



NATUR-
VETENSKAPLIGA
FAKULTETEN

KURSSAMMANSTÄLLNING

Datum 2020-08-11

Biologiska institutionen
Grund- och avancerad utbildning

Kursansvarig: Jörgen Ripa
Antal studenter: 49
Betyg: 2 Fail (U), 8 Pass (G), 29
Pass w distinction (VG), 10 did not
finish.
Sammanställt av: Jörgen Ripa

Course analysis BIOS13 Modeling Biological Systems, autumn 2019

Summary of the course evaluation

Number of answers: 25. Overall the students were very pleased with the course (grade 4.2). The students especially appreciated their learned skills in modelling and programming, the communication with teachers and the home exam. Some students asked for more background / more advanced literature.

Comments from the teachers team

The teachers on the course considered that the course went very well. The students were overall very enthusiastic, and many performed really well in the exam. One problem is the huge variation in the students' backgrounds, resulting in more-than-usual dropouts but also more-than-usual finishing with distinction. We do our best to bridge the gaps but cannot do magic. It is nonetheless a continuous aim to make the course as accessible as possible.

Evaluation of changes made since the previous course

After the previous course we made the introductory math part more compact and extended the programming exercises. This apparently was in the right direction since no students complained about too much time spent on recapturing math, and there were still some students asking for even more programming exercises.

Suggested changes for the next course

The next time the course is given we extend the catalogue of programming exercises, basic and advanced, together with commented solutions. This would allow for more individually customized learning, catering to the variation in student backgrounds. We also plan to modernize the section on artificial neural networks (and machine learning). It is a very active field and popular among students. A third planned change is to move the part in bioinformatics to earlier in the course. This new section turned out to be an excellent programming exercise, which fits well right after the introductory programming.

Other teachers

Anders Brodin, Jacob Johansson, Per Lundberg, Mikael Pontarp