GIST4302/5302: Instructions to Moving to On-line

(Windows Version, Tentative)

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This document describes the steps to move the class, lectures and labs, to on-line. For the lecture, we will primarily use Blackboard and Microsoft Team as the backup in case the Blackboard system was overwhelmed. For the lab, additional steps will be required to access TTU server using your computers at home. The remainder of this document describes the details .

# 1. Lectures

Lectures will be live stream during the scheduled class time, 12:30pm-1:30pm on Tuesday and Thursday, and the recorded video should be available after the lectures complete.

## Blackboard

Blackboard is the easiest option without needing extra software. The following is the link to access the live stream during scheduled class time:

<https://us.bbcollab.com/guest/bf4809aecaee4a3e9e5757f7ebb6436e>

## Microsoft Team

As mentioned, we will go with this option as a backup in case the Blackboard is overwhelmed by the load. The setup with Microsoft Team is also straightforward. Copy and paste the following link into your browser (Google Chrome recommended on both Windows and Mac), and it might ask you to install Microsoft Team software.

<https://teams.microsoft.com/l/team/19%3aacc451c2de9b47afa2acb85c6716ebf9%40thread.tacv2/conversations?groupId=34a51520-8323-400a-9d6a-572cefdf3e3c&tenantId=178a51bf-8b20-49ff-b655-56245d5c173c>

# 2. Lab

**Chanmi will live stream her lab instructions during lab hours as I do for the lectures.**

Compared with lectures, moving labs to on-line takes extra steps. VPN is essential to allow the accesses to TTU resources from home. I recommend you having it setup first. After that, you can access the TTU servers including the lab material folder on Techshare from home as you normally do on campus. The following gives the setup instructions.

For Windows users, I strongly recommend installing ArcMap on your home computers. You will be given a license code for the installation. The installation package can be downloaded from remote drive \\software.itts.ttu.edu\shared\ArcGIS (setup VPN first for the downloading, see below) and the installation process is relatively straightforward. We will use GeoDa for couple of labs, and the executable program will be provided and it doesn't need extra installation steps.

When you have VPN setup and ArcMap installed, you basically can do the labs as you normally do in remote sensing lab, e.g., mapping a network drive of the lab materials \\techshare.ttu.edu\depts\geosciences\gistcourses\gist4302.

In case you cannot have ArcMap installed for some reason, we provide remote desktop as a backup option. You will be assigned an IP address of computers in the Remote Sensing lab (Holden Hall 221) that you can access through remote desktop. See the following for the remote desktop instructions.

## VPN

VPN stands for Virtual Private Network. It is required to access most of the TTU computation resources using off-campus computers. A TTU VPN connection authenticates your TTU credentials as an approved user who is allowed permission to access the TTU network. The setup of VPN on your own computer is straightforward; a software named GlobalProtect is basically what is needed. The TTU IT Help Central has a detail instructions on how to setup:

<https://www.askit.ttu.edu/portal/app/portlets/results/viewsolution.jsp?guest=0&solutionid=181128172423631&hypermediatext=null>

## ArcMap Installation

Follow these steps to **install** ArcGIS 10.x for Desktop:

1. If you do not currently have an earlier version of ArcGIS installed on your machine, proceed to step 2. If you have ArcGIS version 10.1 or later installed, you do not need to uninstall it before installing version 10.7.1; the ArcGIS setup package will detect and upgrade your ArcGIS for Desktop software. If you have ArcGIS version 10.0 or earlier installed, please uninstall it using the Uninstall Utility (download below) before installing ArcGIS 10.7.1.
2. Download ArcGIS for Desktop, Microsoft .NET Framework 3.5 (you might already have this on your computer), and the other files you would like to install. Please note that ArcGIS Data Interoperability, ArcGIS Data Reviewer, and ArcGIS Workflow Manager require ArcGIS for Desktop.
   * When downloading with the Esri Download Manager, you can select and download multiple products. However, only one product should be launched at a time when the downloads are complete.
   * Make sure you have write access to your download directory location as well as your ArcGIS installation directory location, and that no one is accessing it.
3. Install the Microsoft .Net Framework 3.5 Service Pack 1 below (you might have this on your computers).
   * ArcMap requires [Microsoft .NET Framework 3.5 SP1](http://www.microsoft.com/en-us/download/details.aspx?id=25150) and [Microsoft Internet Explorer](http://windows.microsoft.com/en-us/internet-explorer/download-ie) version 7 or newer. Before running the installation program for ArcMap, ensure that your machine meets these prerequisites. The [quick start guide](http://desktop.arcgis.com/en/desktop/latest/get-started/quick-start-guides/arcgis-desktop-quick-start-guide.htm) provides an overview of installing and setting up ArcMap and links to detailed resources, including [system requirements](http://desktop.arcgis.com/en/desktop/latest/get-started/system-requirements/arcgis-desktop-system-requirements.htm).
4. Install and authorize ArcGIS for Desktop
   * Select a destination folder to extract the install files to. If you choose, you can automatically launch the setup after the files have been extracted
   * When prompted, select **ArcGIS for Desktop Advanced Single Use**.
   * When prompted, accept the default, **I do not wish to authorize any extensions** at this time. The extensions will be authorized automatically.
   * Enter your authorization number.

Follow these steps to **authorize** the software:

If you installed the software but did not authorize it, follow these steps:

1. Select **ArcGIS for Desktop Advanced (Single Use)**, and click **Authorize Now**.
2. Verify the software you selected is listed at the top of the box. Click **OK**.
3. Select I have installed my software and need to authorize it. Click **Next**.
4. Select **Authorize with Esri now using the Internet**. Click **Next**. If you do not have an Internet connection on the computer you intend to install the software on, you can authorize the software using another computer that has Internet access or via e-mail.
5. Enter your personal information (2 panels). Click **Next** on both.
6. When prompted, accept the default, **I do not wish to authorize any extensions** at this time. The extensions will be authorized automatically.
7. Enter your 12-character authorization number (EVAxxxxxxxxx), and click **Next**.
8. After the authorization process is complete, click **Finish**. Authorization typically takes between 30 seconds and 2 minutes.
9. Click **OK** to close the ArcGIS Administrator. The software is ready to use.

## Remote desktop

If you are on Windows system, remote desktop should already be there. Following the following instruction that TTU IT Help provided. **In the second step of the instruction, please use the computer name you are assigned to.**

<https://www.askit.ttu.edu/portal/app/portlets/results/viewsolution.jsp?guest=0&solutionid=160524122638595&hypermediatext=null>