# What happens when you transform a large introductory biology course?

# Anne Elisabeth Bjune Department of Biological Sciences and bioCEED, University of Bergen, Norway

anne.bjune@uib.no

The course was restructured with the following aims:

- Reduce workload for students and staff
- More student activities through the semester
- Students helping students
- Reduce failure rate and drop-out

#### **COURSE SET-UP**

- BIO101 a compulsory course for bachelor students in biology
- Divided into three modules: microbiology, zoology, and botany all with similar schedule (Figure 1)
- 4-6 instructors
- Lab report must be approved to be able to take the final exam

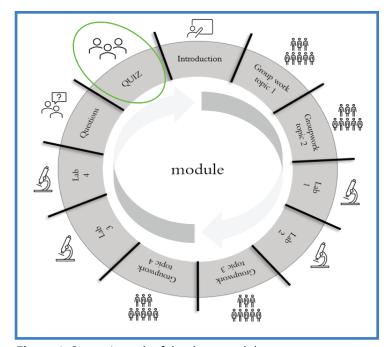
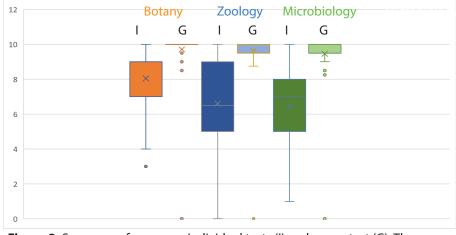


Figure 1. Set-up in each of the three modules

## **RESULTS**



**Figure 2.** Summary of scores on individual tests (I) and group test (G). The questions were the same for both quizes.

### What's new?

- Changed to more team-based
- learning
- Seminars instead of lectures
- Approving labwork in the lab
- Final guiz done individually and
- in groups (Figure 2)
- Cooperation between instructors
  - and study administration

#### **Outcomes**

- More active students, no lectures, videos and seminars
- The three modules more similar
- Fewer tasks during lab-days, less stress
- Less work with the report that students need to hand in, for both students and instructors
- Higher quality lab reports
- Labwork and guiz are counting towards the final grade
- Fewer students failing



