

Chem400

General Chemistry

Instructor: Prof. Maddox

Please Note

- For the rest of the semester, this lab section will run from
9.30 am to 12.20 pm (not 9.15 am to 12.20 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

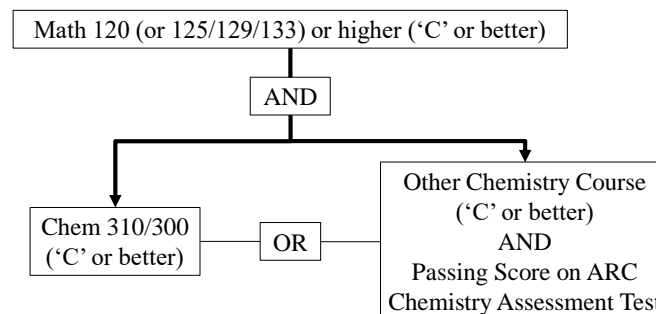
Paperwork

- 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 Monday, January 28
 - ⇒ 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

- Andryushchenko, Jess
- Cardenas, Steven R
- Chen, Allen
- Howell, Jesse D
- Robertson, Tiffany R
- Salas, Elias B
- Sharma, Anshul
- Ervin, Mitchell R
- Dhillon, Arjen S

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Completed All Prerequisites

- Arshad, Laiba N
- Cao, Nghi T
- Priebe, Kaitlynne A
- Tran, Dao Phuong L
- Weldeslassie, Haben D
- Zhelezoglo, Nataliya
- Coleman, Mozett Y
- Davis, Marvin V
- Parsons, Christopher C

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Chemistry Assessment Test

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

- Andryushchenko, Jess
- Biag, Brix M
- Blake, Ryan M
- Boparai, Jasmin K
- Cardenas, Steven R
- Chen, Allen
- Ginter, Rochelle J
- Howell, Jesse D
- Liu, Wen
- Medicott, Whitney L
- Mouhasseb, Lilian M
- Robertson, Tiffany R
- Salas, Elias B
- Sharma, Anshul
- Solomon, Stephen V
- Stremmel, Serena L
- Turner, Kathryn
- Ervin, Mitchell R
- Kaur, Navkirandeep
- Dhillon, Arjen S
- Legaspi, Edgar T
- Lee, Gabriella C

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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

- | | |
|------------------------|----------------------|
| • Andryushchenko, Jess | • Salas, Elias B |
| • Biag, Brix M | • Sharma, Anshul |
| • Blake, Ryan M | • Solomon, Stephen V |
| • Boparai, Jasmin K | • Stremmel, Serena L |
| • Cardenas, Steven R | • Turner, Kathryn |
| • Chen, Allen | • Ervin, Mitchell R |
| • Ginter, Rochelle J | • Kaur, Navkirandeep |
| • Howell, Jesse D | • Dhillon, Arjen S |
| • Liu, Wen | • Legaspi, Edgar T |
| • Medlicott, Whitney L | • Lee, Gabriella C |
| • Mouhasseb, Lilian M | |
| • Robertson, Tiffany R | |

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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 **Weds, January 30** 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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