.M. Van Der Mee
2	SM/0107	Superior Analysis 2	MAT/05	B	9	72	Antonio Iannizzotto
2	SM/0108	Riemann Geometry	MAT/03	B	9	72	Beniamino Cappelletti Montano
2	SM/0109	Algebraic Topology	MAT/03	B	9	72	Gianluca Bande
		Elective Exam (Table A)			6		



Second year – enrolled student a.y. 2017/18

Se m	Code course	Teaching course	SSD	T A F	EC TS	H	Teacher
2	60/65/197	Relativity	MAT/07	B	9	72	Francesco Demontis
1	SM/0127	History and Epistemology of Maths	MAT/04	B	9	72	Maria Polo
		Elective activities		D	12		
	60/65/267	Other activities			6		
	60/65/202	Final Examination	PROFIN_S	E	18		
		Elective Exam (Table A)			6		

Table A (6CFU)

1	SM/0128	Elements of Probability and Statistic	SECS-S/01	C	6	48	Silvia Columbu
1	SM/0129	Arithmetic and Logics	MAT/02	C	6	48	Marina Mureddu
2	SM/0130	Dynamics Systems	MAT/07	C	6	48	C.V.M. Van Der Meer
2	SM/0110	Differential Topology	MAT/03	C	6	48	Andrea Loi
2	SM/0131	Didactics of Maths	MAT/04	C	6	48	Maria Polo
2	SM/0035	Complements of Geometry and Algebra	MAT/03	C	6	48	Andrea Loi
2	SM/0133	Geometric Modellation and 3D print	MAT/03	C	6	48	



Application field

First year – enrolled student a.y. 2018/2019

Se m	Code course	Teaching course	SSD	T A F	E C T S	H	Teacher
1	SM/0104	Superior Analysis 1	MAT/05	B	9	72	Claudia Anedda
1	SM/0105	Differential Geometry	MAT/03	B	9	72	
1	SM/0106	Mathematical Physics	MAT/07	B	9	72	C.V.M. Van Der Mee
2	SM/0026	Superior Analysis 2	MAT/05	B	9	72	Fabrizio Cuccu
2	SM/0108	Riemann Geometry	MAT/03	B	9	72	Beniamino Cappelletti Montano
2	SM/0077	Algorithms Numbers and Application	MAT/08	B	6	48	Giuseppe Rodriguez
½		Elective Exam (Table B)			6+6		



Second year – enrolled student a.y. 2017/18

Se m	Code course	Teaching course	SSD	T A F	EC TS	H	Teacher
1	SM/0132	Operative Research	MAT/09	B	9	72	
½		Elective activities			12		
		Other activities			6		
		Final Examination	PROFIN_S	E	18		
	60/65/202	Elective Exam (Table B)			6+6		

Table B (6CFU)

1	SM/0128	Elements of Probability and Statistic	SECS-S/01	C	6	48	Silvia Columbu
1	SM/0134	Non-linear Constrained Optimization	MAT/09	C	6	48	Enrico Gorgone
2	SM/0130	Dynamics Systems	MAT/07	C	6	48	C.V.M. Van Der Meer
2	60/9	Algorithms and Data Structures	INF/01	C	6	48	Cecilia Di Ruberto
2	60/15	Data Miming	INF/01	C	6	48	Barbara Pes
2	SM/0135	Programming 2	INF/01	C	6	48	Maurizio Atzori
2	SM/0133	Geometric Modellation and 3D print	MAT/03	C	6	48	
	SM/0136	Optimized numeric methods for Applied Sciences	MAT/08	C	6	48	
	SM/0137	HPC for great scale problems	MAT/08	C	6	48	



Chemistry (LM/54)

First year – enrolled student a.y. 2018/2019

Se m	Code course	Teaching course	SSD	TAF	E C T S	H	Teacher
1	60/69/24	Analytical Chemistry + Lab	CHIM/01	B	6	60	Antonella Rossi
1	SM/0078	Physical Chemistry of interphases + Lab	CHIM/02	B/C	12	104	Maura Monduzzi Andrea Salis
2	60/69/22	Analytical Chemistry – Equilibrium in solution	CHIM/01	B	6	48	Tiziana Pivetta
1	60/69/20	Coordination Chemistry 1 + Lab	CHIM/03	B	6	56	Maria Carla Aragoni
2	60/69/21	Coordination Chemistry 2 + Lab	CHIM/03	B	6	56	Maria Carla Aragoni
2	SM/0074	Planning and Synthesis + Lab: advanced organic Chemistry	CHIM/06	B	6	56	Andrea Porcheddu
2	SM/0080	6 cfu among: Environmental Chemistry	CHIM/02 CHIM/06	B	6	48	Andrea Salis Andrea Porcheddu
	SM/0147	Catalysis	CHIM/04		6	48	Elisabetta Rombi
2	SM/0079	Theory and applications of NMR Spectroscopy	CHIM/02	B	6	56	



Second year – enrolled student a.y. 2017/18

Se m	Code course	Teaching course	SSD	T A F	EC TS	H	Teacher
1	60/69/27	Physical Chemistry of solid state + Lab	CHIM/02	B	6	56	Anna Maria Giovanna Musinu
1	SM/0075	Planning and Synthesis + Lab: strategies of synthesis	CHIM/06	B	6	56	Enzo Cadoni
1	60/69/14	Eco-sustainable industrial processes	CHIM/04	C	6	48	M.G. Cutrufello
1/2	SM/0138	Nanophase and Molecular Materials	CHIM/03	C	6	64	M.L. Mercuri C. Cannas
		Elective activities			8		
	60/69/19	Other activities			3		
	60/69/18	Internship			30		
	60/69/17	Final Examination	PROFIN_S	E	7		



Geological Sciences and Technologies (LM-74)

First year – enrolled student a.y. 2018/2019

Se m	Code course	Teaching course	SSD	T A F	EC TS	H	Teacher
1	SM/0009	Stratigraphy of Sedimentary Basins	GEO/02	B	12	108	Alfredo Loi Luciano Lecca
2	SM/0014	Regional Geography and Crystalline Petrography	GEO/02 GEO/07	B	12	110	Stefano Andreucci Marcello Franceschielli
2	SM/0066	Applied Hydrogeology and Instability of Slopes	GEO/05	B	12	112	Giorgio Ghiglieri
1/2	60/67/115 SM/0016 SM/0018 60/67/92 60/67/95 SM/0111	24 CFU among: Applied Micropaleontology (6cfu) Geoarcheology (6cfu) Applied Geomorphology (6cfu) Environmental Mineralogy (6cfu) Hydrogeochemistry (6cfu) Economic Geology (6cfu)	GEO/01 GEO/04 GEO/04 GEO/06 GEO/08 GEO/09	B	24		C. Corradini R.T. Melis P. Orrù G. De Giudici R. Cidu S. Naitza



Second year – enrolled student a.y. 2017/18

Se m	Code course	Teaching course	SSD	T A F	ECTS	H	Teacher
1	60/67/97	Geotechnical	ICAR/07	C	6	56	Salvatore Pistis
1	60/67/98	Geophysical Techniques ofr characterization of Materials	GEO/10	C	6	62	Silvana Fais
1	60/67/89	Tectonics and Geodynamics	GEO/03	B	6	52	Funedda Antonio
½		Elective Activities			12		
½	60/67/241	Internship		F	6		
2	SM/0126	Multidisciplinary field	GEO/01 GEO/02 GEO/03	B	5	60	Alfredo Loi G. Luigi Pillola A. Luca Funedda
2	60/67/242	Final Examination	PROFIN_S	E	25		



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