

Chem400

General Chemistry

Instructor: Prof. Maddox

Please Note

- For the rest of the semester, this lab section will run from **1.00 pm to 3.50 pm** (not 12.45 pm to 3.50 pm)
- 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

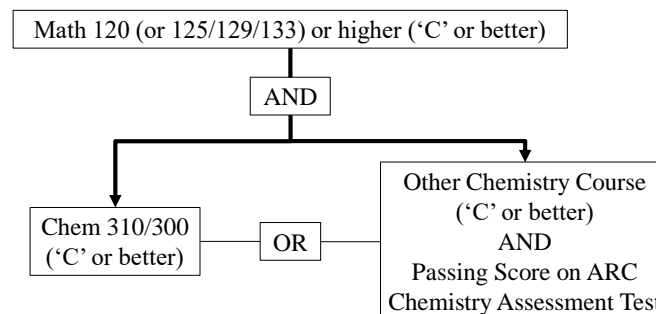
Paperwork

- 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 18
 - ⇒ If any student drops the class before Monday 1/22 at 6 pm, the highest placed student(s) from the waiting list will be added
 - ⇒ **No student will be added to this lab section after Mon 1/22**

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 6 pm on Mon, 1/22
- **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 6 pm on Mon, 1/22
- **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 Mon, 1/22 at 6 pm
- **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 6 pm on Mon, 1/22 (you need at least 20/44 to pass)
- **If all prerequisites have not been met by 6 pm, Mon, 1/22, 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

- Frederickson, Cameron B
- Tran, Tyler M
- Warden, Daniel E
- Zuberi, Sarah Z
- Donoghue, Taylor N
- Loya, Nicole P
- Diaz, Katrina S
- Rivera, Jeremy P

7

Completed All Prerequisites

- Ahdnoparven, Zahra
- Arciga, Christopher
- Awadees, Rafi S
- Clesi, Joshua D
- Gonzalez, Michael A
- Hall, Brittany M
- Lopes, Brandon Jameseric
- Omary, Mohammad E
- Phomsopha, Caitlin K
- Rodriguez, David A
- Solovyev, Joseph J
- Strang, Ashley R
- Sanchez, Jesbaam A
- Chen, Manhua
- Hernandez, Nataly
- Sanchez-Ascencio, Edwin
- Amin, Rehan

6

Chemistry Assessment Test

Show test results page to instructor

- Alaman, Nino Christian L
- Frederickson, Cameron B
- Gimon, Jessie
- Hussein, Jassim M
- Kaur, Ria
- Moran, Gabriel G
- Oselsky, Erica
- Pagdayunan, Grace D
- Tran, Tyler M
- Warden, Daniel E
- Yousuf, Selma
- Zuberi, Sarah Z
- Donoghue, Taylor N
- Loya, Nicole P
- Diaz, Katrina S
- Rivera, Jeremy P
- Nelson, Kamari J
- Decosta, Avery R
- Suan, Micah
- Felisarta, Ellen Marie
- Ly, Liane
- Hall, Christopher J
- Van Zyl, Marius C
- Rim, John A
- Shahbazi, Shayan

8

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

- Alaman, Nino Christian L
- Frederickson, Cameron B
- Gimon, Jessie
- Hussein, Jassim M
- Kaur, Ria
- Moran, Gabriel G
- Tran, Tyler M
- Warden, Daniel E
- Yousuf, Selma
- Zuberi, Sarah Z
- Donoghue, Taylor N
- Loya, Nicole P
- Diaz, Katrina S
- Rivera, Jeremy P
- Nelson, Kamari J
- Decosta, Avery R
- Suan, Micah
- Felisarta, Ellen Marie
- Ly, Liane
- Hall, Christopher J
- Van Zyl, Marius C
- Rim, John A
- Shahbazi, Shayan

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

11

Equipment

- By **Tues, January 23** you **must** have;
 - ⇒ Chem 400 Lab Manual, Maddox Version, 10th 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

- Follow along as we read through the pink safety sheet
- Sign and date the sheet and turn it in now

10

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

12