

Chem400

General Chemistry

Instructor: Prof. Maddox

Please Note

- For the rest of the semester, this lab section will run from **8.00 am to 10.50 am** (not 7.45 am to 10.50 am)
- Wait-listed students can get access to class materials for the first week at;
http://www.arc.losrios.edu/Faculty_Web_Pages/Michael_Maddox.htm

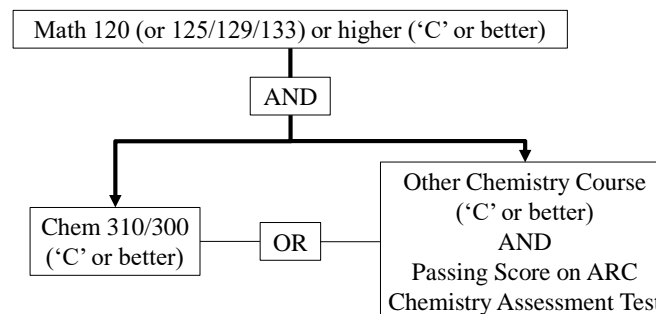
Paperwork

- Please pick up;
 - ⇒ **1 syllabus** – read this carefully, as you will be taking a 10 question multiple-choice test on the “Syllabus Lite” section **at the start of the next lab**
(syllabus also available on Canvas and at;
http://www.arc.losrios.edu/Faculty_Web_Pages/Michael_Maddox.htm)
 - ⇒ **1 lab safety form** (pink) – **another one is in your lab manual**
- **Enrolled students only** please pick up;
 - ⇒ **1 waiver form** (white)Turn in the following form now;
 - ⇒ **1 completed** waiver form (white) – **Parent/Guardian must sign if you are under 18 years old**

Class Roster

- Roll Call
 - ⇒ the **3 highest placed students on the waiting list** will be enrolled in the class
 - ⇒ **enrolled students** who are absent and fail to contact me within 48 hours will lose their spot on the roster and be replaced by the highest placed student from the waiting list
 - ⇒ **wait-listed students** will immediately lose their place on the waiting list if they are not present at the start of their lab period
- Permission slips
 - ⇒ students added from the waiting list must register online by midnight, **and pay their fees, or they will lose their spot**
- Wait-listed students who still wish to add should attend lecture and lab through Thursday, January 24
 - ⇒ If any student drops the class before Monday 1/28 at 5 pm, the highest placed student(s) from the waiting list will be added
 - ⇒ **No student will be added to this lab section after Mon 1/28**

Prerequisites



Prerequisites

- **Math 120 (or 125/129/133) or higher**
⇒ I have most math class grades within the Los Rios District.
Otherwise, show transcripts to me by 5 pm on Mon, 1/28
- **Chem 310, Chem 309 ('C' or better)**
⇒ I have this information
- **Chem 305, Chem 300 ('C' or better)**
⇒ Show transcripts (online or paper) to me by 5 pm on Mon, 1/28
- **Other Chemistry Class – High School or Out of District ('C' or better)**
⇒ Show transcripts to a [counselor](#) in Student Services and then show me the [prerequisite slip from your counselor](#) by 5 pm on Mon, 1/28
- **Chemistry Assessment Test**
⇒ You must take the Chem 400 assessment test at Student Services and show me the results (in person or by email) by 5 pm on Mon, 1/28 (you need at least 20/44 to pass)
- **If all prerequisites have not been met by 5 pm, Mon, 1/28, you will be dropped from the class and your place will be filled from the wait-list**

Math Prerequisite

Show math class transcripts to instructor

- Barajas Gonzalez, Juan P
- Boyle, Courtney M
- Cordova, Hunter R
- Cueto, Marco Luis G
- Matson, Lisa M
- Livesay-Kosh, Kailie K
- Cheung, Serena
- Carey, Joshua A
- Hale, Evan P
- Vecherkovskiy, Sophia V

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Completed All Prerequisites

- Angleton, Carolyn
- Bains, Sumeet K
- Davis, Cody D
- Elzahery, Jasmine S
- Fluegel-Mansker, Brienne
- Foster, James B
- Galloway, Rose
- Hernandez, Marcos I
- Hernandez, Nataly
- Meador, Mikail J
- Melnik, Dana
- Monroe, Bobby
- Riley, Adreiona M
- Ahmad, Safi
- Clark, Chelsea Q

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Chemistry Assessment Test

Show test results page to instructor
(unless you've passed Chem 300)

- Barajas Gonzalez, Juan P
- Boyle, Courtney M
- Cho, Jeff
- Cordova, Hunter R
- Cueto, Marco Luis G
- Ramirez, Casey A
- Rotheram, Jacob M
- Wilson, Derick T
- Wilkendorf, Zachery S
- Cheung, Serena
- Jakab, Jonathan B
- Tilja, Erik I
- Hale, Evan P

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Chemistry Class Prerequisite

Show Chem 305 or Chem 300 transcripts to instructor
OR

- 1) Show other chemistry class transcripts to a [counselor](#)
- 2) Show [counselor's verification](#) to instructor

- Barajas Gonzalez, Juan P
- Cho, Jeff
- Cordova, Hunter R
- Cueto, Marco Luis G
- Rotheram, Jacob M
- Wilson, Derick T
- Wilkendorf, Zachery S
- Tilja, Erik I
- Hale, Evan P
- Cheung, Serena
- Jakab, Jonathan B

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Scientific Method Activity

- We are going to demonstrate the scientific method by playing a game of “20 Questions” to try to find the identity of an object
- But you only get 5 questions
- You can ask questions about the object, but you can't ask “is it a _____?”
- Work in groups of 2 – 5 people
- Start by writing your first five guesses on the handout sheet
- As each question is asked, write it down, along with the answer and your next five guesses (some or all may be unchanged)
- Continue like this until all 5 questions have been asked
- Write a short conclusion

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Equipment

- By **Tues, January 29** you **must** have;
 - ⇒ Chem 400 Lab Manual, Maddox Version, 11th Edition (green cover - available at ARC bookstore)
 - ⇒ Carbonless Duplicating Laboratory Notebook (available at ARC bookstore)
 - ⇒ Appropriate clothing and footwear (see syllabus)
 - ⇒ Lab goggles (approved types only)

Lab Safety

- Carefully read through the pink safety sheet
- Answer the questions on the Lab Safety Quiz (you can use the pink safety sheet to help you)
- Correct any answers you got wrong as we go through the quiz together
- Sign and date the last page of the pink safety sheet and turn it in along with the Lab Safety Quiz now

Scientific Method Activity

Summary

- The less information (experimental data) you have, the more hypotheses are possible
- Running experiments provides data that allows you to reduce the number of hypotheses
- The more data, the better (use other people's data, where possible)
- It doesn't matter what your initial hypothesis is – if you use the scientific method you should still finish with the correct hypothesis
- Poorly planned experiments may provide useless or ambiguous information
- The conclusion should summarize what you know and include how confident you are

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