

# Physical Chemistry II – 3542L

Spring, 2017

Lab: T 12:30 – 1:30 p.m.

**Professor:** Dr. Aimée Tomlinson  
**Office:** Rogers Hall 206  
**Phone:** 706-867-3232  
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**Office Hours:** TR 10:50 – 12:20 and by appt

**Prerequisites:** A passing grade in chemistry 1212 lecture and lab, Calculus I (and preferably Calculus II), Physics I and II (preferably calculus-based), Analytical Chemistry, and Physical Chemistry I (Quantum).

**Course Objective:** This course is the lab component of the two-semester physical chemistry sequence. It is intended for students who plan on majoring in the chemistry. It will give students a hands on experience for concepts presented in the two semester of physical chemistry.

**Required Text:** *Physical Chemistry: A Molecular Approach* by McQuarrie and Simon; University Science Books, 1997 (ISBN: 0-935702-99-7)

**Web Sites:** <http://faculty.ung.edu/altomlinson/>  
<http://www.facebook.com>

**Also Required:** Calculator with exponential and logarithmic functions (if it is programmable I will make you erase the memory prior to a test), a functioning writing tool, paper, and enough caffeine to make sure you stay awake from 2:30 – 5:05 p.m on Thursday.

**Course Evaluation:** Final course grades will be computed/evaluated according to the allocations below.

Lab reports	100%
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Each report must be completed and turned in exactly one week after the completion of each experiment. **Absolutely no exceptions will be made with relation to this stipulation.** There will be an attached handout which details the form of your lab report write-ups. I will be giving final grades based on a straight 90, 80, 70, 60 percentage. As such you must obtain a score of at least 60% in order to pass this course.

**Extra Credit:** There is none so don't ask.

**Schedule:** Some material may be either deleted or supplemented from the schedule below.

Week	Date	Experiment	Labs are due by noon
1	1/10/16	Introduction	
2	1/17/16	Data Analysis	
3	1/24/16	No Lab	Data Analysis
4	1/31/16	Error Propagation	
5	2/7/16	No Lab	Error Propagation
6	2/14/16	CO2 Lab	
7	2/21/16	Particle in a Box	CO2 Lab
8	2/28/16	Excel Macros	Particle in a Box – CO - rewrite
9	3/7/16	No Lab	Excel Macros – PIB - rewrite
10	3/21/16	HCl/DCI	
11	3/28/16	No Lab	
12	4/4/16	HCl/DCI	
13	4/11/16	No Lab	HCl/DCI
14	4/18/16	No Lab	HCl/DCI – final version
15	4/25/16	No Lab	

**Formal Reports:** Should be written in the style of an ACS publication with the following sections: Abstract, Introduction/Theory, Experimental, Results/Discussion, Conclusions. I will provide a handout for you.

#### **Academic Integrity Code:**

University of North Georgia is dedicated to providing an educational climate characterized by integrity. Academic integrity, in particular, must be the cornerstone of an institution of higher learning and must pervade all segments of the University community. Furthermore, academic integrity is the mutual responsibility of the various constituencies (students, faculty, staff, and administration) which comprise the University.

#### **Academic Integrity Defined**

The following regulations define the concept of academic integrity and should be useful in determining standards and attitudes appropriate for optimal intellectual functioning.

1. No student shall receive or give assistance not authorized by the instructor in the preparation of any essay, laboratory report, examination, or other assignment included in an academic course.
2. No student shall take or attempt to take, or otherwise procure in an unauthorized manner, any material pertaining to the conduct of a class, including but not limited to tests, examinations, laboratory equipment, and roll book.
3. No student shall sell, give, lend, or otherwise furnish to any unauthorized person material which can be shown to contain the questions or answers to any examinations scheduled to be given at any subsequent date in any course of study offered by the university, without authorization from the instructor.
4. No student shall plagiarize. Themes, essays, term papers, tests, and other similar requirements must be the work of the student submitting them. When direct quotations are used, they must be so indicated and when ideas of another are incorporated in the paper, they must be appropriately acknowledged.
5. No student shall resubmit her/his graded material from other courses or from previous assignments for a current assignment without permission of the instructor.
6. No student shall sign class rolls for another student.

#### **Integrity Code**

The integrity code, on my honor, "I will not lie, cheat, steal, plagiarize, evade the truth or tolerate those that do," symbolizes UNG's commitment to academic integrity.

**Class Evaluations:**

Class evaluations at UNG are conducted on-line through Banner. Evaluation of the class is considered a component of the course and students will not be permitted to access their course grade until the evaluation has been completed. The evaluations will be accessible beginning one week prior to Final Exam week.

**Disabilities and Accommodations:**

The University of North Georgia is committed to equal access to its programs, services, and activities, and welcomes otherwise qualified students with disabilities. Students who require accommodations and services must register with Disability Services and submit the supporting documentation. Disability Services provides accommodation memos for eligible students to give to their instructors. It is the student's responsibility to initiate making arrangements with the instructor for any necessary accommodations, and reasonable prior notice of the need must be given to the instructor.

Disability Services contact for Dahlonega campus:

Thomas McCoy, Director of Student Disabilities Services

Stewart Student Success Center, Room 313, (706 867-2782)

**My Pet Peeves:**

- any form of cheating
- cell phones
- any disrespectful behavior be it towards me or your peers
- ipods or anything that would distract you from class
- whining – I absolutely hate it!

**Ways to reach me:**

- email
- by phone (if I am in the office)
- facebook
- during my office hours

**My Website will include:**

- lab handouts
- formal lab report instructions
- group work handouts including the survey
- important dates