

## Spring 2019 Chemistry for the Life Sciences Frequently Asked Questions (FAQs):

### For Students Getting Ready to Apply to Health Professional School

1. How many health professional schools across the country accept the sequence to fulfill their prerequisites?

**Answer:** Upon review of the Chemistry for the Life Sciences course sequence, the University of Minnesota Medical School, College of Pharmacy, College of Veterinary Medicine, Genetic Counseling Program, Doctor of Physical Therapy (DPT) Program, and Medical Laboratory Sciences (MLS) Program have agreed that they will accept the Chemistry for the Life Sciences series to fully satisfy their chemistry course prerequisites, and they have all provided CBS with written documentation of this agreement.

The University of Minnesota Dental School will require its DDS applicants to complete one additional chemistry course to fulfill its prerequisite requirement of 16 credits across general and organic chemistry, and possible chemistry course options are shared later in this guide.

CBS reached out to numerous health programs across the country to share its new chemistry sequence and determine how programs would assess the Chemistry for the Life Sciences course sequence to fulfill prerequisites. Based upon communication received and program prerequisite review, the Chemistry for the Life Sciences course sequence will fulfill general and organic chemistry prerequisites for the majority of medical schools, osteopathic medical schools, veterinary medicine programs, physician assistant programs, genetic counseling programs, and optometry programs.

Many pharmacy and dental schools also communicated that this sequence would fulfill their prerequisites, but some did indicate they would like students to complete additional coursework.

A detailed overview of information about specific health professional schools and programs, as well as application tips related to Chemistry for the Life Sciences, can be found at [z.umn.edu/cbschemistrysupport](http://z.umn.edu/cbschemistrysupport).

2. If a health professional school indicates they want me to take more chemistry coursework, what are my options?

**Answer:** A student should consult [z.umn.edu/cbschemistrysupport](http://z.umn.edu/cbschemistrysupport) to review any specific health program's prior communication to CBS, as well as review how to communicate this sequence to programs that CBS has not received communication from. If a program communicates to a student that they need to complete additional coursework to fulfill a program's prerequisites, the following options are available to CBS students after completing Chemistry for the Life Sciences:

#### **Chemistry 2101: Introductory Analytical Chemistry Lecture (3 credits, lecture)**

Methods/concepts of measurement by chemical/instrumental analysis, including titrimetry, quantitative spectrophotometric analysis, chromatographic separations, equilibrium/rate methods.

### **Chemistry 4411: Introduction to Chemical Biology (3 credits, lecture)**

Chemistry of amino acids, peptides, proteins, lipids, carbohydrates, and nucleic acids. Structure, nomenclature, synthesis, reactivity. Techniques to characterize biomolecules.

### **Chemistry 4601: Green Chemistry (3 credits, lecture)**

Survey key aspects of green chemistry in modern research and development both in academia and industry, as well as relevant implications for the environment, technology, and public policy.

More information about these courses are available at the previously provided link. **Before registering for one of these courses, students should follow up with health professional schools directly to determine if these are acceptable options to fulfill prerequisites if schools require more chemistry coursework after Chemistry for the Life Sciences.**

If a program requires a different course than these options, a student is strongly encouraged to meet with their academic advisor to determine what options, including options at another 2-year or 4-year institution, might be available.

### **3. When must prerequisite courses be completed by when applying to health professional school?**

**Answer:** Programs can differ in terms of when they would like prerequisites to be completed. It is not uncommon for students to have some prerequisite courses still in progress at the time of applying to health professional school. Many programs indicate that students must complete prerequisite courses by the time they matriculate (begin courses in the health professional program). Because programs can differ in terms of when they would like prerequisite courses completed by, it is important to review each individual program's website to ensure that prerequisite courses are finished by the time a program specifies they should be completed.

### **4. Where can I find more information about how to share information about the Chemistry for the Life Sciences course sequence on my application and with conversations with health professional schools?**

**Answer:** Students may visit [z.umn.edu/cbschemistrysupport](https://z.umn.edu/cbschemistrysupport) to receive additional application support as it relates to applying to health professional school after completing the Chemistry for the Life Sciences course sequence. On this page, the following is available:

- A summary of CBS outreach to different health professional schools and programs across the country and these programs' responses to CBS's chemistry sequence with regards to fulfillment of program prerequisites
- Additional chemistry coursework options if a program has requested a student complete more chemistry coursework, including syllabi for these courses
- A copy of these FAQs
- Application advice resources including a webinar on how to share the Chemistry for the Life Sciences coursework in the Centralized Application Service system for each health profession
- A letter to share with programs who have more questions about the sequence
- A link to a webpage ([z.umn.edu/cbschemistry](https://z.umn.edu/cbschemistry)) designed for health professional schools and programs that provides more information about the Chemistry for the Life Sciences sequence, along with syllabi for all courses in the sequence
- Information about who to contact about questions not answered in these FAQs