

1. Learning Outcomes	Student Tasks		
	2. Assessment Activities	3. Practice Activities	4. Learning Activities
<p><i>At the end of this module, students will be able to:</i></p>	<p><i>What will students do to be evaluated on whether they have met the learning outcomes? Include tests, papers, and other large assignments.</i></p>	<p><i>How will students practice applying what they've learned? Include low-stakes quizzes and discussions, ungraded practice games, etc.</i></p>	<p><i>What will students do to take in relevant information for this module? Include readings, lectures, videos, podcasts, etc.</i></p>
<ol style="list-style-type: none"> 1. Explain what a shell is and name the two most used shells. 2. Start programs, put them in the background, foreground, and create subshells. 3. Use redirections, pipings, and globbing. 4. Parse and modify files using grep and sed. 5. Write scripts that use variables and control flow to iterate through files or inputs. 6. Use at least 5 standard text-oriented command line tools. 	<ul style="list-style-type: none"> • (2-6) Complete a lab on a Linux VM provided by the instructor. The lab consists of 3 parts of increasing difficulties. Part 1 covers (2,3,5), Part 2 (2-5), Part 3 (2-6). 	<ul style="list-style-type: none"> • (1-6) Complete a quiz at the end of the first week. The quiz can be taken any number of times, and answers are provided. • (2-6) In class exercises, orally, during Week 1. Problems are spelled out in English, students should come up with a correct sequence of commands. 	<ul style="list-style-type: none"> • (1-6) In-person lectures (3 hours). • (1-4,6) Optional tutorials from Ryan Chadwick <https://ryanstutorials.net/linuxtutorial/> • (5) Optional tutorial from Ryon Chadwick <https://ryanstutorials.net/linuxtutorial/>

Notes, Reminders, and Questions

- I should narrow down the tools in LO 6. We're aiming at file processing here, so `useradd` & co. are not part of this, but `chmod` is on the fence.
- This is a crash course, so it is important not to get distracted by tangents.
- The lab should be out on Day 1, the write-up and testing should be ready by then.