Rhodes State
Pre-College
Summer Programs

June 9-13, 2025

Open to students entering grades 8-11

$149 per program

Check-in: 8:30-9:00 am
Check-out: 3:00-3:30 pm

Rhodes State's Pre-College Programs provide you with the opportunity to deepen your academic interests while immersed in a week of participating in industry tours, talking with industry professionals, using state-of-the art equipment, conducting labs,and interacting with college instructors.

Discovery of Where Food Comes From

Explore where your food comes from! Not only will you get to visit the farms and factories that grow and process your favorite foods, but you'll experience making that food entirely from scratch using farm-fresh raw ingredients. Along the way, we'll discover the technology that makes American agriculture the most efficient it can be!

Industrial STEM

Dive into computer-aided design (CAD). Learn how Programmable Logic Controllers (PLCs) work to control advanced manufacturing systems. Get hands-on experience operating cutting-edge robots in our state-of-the-art labs and using the industry-leading Stratasys F Series 3D printer. Gain the in-demand skills that local and regional employers are seeking while exploring exciting career opportunities in high-tech fields. With a growing shortage of skilled workers in these trades, you'll be prepar-ing for a bright future. Plus, tour local manufacturing facilities to see CAD, PLCs, robotics, and additive manufacturing in action.

Industrial Automation

Build essential practical skills, troubleshoot, and repair industrial automation systems. Key topics include print reading, machine troubleshooting, industrial circuit wiring, component sizing, motor starters, industrial sensors, variable frequency drives, and an introduction to programmable logic controllers. Enhance understandingof manufacturing equipment and assess interest in a career inautomation, offering valuable experience for future employment andpotentially inspiring further education in the field.

Applying Artificial Intelligence Apps

As artificial intelligence becomes more common, we have many opportunities to use it, but we don't get many useful guidelines on how to use it effectively. These tools are powerful, but can get misleading or erroneous when not used correctly. Complete projects to learn how to use some common AI applications including generative AI, large language models, computer vision, and autonomous vehicles. We will also explore the many ways AI systems are deployed in industries and businesses.

Surg Tech

Discover the ins and outs of becoming a surgical technologist. Throughout the week, you'll learn the essential skills like how to do asurgical scrub, gown up, and glove up, as well as how to prepare andpass surgical instruments. You'll also get to gather and label specimens, watch a surgical procedure video, and apply sterile dressingsto surgical wounds. And to top it all off, we'll wrap up the week with afield trip to a local facility to explore the fascinating world of roboticsurgery and their sterile processing system.

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