

## Course Syllabus

General Chemistry II, Lab  
M 2:00 - 5:00, SC 426

CHE 121L - 011

Spring 2004

Instructor:

Dr. Laura Padolik

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Office Hours:

M, W, F 10:00 - 11:30

Prerequisite:

General Chemistry 120 Lecture and Laboratory

Corequisite:

General Chemistry 121 Lecture

Required Text:

Laboratory Manual General Chemistry II, NKU, Third Edition

Required Materials:

Laboratory Record Book and Safety Goggles

**Blackboard:** Students will be expected to use Blackboard to receive announcements and any additional information about class. Blackboard can also be used to check grades and find useful websites. Attached to the syllabus are the instructions for using Blackboard. Be sure to click on **Student Tools** and update your email address.

**Preparation:** Students are expected to come to lab with a thorough understanding of the principles involved in the experiment, the goals of the experiment and the procedures to be followed. This requires you to read the experiment ahead of time and complete the laboratory record book.

**Lab Record Book:** The laboratory record book will be used to write the protocol for each experiment and to record changes and data collected in each experiment. The protocol must be complete before you will be allowed to carry out the lab. Copies of the protocol and data are to be handed in after the lab is complete. Each record book entry should contain the title, date and purpose of the experiment along with procedure and data. Students will be expected to follow the protocol in their record book without referring to their lab manual. See p. iii-vi in your laboratory manual for more information.

**Prelab Reports:** Pages from lab manual must be filled out and turn in at the beginning of class the day of the experiment. See the schedule for a list of experiments which require prelab exercises. Online copies of the prelab report pages may be found at the General Chemistry Website, see links below.

**Lab Report:** For most experiments the lab report consists of data sheets from the lab manual or handout, calculations and answers to questions at the end of the experiment. All data and calculations must be recorded to the proper number of significant figures. All pages are to be written neatly and turned in stapled and in proper order. For two experiments formal lab reports will be required. See the schedule for more details. Online copies of the report pages may be found at the General Chemistry Website, see links below.

Due Dates: Each report is due at the **beginning** of the lab period following completion of the experiment. Reports handed in after this time are considered late and will be penalized by 10% for each day late. Lab reports later than five days late will not be accepted. Due dates are subject to change.

Safety: All safety rules must be obeyed. Violation of these rules will result in dismissal from the lab and a grade of zero for that experiment. Please see p. vii-viii in your laboratory manual for safety rules. If you have a health problem that may affect your work in the laboratory, please notify your instructor. **No shorts or sandals are allowed in the laboratory.**

Tests: There will be two tests. See the schedule.

Attendance: If a student misses a laboratory experiment with an emergency excuse, a makeup lab may be scheduled by contacting the instructor within 2 week days of the missed lab. The lab must be made up within one week of the missed lab. The student must obtain permission from the makeup lab instructor. Two makeup labs will be permitted. Failure to follow this policy will generally result in a grade of zero for a missed lab.

Grading: The point value for each experiment is shown on the schedule. The points are divided as follows:

Lab Record Book	25 points each	(275 points)
Prelabs	15 points each	(75 points)
Lab Reports	50 points each	(400 points)
Formal Lab Reports & Aspirin	75 points each	(225 points)
Exams	240 points	

Grading Scale:	A	90% of total points
	B	80%
	C	70%
	D	60%
	F	less than 60%

Useful Websites: (For other links-go to Blackboard.)

NKU-Blackboard Log In: <http://learnonline.nku.edu>  
General Chemistry Web Site: [http://www.nku.edu/~chemistry/general\\_chem/](http://www.nku.edu/~chemistry/general_chem/)  
Honor Code: <http://www.nku.edu/~deanstudents/HonorCode.htm>

All students are subject to the Northern Kentucky University Honor Code

If you withdraw from the lecture course, you **MUST** also withdraw from the lab course.

Instructor reserves the right to modify the syllabus at any time during the semester.

Students are required to read and understand the contents of this syllabus. Any questions must be brought to the instructor's attention by January 23, 2004.

Tentative Schedule

Date	Experiment	Prelab*	Report	Points
January 12	Gravimetric Determination of Phosphorus	RB	p. 5-6	75
January 19	No Class			
January 26	Distillation and Gas Chromatography	RB	Formal	100
February 2	Aspirin	RB, PL, p.29		
February 9	Aspirin, cont.		p.31-34	115
February 16	No Class			
February 23	Chemical Equilibrium	RB	p. 53-58	75
March 1	Lab Exam 1			100
March 8	No Class			
March 15	Acids, Bases and Buffer Solutions	RB, PL p.65	p. 67-70	90
March 22	Titration Curve for a Polyprotic Acid	RB, PL, p.75	p. 77-80	90
March 29	Synthesis of SnI <sub>4</sub>	RB	Formal	100
April 5	Electrochemistry	RB	p. 95-98	75
April 12	The Qualitative Analysis of Selected Anions	RB	p.103-104	75
April 19	Nuclear Chemistry	RB, PL p.113	p.115-117	90
April 26	Freezing Point Depression	RB, PL, p.11	p.13-14	90
May 3	Lab Exam 2			140

\*Due before lab.

Other Important Dates,

February 1

Last day to drop the course with an "X"

March 18

Mid-term grades for freshmen

March 27

Last day to drop the course with a "W"