

Gary Hendricks



Objective

I am a motivated undergraduate chemistry student at Austin Peay State University. My goal is to attend graduate school in order to one day join the fight in pediatric oncology research at St. Judes Children's Hospital.

Education

Bachelor of Science in Chemistry: Concentration Professional Chemistry and Biochemistry

Austin Peay State University, Clarksville, TN

Expected Graduation Date: May 2026

Relevant Coursework: General Chemistry Sequence, Organic Chemistry sequence, Biochemistry sequence, Instrumental Analysis sequence, Physical Chemistry sequence, Inorganic Chemistry, General Biology sequence, Cell and Molecular Biology, Genetics, Microbiology, Biological Methods, Human Anatomy and Physiology sequence.

Honors:

- ◇ Overall GPA – 3.79
 - ◇ Science GPA – 3.89
 - ◇ American Chemical Society (ACS) accredited degree.
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Relevant Work

Experience

7/2024 - Present

Chemistry Lab Assistant, *Austin Peay State University Chemistry Department*

- ◇ Works Entrusted by faculty to supervision labs independently. Assist faculty in undergraduate chemistry labs to support student learning of core laboratory techniques and concepts.
- ◇ Prepare laboratory experiments for lower level chemistry courses. This includes making solutions, organizing labs, and setting up proper instrumentation.
- ◇ Tested newly designed laboratory experiments for use in the General Chemistry labs.
- ◇ Work alongside professors to aid students through laboratory experiments.
- ◇ Worked one-on-one with a blind disabled student throughout an introductory chemistry lab, to promote lab safety and inclusivity.
- ◇ Hosted Kahoot, jeopardy, and other tutoring sessions for General Chemistry students.
- ◇ Performed safety checks on all student and research labs weekly.
- ◇ Mentored new research students, including demonstrating new instrumentation, proper laboratory techniques, and lab etiquette.

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Relevant

Undergraduate analytical Chemistry Research, Austin Peay State University

Research & Presentation

Undergraduate research (2023- present) in analytical chemistry. Project was established to determine effective methodology for analysis of heavy metal concentration, in commonly consumed cocoa products.

- ◇ Developing problem-solving and critical thinking skills by troubleshooting unexpected experimental results, such as low metal concentrations, and systematically testing variables affecting the wet digestion process.
- ◇ Gaining hands-on experience with advanced analytical techniques, including atomic absorption spectroscopy and electrochemical analysis.
- ◇ Strengthening collaboration and leadership abilities by working closely with peers, mentoring classmates, and contributing to a research group environment.

Presentations

- ◇ Heavy Metal Analysis of Cocoa Powder Using Wet Digestion Techniques. Austin Peay State University Undergraduate Research Symposium. 04.03.24
- ◇ Effects of Catalysts on Wet Digestion of Cocoa Powder, in Heavy Metal Analysis. Austin Peay State University Chemistry Undergraduate Research Symposium. 11.21.24
- ◇ Heavy Metal Analysis of Cocoa Products Utilizing Enzyme Assisted Wet Digestion. Austin Peay State University CoSTEM Research Symposium. 05.23.25
- ◇ Trace Metal Analysis in Cocoa: Method Optimization for Lead and Cadmium. ACS Spring 2026, Atlanta, GA. 03.22.2026 – 03.26.2026

Clubs & Organizations

Relevant Clubs and Organizations

- ◇ Current President of Chi Epsilon (XEM) APSU ACS Chemistry Student Chapter
 - ◇ Vice-President / Secretary of Chi Epsilon (XEM) APSU ACS Chemistry Student Chapter August 2024 - January 2025.
 - ◇ Member of the Austin Peay State University Honors Program. 2021-2023
 - ◇ Member of the Pre-professional Health Society 2021-2024
 - ◇ Secretary of the Pre-PA student chapter August 2024 – December 2024
 - ◇ Member of Golden Key International Honors Society 2021-2023
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Study Abroad (Honduras)

- ◇ March 7th, 2026 – March 14th, 2026
 - ◇ Built a house for a woman and her 2 children.
 - ◇ Went to the pediatric wing of the local hospital to give toys and chemistry magazines to injured/sick children.
 - ◇ Performed chemistry demonstrations in order to get children interested in science, and help further their education.
 - ◇ Carried food to a small Lenca village to help feed families.
 - ◇ Met with the mayor of Tegucigalpa, discussing water crisis issues, education, housing crisis, and health related issues.
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Community Service Opportunities

- ◇ Cleaned school buses for Sumner County Board of Transportation. 2019-2021
 - ◇ Hosted chemistry bootcamps with XEM to help lower division students with chemistry labs. 2023-present.
 - ◇ Hosted an animal shelter drive to help keep animals warm during the winter. 2025
 - ◇ Done many St. Jude walks, ride-ins, visits, and drives in order to raise money for sick children.
 - ◇ Went to Honduras for a study abroad: built a house, did chemistry demos, gave toys away at the hospital, and discussed major issues with the mayor of Tegucigalpa (Capital of Honduras). 2026
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Skills & Awards

- ◇ Austin Peay State University Dean's List: August 2021 – Present
 - ◇ Austin Peay State University Chemistry Department Top TA Award: 2025
 - ◇ Austin Peay State University Chemistry Department General Chemistry Award: 2024
 - ◇ Spectroscopy (NMR, AAS, UV-Vis)
 - ◇ Chromatography (HPLC, GC)
 - ◇ Wet Chemistry & Titration Techniques
 - ◇ Data Analysis & Scientific Writing
 - ◇ Laboratory Safety & Protocols
 - ◇ Research Design & Problem Solving
 - ◇ Teaching & Mentoring
 - ◇ Chemical Software (ChemDraw, ChemSketch, Excel)
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References

- ◇ Dr. Lisa Sullivan sullivanl@apsu.edu
 - ◇ Dr. Leslie Hiatt hiattl@apsu.edu
 - ◇ Dr. Carrie Brennan BrennanC@apsu.edu
 - ◇ Dr. Robin Reed Reedr@apsu.edu
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