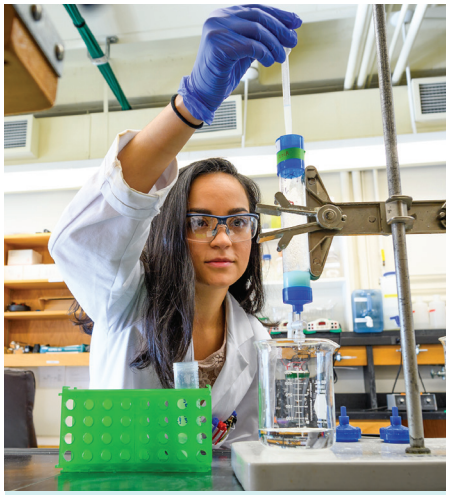
CLARK UNIVERSITY

CHEMISTRY

Bachelor of Arts



HIGHLIGHTS

The standard track prepares you to pursue a health profession, public school teaching, technical sales, or work in other chemistry-related fields. The American Chemical Society (ACS)-certified track is recommended if you plan a career in the chemical sciences or research.

Why study chemistry at Clark?

Chemistry at Clark prizes courageous scientific exploration — and a sense of adventure. Take matter into your own hands.

As a chemistry major, you won't just focus on memorizing theories and formulas. You will engage with real-world problems as early as your first year, collaborate with leading professors making chemical discoveries or developing new materials, intern with successful alumni scientists, and present your research at national scientific conferences. Chemistry majors often produce results that are included in research articles published in prominent, peer-reviewed chemistry and biochemistry journals.

CORE COURSES

Once you declare your major, you will select the standard or American Chemical Society (ACS)-certified track based on your career goals. You will also learn to communicate chemical concepts through reports based on research in the chemical literature, ClarkFEST presentations, honors theses, or publications. Required courses include:

- Introduction to Chemistry (two semesters)
- Physics and Calculus (two semesters each)
- Organic Chemistry
- Analytical Chemistry
- Physical or Biophysical Chemistry
- Five advanced courses including three with lab

"I love the focus on research at Clark. With a chemistry degree you get tons of hands-on research and a strong liberal-arts background."

— KELSEY PERRY '19, COMMUNITY LIAISON OFFICER, MAYFLOWER WIND

49%

of chemistry alumni pursue advanced study

CHEMISTRY *Bachelor of Arts*

CLARK UNIVERSITY

DESIGN YOUR JOURNEY >

- Explore and navigate Clark curriculum
- Connect and engage with communities
- Discover and pursue your passions
- Develop professional skills
- Reflect, design and plan

YEAR 1

☐ Explore the Chemistry Department

Check out our website to learn who we are and where we are located.

☐ Identify potential Program of Liberal Studies (PLS) courses

How can these courses support your academic interests?

☐ Get to know your faculty

Schedule an appointment with a chemistry faculty member during the first weeks of the semester. Attend faculty and TA office hours for help.

☐ Learn about campus resources

Make ClarkYou your homepage and explore a new resource every week related to academics, health and wellness, campus life and student services.

☐ Get connected

Join a club that aligns with your interests such as Women in STEM, Future LatinX in STEM, or the Chemistry Club.

☐ Explore on and off campus

Worcester is home to a thriving biotechnology, life sciences, and STEM scene as well as museums and a vibrant arts community. Check out MassBioEd's virtual laboratory tours and explore all that the wider community offers.

☐ Try something new and ask for feedback

Apply your new chemical knowledge in class and your technical skills in lab.

☐ Reflect on what sparked your interest this year

Celebrate your progress! What classes did you enjoy most this year? What new interests do you have?

YEAR 2

☐ Declare your major and define your interests

Learn more about the American Chemical Society (ACS) or general chemistry major tracks. Identify faculty members who share your interests and consider asking one to become your adviser.

☐ Prepare for research

Speak with faculty about their research in materials science, biochemistry, or other fields

☐ Network, Network, Network!

Join ClarkCONNECT to see what chemistry alumni are up to. Participate in the Alumni Job Shadow program through the Career Connections Center (CCC) to experience a day on the job.

☐ Stretch yourself

Take a Problems of Practice (PoP) course. Explore new ideas and go outside your comfort zone.

☐ Look around

Visit the Study Abroad office to learn about options for chemistry majors.

☐ Apply what you have learned

Seek a summer fellowship to conduct research over the summer at Clark. Look for an internship or a volunteer position at a local organization.

☐ Set yourself up for success

Visit the CareerLab in ASEC to get your resume ready and get tips on building a strong LinkedIn profile.

☐ Look ahead

Talk with your adviser about your academic plans. Will you study abroad? Are you interested in pursuing your Honors research in chemistry? How about the accelerated degree program (ADP)?

WHERE DO CLARKIES GO AFTER COMPLETING A CHEMISTRY MAJOR?

JOBS & EMPLOYERS

Our graduates have careers in a wide range of industries including biotechnology, food science, healthcare, pharmaceutical, energy storage, and higher education.

GRADUATE PROGRAMS

Chemistry alumni pursue advanced study at top schools including Brown, Columbia, Harvard, MIT, NYU, Northwestern, Tufts, UCLA, UMass Medical School, Worcester Polytechnic, and Yale.

YEAR 3

- ☐ **Take matter into your own hands — become a researcher!**

  Join a chemistry research lab. Build your experimental skillset through personalized elbow-to-elbow learning with a faculty member and graduate students.

- ☐ **Engage and refresh your networks — on and off campus**

  Schedule an informational interview. Attend CCC and alumni events. Come out and support classmates at ClarkFEST.

- ☐ **Get out of here!**

  Study abroad or away. Apply for a summer fellowship at a government-funded lab or research center.

- ☐ **Put your learning into action**

  Reach out to the CCC to explore industries of interest, such as biotechnology, and to strategize on finding and applying for internships.

- ☐ **Build your expertise**

  Take mini-courses offered in the Chemistry Department to expand your skills, including science career development, communication, and experimental techniques.

- ☐ **Plan for senior year and beyond**

  Work with your academic adviser to refine your plans. Apply for the chemistry Honors program, or attend an ADP information session and plan your application timeline, if interested.

- ☐ **No regrets!**

  What's on your Clark bucket list? Where are you confident, and where do you still need to build skills and experience?

YEAR 4

- ☐ **Finish strong!**

  Expand your horizons by selecting electives that pique your interest. Be sure to complete all of your PLS courses and major requirements.

- ☐ **Pull it together with your capstone**

  Your capstone draws on your learning and experiences at Clark. You might engage with others on a research project or in a course that challenges you to work together and improve your critical thinking and communication skills.

- ☐ **What's next?**

  Talk with chemistry faculty and your career adviser about your job search or graduate school applications. Identify faculty who know you well and can write letters of recommendation.

- ☐ **Share what you have learned**

  Present the research that you completed over the summer or during the academic year at ClarkFEST. Work as a Peer Learning Assistant or student leader in a club or organization.

- ☐ **Get ready to launch!**

  Update your resume and LinkedIn profile. Learn how to demonstrate personal qualities such as leadership, teamwork, problem-solving, and initiative. Participate in mock interviews and reach out to alumni through ClarkCONNECT.

- ☐ **Ask the big questions**

  Reflect on your growth and how you have changed. What have you learned that you value? Are there traits in others you want to nurture in yourself?

CHEMISTRY FACULTY MEMBERS WHO TURN THE (PERIODIC) TABLES

At Clark, your chemistry education extends beyond the classroom.

While some schools place an emphasis on lecturing and solitary lab work, faculty members at Clark directly interact and collaborate with you, helping you build your skills and identify career aspirations. Our professors specialize in everything from polymer science and nanomaterials to protein structure. Our faculty are NSF- and NIH-funded and include an American Chemical Society Fellow and a John A. Timm Awardee — the highest honor given by the New England Association of Chemistry Teachers.

CONNECT WITH US!

Find out more at clarku.edu/chemistry.

Advising

We are here to support your academic journey.

In your first year at Clark, you will be assigned an adviser to help you select your courses and programs. Once you declare your major, chemistry faculty will advise you.

CLARK UNIVERSITY

Challenge Convention.
Change Our World.

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clarku.edu