

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

| | n. | CAT | SEM | SSD | COD | INSEGNAMENTO | tot |
|---------------|-----|-------|-----|------------|-----------------------------------|---|-----------|
| ANNO 1 | 1 | OB | 1 | MAT/05 | 95958 | Real and functional analysis | 8 |
| | 2 | OB | 1 | ING-INF/05 | 95959 | Algorithms and parallel computing | 10 |
| | 3 | MTM | 2 | MAT/05 | 95963 | Advanced partial differential equations | 8 |
| | 4 | MA | 2 | MAT/08 | 95964 | Numerical analysis for partial differential equations | 10 |
| | 5 | MA | 2 | MAT/08 | 95965 | Advanced programming for scientific computing | 10 |
| | 6 | ING | 1 | ING-INF/01 | 85930 | Elettronica (10 CFU) | 10 |
| | | | 2 | ING-INF/01 | 85999 | Elettronica dello stato solido (10 CFU) | |
| 7 | MTM | 1 o 2 | | | <i>a scelta dalla Tabella MTM</i> | 8 | |
| | | | | | | Totale CFU 1° anno | 64 |

| | n. | CAT | SEM | SSD | COD | INSEGNAMENTO | tot |
|---------------|----|-------|-------|---------------|--------------|--|-----------|
| ANNO 2 | 8 | MA | 1 | MAT/07+MAT/08 | 97634 | Computational fluid dynamics | 10 |
| | 9 | ING | 1 | ING-INF/01 | 95155 | Electron devices (10 CFU) | 10 |
| | | | 1 | ING-INF/01 | 95162 | MEMS and microsensors (10 CFU) | |
| | 10 | SC | 2 | MAT/08 | 96659 | Computational modeling in electronics and biomathematics | 8 |
| | 11 | MTM | 1 o 2 | | | <i>a scelta dalla Tabella MTM</i> | 8 |
| | 12 | SC | 1 o 2 | | | <i>a scelta dalla Tabella SC</i> | 8 |
| | | 1 o 2 | | 86304 | Prova finale | 12 | |
| | | | | | | Totale CFU 2° anno | 56 |

| TABELLE | | | | | | |
|------------|--------|------------------|-------------------------|--|--|--|
| | SEM | SSD | COD | INSEGNAMENTO | CFU | Note |
| MTM | 1 | MAT/05 | 95973 | Discrete dynamical models | 8 | |
| | 1 | MAT/05 | 95974 | Game theory | 8 | |
| | 1 | MAT/07 | 97660 | Methods and models for statistical mechanics | 8 | |
| | 1 | MAT/06 | 95975 | Stochastic differential equations | 8 | |
| | 1 | MAT/06 | 95966 | Stochastic dynamical models | 8 | |
| | 2 | MAT/05 | 95963 | Advanced partial differential equations | 8 | |
| | 2 | MAT/07 | 97661 | Biomathematical modeling | 8 | |
| | 2 | MAT/03 | 93153 | Geometria differenziale | 8 | Corso attivato nel 2012/13 e successivamente ad A.A. alterni |
| | 2 | MAT/09 | 95972 | Optimization | 8 | |
| | 2 | MAT/06 | 97662 | Stochastic optimal control | 8 | |
| SC | 1 | ING-INF/03 | 95978 | Audio and video signals | 8 | |
| | 1 | MAT/08+SECS-S/06 | 97667 | Computational finance | 8 | |
| | 1 | ING.IND/16 | 97482 | Design and analysis of experiments A | 8 | |
| | 1 | MAT/05 | 95973 | Discrete dynamical models | 8 | |
| | 1 | MAT/05 | 95974 | Game theory | 8 | |
| | 1 | GEO/11 | 98637 | Geophysical data processing | 8 | |
| | 1 | MAT/07 | 97660 | Methods and models for statistical mechanics | 8 | |
| | 1 | MAT/08+SECS-S/01 | 98516 | Numerical and statistical methods in geosciences | 10 | |
| | 1 | FIS/03 | 97670 | Plasma physics | 8 | |
| | 2 | MAT/08 | 95976 | Advanced programming for scientific computing | 8 | |
| | 2 | SECS-S/01 | 95977 | Applied statistics | 8 | |
| | 2 | MAT/07 | 97661 | Biomathematical modeling | 8 | |
| | 2 | MAT/05 | 97673 | Calculus of variations | 8 | Corso attivato nel 2015/16 e successivamente ad A.A. alterni |
| | 2 | MAT/08 | 96659 | Computational modeling in electronics and biomathematics | 8 | |
| | 2 | ING-INF/05 | 97676 | Economics and computation | 6 | |
| 2 | FIS/01 | 88933 | Fisica quantistica | 8 | | |
| 2 | MAT/03 | 93153 | Geometria differenziale | 8 | Corso attivato nel 2012/13 e successivamente ad A.A. alterni | |

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|---|------------------|-------|---|---|
| 2 | ICAR/01 | 98513 | Groundwater hydraulics | 8 |
| 2 | SECS-S/06 | 95980 | Mathematical finance II | 8 |
| 2 | MAT/08+SECS-S/06 | 98388 | Mathematical models and methods for financial and insurance markets | 8 |
| 2 | MAT/09 | 95972 | Optimization | 8 |
| 2 | MAT/06 | 97662 | Stochastic optimal control | 8 |