







# Organic Chemistry I, CHEM F321

1 Credit

Fall 2022

## Explanation of Student Effort

Students are expected to spend 2 -3 hours per credit hour outside of class to be successful. Thus, you should expect to spend 8 -12 hours outside of class studying for this class. Although this is typical, you may spend more or less than this, depending on your previous experience studying chemistry.

## Instructional Methods

1. The instructor or teaching assistant will provide a brief introduction on the practical aspects of organic chemistry, using a combination of Power Point slides and Chalkboard. The Lab Schedule will be available on Blackboard and at the end of this syllabus.
2. Laboratory sessions will consist of conducting reactions of organic compounds and their isolation, purification, and characterization.
3. 0 Š Š Ø μ n / μ 2 P Ÿ μ H i P ö ö 2 μ 1 P P 2 μ Š W m Š ! a μ / 2 H X -lab and Post-lab § : P : H components. The Pre-lab portion must be completed prior to coming to lab. If it is not completed, you will not be allowed to work in the lab for that day. Z : μ n / μ 2 P Ÿ μ Your HTA will need to verify with her/his initials that you have completed the pre-lab questions. Students are also required to keep a laboratory notebook. The lab notebook will be collected at the midterm, evaluated but not graded, and returned with suggestions for improvement. The lab notebook will be graded at the end of the semester.
4. A lab textbook *Making the Connections*<sup>3</sup> by Anne Padias which describes techniques, glassware, lab notebooks, spectroscopic techniques, etc. Readings will be assigned to the student for each experiment.





# Organic Chemistry I, CHEM F321

1 Credit

Fall 2022

Exp 8: Dehydration of an Alcohol	Nov 7	Distillation, drying of solvents mechanism, alkene stability	7	143-159 139-142
Exp 9: Reduction of Camphor	Nov 14	Hydride reduction, stereoisomers, NMR. WebMO	10, 13	77-104
Make -up Experiments	Nov 21	--	--	

## Due Dates for Lab Reports and Homework.

All lab reports will be due exactly one week after the completion of the experiment, at 11:59 pm.

Experiment	Week of
Exp 1: Safety; Lab Notebook; Calculation of Solvent Properties	Sept 12
Exp 2: IR Spectroscopy	Sept 26
Exp 3: Alkanes/Cycloalkanes	Oct 3
Exp 4: NMR spectroscopy of Unknowns	Oct 17
Exp 5: Thin Layer Chromatography	Oct 24
Exp 6: Crystallization of Benzoic Acid	Oct 31
Exp 7: Triphenylmethanol and SN1 reaction.	Nov 7
Exp 8: Dehydration of an Alcohol	Nov 14
Exp 9: Reduction of Camphor	Nov 21







## Organic Chemistry I, CHEM F321

1 Credit

Fall 2022

### Title IX

University of Alaska Board of Regents have clearly stated in BOR Policy that discrimination, harassment and violence will not be tolerated on any campus of the University of Alaska. If you believe you are experiencing discrimination or any form of harassment including sexual harassment/misconduct/assault, you are encouraged to report that behavior. If you report to a faculty member or any university employee, they must notify the UAF Title IX Coordinator about the basic facts of the incident.

Your choices for reporting include:

- 1) You may access confidential counseling by contacting the UAF Health & Counseling Center at 907-474-7043;
- 2) You may access support and file a Title IX report by contacting the UAF Title IX Coordinator at 907-474-6600;
- 3) You may file a criminal complaint by contacting the University Police Department at 907-474-7721. <https://uaf.edu/oeo/civil-rights/aa-eo/>

Any UAF employee or volunteer who reasonably suspects or observes minor abuse or maltreatment is required to report the incident. Reporting procedures are available on the UAF Protection of Minors. Violation of this policy by employees shall be reported as well.

### Equal Opportunity Employer

UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: [alaska.edu/nondiscrimination](http://alaska.edu/nondiscrimination).

### Library

Contact the Elmer E. Rasmuson Library at UAF reference desk for help with research. [library.uaf.edu](http://library.uaf.edu) or 907-474-7481

### 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-on-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.





# Organic Chemistry I, CHEM F321

1 Credit

Fall 2022

## 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 -800 -277 -8060) or contact staff directly. For directory listing see: <https://ecampus.uaf.edu/contact>

## Eo

- " UAF Speaking Center (907 -474 -5470, [speak@uaf.edu](mailto:speak@uaf.edu), Gruening 507)
- " Writing Center (907 -474 -5314, [uaf-writingcenter@alaska.edu](mailto:uaf-writingcenter@alaska.edu), Gruening 8th floor)
- " UAF Math Services, [uafmathstatlab@gmail.com](mailto:uafmathstatlab@gmail.com), Chapman 305 (for math fee paying students only)
- " Debbie Moses Learning Center at CTC (907 -455 -2860, 604 Barnette St, Room 120).

# Organic Chemistry I, CHEM F321

1