

Technical Studies Division

Overview

The Technical Studies Division at Lee College offers hands-on training and industry-relevant education in essential fields that power modern industry. Our programs focus on preparing students for high-demand careers in areas such as petrochemical, manufacturing, power generation, and industrial automation. Students can choose from three key programs and acquire essential skills through courses in technical mathematics.

Traditional Awards

College Studies Offered



- [Analytical Instrumentation Technology](#)

This program trains students to operate, maintain, and troubleshoot sophisticated equipment used for chemical analysis and process monitoring. Emphasis is placed on real-world applications in process industries, including calibration and repair of analyzers used in the petrochemical and industrial sectors.

[Learn more about Analytical Instrumentation](#)

- **Instrumentation Technology**

Develop skills in the installation, maintenance, and repair of instrumentation systems that measure and control variables such as flow, temperature, and pressure. This program prepares students for roles in automation, process control, and systems integration.

[Explore Instrumentation Technology](#)

- **Electrical Technology**

Covers fundamentals of electrical systems, including wiring, motor controls, and electrical troubleshooting, with hands-on labs simulating real-world industrial conditions. Students gain skills necessary for careers in industrial electrical maintenance.

[Discover Electrical Technology](#)

- **Technical Math for Trades**

The technical math courses support students in the technical programs by covering algebra, geometry, and trigonometry, focusing on practical applications in electrical, instrumentation, and analytical technologies.

Student Resources

- **Specialist Advisor — Domingo Estrada**

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Domingo Estrada is the Specialist Advisor for the Technical Studies Division, providing guidance on every step of the educational journey, from application to graduation. He assists with college applications, financial aid, placement testing, and course selection.

- **ISA Membership**

Students are encouraged to join the International Society of Automation (ISA) to access industry news, standards, networking opportunities, and professional development resources. Membership supports careers in automation and process control.

- **Hands-On Training Facilities**

The division offers state-of-the-art labs featuring process control simulators, electrical motor control stations, and analyzer labs, ensuring practical training that mirrors real-world industrial settings.

- **Career Services**

The Career Services team helps students find internships and job placements, leveraging the Baytown area's proximity to numerous petrochemical plants and industrial facilities.

Why Choose Technical Studies at Lee College?

- **Industry-Relevant Curriculum**

Programs are developed in collaboration with industry experts, ensuring students acquire skills in demand in today's job market.

- **Experienced Faculty**
Instructors bring professional backgrounds and practical insights from their respective fields.
- **High Employment Rates**
Graduates of the technical programs have strong employment prospects due to the demand for skilled technicians.
- **High Pay Rates**
[Instrumentation Tech](#)
[Electrical Tech](#)
[Analyzer Tech](#)

Faculty Contacts



Wally Collins, Faculty, Instrumentation
wacollins@lee.edu | 281.425.6474 | TV1-214D

Wally brings 40 years of industry expertise to the classroom, including roles as an Analyzer/Instrument Technician, Trainer, and Downstream Coordinator at Exxon and Arco. He holds an A.A.S. in Electronics/Instrumentation from Lee College and has been a faculty member for 9 years, sharing his in-depth technical skills with instrumentation students. Wally serves as the Division Chair of Technical Studies.

Other Faculty Contacts



Edward Bauman, Faculty, Analytical Instrumentation
ebauman@lee.edu | 281.425.6543 | TV2-102A

Edward holds a B.S. in Electronics from the University of Houston and has 27 years of technical experience as an Analyzer and Electronics Technician with Exxon BOP and U.S. Steel. With 10 years on the faculty at Lee College, Edward is passionate about guiding students in the specialized field of analytical instrumentation.

Iris Gonzalez, Administrative Specialist, Technical Studies

igonza@lee.edu | 281.425.6289 | TV1-214B

Iris brings more than 23 years of experience as an administrative assistant and 12 years of dedicated service to Lee College. Her administrative expertise keeps the division running smoothly. She supports faculty members and students across electrical technology, instrumentation technology, and analytical instrumentation technology.



David Gerza, Faculty, Instrumentation/Analyzers

dgerza@lee.edu | 832.556.5211 | TV2-118B

David has amassed 37 years of experience as an Instrument/Analyzer Technician with Gulf, Chevron, and Chevron-Phillips. With multiple A.A.S. degrees in Technology, Data Processing, Instrumentation, and Electronics from Lee College, he has spent the last 6 years on the faculty, bringing a wealth of applied knowledge to students in both instrumentation and analyzers.



Sajjad Khan, Faculty, Instrumentation

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Sajjad holds an M.Sc. in Chemistry from Osmania University and has a robust 38-year background as an Instrumentation Technician and Process and Instrumentation Instructor at ARAMCO, ADNOC, and SUSLA. With one year at Lee College, he offers a global perspective on instrumentation that enriches student learning.



Davoud Khoini, Faculty, Instrumentation
dkhoini@lee.edu | 281.425.6328 | TV2-108B

Davoud holds an A.A.S. in Instrumentation from Lee College and has 17 years of experience as an Instrumentation Technician with companies like KROHNE, Petrofac, and Arkema. Now in his 8th year as a faculty member, he focuses on giving students practical, hands-on skills essential for success in the field.



Bryan Knight, Faculty, Electrical Technology
bknight@lee.edu | 281.425.6243 | TV1-214A

Bryan is a Journeyman Electrician with 21 years of field experience from Walker Engineering. With one year at Lee College, he brings a strong foundation in electrical systems, preparing students to meet the technical demands of today's electrical industry.



Richard Tunstall, Faculty, Instrumentation/Division Chair
rtunstall@lee.edu | 281.425.6472 | TV1-213A

Richard brings a dual background in education and industry, with a B.S. in Education from Baylor University and 15 years as an Instrumentation Technician and Designer at Exxon. With 33 years at Lee College, he led Technical Studies initiatives to establish a pilot plant for training, start the Process Technology program, start the Analytical Instrumentation program, and vitalize the Instrumentation Program.

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