

Homework Submission Guide

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Comp 311 Homework Submission Guide

We will use Rice's Subversion (SVN) repositories for all homework submissions in this course.

All students (regardless of enrollment in Comp311 vs Comp544) will submit their homework to the same repository using the course name *comp311* URL.

While Rice provides a simplified *turnin* command on its Clear cluster for accessing the repository, you are not required to use it. You can opt to use regular SVN commands to submit your assignment: follow the submitting your homework with SVN commands section. In fact, we **highly recommend** that you learn to use an SVN client to directly interact with the repository. If you prefer using Git, you can also try using [the Subversion client built into Git \(git svn\)](#).

The *turnin* program is a script that uses Subversion to enable student homework submissions. It is available only in the Clear cluster.

Option A: Using SVN commands for direct repository access

Submitting your Homework using IntelliJ IDEA

If you are planning to use IntelliJ IDEA as your primary development environment for this course, you can use [IntelliJ's Subversion integration](#) to manage and submit your assignments.

You can adapt the instructions below for interacting with the repository through your IDE.

Submitting your Homework from your Linux or Mac machine (Using SVN commands)

1. One time setup on your machine
 - a. Make a new empty directory comp311 in your home directory and switch to that directory:

```
mkdir comp311
cd comp311
```
 - b. Use Subversion to check out your submission directory:
svn checkout <https://svn.rice.edu/r/comp311/turnin/«current-semester»/«your-net-id»>
E.g., for Fall 2017 and the NetID "xyz99":
<https://svn.rice.edu/r/comp311/turnin/F17/xyz99>
2. To check the status of your current directory, run :
svn status
This should show all your files that are added(A) / not added(?) / deleted(D) / modified (M) to the Subversion repository.
3. To add folders/ files, use :

svn add «file_name» (without angle brackets)

svn add «folder_name» (without angle brackets) – recursively adds all files in it

This should show all files/ folders that have been added to the Repository (this is still a local copy)

a. To delete folders/ files, use :

svn del «file_name» (without angle brackets)

svn del «folder_name» (without angle brackets) – recursively adds all files in it

This should show all files/ folders that have been deleted to the Repository (this is still a local copy)

4. To commit your files, use:

svn ci -m "Some relevant message here"

This should show all the files that have been added/ modified/ deleted ... followed by

-- Transmitting file data.

-- Committed revision «rev. no»

5. And you have successfully added your folder/ files to the SVN repository. Visit repo on the browser to confirm that all the file structure is intact.

Submitting your homework from your Windows machine

If you are using Windows 10, we recommend that you [set up the Windows Subsystem for Linux \(WSL\)](#), and then simply follow the steps above for using the SVN command on Linux.

You may also opt to use the SVN integration in your IDE (see the section on IntelliJ above), or use a standalone visual SVN client like [TortoiseSVN](#).

Option B: Using the turnin command on CLEAR

One time Setup in Clear

1. Login to CLEAR:

```
ssh <your netid>@ssh.clear.rice.edu  
<your password>
```

2. Make a new empty directory **comp311** in your home directory and switch to that directory:

```
mkdir comp311  
cd comp311
```

3. Use Subversion to check out your submission directory:

```
svn checkout https://svn.rice.edu/r/comp311/turnin/«current-semester»/«your-net-id»  
E.g., for Fall 2017 and the NetID "xyz99":  
https://svn.rice.edu/r/comp311/turnin/F17/xyz99
```

4. You might be asked if you wish to store your password unencrypted. Always say **no** when asked this.

5. Now you should have a folder named **«your netid»** in the **comp311** directory you created.

Submitting your Homework from the Clear Network

1. Make sure you are in your **turnin** directory.

```
cd ~/comp311/<your netid>
```

2. To check the status of your current directory, run :

```
svn status
```

This should show all your files that are added(A) / not added(?) / deleted(D) / modified (M) to the Subversion repository.

3. To add folders/ files, use :

svn add «file_name» (without angle brackets)

svn add «folder_name» (without angle brackets) – recursively adds all files in it

This should show all files/ folders that have been added to the Repository (this is still a local copy)

- a. To delete folders/ files, use :

svn del «file_name» (without angle brackets)

svn del «folder_name» (without angle brackets) – recursively adds all files in it

This should show all files/ folders that have been deleted to the Repository (this is still a local copy)

4. To commit your files, use:

svn ci -m "Some relevant message here"

This should show all the files that have been added/ modified/ deleted ... followed by

-- Transmitting file data.

-- Committed revision «rev. no»

5. And you have successfully added your folder/ files to the SVN repository. Visit repo on the browser to confirm that all the file structure is intact.

Submitting your Homework from Your Own Unix Machine (Including Linux and Mac OS)

1. Go to the folder on your machine that contains all (and only) the files you are submitting for your homework.

cd <your local homework directory>

2. Zip the files you want to submit. Here 'n' refers to the homework number.

zip -r hw_n.zip *

3. Use **sftp** to copy the zip file to Clear.

sftp <your-netid>@ssh.clear.rice.edu

<your-password>

4. You should have the sftp prompt **sftp>** now. Go to to your comp311/netID directory.

cd comp311/netID/

5. Create a new folder with the name **hw_n** for this homework number **n**

mkdir hw_n

6. Now move your zip file to this directory:

cd hw_n

put hw_n.zip

The sftp app should indicate that your zip file has been copied to the folder **hw_n**.

7. Log in to your Clear account.

ssh <your-netid>@ssh.clear.rice.edu

<your-password>

8. Go the folder **hw_n**

cd hw_n

9. Unzip the file

unzip hw_n.zip

10. Delete the zip file

rm hw_n.zip

11. **Follow the instructions for Submitting Your Homework from the Clear Network**

Submitting Your Homework from Your Own Windows Machine

NOTE: These instructions were written for an older SSH/SFTP client that is no longer available. However, the same general instructions should apply to the newer client we recommend here. We'll update these instructions soon.

1. Click this link to download secure SSH and SFTP clients to your computer: [Bitvise SSH Client](#)
2. You will be asked to log in. Just use your Net ID and password as you would when logging into Owlspace.
3. Your browser should start downloading an installer file. Once it is downloaded, run it. You'll be asked a series of configuration questions.
4. The software will install itself and present you with a window indicating that setup is complete. Click **Finish**.
5. Now we have the software necessary to transfer files between your laptop and Clear. Go to your **Start** menu and under the new folder titled **SSH Secure Shell**, select the application **Secure File Transfer Client**.
6. A window will pop up. This is a client for transferring files from your computer using the Secure File Transfer Protocol (FTP). In the upper left hand corner of the window, there is a **Quick Connect** button. Select that. Next to **Host Name** type **ssh.clear.rice.edu**. Next to **User Name** type your Net ID. Hit **Connect**. You will be presented with a **Host Identification** window. Just click **Yes**.
7. Click **OK** when the Rice University Network prompt comes up. Enter the password you use for logging in to Owlspace at the next prompt.
8. It may take a few seconds, but the right hand side of the window should now show the files you have on Clear. To copy your homework to Clear, just navigate to where the files are on your computer in the left hand side of the window, and then click and drag them to the right. An entry will appear in the list at the bottom of the screen showing how much time is left in the transfer.
9. Congratulations! Your file is now on Clear. Use the **Secure Shell Client** that you downloaded with the **Secure File Transfer Client** (found in your **Start** menu under **SSH Secure Shell**) to connect to Clear.
10. **Follow the instructions for submitting from the Clear network.**

Submitting Your Homework from a Windows Machine at Rice

If you are submitting homework from one of Rice's Windows machines, such as those in the library or college computer labs,

1. Save the document to your U:\ drive and see it on Clear.
2. Put all of the files for your *n*th homework assignment in a subdirectory of your **comp311** folder named **hw_*n***.
3. **Follow the instructions for submitting from the Clear network.**

Submitting your Homework from the Clear Network (Using Turnin)

1. Make sure you are in your **turnin** directory.
cd ~/comp311/<your netid>
2. All of your files for your *n*th homework assignment should be in a subdirectory named **hw_*n***. Submit the folder **hw_*n***
turnin comp311:hw_*n*
This should show all your files being added to the Subversion repository.