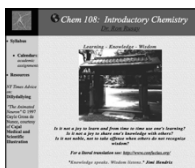


Chem 108

Introductory Chemistry

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



Class (LIVE): MW 11:10-12:35

Lab (WEEKLY), asynchronous:

enrolled & registered as

sec. 2341 42:45-3:55 (M)

sec. 2343 42:45-3:55 (W)

Dr. Ron Rusay

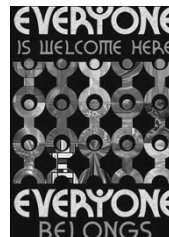
E-mail: rusay@dvc.edu

- If you have received an e-mail from Dr. R., please enter your name and DVC ID number in the zoom chat box and hit send.
- Follow the presentation slides & audio and submit any questions via the chat box when you think of them.
- The chat questions will be answered in the order posted at the end of the Presentation, and the zoom meeting will be opened for discussion.

Welcome to Chem 108

Introductory Chemistry

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



CONNECTIONS

The Academic Support Center (ASC) helps students navigate support services on campus

<https://www.dvc.edu/current/tutoring-services/academic-support-center.html>

Disability Support Services (DSPS) helps students with disabilities

<https://www.dvc.edu/student-services/disability-support-services/>

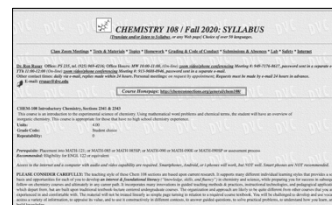
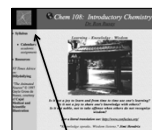
DVC Computer & Network Technology: IT Help Desk

<https://www.dvc.edu/college-support/computer-services.html>

There is also a laptop loan program that lets you check out computers for use within the library.

Chem 108

<http://chemconnections.org/general/chem108/108syf20f.html>



From Homepage
Click on Syllabus
link

Access is direct open Internet, using CANVAS is not necessary

CONNECTIONS

Chemistry, STEM & Applications

Why am I enrolling in CHEM 108?

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

Zoom Poll



CONNECTIONS

Chemistry, STEM & Applications

My plan after completing Chem 108 is to:

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


Zoom Poll

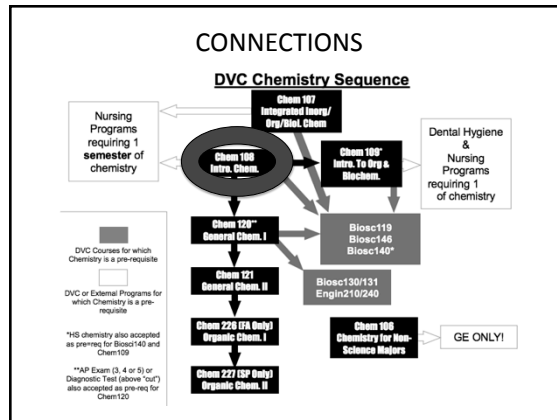
SUBMIT

CONNECTIONS

Satisfying Requirements

	Class 106 Principles of Open Science Matters	Class 107 Intermediate Computing and Design	Class 108 Intermediate Design	Class 109 Mathematics A & B Statistics	Class 110 Math (Class 1)	Class 111 Math (Class 2)
Chemistry courses that fulfil GC science requirements						
0101-08	X	X	X	X	X	X
080111	X	X	X	X	X	X
0101-09	X	X	X	X	X	X
Chemistry courses that fulfil AS degree requirements						
Nature Science AS	X	X	X	X	X	X
Health Education AS		X				
Knowledge AS				X		
Space Navigation Training AS		X	X	X		X
Chemistry courses that fulfil AS degree requirements (OE REQUIRED)						
Adult Health AS	X	X	X	X		
Life Science AS	X	X	X	X		
Science Science AS		X				
Chemistry courses that fulfil AS degree						
General Science AS			X	X		
Gen Eng AS				X		
ChemComp Eng AS				X		
Health Eng AS				X		
Sciences AS				X	X	
Math. Sciences AS		X	X			
<p>Class 108 and 107 (Physics Chemistry & IS) are required for transfer in some regions but are not currently part of any 0101 degree program.</p>						






Chem 108: Class/ Lab

<http://chemconnections.org/general/chem108/108syl20f.html>

\$\$\$\$???


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



CHEMISTRY 108 / Fall 2020: SYLLABUS

Chemical and/or Physical Chemistry – only 160 pages! Choice of over 10 languages.

Class Zoom Meetings / Texts & Materials / Zoom / Homework / Grading & Code of Conduct / Substitutions & Absences / Lab / Safety / Contact

*Dr. Brian Rayner: Email: PZ 221, tel: (925) 949-2216; Office Hours: **NEW 10:00-12:00 (Th-Fri)** again! **syllabus** **conference** Meeting #: 949-7176-0467; **password** **not** in a separate e-mail; TAs: 10:00-12:00 (Th-Fri) 10208
Important information concerning Meeting #: 949-7176-0467, password: not in a separate email.
Our common classmate: please do not email, syllabus, mail, or call Brian. Personal meetings are required by appointment. Requests must be made by 24 hours in advance.
 e-mail: rayner@calpoly.edu*

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

CHEM 108 Laboratory Chemistry, Sections 200A & 200B

This course is an introduction to the experimental techniques and concepts of chemistry. Using fundamental wet methods and electronic tools, the student will have an experience of inorganic chemistry. This course is designed to show the new techniques and modern chemistry experiment.

Units: 4.00

Grade: student choice

Prerequisite: 0

Permission/ Placement into MATH 111, or MATH 106 or MATH 105SP, or MATH 096 or MATH 096SP or equivalent process.

Recommended: Disposition for ENGL 122 or equivalent

\$\$\$\$???

*Course
Materials:
Kept as
low as
possible*

Please read the syllabus carefully after today's class.
Important highlights are in the slides that follow.

Chem 108

<http://chemconnections.org/general/chem108/108syl/20f.html>

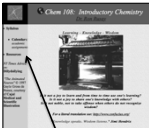
(REQUIRED/MUST HAVE)

- 1. Webassign: Class Key, dvc 2938 8431, provides access to all of the Webassign resources through your account, which includes a chemistry e-textbook that provides supporting resources for homework questions (\$41.00) [Hard copies of the textbook is available separately: An Introduction to Chemistry, Atoms First ISBN978-0-9778105 @ \$74.45.]**
- 2. Access to the Internet with a computer having audio & video and a recent version of a browser. VERY IMPORTANT**
- 3. Personal e-mail account. VERY IMPORTANT**
(DVC/CCCCC "insite.edu" account not recommended, but ok.)
- 4. Notebook: recommended**
- 5. Flash Drive recommended**

What **resources** are available & how will you use them?

Chem 108

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



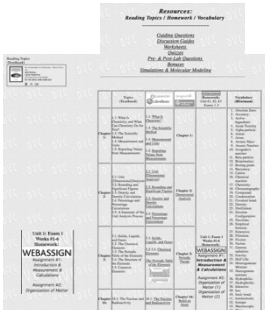
Chem 108: Introductory Chemistry

Resources

Reading Topics / Homework / Tutorials

Online Courses
General Chemistry
Organic Chemistry
Physics
Bio & Physical Sciences
Statistics & Molecular Modeling

From Homepage
Click on Resources
link



Resources

Resource	Link	Category	Notes
1. General Chemistry	1. General Chemistry	General Chemistry	General Chemistry
2. Organic Chemistry	2. Organic Chemistry	Organic Chemistry	Organic Chemistry
3. Biochemistry	3. Biochemistry	Biochemistry	Biochemistry
4. Physical Chemistry	4. Physical Chemistry	Physical Chemistry	Physical Chemistry
5. Analytical Chemistry	5. Analytical Chemistry	Analytical Chemistry	Analytical Chemistry
6. Environmental Chemistry	6. Environmental Chemistry	Environmental Chemistry	Environmental Chemistry
7. Materials Chemistry	7. Materials Chemistry	Materials Chemistry	Materials Chemistry
8. Chemical Engineering	8. Chemical Engineering	Chemical Engineering	Chemical Engineering
9. Chemical Education	9. Chemical Education	Chemical Education	Chemical Education
10. Chemical History	10. Chemical History	Chemical History	Chemical History
11. Chemical Safety	11. Chemical Safety	Chemical Safety	Chemical Safety
12. Chemical Society	12. Chemical Society	Chemical Society	Chemical Society
13. Chemical Society	13. Chemical Society	Chemical Society	Chemical Society
14. Chemical Society	14. Chemical Society	Chemical Society	Chemical Society
15. Chemical Society	15. Chemical Society	Chemical Society	Chemical Society
16. Chemical Society	16. Chemical Society	Chemical Society	Chemical Society
17. Chemical Society	17. Chemical Society	Chemical Society	Chemical Society
18. Chemical Society	18. Chemical Society	Chemical Society	Chemical Society
19. Chemical Society	19. Chemical Society	Chemical Society	Chemical Society
20. Chemical Society	20. Chemical Society	Chemical Society	Chemical Society

Chem 108

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

**From Homepage
Click on Resources
link**

Resources:
Reading /
Homework/
Vocabulary/
Guiding Questions /
Discussion Guides/
Quizzes/
Worksheets/
Simulations &
Molecular Modeling

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/chem108/108sy120f.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.

Grades will be posted periodically with a link from the assignments calendar.

Chem 108

<http://chemconnections.org/general/chem108/108sy120f.html>

Exam Dates: 9/28, 11/2, 12/9

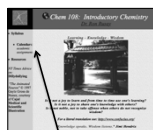
NOTE: The DVC Code of Conduct will be strictly enforced.

Cheating and plagiarism are unacceptable and will unconditionally result in a failing grade
SEE: DVC Academic College Policies

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.

Chem 108: Beginning of a Journey

<http://chemconnections.org/general/chem108/calendar.academic.2020f.pdf>



**From Homepage
Click on
academic calendar
link**

Chem 108: Beginning of a Journey

<http://chemconnections.org/general/chem108/calendar.academic.2020f.pdf>



**From Homepage
Click on
assignments calendar
link**

Follow the links in the calendar to lead you through the course.

[illegible]

These slides & questions will be your guide and the basis for a significant part of related questions in the 3 exams.



Chem 10B: Introductory Chemistry			Fall 2020 Course Topics & Assignment Due Dates	
			Assignment	Due
Aug	24	Week 1: Course Overview, Introduction 1: STEADY-STATE	Week 1: Course Overview	12:00 PM
	25	Week 2: Chemical Kinetics, Thermodynamics, & Equilibrium	Week 2: Chemical Kinetics	12:00 PM
	26	Week 3: Chemical Kinetics, Thermodynamics, & Equilibrium	Week 3: Chemical Kinetics	12:00 PM
	27	Week 4: Chemical Kinetics, Thermodynamics, & Equilibrium	Week 4: Chemical Kinetics	12:00 PM
	28	Week 5: Chemical Kinetics, Thermodynamics, & Equilibrium	Week 5: Chemical Kinetics	12:00 PM
Sep	29	Week 6: Chemical Kinetics, Thermodynamics, & Equilibrium	Week 6: Chemical Kinetics	12:00 PM
	30	Week 7: Chemical Kinetics, Thermodynamics, & Equilibrium	Week 7: Chemical Kinetics	12:00 PM
	1	Week 8: Chemical Kinetics, Thermodynamics, & Equilibrium	Week 8: Chemical Kinetics	12:00 PM
	2	Week 9: Chemical Kinetics, Thermodynamics, & Equilibrium	Week 9: Chemical Kinetics	12:00 PM
	3	Week 10: Chemical Kinetics, Thermodynamics, & Equilibrium	Week 10: Chemical Kinetics	12:00 PM

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.

[illegible]

The Resources page includes links related to the assignments and textbook/
LibreTexts reading including important *Inspark* tutorials

<http://chemconnections.org/general/chem108/calendar-108-f20.html>



Budget your time & get help when needed!! DON' T WAIT!!
The course is designed for 6 on-line hours/ week for class & lab,
and 9 hours/ week for outside assignments,
homework, reading, problems, etc. (~1.5-2 hrs/day),
but the total amount of time will vary & depend on you!

- Dr. R. MW 10:00-11:00 *pre-class*;
- On-line office hours: TTh 11:00-12:00;
- Other times by appointment (*through e-mail request*);
- Daily e-mail (replies usually within 24 hours) ;
- Supplemental Instruction: Fridays (TBA)
- DVC: peer tutoring: (beginning TBA)

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

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