# Lesson Planning Template

## LESSON CONTEXT

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| **Lesson Topic** |
| Intro to Unix Systems and Bash Scripting |
| **Intended Lesson Audience** |
| First year computer science students (with a first year programming course of experience) |
| **Lesson Length** |
| 50 min |
| **Lesson Format (face-to-face, blended, or online)** |
| Online Asynchronous |
| **Teaching Support and Resources Available to You for the Lesson** |
| My course webpage and server (both administrated by myself) |
| **Faculty / Department / Organization Parameters and Expectations for the Lesson** |
| None |
| **Lesson Objectives** |
| - Learn how to ssh into a remote server  - Learn how to navigate and manipulate a Unix filesystem  - Learn how to execute a custom bash script |

## LESSON PLAN

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| **Lesson Title** |
| Intro to Unix Systems and Bash Scripting |
| **Bridge-in / Introduction** |
| Unix is a family of Operating Systems that conform to a certain set of specifications (i.e. the Single Unix Specification). The terminology Un\*x or Unix-like is often used to refer to the MANY systems that follow most of the Unix specifications but don’t fully conform to the standard. Examples of Unix-like systems include MacOS and Linux varient systems. The fast majority of servers used by developers today run Unix-like systems (primarily Linux systems) and are accessible only through a command line interfaces. Since they all (nearly) conform to the same set of specifications using the command line for one Unix-like system will be very similar to another, so being able to use a Unix command line is a very useful and transferable skill. In this lesson, you will learn how to access a Linux server via the command line, create and manipulate files on the server, and create and execute a script containing these commands. |
| **Intended Learning Outcome(s)** |
| By the end of the lesson, learners should be able to:   |  | | --- | | 1. - Use ssh/scp to access remote servers 2. - Use Un\*x command line interfaces to navigate, create and manipulate filesystems 3. - Analyze permissions and modes of Un\*x filesystems 4. - Apply changes to permissions and modes of Un\*x filesystems | |
| **Pre-Assessment** that is aligned with the lesson intended learning outcome(s) |
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| **Topics and Content Items** (e.g., readings, videos), with an estimated time commitment noted for each item. Ensure these are aligned with the lesson intended learning outcomes. |
| **TOPIC:**  **Content Item [estimated time commitment]:** |
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| **Participatory Learning Activity / Activities** (e.g., reflection, worksheet, discussion forum post). Ensure these are aligned with the lesson intended learning outcome(s). |
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| **Post-Assessment** that is aligned with the lesson intended learning outcome(s) |
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| **Summary** |
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| **References** |
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| **Additional Resources** |
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