



# Coffee: Chemistry & Culture 1

fyp.uoregon.edu

FALL 2020

## COURSES

### College Connections

CH 199

1 credit

### General Chemistry

CH 221 - WEB Course

Core Education Science (>3)

4 credits

### General Chemistry Lab

CH 227

2 credits

## CALENDAR

### First FIG Meeting

You will get to meet your FIG classmates, FIG Assistant (FA), and Faculty before classes start!

Check your FIG page in September to find out more details.

## ACADEMIC TEAM

### College Connections Professors

Christopher Hendon

Assistant Professor of Chemistry

[chendon@uoregon.edu](mailto:chendon@uoregon.edu)

### FIG Assistant

Erika Moe

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## ABOUT THIS FIG

### College Connections

Numerous physical and chemical processes play a determining role in the quality of a cup of coffee, ranging from agricultural practices, to roasting and brewing. This FIG canvases the landscape of coffee research to date, detailing areas that require further study, as well as discussing our early efforts to better understand the key factors that determine cup quality and reproducibility. A focus will be placed on the production of espresso-based beverages, and how we can systematically improve both the flavor reproducibility and coffee efficiency using a mixture of mathematics, chemistry, and physics. This FIG will involve a mixture of lectures, as well as interfacing with Eugene's local specialty coffee purveyors visiting multiple cafes around the city, merging science with local businesses.

### General Chemistry

Chemistry is the study of matter and the changes that it undergoes. It is a science that is central to our understanding of the natural world and it serves as a foundation for all other scientific disciplines. The General Chemistry sequence, beginning with CH 221, is designed for science majors and pre-professional students, and provides an introduction to the experimental and theoretical foundations of chemistry. Students will gain factual knowledge about the terminology and language of chemistry as well as an understanding of the underlying reasons why chemical processes occur. They will be expected to interpret, reason and problem solve using fundamental chemical principles.

### General Chemistry Lab

Introduces chemistry laboratory techniques, including volume and mass measurement, use of the pipette and burette, and gravimetric thermochemical measurements. Required for students in the natural sciences or for those preparing to enter one of the medical sciences.

## NEXT STEPS

After you're registered for your FIG, you will want to check out the Meet Your FIG page (<https://fyp.uoregon.edu/fall-2020-figs>). This page will have everything you need to know before the beginning of fall term, including how to email your FIG Assistant, if you have a summer assignment, and when you will be meeting your FIG for the first time in September. In order to prepare for your coursework and be notified about important academic deadlines you will want to download the "Canvas" and "Navigate" apps to your phone or any device you will be using. If you have questions about anything, make sure you email your FIG Assistant – they are here to help!



Division of  
Undergraduate Education and  
Student Success



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FALL 2020

| Coffee: Chemistry & Culture 1 |  |         |   |          |   |
|-------------------------------|--|---------|---|----------|---|
|                               | Monday   | Tuesday | Wednesday                                     | Thursday | Friday  |
| 9AM                           | CH 199<br>17118  |         |   |          |   |
| 10AM                          | TYKE 204<br>9:30am-10:30am   |         |   |          |   |
| 11AM                          |  |         |   |          |   |
| 12PM                          |  |         | CH 227<br>11632<br>KLA 109<br>12:15pm-3:05pm  |          |   |
| 1PM                           |  |         |   |          |   |
| 2PM                           |  |         |   |          |   |
| 3PM                           | CH 227<br>11626  |         |   |          |   |
| 4PM                           | REMOTE 00<br>3:30pm-4:30pm   |         |   |          |   |
| <b>KEY</b>                    | Your FIG College Connections Class. Meet once a week with 20 peers, Faculty, and FIG Assistant (FA). |         | The lecture courses associated with your FIG. |          | Your discussion or lab section for lecture courses. |

This FIG has an asynchronous remote class (which appears on the UO class schedule as "WEB") that does not appear on this schedule. You are enrolled in all of the FIG classes, and can see them when you log on to Duckweb.

## ENROLLED IN A FIG AND CHANGE YOUR MIND?

Visit this link to find out the best way to make FIG changes for you: <https://fyp.uoregon.edu/register>