

Syllabus and Schedule

CHE 133 - FALL 2008

	Prelab Lectures	
	Fri	Mon
WEEK 1 Tuesday - Friday, 9/2 - 9/5: Labs do NOT meet - Friday Pre-lab Lecture MEETS		
WEEK 2 Check-in - [ALL Labs and Lectures MEET] Assignment: Read SUSB-001a , SUSB-002 ; and SUPL-001 ; Do Pre-Lab for SUPL-001 Note error in SUPL-001 on p 138 In Laboratory: Watch Safety Video; Complete Safety Quiz; Check-in	9/5	9/8
WEEK 3 Introduction to Laboratory Measurements Assignment: Read SUSB-003 Do Pre-Lab for SUSB-003 In Laboratory: Complete and turn in signed Safety agreement (in SUSB-001a) You must have Safety Goggles beginning with this Laboratory Supplementary Information: Introduction to Significant Figures An analysis of the results of weighing pennies in SUSB-003 A discussion of Averages, Average Deviations and Percent Deviations Calculations for this exercise Slide Show demonstrating weighing by difference	9/12	9/15
WEEK 4 Food Dyes: Spectroscopy and Beer's Law Assignment: Read SUSB-037 , SUPL-004 , SUPL-005 ; Do Pre-Lab for SUSB-037 only Graph Paper can be printed from the Web NOTE: Changes in Procedures Supplementary Information: Review Beer's Law Web pages dealing with dilution Some simple organic nomenclature Slide Show demonstrating use of the Spectronic 20	9/19	9/22
WEEKS 5 & 6 Identification of Food Dyes by Paper Chromatography SEE INDIVIDUAL LAB SECTION SCHEDULES Assignment: Read SUSB-009 ; Do Pre-Lab to SUSB-009 BRING YOUR OWN Food Colors or Colored Foods TEST EXERCISE - UNKNOWN Supplementary Information: Check out these links on chromatography	10/3	9/29
WEEK 7 Preparation of an Alum Assignment: Read SUSB-030 ; Do Pre-Lab Supplementary Information: Calculations for this exercise Soution to post lab problem 1 How to fold filter paper for a gravity filtration , and why. Also, a Slide Show on gravity filtration How to conduct a vacuum filtration Also, a Slide Show on vacuum filtration Some links on Alum	10/10	10/13
WEEK 8 Identification of Household "Chemicals" Assignment: Read SUSB-004 ; Do Pre-Lab to SUSB-004 TEST EXERCISE - UNKNOWN Supplementary Information: Solubilities of Unknown Substances Summary of Procedure (Also posted in laboratory) The logic of the exercise	10/17	10/20

**WEEK 9 Reduction of Vanillin to Vanillyl Alcohol –
Infrared Studies**

10/24 10/27

Assignment: Read SUSB-039; Do Pre-Lab to SUSB-039

Re-read [SUPL-005](#)

Supplementary Information:

The link given at the bottom of p 119 has been changed. A [forwarding link](#) is provided.

Review how to [conduct a vacuum filtration](#) Also, a [Slide Show](#) on [vacuum filtration](#)

[Links to Infrared Spectroscopy](#)

[Instructions for obtaining IR spectra by Diffuse Reflectance](#)

[A review of melting points](#)

WEEK 10 Acid Content of Fruit Juices and Soft Drinks

10/31 11/3

Assignment: Read SUSB-010; Do Pre-Lab to SUSB-010

BRING YOUR OWN beverage

QUIZ 2

Supplementary Information:

[Calculations for this exercise](#)

Use of the [buret](#)

Relative efficiency of [single or multiple rinsing](#)

WEEK 11 Strength of Vinegar by Acid-Base Titration

11/7 11/10

Assignment: Read SUSB-011; Do Pre-Lab to SUSB-011

TEST EXERCISE - UNKNOWN

Supplementary Information:

[Calculations for this exercise](#)

Review use of the [buret](#)

[Links dealing with vinegar](#)

[Slide Show](#) demonstrating [weighing by difference](#)

**WEEK 12 Gasometric Determination of Sodium Bicarbonate
in a Mixture**

11/14 11/17

Assignment: Read SUSB-054; Do Pre-Lab 1

Supplementary Information:

[Calculations for this exercise](#)

WEEK 13 - No Lecture or labs this week [Mon, 11/24 - Fri 11/28]

**WEEK 14 Gravimetric Determination of Sodium Bicarbonate
in a Mixture**

11/21 12/1

Assignment: Read SUSB-054; Do Pre-Lab 2

Weigh out ~1 g instead of 0.5g as specified on p 121

TEST EXERCISE - UNKNOWN

Supplementary Information:

[Calculations for this exercise](#)

REVIEW (optional)

12/5 12/8

WEEK 15 CLEAN UP AND CHECK-OUT

FINAL QUIZ

Check Grades

Check-out