

# CHEMISTRY 311

## Syllabus for Lecture and Discussion

### Fall 2012

**Professor:** Dr. Deyang Qu

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**Office hours:** TuTh 11:00-12:30

**Office:** Science Building RM-1-129

**Lecture:** TuTh 9:30-10:45 (W-02-158)

**Discussion:** Tu 8:00-9:15 (W-02-158)

**Objectives:** This course will focus on the fundamental theory and applications for the analytical chemistry. Four major areas will be covered: traditional wet chemistry analysis; electrochemical analysis; spectroscopy, and separation science. The theory behind the techniques will be discussed as well as the basic areas of application in the lecture and discussion.

**Text:** Quantitative Chemical Analysis, 8<sup>th</sup> Edition by Harris

**Grading:** 3 Exams (wet chemistry 25%, electrochemical analysis 25% and final 50%), final examination will include spectroscopy and separation. There will be no makeup exams.

#### Grading Scale:

| Grade | Total Points |
|-------|--------------|
| F     | <60          |
| D-    | 60           |
| D     | 64           |
| D+    | 67           |
| C-    | 70           |
| C     | 74           |
| C+    | 77           |
| B-    | 80           |
| B     | 84           |
| B+    | 87           |
| A-    | 90           |
| A     | 94           |

**Academic dishonesty:** *“It is the expressed policy of the University that every aspect of academic life not only formal coursework situations, but all relationships and interactions connected to the educational process shall be conducted in an absolutely and uncompromisingly honest manner. The University presupposes that any submission of work for academic credit indicates that the work is the student’s own and is in compliance with University policies.....”* It is OK to get help on a question from a classmate anytime except during the exams. If there is any question in your mind about whether or not the action you are about to undertake constitutes cheating, IT DOES, and DO NOT PROCEED!!

**Attendance:** You are expected to attend all lectures and discussions.

**Homework and Discussion Sections:** Ten problems will be given each week as homework. During the discussion section, group discussion will be engaged to solve the home work questions. *You are strongly encouraged to finish all the homework questions, because 40% of the questions in all the exams will be directly from the homework.*

**Lecture Schedules:**

September 4 – October 11: Wet Chemistry Analysis, Chapter 6 -11

October 16: Review – No discussion.

October 23: 1<sup>st</sup> examination

October 18, 25 – November 8: Electrochemical Analysis, Chapter 14 – 16

November 13: Review – No discussion.

November 20: 2<sup>nd</sup> examination (11/22/12 Thanksgiving, No class)

November 15, 27 – December 12: Spectroscopy and separation. December

15: Final review.