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:

<table>
<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>Time</td>
<td>3:00 –4:30</td>
<td>1:00 –2:30</td>
<td>3:00 –4:30</td>
<td>1:00 –2:30</td>
<td>by appt.</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 every third week, mostly on Monday, on September 6(Wed), 25; October 16; and November 6, 27. Also see the calendar on my web site. Adjustments will be announced, if possible, via email to your txstate.edu email address.

Course Contents: This course will cover topics in algorithm design and analysis.

- course overview: complexity, correctness, and optimality
- tools of the trade: asymptotic notation, sums, recurrences, probability
- sorting, searching, and order statistics
- divide-and-conquer strategies
- dynamic programming – assembly line scheduling, matrix chain order, longest common subsequence
- greedy strategies – activity selection, knapsack problems, Huffman coding, minimum spanning trees, Dijkstra’s algorithm
- NP-completeness
- 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.


Grading:

- 3/5 exams (in-class exams scheduled for Sept 25, Oct 30, and Dec 4).
- 1/5 project (using linux/C++).
- 1/5 short assignments or quizzes

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. Projects may be subject to review through TurnItIn. Students in this class are expected to adhere to the Texas State University Honor Code, a link to which is on my website.

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 the Student Handbook for more information about Texas State Academic Policies including probation, suspension, academic honesty, dropping a class, in completes, 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 and the Texas State website, 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 grade in the class. The last day to drop is 20 November.