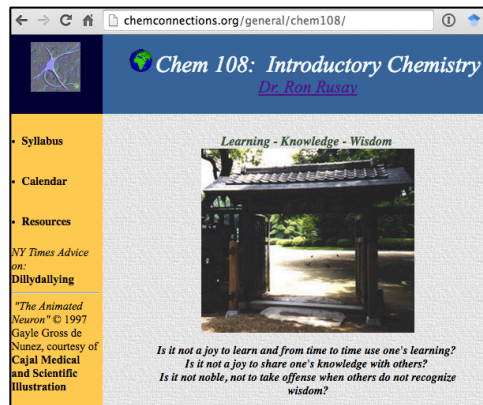


# Greetings & Welcome to Chem 108

## Introductory Chemistry

<http://chemconnections.org/general/chem108/>

*If you are enrolled or on the wait list, please pick up a course Syllabus @ the front of the class.*



*Please hold ALL of your questions. They will be answered shortly in the slides that follow.*

Dr. Ron Rusay

Class: **MW 11:10-12:35** (PS 277)

Discussion/Lab:

**12:45-3:55 M** (PS 217) sec. 2341

**12:45-3:55 W** (PS 217) sec. 2343

# *Greetings & Welcome to Chem 108*

## Introductory Chemistry

<http://chemconnections.org/general/chem108/>



# Message from President

*Susan E. Lamb*

**DVC** DIABLO VALLEY COLLEGE

*“I am very glad that you are here and I want you to feel welcome, safe and connected to our college. DVC values each and every one of you, and does not tolerate racist attitudes or hate speech of any kind. If you see or hear anyone spreading hate language anywhere on our campus, please tell me or contact Newin Orante (Vice President of Student Services) or Police Services. We take such incidences very seriously and will pursue and prosecute hate crimes on our campuses.”*

# Chem 108

<http://chemconnections.org/general/chem108/108syl19f.html>

- Please be sure to sign the roster next to your name on the clipboard that is circulating.
- The rosters and wait lists are full. The sections are closed. If you are not listed, there is no way to add.
- **Class size is limited to 28 max due to lab safety.**  
Anyone on the roster who is absent today will be placed last on the roster after the wait listed sign-ins.
- **28 lab drawers** will be assigned in lab to the first 28 on the completed list. **Add codes will be provided at the end of the first lab meeting: Today & Wednesday.**

# CONNECTIONS

*Show of hands for each choice (A-D)*

I personally have or have easy (24/7) access to:

- A. a smart phone
- B. a personal computer
- C. the Internet
- D. a printer

*If you **DO NOT** have a smartphone or **DO NOT** have easy access to B.), C.), or D.), please make an appointment to meet with Dr. R. as soon as possible to get more information and work out a plan to conveniently use them. It is essential that you can use certain technology; all but smartphones are available for use on the DVC campus.*

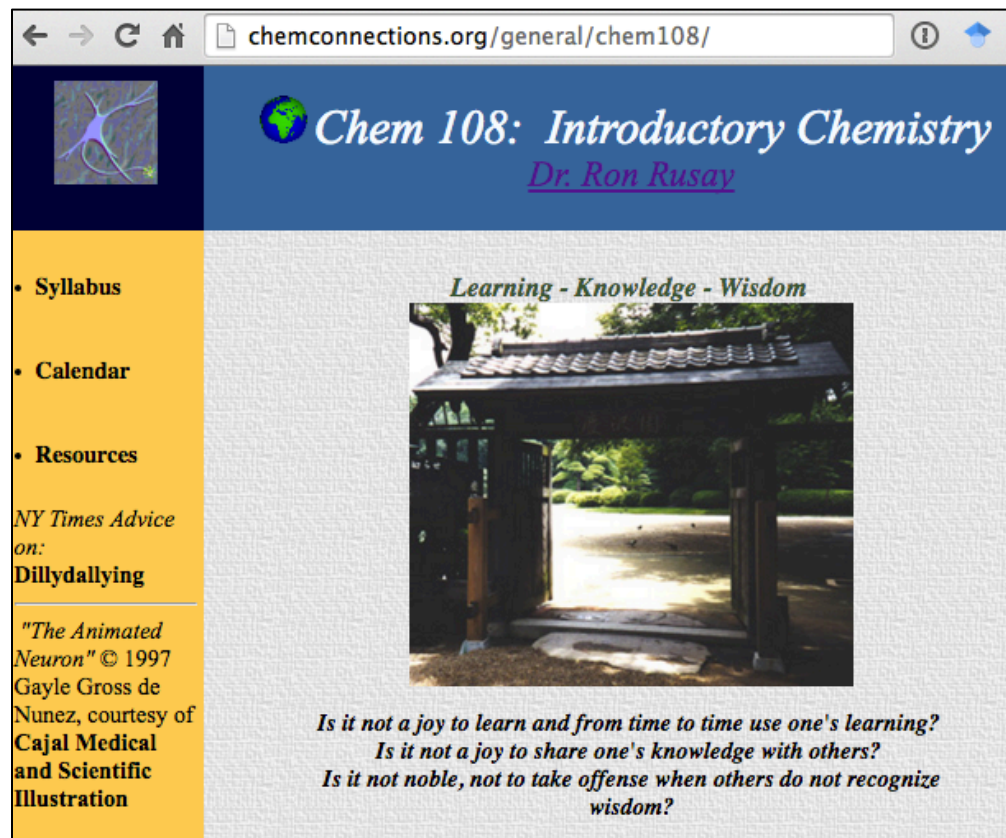
**Take out your smart phone.**

**If you don't have it with you, introduce yourself to a class mate and share theirs.**

Open DVC wifi.  
Connect to the Internet.  
Go to:

<http://chemconnections.org/general/chem108/>

**Click on Syllabus link**

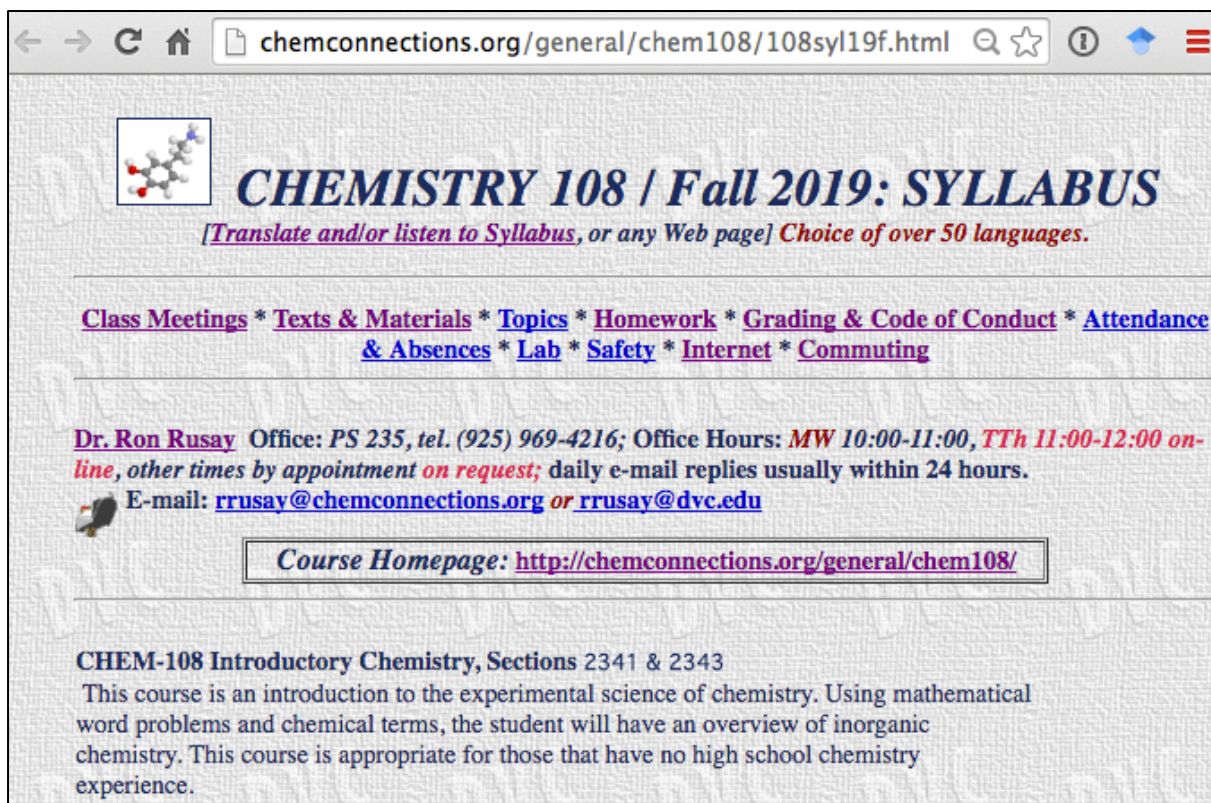


The screenshot shows a web browser window with the address bar containing [chemconnections.org/general/chem108/](http://chemconnections.org/general/chem108/). The page features a blue header with a globe icon and the text "Chem 108: Introductory Chemistry" and "Dr. Ron Rusay". A yellow sidebar on the left contains a navigation menu with links for "Syllabus", "Calendar", and "Resources". Below the menu, there is a section titled "NY Times Advice on: Dillydallying" and a quote: "The Animated Neuron" © 1997 Gayle Gross de Nunez, courtesy of Cajal Medical and Scientific Illustration. The main content area has a white background with the text "Learning - Knowledge - Wisdom" above a photograph of a traditional Japanese torii gate. Below the photo, there are three lines of text: "Is it not a joy to learn and from time to time use one's learning?", "Is it not a joy to share one's knowledge with others?", and "Is it not noble, not to take offense when others do not recognize wisdom?"

# Chem 108

<http://chemconnections.org/general/chem108/108syl19f.html>

## Syllabus link



The screenshot shows a web browser window with the address bar containing the URL [chemconnections.org/general/chem108/108syl19f.html](http://chemconnections.org/general/chem108/108syl19f.html). The page features a molecular structure icon on the left and the main heading **CHEMISTRY 108 / Fall 2019: SYLLABUS**. Below the heading is a note: *[Translate and/or listen to Syllabus, or any Web page] Choice of over 50 languages.*

A horizontal menu lists various course topics: [Class Meetings](#) \* [Texts & Materials](#) \* [Topics](#) \* [Homework](#) \* [Grading & Code of Conduct](#) \* [Attendance & Absences](#) \* [Lab](#) \* [Safety](#) \* [Internet](#) \* [Commuting](#)

Below the menu, the instructor's information is provided: **Dr. Ron Rusay** Office: PS 235, tel. (925) 969-4216; Office Hours: **MW 10:00-11:00, TTh 11:00-12:00 on-line**, other times by appointment *on request*; daily e-mail replies usually within 24 hours. E-mail: [rrusay@chemconnections.org](mailto:rrusay@chemconnections.org) or [rrusay@dvc.edu](mailto:rrusay@dvc.edu)

A box highlights the **Course Homepage**: <http://chemconnections.org/general/chem108/>

The page concludes with the course title **CHEM-108 Introductory Chemistry, Sections 2341 & 2343** and a paragraph describing the course as an introduction to experimental chemistry using mathematical word problems and chemical terms, suitable for students with no high school chemistry experience.

# CONNECTIONS

## Chemistry, STEM & Applications

Why am I enrolling in CHEM 108?

- A. It is a required course that is needed to meet my higher education goals. I have to take it.
- B. Chemistry is very easy to me and I need the 4 credit A to boost my GPA.
- C. I am very interested in science and chemistry.
- D. I'm not sure.

*Show of hands; i-clickers or Reef App to be used in future class meetings.)*  
<https://app.reef-education.com/#/account/create>



# CONNECTIONS

## Chemistry, STEM & Applications

My plan after completing Chem 108 is to:

- A. take *General Chemistry* : (If @ DVC: Chem 120)
- B. take *Integrated Inorganic, Organic, and Biological Chemistry*: (If @ DVC: Chem 107)
- C. take *Introduction to Organic and Biochemistry*: (If @ DVC: Chem 109).
- D. NOT** take other chemistry courses after Chem 108.

*Show of hands; i-clickers or Reef App to be used in future class meetings.)*

*<https://app.reef-education.com/#/account/create>*

# CONNECTIONS

## Requirements Met by DVC Chemistry Courses

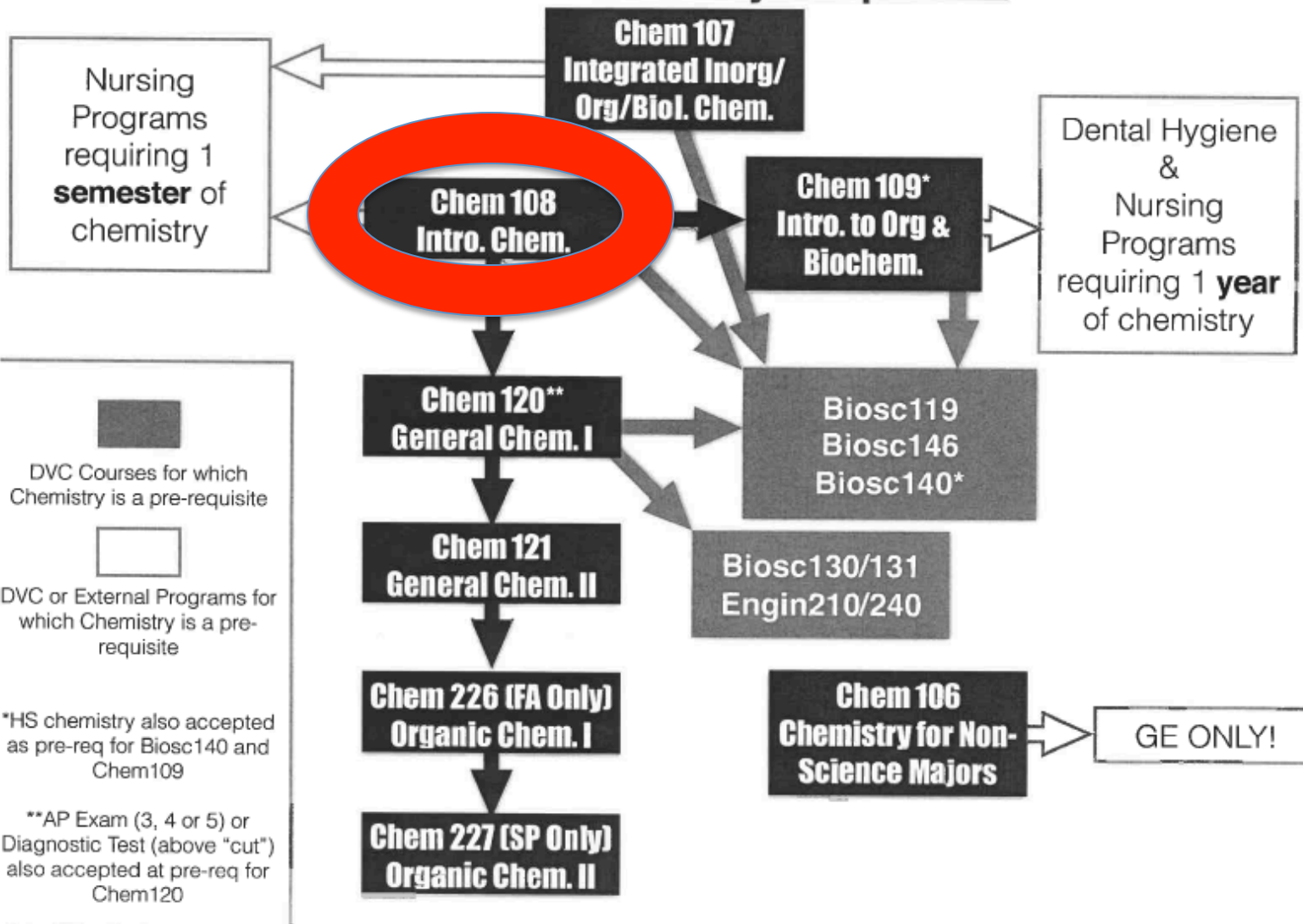
	Chem 106 Chemistry for Non-Science Majors	Chem 107 Integrated Inorg/ Org/Biol Chem.	Chem 108 Introductory Chem.	Chem 109 Intro. to Org. & Biochem.	Chem 120 Gen. Chem. I	Chem 121 Gen. Chem. II
<b>Chemistry courses that fulfill GE science requirements</b>						
DVC GE	X		X	X	X	X
IGETC	X		X	X	X	X
CSU GE	X	X	X	X	X	X
<b>Chemistry courses that fulfill AS degree requirements</b>						
Natural Science AS	X	X	X	X	X	X
Health Education AS			X			
Kinesiology AAT					X	
Sports Med/Athl Training AS		X	X	X	X	
<b>Chemistry courses that fulfill AS degree requirements (ONE REQUIRED)</b>						
Allied Health AS		X	X	X	X	
Life Science AS		X		X	X	
Enviro Science AS			X		X	
<b>Chemistry courses that ARE REQUIRED to earn AS degrees</b>						
Dental Hygiene AS			X	X		
Civil Eng AS					X	
Elec/Comp Eng AS					X	
Mech Eng AS					X	
Geology AS					X	X
Resp. Therapy AS		X	X			

Chem 226 and 227 (Organic Chemistry I & II) are required for transfer in some majors but are not currently part of any DVC degree program.



# CONNECTIONS

## DVC Chemistry Sequence




# Chem 108: Class/ Lab

<http://chemconnections.org/general/chem108/108syl19f.html>

\$\$\$???

**First  
Timers:  
Tuition  
Free**  
(Get information  
from DVC A & R)



## CHEMISTRY 108 / Fall 2019: SYLLABUS

*[Translate and/or listen to Syllabus, or any Web page] Choice of over 50 languages.*

---

[Class Meetings](#) \* [Texts & Materials](#) \* [Topics](#) \* [Homework](#) \* [Grading & Code of Conduct](#) \* [Attendance & Absences](#) \* [Lab](#) \* [Safety](#) \* [Internet](#) \* [Commuting](#)

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**Dr. Ron Rusay** Office: PS 235, tel. (925) 969-4216; Office Hours: **MW 10:00-11:00, TH 11:00-12:00** (On-line videophone conferencing). *Must register on-line, which is good for the entire semester, click on the following links to register for either Tuesday or Thursday or both days (must register separately for each day):* **Tues: 351-595-876, Thurs: 624-973-702** ; other times by appointment **on request**; daily e-mail replies usually within 24 hours.  
E-mail: [rrusay@chemconnections.org](mailto:rrusay@chemconnections.org) or [rrusay@dvc.edu](mailto:rrusay@dvc.edu)

Course Homepage: <http://chemconnections.org/general/chem108/>

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**CHEM-108 Introductory Chemistry, Sections 2341 & 2343**  
This course is an introduction to the experimental science of chemistry. Using mathematical word problems and chemical terms, the student will have an overview of inorganic chemistry. This course is appropriate for those that have no high school chemistry experience.

Units:	4.00
Grade Code:	Student choice
Repeatability:	0

*Prerequisites:* MATH-090 or MATH-090E or MATH-090SP or one year of high school algebra or equivalent Recommended  
*Recommended:* Eligibility for ENGL 122 or equivalent

\$\$\$???

**Course  
Materials:  
Kept as  
low as  
possible**

Please read carefully, after today's class.

# Chem 108

<http://chemconnections.org/general/chem108/108syl19f.html>

## Resources: (REQUIRED/MUST HAVE)

1. Chem 108 Lab Manual (Available in the DVC Bookstore: \$17.95)
2. Webassign: **Class Key**, dvc 3947 0654, provides access to all of the Webassign resources through your account, which includes An Introduction to Chemistry e-book with associated questions and supporting resources (\$41.00) (Hard copies of An Introduction to Chemistry, Atoms First ISBN978-0-9778105 can be purchased @ \$74.45.)
3. i<clicker: The older version is acceptable, as well as the newer . 2 and i-clicker+ versions (\$5.00-\$40.00 on-line & DVC); i-clicker Reef Access (\$14.99)
4. Personal e-mail account. (DVC/CCCCD “Insite” account not recommended, but ok.)
5. Notebook: 3 ring recommended
6. Access to the Internet (Can be limited, such as only on the DVC Campus or at free WiFi hotspots)
7. Lab safety glasses with side shields or goggles on sale by DVC Chem Club



# Chem 108

<http://chemconnections.org/general/chem108/108assign.html>

**From Homepage  
Click on Resources  
link**

Resources:

Reading /

Homework/

Vocabulary/

Guiding

Questions /

Quizzes/

Discussion Guides/

Worksheets/

Simulations &

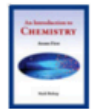
Molecular


Modeling

**Resources:**  
*Reading / Homework / Vocabulary*

*Guiding Questions*  
*Quizzes*  
*Pre- & Post-Lab Questions*  
*In-class Discussion Guides*  
*Worksheets*  
*Bonuses*  
*Simulations & Molecular Modeling*

**Textbook:**

 **Mark Bishop**  
Publisher: **Chiral Publishing**

	<b>Textbook:</b>		<b>Homework:</b> Unit #1, #2, #3 Exams 1-3	<b>Active Vocabulary</b> (Minimum)
	1.1: What Is Chemistry, and What Can Chemistry Do for You? <b>Chapter 1:</b> 1.3: The Scientific Method 1.4: Measurement and Units 1.5: Reporting Values from Measurements	1.1: <a href="#">What Is Chemistry?</a> 1.3: <a href="#">The Scientific Method</a> 1.4: <a href="#">Measurement and Units</a> 1.5: <a href="#">Reporting Values from Measurements</a>	<b>Unit 1: Exam 1</b> Weeks #1-6 <b>Homework:</b> <b>WEBASSIGN</b> Assignment #1: <i>Introduction &amp; Measurement &amp; Calculations</i> Assignment #2: <i>Organization of Matter</i>	1. Absolute Zero: 2. Accuracy: 3. Active Ingredient: 4. Acute Toxicity 5. Alpha particle: 6. Anion: 7. Atom: 8. Atomic Mass: 9. Atomic Number: 10. Avogadro's number: 11. Beta particle:

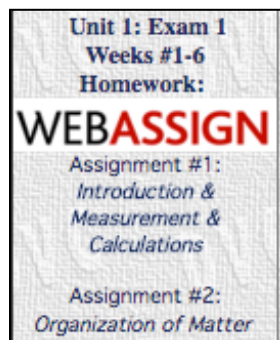
# Libretext aka ChemWiki

*alternative to or additional resource for textbook*

<https://chem.libretexts.org>



*Must enroll in Webassign regardless of choice.*



# Chem 108

<http://chemconnections.org/general/chem108/108syl19f.html>

## Grading:

1. i-clicker questions/in-class participation + answers to on-line Guiding Questions + on-line simulations/quizzes are valued at **15%** of the TOTAL grade.
2. Webassign completed work is valued at **15%** of the TOTAL grade.
3. Laboratory experiments, activities, pre- & post-lab questions, worksheets and simulations are valued at **25%** of the TOTAL grade.
4. 3 exams, each comprising **15%** of the TOTAL grade, and, in total, equal to **45%** of the TOTAL grade.

# Chem 108

<http://chemconnections.org/general/chem108/108syl19f.html>

**Exam Dates: 9/30, 11/4, 12/18**

**. [Cell phones will not be allowed during exams and quizzes.]**

**Final letter grades will be assigned based on an overall average in the following ranges: 87-100 A; 75-86 B; 60-74 C; 50-59 D; <50 F, using normalized class averages.**

**NOTE: The DVC Code of Conduct will be strictly enforced. Cheating and plagiarism are unacceptable and will unconditionally result in a failing grade  
SEE: DVC Academic College Policies**

# Chem 108: Beginning of a Journey





<http://chemconnections.org/general/chem108/calendar-108-f19.html>

Chem 108: Introductory Chemistry  
Sections: 2341 & 2343

<http://chemconnections.org/general/chem108/>

Week:	1:	8/26	2:	9/23	3:	9/9	4:	9/16	5:	9/23	6:	9/30	7:	10/7	8:	10/14	9:	10/21	10:	11/4	11:	11/11	12:	11/18	13:	11/25	14:	12/2	15:	12/9	16:	12/16	17:	12/23			
Date:																																					

August 2019

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
25	26	27	28	29	30	31	
	2341-2343.1 Topics & Materials		2341-2343.2 Topics & Materials				
	<ul style="list-style-type: none"><li>Welcome Powerpoint Slides: <a href="#">.html</a>, <a href="#">.ppt</a>, Print: <a href="#">.pdf</a> (6 slides per page)</li><li>Syllabus (HANDOUT <a href="#">.pdf</a>)</li><li> Must have DVC Lab Manual for week #3.</li><li> Must have an i-clicker device or i-clicker/Reef enabled smart phone for 4-Sep (SEE <a href="#">Syllabus</a>)</li><li>In-Class Discussion Guide 1.1 (HANDOUT <a href="#">.pdf</a>)</li></ul>		<ul style="list-style-type: none"><li> Must have DVC Lab Manual for week #3.</li><li> Must have an i-clicker device or i-clicker/Reef enabled smart phone for 4-Sep (SEE <a href="#">Syllabus</a>)</li></ul> Graded Class Assignments: <ul style="list-style-type: none"><li>Doing Assignment: <a href="#">Learning &amp; Course on-line Survey</a>; <b>DUE TODAY before class to receive credit!</b></li><li>Viewing Assignment: <a href="#">Video: Powers of Ten</a> [9 min] ***<a href="#">Guiding Questions</a> <b>DUE TODAY before class to receive credit!</b></li></ul> Class Discussion: <ul style="list-style-type: none"><li>Class Discussion: <a href="#">Reading Assignment: Introductions.1</a> Powerpoint Slides; <a href="#">.html</a>, <a href="#">.ppt</a>; Print: <a href="#">.pdf</a> (6 slides per page) *** <a href="#">Guiding Questions</a> <b>DUE before class Today</b></li><li>Reading Assignment: <a href="#">Introductions.2</a> Powerpoint; <a href="#">.html</a>, <a href="#">.ppt</a>; Print: <a href="#">.pdf</a> (6 slides per page) *** <a href="#">Guiding Questions</a> <b>DUE before class 4-Sep</b></li></ul>				
	Graded Class Assignments: <ul style="list-style-type: none"><li>Doing Assignment: <a href="#">Learning &amp; Course on-line Survey</a>; Refer to HANDOUT <a href="#">.pdf</a> <b>DUE 28-Aug on-line before class to receive credit!</b></li><li>Viewing Assignment: <a href="#">Video: Powers of Ten</a> [9 min] ***<a href="#">Guiding Questions</a> <b>DUE 28-Aug before class to receive credit!</b></li><li>Reading Assignment: <a href="#">Introductions.1</a> Powerpoint Slides; <a href="#">.html</a>, <a href="#">.ppt</a>; Print: <a href="#">.pdf</a> (6 slides per page) *** <a href="#">Guiding Questions</a> <b>DUE before class 28-Aug</b></li></ul> <b>WEBASSIGN</b> Graded Practice Problems: (Must enroll with purchase of e-text/on-line Webassign resources.) See <a href="#">Syllabus</a>		Graded Class Assignments: <ul style="list-style-type: none"><li>Doing Assignment: <a href="#">Learning &amp; Course on-line Survey</a>; Refer to HANDOUT <a href="#">.pdf</a> <b>DUE 28-Aug on-line before class to receive credit!</b></li><li>Viewing Assignment: <a href="#">Video: Powers of Ten</a> [9 min] ***<a href="#">Guiding Questions</a> <b>DUE 28-Aug before class to receive credit!</b></li><li>Reading Assignment: <a href="#">Introductions.1</a> Powerpoint Slides; <a href="#">.html</a>, <a href="#">.ppt</a>; Print: <a href="#">.pdf</a> (6 slides per page) *** <a href="#">Guiding Questions</a> <b>DUE before class 28-Aug</b></li></ul> <b>WEBASSIGN</b> Graded Practice Problems: (Must enroll with purchase of e-text/on-line Webassign resources.) See <a href="#">Syllabus</a>				

From Homepage  
Click on Calendar  
link

Follow the Viewing-Reading-Doing links in the calendar to lead you on your path.

# Chem 108

Refer to the **course calendar page TODAY & frequently**. The current week's calendar is set the beginning of the week, and is then static. Plan by each week..... ***Execute day-by-day. Meet all due dates!!***

Before coming to each class/lab meeting: ***Read, View & Do*** the scheduled activity links: ***Videos, Powerpoint Class Slides, Notes, Worksheets, Simulations, etc.***

- 1. Answer all on-line Guiding Questions.***
- Review and consider logical answers & ***explanations for the embedded Powerpoint i-clicker questions***, then refer to the correct answers, ***which are presented in class***. Bring any questions for discussion to the class meetings and Office Hours.
- 3. Complete WEBASSIGN Homework, all lab assignments, activities & worksheets.***
- Individually and collaboratively use all available resources to develop a sufficient level of ***mastery of the class/lab vocabulary, problems, and topics*** to understand the chemistry / science and be able to explain concepts clearly to someone else.

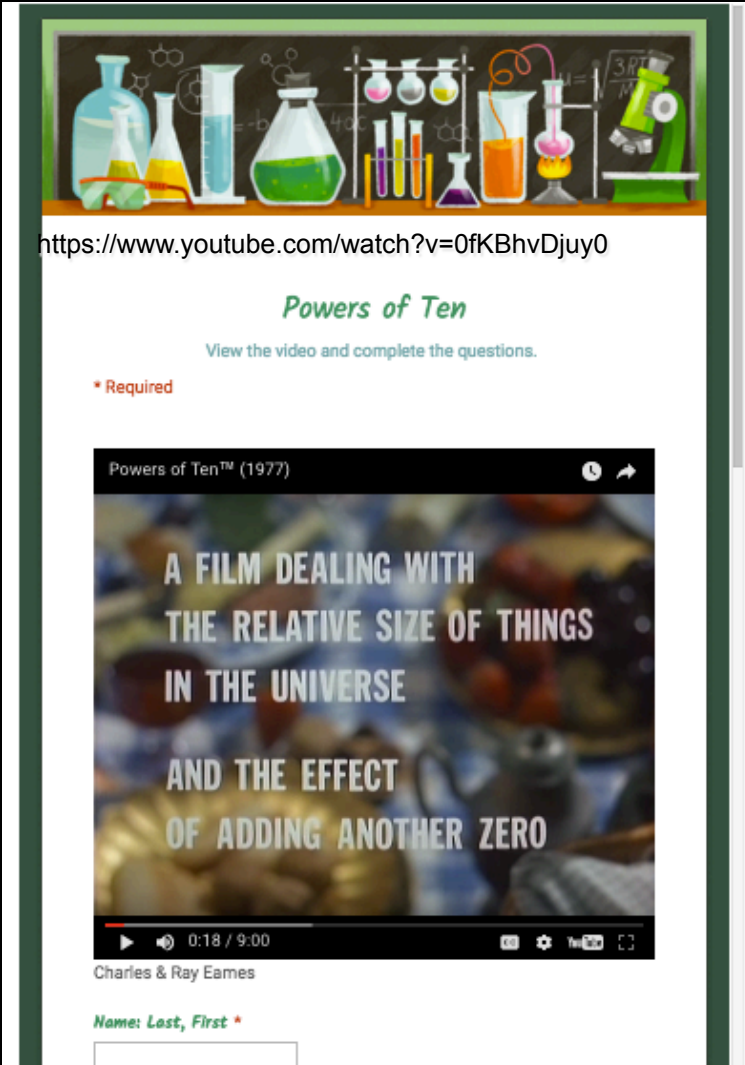
# Hearing/Viewing: Guiding Questions (GQ)

## Measurements & Relative Scale

<http://chemconnections.org/general/chem108/Powers%20of%20Ten-Guide.html>

**1. Answer all on-line Guiding Questions.**

First GQ  
assignment  
Due before next  
class.



<https://www.youtube.com/watch?v=0fKBhvDjuy0>

*Powers of Ten*

View the video and complete the questions.

\* Required

Powers of Ten™ (1977)

A FILM DEALING WITH  
THE RELATIVE SIZE OF THINGS  
IN THE UNIVERSE  
AND THE EFFECT  
OF ADDING ANOTHER ZERO

0:18 / 9:00

Charles & Ray Eames

Name: Last, First \*

From the calendar links, submit responses on-line; **graded weekly.**

# WebAssign. Homework



<https://www.webassign.net/v4cgi/selfenroll/classkey.html>



Class Key: dvc 3947 0654



[http://chemconnections.org/general/chem108/Student\\_Quick\\_Start\\_Guide\\_SE.pdf](http://chemconnections.org/general/chem108/Student_Quick_Start_Guide_SE.pdf)



1. **Question Details**



Enter each number in scientific notation.

4060 m =   4.06 x 10   3 m


20300 g =   2.03 x 10   4 g


0.0036 mL =   3.6 x 10   -3 mL


55000 cm =   5.5 x 10   4 cm


0.000071 kg =   7.1 x 10   -5 kg

Convert the following to regular or standard notation.

$2.71 \times 10^{11}$  g   271000000000 g


$1.8 \times 10^{-4}$  mL   0.00018 mL

$3.455 \times 10^8$  kg   345500000 kg

$8 \times 10^3$  cm   8000 cm

# Reading: Powerpoint Slides


## Embedded i-clicker Questions



The image shows two screenshots of a web browser displaying a PowerPoint presentation. The left screenshot shows slide 35 of 59, titled "Question", with a video thumbnail and a question about the Earth's rotation. The right screenshot shows slide 39 of 59, titled "Question", with a list of bullet points and a question about macroscopic vs. microscopic objects. A white i-clicker device is shown in the center, which is used to submit answers to these questions.

**Slide 35 of 59**

*Question*



<https://www.youtube.com/watch?v=HnASxhZyulU>

Does the sun rise in the east and does the earth rotate clockwise or counter-clockwise?

A) Yes, Clockwise  
B) Yes, Counter-clockwise  
C) No, Clockwise  
D) No, Counter-clockwise

**Slide 39 of 59**

*Question*

*Measurements & Relative Scale*

- Macroscopic vs. Microscopic
- Charles & Ray Eames

TRUE (A) / FALSE (B)

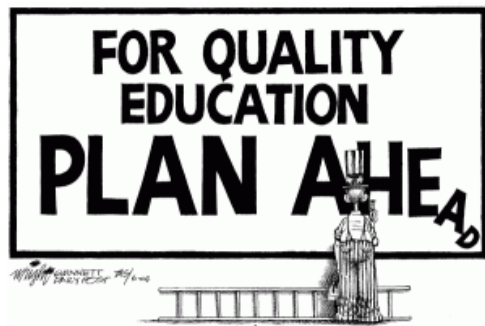
Macroscopic stuff is visible to the naked eye. Microscopic objects require magnification.

[http://chemconnections.org/general/movies/Powers.Of.Ten.\(Charles.&Ray.Eames\).1.mp4](http://chemconnections.org/general/movies/Powers.Of.Ten.(Charles.&Ray.Eames).1.mp4)  
<https://www.youtube.com/watch?v=0fKBhvDjuy0>





Read Powerpoint slides before class (can be printed), consider embedded questions; answers will be provided in class. One of these questions will be asked @ the start of the following class. ***Only answers submitted with a personal, registered i-clicker or smart phone will receive credit.*** These slides & questions will be the basis for a significant part of exams.

Week:	1:	8/26	2:	9/2	3:	9/9	4:	9/16	5:	9/23	6:	9/30	7:	10/7	8:	10/14	9:	10/21	10:	11/4	11:	11/11	12:	11/18	13:	11/25	14:	12/2	15:	12/9	16:	12/16	17:	12/23	
Date:																																			

## August 2019

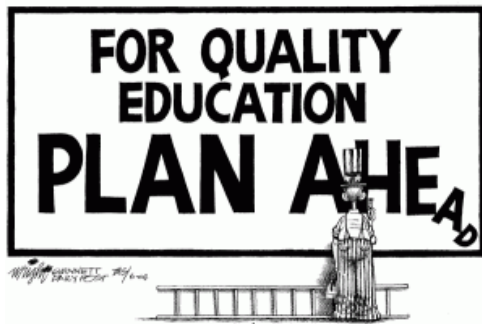


Refer to  
Calendar's Next &  
Future  
Classes/Labs

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
25	26	27	28	29	30	32
	<p>2341-2343.1 Topics &amp; Materials</p> <ul style="list-style-type: none"> <li>• <i>Welcome Powerpoint Slides:</i> <a href="#">.html</a>, <a href="#">.ppt</a>, Print: <a href="#">.pdf</a> (6 slides per page)</li> <li>• <i>Syllabus (HANDOUT)</i> <a href="#">.pdf</a></li> <li>•  Must have DVC Lab Manual for week #3.</li> <li>•  Must have an i-clicker device or i-clicker/Reef enabled smart phone for 4-Sep (SEE <a href="#">Syllabus</a>)</li> <li>• In-Class Discussion Guide 1.1 (HANDOUT <a href="#">.pdf</a>)</li> </ul> <p>Graded Class Assignments:</p> <ul style="list-style-type: none"> <li>• <i>Doing Assignment:</i> <a href="#">Learning &amp; Course on-line Survey</a>: Refer to HANDOUT <a href="#">.pdf</a> DUE 28-Aug on-line before class to receive credit</li> <li>• <i>Viewing Assignment:</i> <a href="#">Video: Powers of Ten</a> [9 min] ***<a href="#">Guiding Questions</a> DUE 28-Aug before class to receive credit</li> <li>• <i>Reading Assignment:</i> <a href="#">Introductions.1</a> Powerpoint Slides; <a href="#">.html</a>, <a href="#">.ppt</a>, Print: <a href="#">.pdf</a> (6 slides per page) *** <a href="#">Guiding Questions</a> DUE before class 28-Aug</li> </ul> <p><b>WEBASSIGN</b> Graded Practice Problems: (Must enroll with purchase of e-text/on-line Webassign resources.) See <a href="#">Syllabus</a></p>		<p>2341-2343.2 Topics &amp; Materials</p> <ul style="list-style-type: none"> <li>•  Must have DVC Lab Manual for week #3.</li> <li>•  Must have an i-clicker device or i-clicker/Reef enabled smart phone for 4-Sep (SEE <a href="#">Syllabus</a>)</li> </ul> <p>Graded Class Assignments:</p> <ul style="list-style-type: none"> <li>• <i>Doing Assignment:</i> <a href="#">Learning &amp; Course on-line Survey</a>: DUE TODAY before class to receive credit</li> <li>• <i>Viewing Assignment:</i> <a href="#">Video: Powers of Ten</a> [9 min] ***<a href="#">Guiding Questions</a> DUE TODAY before class to receive credit</li> </ul> <p>Class Discussion:</p> <ul style="list-style-type: none"> <li>• <i>Class Discussion:</i> <a href="#">Reading Assignment: Introductions.1</a> Powerpoint Slides; <a href="#">.html</a>, <a href="#">.ppt</a>, Print: <a href="#">.pdf</a> (6 slides per page) *** <a href="#">Guiding Questions</a> DUE before class Today</li> <li>• <i>Reading Assignment:</i> <a href="#">Introductions.2</a> Powerpoint; <a href="#">.html</a>, <a href="#">.ppt</a>, Print: <a href="#">.pdf</a> (6 slides per page) ***<a href="#">Guiding Questions</a> DUE before class 4-Sep</li> </ul> <p><b>WEBASSIGN</b> Graded Practice Problems: (Must enroll with purchase of e-text/on-line Webassign resources.) See <a href="#">Syllabus</a></p>			

<http://chemconnections.org/general/chem108/calendar-108-f19.html>

The calendar is dynamic and has the class plan for the period through Exam-1. Beyond the current week it is tentative, but very useful for planning.




Also Refer to  
Resources Page


chemconnections.org/general/chem108/108assign.html

**Resources:**  
*Reading / Homework / Vocabulary*

*Guiding Questions*  
*Quizzes*  
*Pre- & Post-Lab Questions*  
*In-class Discussion Guides*  
*Worksheets*  
*Bonuses*  
*Simulations & Molecular Modeling*

**Textbooks:**

 Mark Bishop  
Publisher: *Chiral Publishing*

	<b>Textbooks:</b>		<b>Homework:</b> Unit #1, #2, #3 Exams 1-3	<b>Active Vocabulary</b> (Minimum)
	Chapter 1: 1.1: What is Chemistry, and What Can Chemistry Do for You? 1.2: The Scientific Method 1.4: Measurement and Units 1.5: Reporting Values from Measurements	1.1: <i>What is Chemistry?</i> 1.2: <i>The Scientific Method</i> 1.4: <i>Measurement and Units</i> 1.5: <i>Reporting Values from Measurements</i>	Unit 1: Exam 1 Weeks #1 & 2 <b>WEBASSIGN</b> Assignment #1: Introduction & Measurement & Calculations Assignment #2: Organization of Matter	1. Absolute Zero 2. Accuracy 3. Active Ingredient 4. Acute Toxicity 5. Alpha particle 6. Amino 7. Anion 8. Atomic Mass 9. Atomic Number 10. Anion's number 11. Beta particle

<http://chemconnections.org/general/chem108/108assign.html>

The Resources page includes links related to assignments and textbook and LibreTexts reading.

# How much time beyond class & lab time will all of this take?

<http://chemconnections.org/general/chem108/calendar-108-f19.html>



All of the outside assignments &  
homework are designed for ~1.5-2 hrs/day, but the answer  
will depend on you!

Budget your time & get help when needed!! **DON' T WAIT!!**

# Where to get tutoring help, if & when needed?

- Dr. R. **MW 10:00-11:00 PS 235**;
- On-line video/phone conferencing **TTh 11:00-12:00**;
- Other times by appointment (*through e-mail request*);
- **Daily e-mail** (replies usually within 24 hours) ;
- DVC: peer tutoring beginning Sept. 3<sup>rd</sup>

**PS110: M, T, W, & Th (9 am – 7pm) and Fridays (9 am to 1 pm)**

*(On-line) NetTutor: total of five hours free tutoring for the fall semester through Canvas; must be requested by e-mail through Dr. R.*

**Get help when needed!!  
DON' T WAIT!!**