

# Student git access

Everything that follows assumes that you are on one of the CS department Linux machines.

**Initial setup** There's some one time setup you need to do for your usage of git:

1. Let git know your name  
`git config --global user.name "Jane Smith"`
2. Let git know your email  
`git config --global user.email "jane.smith@slu.edu"`
3. Set your preferred editor (you can also use vi, emacs, etc.)  
`git config --global core.editor "nano"`

For any course you take that uses git you need to setup access to the course repository and your personal repository within the course.

1. Create the initial course repository.  
`git clone git@git.cs.slu.edu:courses/fall17/csci3760`
2. Do your work in the directory it creates  
`cd csci3760`
3. Add in your personal course repository  
`git remote add my git@git.cs.slu.edu:courses/fall17/csci3760/jsmith`
4. Register the new remote branch  
`git push -u my master`

**Getting course materials** To download everything from the remote repositories

```
git fetch --all
```

**Completing an assignment** Your instructor will give you the name of an assignment, e.g. `assignment1`

1. Download the assignment files  
`git fetch origin`  
`git checkout -b assignment1 origin/assignment1`
2. Work on your assignment. This includes editing files, possibly adding new ones, etc.
3. Commit your changes  
`git commit -a`  
You will need to enter a log message describing the changes you have made.
4. Upload the changes  
`git push my assignment1`

**See instructor comments and grades** If your instructor makes any edits to your files or upload comments you can access them as follows

1. Access the assignment

```
git checkout assignment1
git pull my assignment1
```
2. Look at any files your want to

**Accessing from outside CS environment** Git uses a ssh public/private keypair. You will need to copy your private key from hopper into the appropriate ssh directory on your computer. How to do this depends on the OS you are using.

**Learning more about git** There are a variety of good information sources online about git. For example <https://www.atlassian.com/git/tutorials>