SLU courses Nov 2020 – Jan 2021

CLINF GIS educational offer

Invitation to students and supervisors alike

The CLINF Nordic Centre of Excellence (www.clinf.org) explores the broad scenario of warming northern landscapes transforming into warmer biomes, that may attract organisms such as ticks, mosquitoes, and rodents that have the potential of carrying new zoonotic infections onto humans and husbandry animals of the North. With Far-North societies being generally dependent on their husbandry animals, i.e. by terms of economy, status, and tradition, an altered exposure towards infectious diseases may strike at the very heart of northern cultures. When added to other direct or indirect societal effects of climate change, such as the direct effects of altered human exposure, the resulting holistic approach to health is called OneHealth. CLINF is devoted to inquiring into the OneHealth effects of a warming North.

Methods of geographic analysis and informatics are central to CLINF, when the geographies of infectious diseases are studied by terms of their spatiotemporal variation through the thirty-year climate reference period, and prognosticated onto future landscapes in accordance with the IPCC climate scenarios. Based on present and future geographies of selected diseases, methods of social sciences and medicine are applied in order to provide preventive societal guidelines.

With education regarding methods of geographic analysis and informatics being provided on a regular basis by the CLINF affiliate SLU (the Swedish University of Agricultural Science), *any scholar interested in CLINF subjects is hereby invited to join the regular SLU courses on Geographic Information Systems (GIS) and Geographic Analysis.* Although these courses vary in size and level of prerequisite knowledge, they are all Case-based and provided on-line. They are ambitious and matured, annually provided for hundreds of students ranging through landscape architects, natural scientists, civil engineers, etc.

Case-pedagogy indicates that groupwise performed, rather realistic case projects constitute the educational hub of SLU courses on GIS and Geographic Analysis. It also indicates that these cases are invented by the students themselves, under expert supervision. As part of the CLINF educational offer, CLINF experts are contributing to the regular SLU team of supervisors whenever case-projects are chosen to reflect CLINF issues. With supervision provided on-line, CLINF experts may supervise from around the world and hence represent study location and ethnicity, as well as

the study subject.

With GIS and Geographic Analysis, Geographic Problems are solved. Since this includes ALL problems that somehow are positioned in the spatiotemporal domain, and since it is difficult to imagine a real-world problem that lacks spatiotemporal position, basically ANY problem may be assessed with methods of GIS and Geographic Analysis. Typical classic disciplines of methodological application are reflected in the categories of students that typically have courses on GIS and Geographic Analysis; civil engineering, geography and hydrology, environmental and natural sciences, agricultural and landscape architectural engineering and sciences, epidemiology, climatology, etc., etc. SLU teaches GIS and Geographic Analysis in the context of such applications, rather than in the context of methodological metaphysics.

The SLU courses on GIS and Geographic Analysis are classics with all information provided at the SLU Educational Portal https://www.slu.se/en/education/. Choose "Programmes & courses/Course search", and search for course codes TN0329, TE0017, TE0018, or TE0019. The SLU Educational Portal also contains all information required for learning how to apply for participation in SLU educational activities. Welcome to apply now or anytime, in order to learn how to explore OneHealth climate-change effects on the epidemiology of Northern infectious diseases.

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