CS5318
Design of Programming Languages
Spring 2006

Contact Information:

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Office</th>
<th>Telephone</th>
<th>Email</th>
<th>Webpage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carol Hazlewood</td>
<td>Nueces 212</td>
<td>512-245-2469</td>
<td><a href="mailto:ch04@txstate.edu">ch04@txstate.edu</a></td>
<td><a href="http://www.cs.txstate.edu/~ch04">http://www.cs.txstate.edu/~ch04</a></td>
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Office Hours:

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<tr>
<th>Day</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
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<tr>
<td>Time</td>
<td>3:00 –4:30</td>
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<td>3:00 –4:30</td>
<td>1:00 –2:30</td>
<td>by appt.</td>
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<td>other times by appointment</td>
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Office hours will be held in Nueces 212 on the San Marcos campus or at a RRHEC location to be announced in class, depending on my lecture location. Lectures and office hours at RRHEC are tentatively scheduled for Jan 23; Feb 13; Mar 6; and Apr 3, 24. Also see the calendar on my web site. Adjustments will be announced, if possible, via email to your txstate.edu address.

Course Contents: This course will cover topics in the design of programming languages including tools for developing and analyzing syntax and semantics.

- Overview of Programming Languages: computational paradigms, language definition, design, and translation
- Criteria for Programming Language Evaluation
- The Role of Abstraction in Programming Languages
- Data Types: type systems and abstract data types
- Control: guarded commands, GOTO controversy, procedures, parameter passing
- Syntax: parsing, context-free grammars, and context-sensitive syntax
- Semantics: attributes, bindings, scope, symbol tables, environment, formal semantics
- Other topics as time permits

Prerequisites: The prerequisite for this class is Data Structures(CS3358) with a grade of C or better. You are expected to have completed the prerequisites for this course, and failure to do so may impair your chances for success in this class. You are encouraged to consult with the instructor promptly if you have not completed the prerequisites.

Text: Programming Languages: Principles and Practice SECOND EDITION by Louden

Grading:

- 40% in-class exams scheduled for Feb 22 and Apr 3.
- 20% final, to be scheduled
- 40% projects and short assignments

Academic Honesty: All work submitted for a grade is expected to be your own. As a guideline, you may talk together, but do not write together. Refer to the Graduate Catalog http://www.gradcollege.txstate.edu/05-07GCatalog/ for the Texas State policy on academic dishonesty.

Attendance: Regular and punctual attendance is expected, and excessive absences may influence your final grade. It is your responsibility to know what goes on during class.

Academic Policies: See http://www.gradcollege.txstate.edu/05-07GCatalog/ for more information about Texas State Academic Policies including probation, suspension, academic honesty, dropping a class, incompletes, grade changes, and withdrawal.

Special Needs: Students with special needs as documented by the Office of Disability Services should identify themselves at the beginning of the semester.

Drop Policy: All drops are done through CATS. It is your responsibility to be familiar with the University policy on dropping classes as described in the Graduate catalog, to observe relevant deadlines, and to follow proper procedures for dropping classes. Students contemplating dropping this class are expected to consult with the instructor beforehand. You may drop this class with a W for 48 hours after the first exam is returned to the class. Thereafter you will receive an F or a W based on your grades on the material due by the day you drop the class. The last day to drop is 20 April at 5 pm.