PAA 1 ELN — **MODELLI COMPUTAZIONALI IN ELETTRONICA E BIOMATEMATICA (Computational models in electronics and biomathematics)**

n.	CAT	SEM	SSD	COD	INSEGNAMENTO / COURSE	CFU
1	OB	1	MAT/05	095958	Real and functional analysis	8
2	OB	1	ING-INF/05	052496	Algorithms and parallel computing	10
3	MTM	2	MAT/05	095963	Advanced partial differential equations	8
4	MA	2	MAT/08	052497	Numerical analysis for partial differential equations	10
5	MA	2	MAT/08	095965	Advanced programming for scientific computing	10
6	ING	1	ING-INF/01	085930	Elettronica (10 CFU)	10
		2	ING-INF/01	085999	Elettronica dello stato solido (10 CFU)	
7	MTM	1 o 2			*a scelta dalla Tabella / to be chosen from Group MTM*	8
					Tot	**64**

ANNO YEAR 1

n.	CAT	SEM	SSD	COD	INSEGNAMENTO / COURSE	CFU
8	MA	1	MAT/07+MAT/08	097634	Computational fluid dynamics	10
9	ING	1	ING-INF/01	095155	Electron devices (10 CFU)	10
		1	ING-INF/01	095162	MEMS and microsensors (10 CFU)	
10	SC	2	MAT/08	096659	Computational modeling in electronics and biomathematics	8
11	MTM	1 o 2			*a scelta dalla Tabella / to be chosen from Group MTM*	8
12	SC	1 o 2			*a scelta dalla Tabella / to be chosen from Group FREE*	8
		1 o 2		097690	Prova finale / Final work	12
					Tot	**56**

ANNO YEAR 2

TABELLE / GROUPS

	SEM	SSD	COD	INSEGNAMENTO / COURSE	CFU	Note / Notes
MTM	1	MAT/05	095973	Discrete dynamical models	8	Activation in the a.y. 2018/19 and alternate years after
	1	MAT/05	052503	Game theory	8	
	1	MAT/07	097660	Methods and models for statistical mechanics	8	Activation in the a.y. 2017/18 and alternate years after
	1	MAT/06	095975	Stochastic differential equations	8	
	1	MAT/06	095966	Stochastic dynamical models	8	
	2	MAT/05	095963	Advanced partial differential equations	8	
	2	MAT/07	097661	Biomathematical modeling	8	
	2	MAT/05	097673	Calculus of variations	8	Activation in the a.y. 2017/18 and alternate years after
	2	MAT/08	096659	Computational modeling in electronics and biomathematics	8	
	2	MAT/03	093153	Geometria differenziale	8	Activation in the a.y. 2018/19 and alternate years after
	2	MAT/09	095972	Optimization	8	
FREE	1	ING-INF/03	095978	Audio and video signals	8	
	1	MAT/06+SECS-S/01	052502	Bayesian statistics	8	
	1	MAT/08+SECS-S/06	097667	Computational finance	8	
	1	MAT/07+MAT/08	052030	Computational fluid dynamics	8	
	1	ING.IND/16	097482	Design and analysis of experiments A	8	
	1	MAT/05	095973	Discrete dynamical models	8	Activation in the a.y. 2018/19 and alternate years after
	1	ICAR/09	098512	Engineering seismology	8	
	1	MAT/05	052503	Game theory	8	
	1	GEO/11	098637	Geophysical data processing	8	
	1	ICAR/07+ICAR/08	051676	Meccanica computazionale per i geomateriali	8	
	1	MAT/07	097660	Methods and models for statistical mechanics	8	Activation in the a.y. 2017/18 and alternate years after
	1	MAT/08+SECS-S/01	098516	Numerical and statistical methods in geosciences	10	
	1	FIS/03	097670	Plasma physics	8	
	2	MAT/08	052504	Advanced numerical methods for coupled problems with application to living systems	8	
	2	MAT/08	095976	Advanced programming for scientific computing	8	

2	SECS-S/01	095977	Applied statistics	8	
2	MAT/07	097661	Biomathematical modeling	8	
2	MAT/05	097673	Calculus of variations	8	Activation in the a.y. 2017/18 and alternate years after
2	MAT/08	096659	Computational modeling in electronics and biomathematics	8	
2	ING-INF/05	097676	Economics and computation	6	
2	ING-IND/35	052397	Energy and climate change modeling and scenarios	8	
2	SECS-S/06	052505	Financial engineering	8	
2	FIS/01	088933	Fisica quantistica	8	
2	MAT/03	093153	Geometria differenziale	8	Activation in the a.y. 2018/19 and alternate years after
2	ICAR/01	098513	Groundwater hydraulics	8	
2	SECS-S/06	052506	Insurance & econometrics	10	
2	SECS-S/06	95980	Mathematical finance II	8	
2	MAT/09	095972	Optimization	8	