

## Syllabus for CHEM 309

Principles of Instrumental Analysis, Fall 2022, MWF 9:00 AM McGlothlin-Street 20  
Thursday 7:00-7:50 PM ISC 1221

Instructor: J.C. Poutsma

Office: ISC 1054, Phone 1-2548, E-mail: jcpout@wm.edu

Office Hours: Tuesday (10:00-11:30) and Wednesday (1:30- 3:00)

**Text:** Harris, *Quantitative Chemical Analysis*, 9 ed. - recommended

**Thursday evenings:** from 7:00-7:50 have been set aside for use for CHEM 309L. The first meeting will be for lab. The remaining meeting times will be used for five quests (half-tests) (REQUIRED) (7:00-7:50), and help sessions (optional) (7:00-7:50). These meetings will be in ISC 1221.

### Grading:

Quests	(225 points)	37.5 %
Problem Sets	(75 points)	12.5 %
Laboratory	(150 points)	25 %
Final Examination	(150 points)	25 %

### Examinations (225 points, 37.5%):

There will be five 50-point quests (quiz/tests). They will be given during the 1-hour block set aside on Thursday evenings (September 22<sup>nd</sup>, October 6<sup>th</sup>, October 20<sup>th</sup>, November 3<sup>rd</sup>, and December 8<sup>th</sup>) from 7–8. These quests will be closed-notes and based on examples given in both the class notes and the text. Your lowest quest grade will only count 50%. Make-up-quests will not typically be given. If you must miss a quest, please submit the reason to me in writing one week in advance. If the excuse is valid, the quest may be taken early. If you are sick, I will prorate the missed quest based on your scores from the other quizzes.

**Final Examination (150 points, 25%)** The final is on Wednesday, December 14<sup>th</sup> at 9:00 AM. The final will be cumulative.

**Homework: (75 points, 12.5%)** There will be seven problem sets given out over the semester. These need to be completed using Gradescope. I will post a .pdf template that you can download, fill out, and then upload with your completed work to Gradescope. There will be more than 75 points available across the homework sets, so your final grade will be adjusted by percentage of the total points to 75 total.

**Laboratory (150 points, 25%)** In the lecture portion of the course, you will learn about modern instrumentation, sample prep and data analysis. To truly understand a chemical instrument, it is often necessary to use that instrument in an experiment. To this end, we have designed 8 experiments to illustrate the instrumental techniques that you will learn in the lecture and to give you an opportunity to see the power of modern instrumentation in action. As CHEM 309 is a 4 credit course with integrated laboratory, the lab portion of the course will comprise 25% of your

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### **Table of Contents Pkg Acp Cer Chem 309 Course 71042**

1. Understanding the eBook Pkg Acp Cer Chem 309 Course 71042
  - The Rise of Digital Reading Pkg Acp Cer Chem 309 Course 71042
  - Advantages of eBooks Over Traditional Books
2. Identifying Pkg Acp Cer Chem 309 Course 71042
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Pkg Acp Cer Chem 309 Course 71042
  - User-Friendly Interface
4. Exploring eBook Recommendations from Pkg Acp Cer Chem 309 Course 71042
  - Personalized Recommendations
  - Pkg Acp Cer Chem 309 Course 71042 User Reviews and Ratings
  - Pkg Acp Cer Chem 309 Course 71042 and Bestseller Lists

5. Accessing Pkg Acp Cer Chem 309 Course 71042 Free and Paid eBooks
  - Pkg Acp Cer Chem 309 Course 71042 Public Domain eBooks
  - Pkg Acp Cer Chem 309 Course 71042 eBook Subscription Services
  - Pkg Acp Cer Chem 309 Course 71042 Budget-Friendly Options
6. Navigating Pkg Acp Cer Chem 309 Course 71042 eBook Formats
  - ePub, PDF, MOBI, and More
  - Pkg Acp Cer Chem 309 Course 71042 Compatibility with Devices
  - Pkg Acp Cer Chem 309 Course 71042 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Pkg Acp Cer Chem 309 Course 71042
  - Highlighting and Note-Taking Pkg Acp Cer Chem 309 Course 71042
  - Interactive Elements Pkg Acp Cer Chem 309 Course 71042
8. Staying Engaged with Pkg Acp Cer Chem 309 Course 71042
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Pkg Acp Cer Chem 309 Course 71042
9. Balancing eBooks and Physical Books Pkg Acp Cer Chem 309 Course 71042
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Pkg Acp Cer Chem 309 Course 71042
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Pkg Acp Cer Chem 309 Course 71042
  - Setting Reading Goals Pkg Acp Cer Chem 309 Course 71042
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Pkg Acp Cer Chem 309 Course 71042
  - Fact-Checking eBook Content of Pkg Acp Cer Chem 309 Course 71042
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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