

# CHEM 1152K-Laboratory Syllabus

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## Summer 2017

**Instructor:** Dr. Nilmi Fernando

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**Office:** 434D Kell Hall

**Office Hours:** F 9:30 - 11:30 am

**Phone:** 404-413-5490

**Laboratory:** MW 8:45 am – 11:40 am

Pre-lab 8:45 am – 9:30 am (218NSC)

Lab 9:30 am – 11:40 am (348NSC)

**Class Attendance:** Students are expected to attend all laboratory sessions. There is no allowance for an exemption from any chemistry experiment.

**Make-up Labs:** No make-up labs are allowed.

**Pre-lab Quiz:** Students will answer a pre-lab quiz at the start of **every** pre-lab lecture. **NO MAKE-UP QUIZES ARE ALLOWED.**

**Late Assignments:** You are supposed to turn in an assignment at the end of every lab session. Late assignments will be penalized 2 points.

**Electronic Calculators:** Students are required to have non-programmable scientific calculators available during every lab session.

**Lab Final Exam:** Students are **required** to take a closed book Departmental Laboratory Final Exam in order to receive a passing grade in the course. **NO MAKE-UP LABORATORY FINAL EXAM WILL BE GIVEN.** Students are not allowed to share calculators during exam.

**Check-out Procedure:** Students have to check-out of the laboratory before the final exam. Failure to check-out will result in a \$ 20.00-30.00 charge to your student account.

**Notebooks:** A stitch bound composition note book is required. Students are supposed to write a summary of each experiment in their notebook. A pre-lab with purpose, procedure and equipment and supplies should be written prior to lab. After the lab, experimental should be completed with a discussion and conclusion. Notebooks will be checked before the pre-lab.

**Tentative Lab Schedule; deviations may be necessary.**

<b>Day</b>	<b>Experiment</b>	<b>Manual Pages</b>
06/07/17	Orientation, safety video and check-in	5-13
06/12/17    Expt. 1	Molecular confirmations: Structural and geometric isomers	27-32
06/14/17    Expt. 2	Density measurements and specific gravity	39-41
06/19/17    Expt. 3	Determination of physical properties of organic compounds	47-56
06/21/17    Expt. 4	Titration of an antacid	61-66
06/26/17    Expt. 5	Characterization of pure and commercial aspirin	71-74
06/28/17    Expt. 6	Stereoisomerism	79-84
07/03/17    Expt. 7	Carbohydrates: properties and characterization	89-95
07/05/17    Expt. 8	Saponification of Lipids	101-104
07/10/17    Expt. 9	Proteins: properties and denaturation	107-114
07/12/17    Expt. 10	Enzymatic catalysis	121-126
<b>07/17/17</b>	<b>Lab Final Exam</b>	<b>8:45 am in 218 NSC</b>