

# General Chemistry 1A

## Syllabus

### Instructor:

Amanda Holton

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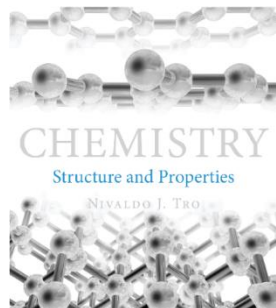
949-824-2546

Rowland Hall 580C.

### Course Hosting:

The Course will be run using Canvas as our learning management system. The homework, will be integrated into the LMS, so please ensure you sign up for the Mastering homework through the Canvas interface.

You will be emailed an enrollment code for canvas after enrolling in the course.



### Book:

“Chemistry: Structure and Properties 1e” Nivaldo J. Tro

**Online Homework System: Mastering Chemistry**

**Packaged Deals Available for Decreased Cost:**

1) Chemistry: Structure and Properties **Modified Mastering**Chem Package for UC Irvine, **2nd ed.** [Hardbound]

1) 10: 1269881485 **\*Correct ISBN's**  
13: 9781323132593

2) Chemistry: Structures and Properties, Books a la Carte Plus**Modified Mastering**Chemistry with eText - Access Card Package, 1st ed.

2) 10: 0321974611 **\*Correct ISBN's**  
13: 9780133908695

3) **Modified Mastering** Chemistry with eText for Chemistry, Structure and Properties, 1st ed. [Standalone access at Bookstore]

3) 10: 0321934636 **\*Correct ISBN's**  
13:9780321973863

[www.pearsonmylabandmastering.com](http://www.pearsonmylabandmastering.com)

"OPTIONAL"

4) Student Solutions Manual for for Chemistry: Structure and Properties

4) ISBN-10: 0321965299  
ISBN-13: 9780321965295

## **Course outline.**

Week 0: Review (Chapters 1, 2, 5 and 8)

Week 1: Introduction to Quantum Mechanics (3.1-3.3)

Week 2: Quantum Mechanics continued (3.3-3.6)

Week 3: Review and Quantum Mechanics (4.3 and 4.4)

Week 4: Bonding and Periodic Trends (4.6-4.8, 5.1-5.8, 6.2)

Week 5: Molecular Orbital Theory and Lewis Structures (6.3-6.5, 7.2, 7.4, 7.6, Review 5.4 and 5.7)

Week 6: Advanced topics in bonding (5.12 and 6.3-6.10)

Week 7: Review and Exam

Week 8: Valence Bond Theory and Hybridization (7.1-7.3)

Week 9: Gases (8.2-8.5, 11.2-11.6, 11.10)

Week 10: Kinetic Molecular Theory of Gases (11.7-11.9, 11.11)

## **Grading**

Homework: 6%

Video Assignments and Discussion Forums: 4%

Midterm 1 (Week 3):22%

Midterm 2 (Week 7): 22%

Final Exam: 46%

## **Discussions:**

Online Discussions will be optional. Due to the small class size we will determine discussion times after enrollment is determined so as to accommodate as many people's schedules as possible. There will be three available times.

## **Office Hours:**

Optional synchronous online office hours with the professor and TA will be available weekly. Times TBA.

## **Exams**

Exams will be proctored in person. The tentative dates for this will be:  
Thursday evening 10/15 and 11/12 Time: 6-8

And the final exam will be Tuesday 12/8 6-8.

For students near campus we ask that you make every effort to attend these, it is free for you and will save you the cost of ProctorU services. If attendance is impossible please contact the instructor by week 2 to make other arrangements.

For students not on the UCI campus, exams will be proctored through ProctorU for a small fee. Please contact the instructor as soon as you enroll to make these arrangements.