



The University of North Carolina at Pembroke  
Department of Chemistry and Physics, POB 1510  
Pembroke, North Carolina 28372-1510  
Phone: 910-521-6247  
Fax: 910-521-6638  
Web: [http://www.uncp.edu/chem\\_phy](http://www.uncp.edu/chem_phy)

**Course:** CHM 1300-002/007, "General Chemistry I"

**Term:** Fall Semester 2009

**Meetings:**

section 002: MWF 11:30 am – 12:20 pm in SCI 3202  
section 007: TR 9:30-10:45 am in EDUC 302

**Professor:**

Paul A. Flowers

- *office:* Oxendine 3221, phone 521-6424, voice mail 521-6777
- *home:* phone 910-944-9248 (no calls after 9 pm please)
- *email:* [paul.flowers@uncp.edu](mailto:paul.flowers@uncp.edu)
- *web:* <http://www.uncp.edu/home/paul>

**Office Hours:**

[As posted](#) and by appointment

**Textbook:**

Brown et al., "Chemistry: The Central Science", 11<sup>th</sup> ed., Pearson Education, Inc., Upper Saddle River, NJ: 2009

**Description:**

Composition, structure, and properties of matter, including stoichiometry, atomic and molecular structure and theory, chemical periodicity, [and equilibrium]. Credit, 3 semester hours. PREREQ: MAT 1070 or equivalent.

Consistent with the goals of the UNCP General Education Program, the activities associated with this course are designed to provide students an understanding of the fundamental principles of chemistry and to foster the ability to quantitatively analyze data, to write and speak clearly, and to think critically and creatively.

**Format:**

A combination of lecture, class discussion, and small group work formats will be the primary teaching methods employed in the classroom component of this course. Because of the importance of quantitative data manipulation, students must bring calculators to class to allow for participation in group problem solving sessions. *Cell phones should be turned off and put away during class and laboratory periods unless an exception is approved in advance by the professor.* The [Blackboard](#) course delivery platform will be used throughout the term for electronic dissemination of course materials and related information.

*NOTE: Any student with a documented disability needing academic adjustments is requested to speak directly to Disability Support Services and the instructor, as early in the semester (preferably within the first week) as possible. All discussions will remain confidential. Please contact Disability Support Services, DF Lowry Building, Room 107, or call 910-521-6695 for an appointment.*

**Requirements and Grading:** Graded components of this course will include regular homework assignments, four preterm tests, and a comprehensive final exam. All graded assignments will be scored on a 100-point scale. Course grades will likewise be computed on a 100-point scale based on the average homework score (25 %), the average preterm test score (60 %) and the final exam score (15 %). Letter grades for the course will be assigned according to the following scale: 100-93=A, 92-90=A-, 89-87=B+, 86-83=B, 82-80=B-, 79-77=C+, 76-73=C, 72-70=C-, 69-67=D+, 66-63=D, 62-60=D-, 59 and below=F. These letter grades will then be converted to the 4-point QPA scale by the University Registrar's Office prior to being recorded on student transcripts (see p. 57 of the [UNCP catalog](#)).

**Attendance:** Attendance of all class meetings is an expectation and will likely be necessary to learn the material and perform well on the graded assignments. The campus-wide policy on class attendance is described on pp. 64-65 of the [UNCP catalog](#). Students will be responsible for signing an attendance roster at each class meeting. Though attendance *per se* is not factored into the course grade, students are advised that missed tests may be made-up *only for a compelling reason and if a request is made within 24 hours of the absence*.

**Honor Code:** Students are expected to read and strictly adhere to the UNCP Honor Code (see pp. 65-69 of the [UNCP catalog](#)).

**Schedule:**

Week of	Classroom Topics & Activities (Text Chapter)
Aug 16	organizational meeting; matter & measurement (1)
Aug 23	matter & measurement (continued); atoms, molecules & ions (2)
Aug 30	atoms, molecules & ions (continued)
Sep 6	<i>No class Monday, Labor day</i> ; atoms, molecules & ions (continued)
Sep 13	<b>test #1</b> ; stoichiometry (3)
Sep 20	stoichiometry (continued)
Sep 27	aqueous reactions (4)
Oct 4	aqueous reactions (continued)
Oct 11	<b>test #2</b> ; <i>no class on Thu/Fri, fall break</i>
Oct 18	thermochemistry (5)
Oct 25	electronic structure of atoms (6)
Nov 1	periodicity (7); <b>test #3</b>
Nov 8	bonding (8)
Nov 15	molecular geometry (9)
Nov 22	<b>test #4</b> ; <i>no class on Wed/Thu/Fri, Thanksgiving break</i>
Nov 29	gases (10)
Dec 6	<b>Final exam</b> -- section 007 on Tuesday, Dec 8, 8-10:30 am -- section 002 on Friday, Dec 11, 8-10:30 am

*This publication is available in alternative formats upon request. Please contact Disability Support Services, DF Lowry Building, Room 197, or call 910-521-6695*