CS455E Perl Programming -- Bryan Higgs

Spring 2005

Syllabus

Office Hours: M, T, W, 2pm – 5pm
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Brief Course Description:
This course is an introduction to the programming and scripting language, Perl. Perl is probably the most widely used scripting language on networks, and the World Wide Web, and the ability to program in Perl is very important skill to have in one's arsenal. The course will go from simple Perl basics through more complex features such as arrays, hashes, and regular expressions, to more advanced usage, for example with CGI programming, databases, and even GUIs. The goal is to provide the students with a solid background from which they can become skilled and productive Perl programmers.

Required Text:

Course Objectives:
To familiarize each student with the concepts of, and practical programming in, the programming language Perl.

Classroom Policies:
Students are expected to attend and participate in all classes. Attendance is taken at the beginning of each class. Notice to the instructor in advance of any anticipated absence is expected whenever possible. It is the student's responsibility to make up any material missed as a result of any absence.

Course Requirements and Grading Policies:
Students will be evaluated based on a number of non-trivial assignments, a team project, and a final examination. All tests/examinations are open book.
Assignments: 90% Final- 10%
Undergraduates are evaluated to a more lenient standard compared with graduate students enrolled in the same class. This involves both the amount of work expected, and the quality of that work.

Teaching Strategies:
Lecture format, built around the textbook, the course web site, and other resources, with numerous examples chosen to illustrate the concepts. Questions and discussion are strongly encouraged.

Material Covered:
- Introduction
- What is Perl? Installing Perl, Running Perl, Perl IDEs
- Language Basics
- Arrays
- Hashes
- File Processing
- Regular Expressions
- References
- Data Structures
- Packages & Modules
- Perl Objects & Overloading
- Perl & the Web: CGI
- Perl & Databases
- Perl & Graphics
- Perl & XML
- Other Scripting Languages