Course analysis (course evaluation)

Course code	Course title	Credits
4FF012	**Omics in science**	**3,5 HP**
Semester	**Period**	
HT23	**2023-10-19 to 2023-11-03**	

Course coordinator	Examiner
Stefan Reitzner	Jessica Norrbom
Teacher in charge of component	**Other participating teachers** **Niels Krämer, Kirstin McGregor, Björn Forsberg, Qing Luo, Kristina Benevides, Tina Gorsek, Antonio Checa, Jaromir Mikes, Adil Mardinoglu**

Number of registered students during the three week check	Number approved on the last course date	Response frequency course valuation survey
18	**18**	61,11%
Other methods for student influence (in addition to concluding course valuation) Email contact with the course coordinator		
Feedback reporting of the course valuation results to the students		

Note that...

The analysis should (together with a summarising quantitative summary of the students' course valuation) be communicated to the education committee at the department responsible for the course and for programme courses also the programme coordinating committee.

The analysis was communicated to the education committee on the following date: 2023-12-14

1. **Description of any conducted changes since the previous course occasion based on the views of former students**

This course was held this semester for the first time, the concept is entirely new.

2. Brief summary of the students' valuations of the course

Students stated that during the course they learned valuable skulls (mean: 4,3), they reached intended learning outcome (4,2), and there was a common theme (4,3). Scientific thinking and openness to ideas and course structure were rated 4,1, 4,5 and 4,1 respectively. The lowest rating was achieved in the question about previous knowledge, which was rated 3,5, underlining the need for similar courses and content in the program. However, the students found the course appropriately challenging (4,3). The written evaluations pointed out several outstanding parts of the course, especially the practical coding was praised and its majority teachers (Nils, Kirsten), and some lecturers such as Tina and Kirsten. Surprisingly, also the

practical examination was mentioned positively. On the improvement side, the lectures on flow cytometry and multi-omics were mentioned. Given this was the first course occasion these were fairly "new" lecturers/lectures that had to be tried out, we will try to modify this for the next course occasion. Also, students mentioned that they would like even more coding and for the course to be longer to include more of it.

3. The course coordinator's reflections on the implementation and results of the course

Strengths of the course: **A strength of this course was the diverse selection of teachers that showed different aspects of theoretical and practical omics usage. As it is a mixed theoretical and practical course, there is a lot of variation which can make the course less monotonous than others. That the students were asking for this course to be even longer does speak for itself too, it seems like it covers a highly requested need for more courses covering coding exercises. The wide variety of lecturers for the theoretical aspects also gave us a higher chance of having lectures that the students precieved as excellent.**

Weaknesses of the course: **A key weakness of the course is the practical aspects which depend on the personal devices of the students to run the code as intended. This is very dependend on the software version and packages to work, which again depends on what kind of device (pc/mac, os, RAM,…) they have. This introduces an amount of uncertainty that was a little bit stressful, but luckily worked out fine in the end this time. Having a high number of lecturers in the theoretical parts also leads to the risk that the lectures might not seem "cohesive", but this worked out fine this time too. The course also requires the active participation of students, depending on their motivation, the course can be a success or not (also worked out very well in this occasion).**

4. Other views

nothing to note

5. Course coordinator's conclusions and any suggestions for changes

We will refine the choice of lecturers for next year and communicate with the teachers that were mentioned in the improvements section of the evaluation about the contents and structure of their lectures. Apart from that I think that the course turned out very well and doesn't need too much adjustments.

Appendices:

Course evaluation long form.