

# CSI 3680 – Script Programming

## Midterm Study Topics

(Duration: 107 minutes    Format: Multiple Choice)

The midterm covers Bash and Python topics discussed in lectures, labs, and examples up to Week 7. Questions are conceptual and output-prediction based. No memorization of complex syntax is required, but you should understand the behavior of each construct.

### 1. Bash Topics

- Basic shell usage: wildcards, variables, quoting, substitution, redirection, and pipes.
- Control flow: `if/else`, `for` and `while` loops, and loop control (`continue`).
- Common text utilities: `grep`, `sed`, `awk`, `cut`, `bc`, `xargs`.
- Simple system tasks: managing users/groups, understanding backups, and checking disk usage.
- Command-line arguments and option parsing with `getopts`.

### 2. Python Topics

- Basic syntax: keywords, variable names, and control flow statements.
- Functions and `lambda` expressions.
- Importing modules and using aliases.
- Basic class definition and object usage.

### 3. General Advice

- Practice reading short code snippets and predicting what they do.
- Review lecture examples and lab exercises.
- Focus on understanding how commands and statements work, not memorizing their exact output.