Course Name: CS 3723, Programming Languages

Semester: Fall 2014

Instructor Name and Contact Info: Neal R. Wagner, Email: neal.wagner@gmail.com

Number and Time:
- CS 3723, MWF 11:00 – 11:50 am

Final Exam: Thursday, 18 Dec 2014, 09:45 am - 12:15 pm

Course Web Pages: www.cs.utsa.edu/~wagner/CS3723/fall14/index.html

Course Description: Prerequisites: CS 2233 and (2213 or 3443). An introduction to high-level procedural, functional, and object-oriented programming languages, their theoretical foundations, organization, and implementation. Topics include formal syntax, compilers and interpreters, type systems, scoping and activation records, control structures, and data abstraction.

Textbooks: None required

Grade (Tentative factors and percentages):
- Homeworks (12 or 13, none dropped): >= 40%
- In-class quizzes (>= 0 of them): <= 5%
- Mid-term exam (1, no make-ups): >= 20%
- Final exam (emphasis on second half): >= 25%
- Attendance (sign-in sheets): <= 3%

Outline of Topics:

I. Python Programming.

II. Regular Expression Processor. During the first 3 weeks or so we will show how a programming language can handle a regular expression. Specifically, we will show how the language can take an input regular expression $R$ and determine the match data for an input string $S$.

III. Compiler for a Small Language. During the next 5 or 6 weeks we will write a compiler program. You will write complete working code in the Python language.

IV. Investigate Several Other "Strange" Languages. These may include Lisp, Postscript, and Prolog.

Academic Support: This is available from the instructor, the teaching assistant, from CS tutors, and from the Tomás Rivera Center (see www.utsa.edu/trcss).

Course Credit for Completing the Course Evaluation: It’s not good policy to tell instructors which students have completed the evaluation before grades are assigned, so I won’t be giving any points for filling out the form. (But, hey, you should fill it out, and please be nice!)
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