

Primary and Secondary AoS Statistical and Biological Physics (StatBio)

Coordination: B.Maier

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| | HPW | CP | SS22 | WS22/23 | SS23 | WS23/24 | SS24 | WS24/25 |
|---|---------|---------|------|---------|------|---------|------|---------|
| Core Courses | | | | | | | | |
| Biological Physics I: Molecules and Cells (Bollenbach, Maier) | 3+1(+1) | 6(+1.5) | | x | | x | | x |
| Evolutionary biology and genomics for physicists (Berg, Krug, Lässig) | 3+1(+1) | 6(+1.5) | x | | x | | x | |
| Biological Physics II: Systems (Bollenbach, Maier) | 3+1(+1) | 6(+1.5) | x | | x | | x | |
| Selected topics in statistical physics: | | | | | | | | |
| Statistical Physics of Soft Matter and Biomolecules (Gompper) | 3+1(+1) | 6(+1.5) | x | | | | | |
| Nonequilibrium statistical physics (Krug, Lässig, Schadschneider) | 3+1(+1) | 6(+1.5) | | | | | | |
| Statistical physics of disordered systems, information, and inference | 3+1(+1) | 6(+1.5) | | | | | | |
| Specialized courses | | | | | | | | |
| Computational soft matter physics (Gompper) | 2+1 | 4.5 | | | | | | |
| Probability theory and stochastic processes (Krug, Lässig, Witthaut) | 2+1 | 4.5 | | | | | | |
| Introduction to Network Science (Witthaut) | 2+1 | 4.5 | | | | | | |
| Introduction to Statistical Optics (Sperl) | 2 | 3 | | | | | | |
| Physics of Granular Matter (Sperl) | 2+1 | 4.5 | | | | | | |
| Introduction to Dynamical Systems, Chaos, and Control (Witthaut) | 3+1 | 6 | | | | | | |
| Advanced lab courses | | | | | | | | |
| Experiment and simulation of biological systems (Maier, Berg) | 3 | 4.5 | | (x) | | (x) | | (x) |
| Seminars | | | | | | | | |
| Advanced Seminar in Statistical biology and biophysics | 2 | 3 | | x | | x | | x |

x confirmed

(x) planned

Statistical and Biological Physics as Primary: two core courses, Adv. Seminar; further core courses, specialized courses.
as Secondary: lectures/courses to sum up to 12 CP.