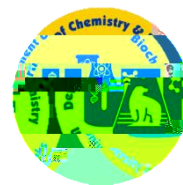




# General Chemistry II, CHEM F106X

4 Credits

Fall 2021



## General Information

<i>Instructor:</i>	Dr. Tom Green	<i>Office Location:</i>	Reichardt 174 or Home
<i>Email:</i>	tkgreen@alaska.edu	<i>Office Hours:</i>	TBA, by Zoom.
<i>Telephone:</i>	(907) 474-1559 office (907) 452-6370 Home 907-744-2726 Cell	<i>*Course Type:</i>	Lecture: In-person Laboratory: In Person
<i>**Course Location:</i>	Reichardt 201 Laboratory – see separate syllabus	<i>Meeting Time:</i>	MWF 11:45-12:45

## Prerequisites

Placement in WRTG F111X; placement in MATH F151X; CHEM F105 Gen Chem I or equivalent

## Co-requisites

Co-requisite: CHEM F106L. Students must be enrolled in both CHEM F105X and CHEM F105L to receive full credit.

## Course description

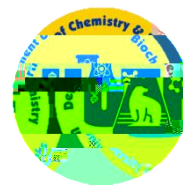
CHEM F105X-



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## Course Readings/Materials

The following materials are *required* for the course and can be purchased in the UAF bookstore or elsewhere:

1. *Chemistry: An Atoms-Focused Approach*, 3<sup>rd</sup> edition, Gilbert et al.  
Complete Book - ISBN: 978-0-393-67402-6 (Hardcover), 978-0-393-69744-5 (ebook). eBook and Smartwork are \$80 for 720 days.
2. Norton Smartwork 5 access for *Chemistry: an atoms-focused approach*, 2nd Ed.
3. Experiments in General Chemistry 106X: A Laboratory Manual (free! Handouts can be printed from Blackboard, updated weekly)
4. Access to Packback. Participation is a requirement for this course, and the Packback Questions platform will be used for online discussion about class topics. Cost is \$29.
5. Optional: American Chemical Society (ACS) General Chemistry Study Guide  
Essential Algebra for Chemistry Students 2nd Ed. by Ball

A University of Alaska email address is required for all communication in the class. This also provides access to the Blackboard system for individual scores and grades.

## Technology requirements

A University of Alaska email address is required for all communication in the class. This also provides access to the Blackboard system for individual scores and grades.

Students must have regular

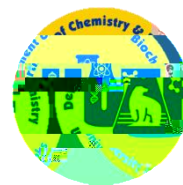
Students will be expected to download course material. Lectures will b



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## Course Goals

The primary goal is for you to be able to interpret, explain, and predict the physical and chemical properties of substances based on their atomic and molecular structures. We also want you to understand how chemistry is linked to other disciplines as well as your life. Another goal is to illustrate how chemistry is all around you, in the air you breathe and the food you eat, and how understanding chemistry will help you solve problems in this course and beyond.

The course will also focus on problem-solving. Your goal should be to develop strategies for solving chemical problems. Your approach should be to study and know the facts, and then apply that knowledge to new situations in chemistry.

Another goal is to realize that chemistry is an experimental science. The laboratory should illustrate and reinforce concepts learned in the lecture.

## Student Learning Outcomes

are defined for each chapter in the textbook. Please refer to the Blackboard course under Course Content for listing of these Learning Outcomes.

for the Course are:

- Demonstrate a knowledge of basic chemical concepts, such as properties of solutions, thermodynamics kinetics, equilibria, electrochemistry, nuclear chemistry, and organic/biochemistry structures.

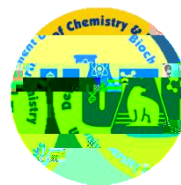
- Demonstrate strength in quantitative chemical problem solving including mathematical skills



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4 Credits

Fall 2021



typically consist of approximately 15-20 questions, and will be ~18 pts each x 11 HW for a total 200 pts. Smartwork will be due typically Friday, 11:59 pm AST.

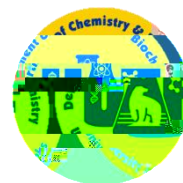
All exams will be delivered in class and will consist of multiple choice and short answer problems. The student is responsible for all information from the assigned text, lecture, and homework. Any of these sources will be used to construct exam questions. Three exams and a cumulative final exam will be given as per the course schedule.



# General Chemistry II, CHEM F106X

4 Credits

Fall 2021

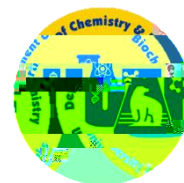





# General Chemistry II, CHEM F106X

4 Credits

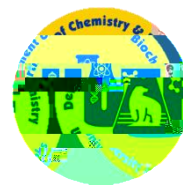
Fall 2021



## Evaluation

Grades will be posted to blackboard, which can be accessed from the UAF homepage. Class grades may be adjusted (curved) from the following schedule only in the students' favor.

	Points	Grade Range	Letter Grade	Points
Examination 1	100	100 - 90%	A	1000-900
Examination 2	100	89 - 80%	B	899-800
Examination 3	100	79 - 70%	C	799-700
Final Examination	150	69 - 60%	D	699-600



- Deceiving faculty members or other representatives of the university to affect a grade or to gain admission to a program or course;
- Fabricating or misrepresenting data;
- Possessing, buying, selling, obtaining, or using a copy of any material intended to be used as an instrument of assessment in advance of its administration;
- Altering grade records of their own or another student's work;
- Offering a monetary payment or other remuneration in exchange for a grade; or
- Violating the ethical guidelines or professional standards of a given program.

For more, see [Students Rights and Responsibilities](#).

## Extended Absence Policy

Extended absences are defined as missed classes or course work by students beyond what is permissible by the instructor's written course policies. Students may need to miss class and/or course work for a variety of reasons, including, but not limited to:

Official UAF activities such participation in athletic events, conferences, etc.

Bereavement

Personal illness or injury

Serious illness of a friend, family member or loved one

Military obligations

Jury service

Other emergency or obligatory situations

For more information, go to the student handbook or the Center for Students Rights and Responsibilities.

## UAF Incomplete Grade Policy:

Your instructor follows the University of Alaska Fairbanks Incomplete Grade Policy:

"The letter "I" (Incomplete) is a temporary grade used to indicate that the student has satisfactorily completed (C- or better) the majority of work in a course but for personal reasons beyond the student's control, such as sickness, has not been able to complete the course during the regular semester. Negligence or indifference are not acceptable reasons for an "I" grade."

For more information, see [the UAF regulations regarding grades](#).

## Student Protections Statement

I will work with the Office of Disability Services to provide reasonable accommodation to students with disabilities. The Office of Disability Services implements the Americans with Disabilities Act (ADA), and ensures that UAF students have equal access to the campus and course materials. I will work with the Office of



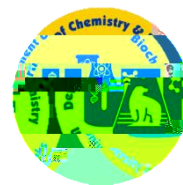




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Fall 2021



### Student Support Services

The Student Support Services (SSS) program, located in 514 Gruening Building, provides opportunities for academic development, assists students with college requirements, and serves to motivate students towards successful completion of their degree program.

Students have access to services if they meet any of the three eligibility requirements: a) limited income, b) documented disability, or c) first generation college student. Students receive intensive advising, one-one-one tutoring, technology check-outs, free printing and copying, computer lab space, and many other services. Additional information is at <https://www.uaf.edu/sss>, or contact them directly at (907) 474-6844.

### Rural Student Services

Responding to student needs by providing quality services to Native and rural students who expend positive effort in the pursuit of higher education and its opportunities. Please see: <https://uaf.edu/ruralss/>. Additional student support services can be found here: <https://www.uaf.edu/ruralss/tutoring-services/>.

### UAF Help Desk

Go to <https://alaska.edu/oit/> to see about current network outages and news. Reach the Help Desk at: [helpdesk@alaska.edu](mailto:helpdesk@alaska.edu) or 907-450-8300 (in the Fairbanks area) or 1-800-478-8226 (outside of Fairbanks).

### eCampus Student Services

UAF eCampus Student Services helps online students with registration and course schedules, provides information about lessons and student records, assists with the examination process, and answers general questions. Their Academic Advisor can help students communicate with instructors, locate helpful resources, and maximize their learning experience. Contact the UAF eCampus Student Services staff at 907-479-3444 (toll free 1

