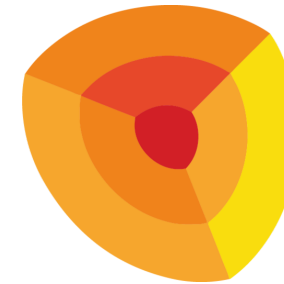




IVC



Chemical Technician focus on chemistry

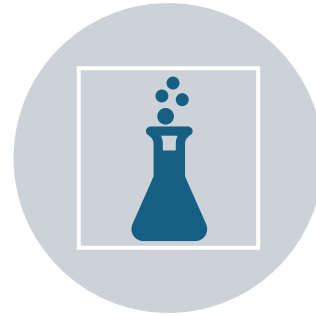


CONTROLLED
THERMAL
RESOURCES

Employer Engagement Advisory
committee



Efrain Silva, Dean of
Economic and Workforce
development



Krista Byrd, Dean of Science
Math Engineering



Jim Fisher,
Chemistry faculty



Omar Alshykhly, Chemistry
faculty



Chemical Technician Pathways for students

IVC has **two pathways** for students to become employed in a laboratory:

- 1. Chemistry AA degree, a 2-year program which are transfer-level to UCs & CSUs.
- 2. Chemical Technician program, a 1-year certificated program.

Current USA entry level trends in chemical technician's jobs are associates degrees are becoming more common than high school equivalency.

Chemical Technician, chemistry focus

Major learning goals

Broader learning goals

Overall learning goal






Key major learning goals for students:
Accuracy.

- Learn how to work in and understand the lab environment.
- Focus on procedure and details.
- Collect data from experiments.
- Know the effect of data in a report.
- Know the limitations & accuracy of each type of lab equipment.
- Matching equipment to an experiment.

Major learning goals:
Accuracy





Broader learning goals:
Use equipment and data

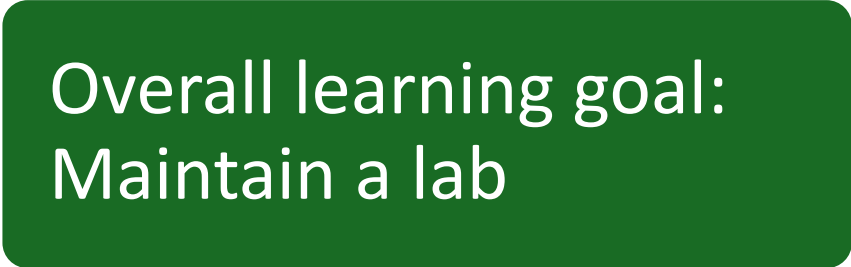
Key broader goals for students: Use equipment and process data.

- Proper use of glassware and maintaining equipment.
- Proper handling, storing, and labeling of samples, reagents and products.
- Organize experiments, collect data, and verify data.




Overall learning goals for a student:
Maintain a lab.

- To understand that a lab technician needs to maintain a lab in proper working order which means cleaning glassware, setting up experiments, performing experiments, collecting data and providing coherent and meaningful data to a supervisor.
- Confidence working with different equipment and chemicals.



Overall learning goal:
Maintain a lab





Preparing students with hand-on experiments.