

# Chem 121 Syllabus



## Fall 2021 G (Item 3275) & H (Item 3277)

Zoom meeting link: <https://bellevuecollege.zoom.us/j/83511432919>

Instructor: Chris Shelley

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Phone: 425-564-3077

Office location: S-340-G

Class Schedule and Office Hours: **No on campus meetings for the entire quarter.** Everything, all homework, quizzes, tests, lectures and labs will be online through the Canvas course site.

The textbook will be made available online **for free**. There is NO need to 'get' the physical textbook (or anything else) from the BC Bookstore. You DO need to buy the Chem 121 Workbook from the BC Bookstore though.

The course will meet synchronously with an asynchronous aspect. I'll post everything you need, and everything you need to do (including due dates). That makes it 'asynchronous' since you can work on anything at any time. This will allow for flexibility, since we are all in a new situation. It should also allow for any disruptions like computer problems, network/internet problems, as well as health problems (also alien invasions and zombie uprisings). I'll be flexible and I'd appreciate it if would be also. If we encounter any problems, we'll work them out and it won't affect your grade.

We will also meet synchronously. That is "in person" via computer with scheduled meetings via the Canvas site (using Zoom). This will provide a sense of regularity and structure to the course and an opportunity for us to discuss the class. So here is our Class Schedule:

**Chem 121 G meets M, W at 5:30pm-7:40pm**

**Lab is scheduled T from 5:30pm – 7:40pm**

**We will not meet for lab. You'll be able to do them on your own at any time.**

**Chem 121 H meets M, W at 5:30pm-7:40pm**

**Lab is scheduled Th from 5:30pm – 7:40pm**

**We will not meet for lab. You'll be able to do them on your own at any time.**

I'll also answer emails and use the Discussion Board in the Canvas site. I'll try my best to reply within 24 hours.

Since all labs, homework, quizzes and tests will be online, I am trusting you to do the right thing when submitting material to be graded. (Please see the college's Student Conduct and Academic Integrity policies.) All of the homework, quiz questions and exam questions will be taken from the Chem 121 Workbook. On anything that is graded (except the final exam), if you get something incorrect you will have the opportunity to learn from your mistake by correcting your work or by successfully answering another similar question. You will be working towards proficiency. So, you should have full credit (an "A") on 75% of the course materials. The other 25% of your grade will come from the final exam. It will be a review of what you learned this quarter. Try your best and we'll all work to become better.

I'm trying to minimize the amount of work you need to submit by doing the following. Any assignments, labs, suggested homework problems etc., Do NOT have to be submitted. I'll try to delete the submission requirements from the assignments (it may take some time though). What I will do is the week following a week we did something (like Week 2). I'll pick one of the assignments or a portion of one of the work from the previous week for you to send me. I'd like it handwritten with your signature on it. Take a photo and email it to me. Please remember to include your course and section letter (i.e. Chem 121A or Chem121B).

## Course Calendar (tentative)

### Chem 121 Fall 2021 Schedule

Week of the Quarter	Monday of that Week	Units (Modules) to be Finished	Workbook Pages
1	9/27		Math Review 3-6
2	10/4	1, 2	17, 18, 22, 34, 38(1-4), 40(1&2), 41, 46, 47(1&2)
3	10/11	3, 4	57-60, 64-68
4	10/18	5, 6	74-77, 82, 85-88, 90-93, 95, 96, 100
5	10/25	7, 8	104-108, 120, 121, 125, 126 (the List of the Polyatomic Ions that you can use; ignore the bottom question) 128, 129

6	11/1	9, 10 (1 of 3)	138, 139, 142
7	11/8	10 (2 of 3)	
8	11/15	10 (3 of 3)	150, 156, 158-160, 167
9	11/22	11	174, 177, 182, 188, 189
10	11/29	12	193, 198-200, 203, 204, 206, 207
11	12/6		
12	12/13	Final posted Wednesday 12/15	

No classes on: 10/19; 11/11; 11/25-26

Check the Bellevue College calendar for days off and holidays.

## Course Information

[Chem 121 Course Site](https://www.bellevuecollege.edu/chemistry/courses/chem121/) (https://www.bellevuecollege.edu/chemistry/courses/chem121/)

This course is intended as an introductory level general chemistry course, usually for allied-health majors (nursing, nutrition, physical therapy, etc.) If you are a science/engineering major or a pre-professional health major (medicine, dentistry, pharmacy, etc) you will probably need to take CHEM& 140 instead. **It is highly recommended that you contact advising to decide if you need this course or not!**

PREREQUISITES ARE CHECKED. Please make sure you are cleared for prereqs – either you will have taken the prereq courses at BC, or you will need to [submit your college transcripts](#) if prereqs were completed at another institution, or take the math placement exam to meet the prereq.

This course assumes no previous chemistry knowledge, but if you've had some physical sciences or chemistry in high school it could be very helpful. Use of proportions, percents,

scientific notation, metric system, and algebra are all very useful and required skills for this course.

## Course Outcomes

Chem 121 Student Learning Objectives are on pages 7 through 11 in the Chem 121 Workbook.

## How Outcomes Will be Met

I will follow the workbook and modules. I will expect that you have read and studied this information BEFORE class. **The vast majority of the work will be done outside of class.** This makes your ability to self-motivate crucial to your success. Please email me at [cshelley@bellevuecollege.edu](mailto:cshelley@bellevuecollege.edu) with any questions you have.

I will also post lecture notes, Power Point presentations, test bank questions, previous tests, quizzes, answer keys and course information online on the MyBC Canvas website.

A fundamental aspect of this course is problem solving. You will need to solve word problems using some basic algebra. To accomplish this we will spend the early part of this course reviewing the math skills necessary for your success. The more you practice chemistry, the better you will become. I cannot make you learn chemistry (even if I wanted to). I can only help you to learn chemistry. Completing this course will provide you with part of the scientific foundation necessary for you to accomplish your professional goals. But maybe more importantly, this course will provide you with a background that will enable you to make informed decisions on important issues facing our society now and in the future.

**Lectures:** Lectures are supplemental to the material covered in the textbook and online. Lectures are in no way intended to replace reading, studying and outlining the text and online materials. If you have read the required material, you should be able to ask and answer questions on that material during class. ~~Please come to class prepared. Attendance is a vital part of your success.~~

~~**Labs:** You must attend lab each week and be prepared before entering the lab. Read the lab and answer the pre-lab assignment questions prior to the beginning of lab. **ALWAYS wear Safety goggles, closed toe shoes and long pants.** If you attend lab without the appropriate attire, you will not be allowed to participate in lab. **You must complete lab assignments before the beginning of lab each week or no credit will be given.** The lab exercises are meant to train you in safe, accurate, standard laboratory procedures. The labs will complement the lecture material, but there may be times when the lecture and lab are not quite in synch. Don't worry, the information will eventually be woven together.~~

~~A portion of your grade will be assigned on lab behavior. You will be expected to enter lab prepared and work in an efficient and safe manner. You must also be fully involved in the experiment and not just a passive observer.~~

This course will require a lot of effort on your part. While there are no guarantees for success, experience has shown that a good deal of success can be achieved by following these suggestions:

- 1) Read, study and outline the material to be discussed in class ahead of time and be prepared to answer questions in class. (As you will see the pace is quick and the amount of material is great. So stay ahead in your reading.)
- 2) Work through the example problems and questions in the text; some of which may be used in the exams.
- 3) Complete as many practice problems as you can.
- 4) Attend each class. **ATTENDANCE IS MANDATORY! Please notify me by email if you will miss class.**
- 5) Pay attention in class. Don't let your mind wander to your cell phone.
- 6) Ask questions and participate in class discussions.
- 7) Seek help when you need it, and well before the end of the quarter.
- 8) Make the material relevant to your life. Make connections between the material and your life.
- 9) Study chemistry 2 -3 hours outside of class per every hour in class! Six credit class hours per week = 12 to 18 hours per week outside of class.

#### Exams, Quizzes, and Grading

Completion of Chapter Readings, Labs and Workbook assignments	75%
<u>Final Exam (Chapter Readings, Labs and Workbook assignments)</u>	<u>25%</u>
Total	100%

#### Grade Scale

A 94-100	B+ 85-89	B- 78-80	C 70-74	D 60-65
A- 90-93	B 81-84	C+ 75-77	C- 66-69	F 59 and below

The College Grading Policy is explained in the current Course Catalog and can also be found at this link: [Grading Policy](#)

## Books and Materials Required

- 1) The Textbook is a part of the Canvas site.
- 2) The CHEM& 121 Workbook which includes the lab experiments.
- 3) ~~Soft-sided Safety Goggles (impact rated to ANSI Z87.1)~~

## Help with Canvas

Students can find help with Canvas by following the link here: [Student Canvas Help](#)

## Classroom Learning Atmosphere

I like to keep the classroom atmosphere relaxed and casual. But remember that everyone in this class is a unique individual and has a right to be here. We will treat ourselves and each other with respect and dignity. We are here to learn and to help each other. The only thing that won't be accepted is unacceptance.

## Instructor's Expectations

My expectations are that you have enough time, enough personal motivation, and enough maturity to spend the necessary time to use the resources provided by me, the department, the division and the college to accomplish your goals. Please get in touch with me if you have any problems or concerns. If I can't help you directly, I'll be able to get you to the help you need.

## Accessibility

The online elements of this course are designed to be welcoming to, accessible to and usable by everyone, including students who are English-language learners, have a variety of learning styles, have disabilities, or are new to online learning. Be sure to let me know immediately if you encounter a required element or resource in the course that is not accessible to you. Also, let me know of changes I can make to the course so that it is more welcoming to, accessible to, or usable by students who take this course in the future.

## Affirmation of Inclusion

Bellevue College is committed to maintaining an environment in which every member of the campus community feels welcome to participate in the life of the college, free from harassment and discrimination.

We value our different backgrounds at Bellevue College, and students, faculty, staff members, and administrators are to treat one another with dignity and respect.

[Affirmation of Inclusion](https://www.bellevuecollege.edu/inclusion/) (<https://www.bellevuecollege.edu/inclusion/>)

## Reasons of Faith and Conscience

Reasonable Accommodations for Reasons of Faith and Conscience: Students who will be absent from course activities due to reasons of faith or conscience may seek reasonable accommodations so that grades are not impacted. Such requests must be made within the first two weeks of the course to the office of the Associate Vice President of Student Affairs (see Bellevue College [Policy 2950](https://www.bellevuecollege.edu/policies/id2950/) (<https://www.bellevuecollege.edu/policies/id2950/>)). In the event you feel you are being discriminated against based on faith or conscious, you may refer to the procedures outlined in the college's [Discrimination, Harassment and Retaliation Policy 1440P](https://www.bellevuecollege.edu/policies/id-1440p/) (<https://www.bellevuecollege.edu/policies/id-1440p/>).

## Annual Notice Non-Discrimination

Bellevue College does not discriminate on the basis of race or ethnicity; creed; color; national origin; sex; marital status; sexual orientation; age; religion; genetic information; the presence of any sensory, mental, or physical disability; or veteran status in educational programs and activities which it operates. Bellevue College is prohibited from discriminating in such a manner by college policy and by state and federal law. All college personnel and persons, vendors, and organizations with whom the college does business are required to comply with applicable federal and state statutes and regulations designed to promote affirmative action and equal opportunity.

Reports of gender and sex-based based discrimination, sexual misconduct, or retaliation by a student should be raised with the Title IX office (see 1440P2 for contact information). In cases where the impacted party is a student and the responding party is a college employee, the Title IX coordinator will direct the matter to the Office of Human Resources (HR). All other reports, including all reports where the impacted party is an employee, should be raised with the HR. If a report is against personnel in the Title IX office or HR, it should be submitted to the president's office for referral to an alternate designee.

[Equal Opportunity](http://www.bellevuecollege.edu/equal/) (<http://www.bellevuecollege.edu/equal/>)

## Confidentiality and Mandatory Reporting

As an instructor, one of my responsibilities is to help create a safe learning environment on our campus. It is my goal that you feel able to share information related to your life experiences in classroom discussions, in your written work, and in our one-on-one meetings. I will seek to keep information you share private to the greatest extent possible. However, I am required to share with the Title IX Coordinator any and all information regarding sexual assault and other forms of sexual misconduct (e.g. relationship violence, stalking) that may have occurred on campus or that impacts someone on campus. Students may speak to someone confidentially by contacting the BC Counseling Center at (425) 564-2212. The Title IX Office can be contacted at 425-564-2641 and more information can be found at [Title IX](http://www.bellevuecollege.edu/titleix/) (<http://www.bellevuecollege.edu/titleix/>).

If you have any concerns, you may report to: [Report Concerns](https://www.bellevuecollege.edu/reportconcerns/) (<https://www.bellevuecollege.edu/reportconcerns/>).

## Division Statements

### [Mission and Goals](#)

The BC Science Division, by fostering an environment in which students, faculty and staff work collaboratively to expand students' knowledge in the disciplines of science and mathematics, seeks to provide students with a foundation to achieve their goals and to function as responsible and contributing members of the community.

In support of its mission, the Science Division is committed to the following goals:

- Create an environment that supports student success through instructor accessibility, small class sizes, well-supported lab facilities, creative and innovative pedagogy, and regular career and educational advising for students.
- Provide a diversity of educational modes in a technologically modern, sustainable, student-centered environment.
- Create an atmosphere that cultivates student literacy and life-long interest in science and mathematics through course-based and club-based on-campus activities and projects, participation in SAMI programs, and opportunities for student research and educational collaborations with members of the wider scientific/mathematical community.
- Provide a diversity of course offerings from developmental to college level classes in order to provide access to and ongoing educational support for students of widely diverse age, gender identity, background, ethnicity, and cultural and socioeconomic status.
- Cultivate students' understanding and appreciation for evidence- and logic-based reasoning both as a tool for academic success and scientific inquiry, and also as a critical tool for responsible civic life.



- Teach leadership by example through active faculty participation in BC leadership, community engagement, professional accountability, and sustainable operations.
- Support each faculty member's maintenance of disciplinary expertise by engaging in professional development, collaborative opportunities, and by supporting growth of our peers.

### [College Copyright Policy](#)

*This link provides a good, short summary of how to avoid plagiarism: [Avoiding Plagiarism](#)*

## Student Conduct Code and Academic Integrity

Any act of academic dishonesty, including cheating, plagiarism (using the ideas or words of another as one's own without crediting the source), and fabrication, and inappropriate/disruptive classroom behavior are violations of the Student Conduct Code of Bellevue College. Examples of disruptive behavior include, but are not limited to, repeatedly talking out of turn, arriving late or leaving early without a valid reason, allowing cell phones to ring, and inappropriate behavior toward the instructor or classmates. The instructor can refer any violation of the Student Conduct Code to the Manager of Student Conduct for investigation. Specific student rights, responsibilities, and appeal procedures are listed in the Student Conduct Code at: [Student Code](#)

## Important Links

See "[Important Links](#)" [page online](#) for more information about the E-mail and MyBC, Public Safety, the Academic Calendar, the Academic Success Center, and more.

## Disability Resource Center (DRC)

The Disability Resource Center serves students with disabilities. Common disabilities include physical, neurological (e.g. Autism, ADD/ADHD), and mental health (e.g. depression, anxiety). If you are a student who has a disability or if you think you may need accommodations in order to have equal access in your classes, programs, activities, and any other services, please contact the DRC.

If you require assistance in an emergency, please meet with your individual instructors to develop a safety plan for while in class and contact the DRC to develop a safety plan for while you are elsewhere on campus.

The DRC office is located in building B Room 132. You can contact the DRC by stopping by the office at B132, calling our front desk phone number (425) 564-2498, emailing

[drc@bellevuecollege.edu](mailto:drc@bellevuecollege.edu). Deaf students can reach us by calling TTY: (425) 564-6189, or by Skype (account name **DRCatBC**). For more information about the services we offer, including our Initial Access Application, visit our website at [Disability Resource Center](http://www.bellevuecollege.edu/drc) (<http://www.bellevuecollege.edu/drc>).

Service Animals are allowed in this classroom. Emotional Support Animals need to be approved through the DRC. All other animals will be asked to leave. If you believe you need your animal with you, please connect with the DRC and refrain from bringing your animal until a decision has been made.

## Final Exam Schedule

The Final Exam will be at 1:30 pm on Thursday, 12/10.

[Final Exam Schedule](#)

## Additional Information

A note about accessing Canvas from the People's Republic of China: some users have reported that they do not have full access to all Canvas functionality from within the People's Republic of China. This appears to be due to Canvas' parent company, Instructure, not fully committing to Chinese government requirements regarding internet operations within the country. The Chinese government does not inform foreign entities of their policy updates; therefore, Bellevue College cannot anticipate access to Canvas.

If you will be in China during the quarter, you should prepare for intermittent and uncertain access to Canvas.

Source: [Access to Canvas in China](https://support.canvas.fsu.edu/kb/article/1157-access-to-canvas-in-china/) (<https://support.canvas.fsu.edu/kb/article/1157-access-to-canvas-in-china/>)