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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<thead>
<tr>
<th>Day</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
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<tbody>
<tr>
<td>San Marcos</td>
<td>1:00 – 2:00</td>
<td>1:00 – 2:30</td>
<td>1:00 – 2:00</td>
<td>1:00 – 2:30</td>
<td>by appt.</td>
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<tr>
<td>RRHEC</td>
<td>by appointment, see below</td>
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Office hours will be held in Nueces 212 on the San Marcos campus and at a RRHEC location to be announced in class. RRHEC office hours will be 4:00–5:00 pm (before class). Lectures and office hours at RRHEC are tentatively scheduled for January 26, February 23, March 30 and April 27.

Objectives: At the end of this course students should know the history of programming language design; identify programming language abstractions at a variety of levels; apply programming language design tools to new problems; and recognize and use formalisms for describing features in programming languages.

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:

- 30% in-class midterm scheduled for Tuesday 2 March
- 30% final scheduled for Tuesday 11 May, 2:00 – 4:30 pm
- 40% projects and short assignments

At least one project will require programs written in both C++ and in C to run on the Linux laboratory platform maintained by the Department. All work may be checked for originality and papers will be submitted through turnitin.com.

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. This course will adhere to the Texas State Honor Code, http://www.txstate.edu/effective/upps/upps-07-10-01.html, and the Texas State and Department of Computer Science policies on Academic Honesty.

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. Disruptive late arrivals, disruptive use of electronic devices and other uncivil behavior will not be tolerated.

Texas State Email Account: Email concerning this class may be sent to students’ Texas State accounts, and students are expected to have and to monitor their Texas State accounts, either directly or by forwarding from the account.

Academic Policies: See the graduate catalog for more information about Texas State Academic Policies including probation, suspension, academic honesty, dropping a class, incomplete grades, grade changes, and withdrawals from the university.

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 CATSWEB. 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.** The last day to drop is 25 March, 5:00 pm.