

Chemistry 120

Introductory Material

Welcome to Chemistry 120

- Please pick up the
 - *Abridged* class syllabus
 - Student information sheet
- To complete Information Sheet
 - Read abridged syllabus
 - Read full syllabus (on-line)
 - Sign, date and return
- FERPA

Needed Materials

- Textbook
 - Petrucci *et al.* *General Chemistry*, 9th Ed.
- Calculator
- Laboratory Notebook
- Safety Goggles
- [Class Web Page](#)
- Lab Manual on ChemLab.truman.edu
 - Follow Chemical Principles link

Laboratory Safety

- Blackboard Site
 - F09: CHEM 120 Chem. Princ. I (Combined)
- Complete Everything on Checklist by 5:00 PM September 3
 - Read laboratory policies
 - Complete contracts
 - Pass safety quiz (100%)
 - Complete health form and turn in to Heather in MG 1076

Evaluation

- Exams (450 Points)
 - Three exams, each worth 150 pts.
 - Structure
- Final Exam (200 Points)
- Quizzes (150 Points)
 - End of Friday lecture, drop one
- Laboratory (200 Points)
- See Abridged Syllabus

Evaluation

- 1000 Points for the Course
 - > 900 = A
 - 800 - 899 = B
 - 700 - 799 = C
 - 600 - 699 = D
 - < 600 = F
- 20-Point Buffer and Rounding
- Historical Average

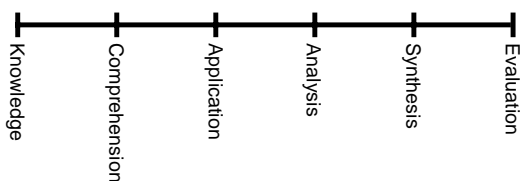
Additional Information

- Make-ups
 - University sponsored events
 - Catastrophes
- Late Penalties
 - 20% per day (unless you see me), until . . .
- Extra Credit
- Students with Disabilities
- Academic Honesty
 - Study groups

Philosophy

- Chemistry is a Science
 - Accepted ways to understand the universe
 - Impractical way to learn
- Chemistry as a Language
 - Vocabulary
 - Syntax and grammar
 - Way of thinking and perceiving the universe
- Chemistry as Critical Thinking

Critical Thinking Skills



"The lack of . . . facility is related to pre-college culture and experiences where learning *that* something is true is emphasized over learning *how* and *why* something is true."
-D. York Young, *Academic Leader* November 1999, p. 5

Required Skills

- Algebra (passed MATH 156 or higher)
- Familiarity with Metric System
 - Prefixes (G-, M-, k-, c-, m-, μ -)
- Physical Properties and SI Units
 - Which unit belong with which property
 - Relationships between units ($1 \text{ cm}^3 = 1 \text{ mL}$)
- Unit Conversion by Factor Analysis
 - Understand and use percentage
- Scientific Notation

Expectations

- Commitment
- Attendance
- Preparation
- Work Hard
- Work Smart
- Use Your Resources
- No Excuses
- Remember, You are not Alone
