

Primary Area of Specialization
Statistical and Biological Physics

Module No.: MN-P-SP-StatBio

status quo 08.05.2012

	HPW	estimated effort (h)	credit points
Lecture Course	9	400	16
Problem Class	2	80	
Advanced Seminar	2	120	4
Total	13	600	20

Literature

Recommendations for the individual courses will be posted on the department web pages.

Organization

The Primary AoS Statistical and Biological Physics is composed of:

1. lecture courses amounting to a total of at least 16 CP, including at least one core course
2. one advanced seminar

Examinations

The module is passed by passing an oral examination covering the topics of all attended courses. To be admitted to the exam, students must actively participate in the problem sessions (including the solution of homework problems) and present a scientific talk in the seminar course.

The grade given for the module is equal to the grade of the oral examination.

Aims

The course is intended to bring students to the forefront of current research in statistical and biological physics. Through the combination of lecture courses, problem sessions and seminars, the student is enabled to comprehend original research articles and to start actively working on novel research problems. The core courses lay the foundations in the subfield chosen for the master's thesis, while the specialized courses expose the students to a broader range of topics of current interest.

Prerequisites for Participation

None

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Theoretical physics at the level of the bachelor courses in physics, and the Master course Advanced Statistical Physics (Statistical Physics II).

Frequency

At least one core course is offered each semester. At least one specialized course is also offered each semester. Advanced seminars are offered each winter semester.

Soft Skills

Elocution and public speaking

Use in Other Courses of Study

None

Coordinators

J. Krug, M. Lässig, T. Nattermann, G. Gompper