

Spring 2020

## IT 240-452: Shell Scripting for Administrators

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# Shell Scripting for Administrators

## Syllabus

### IT 240 (eLearning)

Instructor: Stan J. Senesy ([senesy@njit.edu](mailto:senesy@njit.edu))

Office: NJIT Newark, GITC rm. 3803. (973)596-5288

Office hours: Posted on Moodle

Texts: Foster-Johnson, Welch, Anderson, Beginning Shell Scripting, Wiley Publishing, Indianapolis, IN 2005  
ISBN: 0-7645-8320-4

Schwartz, Phoenix, d Foy, Learning Pearl 6th edition, O'Reilly Media, Sebastopol, CA 2011.  
ISBN: 978-1449303587

Version of the tex(s) that are newer than listed here are fine, these are the minimum

Schedule: Class meets solely online through Moodle

### Course Description

This course will introduce shell scripting in a multi-OS environment using the Bourne Again Shell (Bash). Topics covered will include scripting commands, regular expressions, controlling process and debugging. In addition, the Practical Extraction and Report Language (Perl) will be covered, showing how it may extend the built-in capabilities of the Bash shell.

### Prerequisites

Although no formal prerequisites are listed for this course, it is expected that the student will have completed at least the first 2 years of the IT curriculum. While prior knowledge of Linux will benefit the student, it is not a requirement for the course.

You must have access to a computer that meets the NJIT minimum baseline computer system standards. You can find a listing of the minimum computing requirements at <http://ist.njit.edu/compreq/faq.php>

You'll need to use either CentOS, Ubuntu or another mainstream Linux distribution for the course. Alternatively, you can use a virtualization system that NJIT provides called vCloud. More will be discussed about this in first week of the course.

### Grading:

Participation	5%
Homework	30%
Midterm	30%
Final Exam	35%

Grades will be computed on a straight scale out of 100 possible points: 90-100=A, 87-89=B+, 80-86=B, etc.

### Course Administration

We will use Moodle for the administration of this course.

Moodle is a web site that facilitates asynchronous and synchronous communication between students and their instructor. We will use Moodle for all the interactive portions of the course. You may logon to Moodle at <http://moodle.njit.edu> with your UCID and password. For those with no Moodle experience, there are a number of tutorials available on the login screen.

If you have problems accessing Moodle, please contact the Helpdesk at (973)596-2900 and send an e-mail to me at the address listed above. You should check for new postings/assignments on Moodle at least once a day.

Once the course has begun, all contact should be through Moodle. Post general questions in the appropriate forum, while private questions should be sent to your instructor through email. This will simplify my documentation requirements at the end of the course.

## Participation

Each week there are podcasts provided that cover the course material. You are expected to watch these podcasts during the week that they are posted for. Your participation grade will be determined (among other things) by your viewing of the podcasts during the week that they are active. For instance, there will be a number of podcasts posted on week 1. They need to be viewed during the time period of week 1. It is not possible to make up for missed podcast grades after the fact. The course is not self-paced. It follows the same progression as the face-to-face sections.

If Moodle does not log your access to the podcasts (as shown in the screen shots that I will post), please contact the Helpdesk and have them open up a job.

## Homework

Homework will be assigned each week. It will usually consist of short programming assignments like what we've covered in class. Homework will be due one week from assignment and should be turned-in through Moodle.

If you have an emergency (hospitalization, jury duty, military service, etc) that will cause you to miss a homework assignment, I will not count that against your overall grade once your documentation has been validated by the Dean of Students.

## Assessment

The midterm and final will constitute a significant portion of your overall grade. Exam dates and times are listed in the course schedule. Both exams will contain information from the text, as well as the lecture portions of the course. The exams will be **performance based and will be given online in Moodle and vCloud.**

If you must miss a class, lab, or exam because of a religious observance, it is your responsibility to report to me within the first two weeks of classes which days you will be missing.

## Collaboration

You are encouraged to work together with your classmates in order to help your high-level understanding of the material presented in the course. Any solutions to assignments/exams/projects presented for credit must be work created **on your own**. Plagiarism, cheating, or any other anti-intellectual behavior will be dealt with as per the NJIT Code of Academic Integrity. You can find a copy of the Code here:

<https://www.njit.edu/policies/sites/policies/files/academic-integrity-code.pdf>

## Academic Policies (Please Read This Carefully)

**Late work will be marked down according the following scale.** The timestamp in Moodle will determine how late your work was (no exceptions):

0 – 24 hours = (-10) points  
24 - 48 hours = (-20) points  
48 – 72 hours = (-30) points  
72 – 96 hours = (-40) points  
> 96 hours = no credit

If you 're-submit' homework, the later timestamp will be used to determine if it is late. Once I've graded your work, you cannot modify it and turn it in again.

If you have an emergency (hospitalization, military service, or anything defined as an emergency by the University) please contact the office of the Dean of Students. I will not accept your doctors note, etc. They will validate it and get

back to me at which point I will remove the late penalty from your work. Grades will not be posted until after the 96 hour period has expired.

**I do not offer 'extra credit' assignments.** Every student has an equal opportunity to earn the grade they'd like in the course. The overall point spread is broad enough that doing poorly on a single assignment or quiz should not significantly affect your grade.

**I do not curve individual assignments.** If, at the end of the course I determine that a curve is justified, then I will curve ALL final grades (either positively or negatively) equally. Grading scales are applied consistently across the entire class - no exceptions.