Software requirements

For the computer practicum (mandatory), the students have to use a powerful laptop with the following software already installed BEFORE the course. Please check that you have the correct versions.

1) **ArcGIS Pro version 3.X**:
   - Please note that only **ArcGIS Pro** is needed, not ArcMap, ArcGIS for Desktop or any other ArcGIS software.
   - You must also have a (stable) internet connection whenever you are using the software.
   - Apple/Mac devices are NOT supported. The GIS-Studio webpage has more information.
   - You must be sure that your computer meets the requirements to run ArcGIS Pro:
     - At a minimum, you must have an up-to-date Microsoft Windows operating system, and your computer must have a 64-bit processor. You can usually check your computer's processor and operating system in your computer's Settings > About > Device Specifications.
     - Complete information about minimum requirements here.
     - Here is an app that ArcGIS recommends if you want to check your computer's ability to run ArcGIS Pro.

   - The executable files that will install ArcGIS Pro on your computer can be downloaded via this link: https://surfdrive.surf.nl/files/index.php/s/62kSGTiTtPvvTRf
     - Download all of the files and then double-click on each of them in order to install.
     - After you have downloaded and installed ArcGIS Pro on your Windows laptop or computer, you must have an authorized license to begin using the application. Stacy Shinneman will send you a username and password for an ArcGIS Online account so you can start ArcGIS Pro with a Named User license.
     - If your credentials do not work, contact s.shinneman@uva.nl.
     - You can login with this login name and password on any computer or laptop with ArcGIS Pro installed, at home or in the GIS-studio at Science Park, as long as there is a (stable) internet connection. You will need to sign in each time you open the software so make sure you have your information.

2) **R version 4.X and RStudio**:
   a. This open source statistical computing software can be freely downloaded from: https://www.r-project.org/
   b. After you have installed R, install the free desktop version of RStudio