Analytical Instrumentation Technology

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The Analytical Instrumentation Technology Associate of Applied Science degree program prepares graduates for entry-level careers as Analytical Instrument Technicians in the chemical and refinery industries.

What Will I Learn?

Upon successful completion of the Analytical Instrumentation Technology Degree program, graduates will be able to use analytical instruments to monitor and control environmental quality and emission monitoring as well as water and waste treatment, and to understand analytical instrument manufacturing and service.

What Can I Do with this Course of Study?

A degree in Analytical Instrumentation will expose the student to ways in which industries ensure that their products are on-spec with high-end analyzers such as gas chromatographs. Students will learn how to maintain, install, and keep analyzers running, as they are critical to a plant's operation. These types of careers can pay up to $60 per hour.

Degree and Certificates

Associate of Applied Science

Certificate of Completion

Analytical Instrumentation Technology (AAS) Degree Plan

Semester 1

- CTEC 1401 - Applied Petrochemical Technology
- TECM 1349 - Technical Math Applications
- INTC 1312 - Instrumentation and Safety
- INTC 1456 - Instrumentation Calibration
- INTC 1441 - Principles of Automatic Control

Semester 2

- ENGL $_{1301\Omega}$ - English Composition I ♦
- EPCT 1349 - Environmental Regulation Interpretation and Applications
- IEIR 1302 - Introduction to Direct Current Circuits
- ITCC 1414 - Introduction to Networks
- INTC 1348 - Analytical Instrumentation

Semester 3

- SPCH 1318 - Interpersonal Communication ♦
- CHEM $_{1405\Omega}$ - Introductory Chemistry ♦
- INTC 1374 - Analytical Instrumentation II
- INTC 2372 - Sample Systems

Semester 4

- INTC 2371 - Physical Properties Analyzers
- INTC 2445 - Advanced Analyzers #
- Creative Arts/Language, Philosophy and Culture ♦
- Social/Behavioral Science ♦

Analytical Instrumentation Technology - ATI1 Certificate of Completion

Semester 1

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- INTC 1441 - Principles of Automatic Control

Semester 2

- EPCT 1349 - Environmental Regulation Interpretation and Applications
- IEIR 1302 - Introduction to Direct Current Circuits
- ITCC 1414 - Introduction to Networks
- INTC 1348 - Analytical Instrumentation

Semester 3

- INTC 1374 - Analytical Instrumentation II
- INTC 2371 - Physical Properties Analyzers
- INTC 2372 - Sample Systems #

Students should plan to take the capstone course in their last semester and should speak with their advisor prior to registering for the final semester.

♦ Core curriculum course.

CAREERS IN
INSTRUMENTATION
My Next Move

Live Chat

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