Syllabus: INT 678 INT Seminar: Unix Administration

Instructor Information

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Course Description:
This course is designed to give students an introduction to the use of Unix system and Unix system administration. This course provides an in-depth study of Unix commands and Shell. This course will offer basic script programming skills under the Unix environment using the ScatCat server for laboratory exercises. Course work will include the study of networking and programming tools. Additional discussions will be given to the security issues in the Unix system. For detailed coverage, please see the tentative schedule listed below.

Text:

Course Requirements: Complete all the assignments, and tests. All instruction will take place via the Blackboard web site. Each week, you will be directed toward new course materials, assignments, or tests. Students are required to do course work at the level of the degree for which they are enrolled. This is especially true for the written assignment for this course. Graduate students will complete assignments in addition to those of undergraduate students.

Evaluation: Will be equally based on 5 tests. The grading scale is as follows:

A=90-100
B=80-89
C=70-79
D=60-69
U=0-59

The assignments and tests will usually be due before the midnight on the following Monday, if not other specified. If you have an emergency that will keep you from
getting an assignment or test done on time, send an email to let me know as earlier as possible.
ADDITIONAL INFORMATION / INSTRUCTIONS
Some additional readings included in the course schedule may require you to use the library's website as well. I also reserve the right to add or change readings during the course of this class. FHSU’s Blackboard system will serve as the backbone of this class. Since you have enrolled for this virtual course, I assume you are proficient enough with Blackboard to use it. If you are not, it is your responsibility to learn the login and navigation procedures of the Blackboard system. Please call 1-800-628-FHSU for technical support or e-mail mailto: support@fhsu.edu. As the instructor of this class, I have no technical expertise in Blackboard. Any technical questions should be directed to the Support staff, and not me.

ACCESSIBILITY
Fort Hays State University will ensure that no qualified person with a disability is denied the benefits of, excluded from participation in, or otherwise subjected to discrimination because of inaccessibility of education programs and activities operated by Fort Hays State University. To obtain information as to the existence and location of services, activities, and facilities that are accessible to persons with disabilities, contact the Director of Affirmative Action.

ACADEMIC HONESTY
Membership in the FHSU learning community imposes upon the student a variety of commitments, obligations and responsibilities. It is the policy of FHSU to impose sanctions on students who misrepresent their academic work. Classroom instructors will select appropriate sanctions or other designated persons consistent with the seriousness of the violation and related considerations.

Examples of academic dishonesty include but are not limited to: (1) Plagiarism, taking someone else’s intellectual work and presenting it as one’s own (which covers published and unpublished sources). Using another’s term paper as one’s own; handing in a paper purchased from an individual or agency; submitting papers from living group, club or organization files; or using another’s computer program or document are all examples of plagiarism. Standards of attribution and acknowledgment of literary indebtedness are set by each discipline. In political science, students must cite all work from which they take any recognizable length of work, including but not limited to phrases, sentences, and data. Students should consult with their department or with recognized handbooks in their field if in doubt. (2) Cheating is unacceptable in any form. Examples include consultation of books, library materials or notes during tests without the instructor’s permission; use of crib sheets or hidden notes; intentional observation of another student’s test; receipt of a copy of an exam or questions or answers from an exam to be given or in progress; substitution of another person for the student on an exam or another graded activity; deliberate falsification of lab results; submission of falsified data; alteration of exams or other academic exercises; and collaboration on projects where collaboration is forbidden. (3) Falsification, forgery or alteration of any documents pertaining to assignments and
examinations. (4) Students who (cooperate or in other ways promote) participate in promoting cheating or plagiarism by others (or who take credit for the work of others) will also be in violation of this policy.

Students participating in any violation of this policy must accept the consequences of their actions. Classroom instructors and/or university review/appeals committees and administrators will assess the sanctions for violation of this policy. The seriousness of the violation will dictate the severity of the sanction imposed.

Academic sanctions may include but not be limited to any of the following: (a) verbal or written warning; (b) lowering of grade for assignment/activity; (c) lowering of term grade; (d) failure of class assignment. Administrative sanctions may include but not be limited to either of the following: (a) suspension from the University; (b) dismissal from the University. I take academic honesty as the bedrock of collegiate work, and I will not accept cheating in any way, shape, or form. My personal policy is to give students grades of “U” (unsatisfactory, or fail) for both the assignment AND the course. Any incident of plagiarism is subject to the perpetrator’s immediately removal from class and failure.
Tentative Course Schedule:

Week 1 Self and Unix Introduction

Week 2 Basic Unix Commands

Week 3 File Systems and File Attributes
  **Test #1

Week 4 Editors

Week 5 The Unix Shell

Week 6 Processes and Environment customization
  **Test #2

Week 7 Simple Filters

Week 8 Filters and Regular Expressions

Week 9 Filtering and Programming with Awk
  **Test #3

Week 10 Spring Break

Week 11 Shell Programming

Week 12 Networking Tools (TCP/IP)

Week 13 Perl Programming
  **Test #4

Week 14 Program Development Tools

Week 15 System Programming I

Week 16 System Programming II

Week 17 System Administration
  **Test #5

Online Resources: please refer to https://sites.google.com/site/professorjiang/ia-links.