

Reviewed by: Wes Bargeloh
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**WEST VIRGINIA UNIVERSITY AT PARKERSBURG
UNIFORM COURSE SYLLABUS**

Name of Course: **Fundamentals of Chemistry II Lab** Course No. **Chemistry 116 Lab**

Department: **Chemistry**

Division: **Natural Sciences/Mathematics**

I. Course Objectives

1. To develop expertise in laboratory skills, including but not limited to, making measurements, reproducing experimental work, and determining physical and chemical properties in a quantitative manner.
2. To develop analytical and critical thinking skills.
3. To develop interpretation of data skills.

II. Topics to Be Studied

How will course objectives be met?

1. Student performance of detailed laboratory exercises.
2. Student analysis of collected data.
3. Data comparison to classmates and to standard data.

III. Special Projects to Be Included in Course

Research papers

Reports

Surveys

Annotated bibliographies

Other

NONE

IV. Methods of Student Evaluation

Tests (how many? how often? what type?)

Quizzes

Oral Presentations

Written Papers

Laboratory Activities

Clinical Experiences

Test: Laboratory practical - a test involving a hands-one, performance component and a written component.

Laboratory Reports - weekly report involving calculations of data collected and interpretation of data collected.

V. **Assessment of Outcomes**

**What measurements will be used to demonstrate that outcomes have been reached?
(Refers to class as a whole, not individual students.)**

1. Students will demonstrate a 75% proficiency on laboratory practicals.
2. Students will demonstrate a 100% completion of laboratory exercises.
3. Students will demonstrate a 100% completion of written laboratory reports.

VI. **Other Information**

What additional information will help to clarify the course?

The structure and purpose of the laboratory course is to enhance the understanding of concepts being presented in the lecture component of the Chemistry 116.