Course Summary for *Programming for Applications in Geomatics, Physical Geography and Ecosystem Science*, NGEN13 HT 2020.

Course coordinator: Per-Ola Olsson

Teachers in the course: Per-Ola Olsson (Python), Vaughan Phillips (modelling project), Mitch Selander (Matlab), David Tenenbaum (GIS project)

Number of students: 23 registered students

Grade distribution: 3 UK*, 2 G, 18 VG.
*The 3 students with grade = UK have not yet finished the final project (2021-01-15)

Evaluation

Summary of the course evaluation
Number of survey responses: 12 which is 52 % of the students
In general the students were very satisfied with the course (overall score of 4.3, on a scale 1-5). The students graded the Matlab and Python modules equally with the grade 4.3. The projects got the grades 3.7 (GIS) and 3.5 (modelling).

Comments from the teaching team
The content of the course was the same as previous year but it was a major change to go online. The course went mostly well in an online mode. The main problem was that some students felt lonely but that was a general problem with going online and not course specific. We did organise a few social activities
(online and physical) but the attendance was low. The students do either a modelling or a GIS project but nearly all students do the GIS-project. We have tried to encourage more students to do the modelling project but since most of the students are geomatics students it's a natural choice that many do the GIS project. Some students did not feel well prepared for the GIS project but it a balance workload between for students with no prior programming training and students that have taken programming courses before that is hard to do. The course will be restructured until it is given the next time and the new structure will consider the GIS project issues.

Evaluation of changes implemented since the last time the course was given The course has got the same grade (4.3) as a whole for the last few year so no major updates were done since last year (except for going online).

Suggestions for changes to implement before the course is given the next time The course will be updated and changed to a pure Python and GIS programming course to fit with the new planned master in GIS and remote sensing. In the new structure the students will focus more on GIS programming and be better prepared for the final GIS project.

2021-01-15, this summary was done by Per-Ola Olsson