

At davis school district and morgan county district high schools

# Get technical about an automation and robotics career

Learn the skills you need for a manufacturing career while you earn up to 30 credit hours towards degrees at Weber State University, Utah State University or LDS Business College — all before you graduate from high school. Also, **tuition is free** while you are in high school.

Monday - Friday 6:30-7:15 AM or 2:30 - 3:15 PM

> For more information contact: stacy.hatch@davistech.edu or 801-593-2433

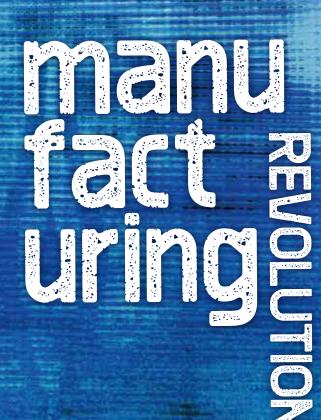
UTA FREE UTA transit pass available to all Davis Tech students

#### LOCAL EMPLOYERS THAT HIRE FOR AUTOMATION AND ROBOTICS



DAVISTECHNICAL COLLEGE

550 East 300 South | Kaysville, UT 84037 801.593.2500 | davistech.edu



# AUTOMATION AND ROBOTICS







# AUTOMATION AND ROBOTICS COURSES AND PATHWAYS

0 hours

60 hours

90 hours

30 hours 90 hours

30 hours

90 hours

30 hours

60 hours

30 hours

60 hours 60 hours

30 hours

30 hours

90 hours

60 hours

90 hours

90 hours

90 hours

30 hours

90 hours 90 hours 30 hours

120 hours 60 hours

120 hours

#### NECESSARY CORE COURSES -HIGH SCHOOL CAMPUS

| Monday - Friday; 6:30-7:15 AM or 2:30 - 3:15 PM               |           |
|---|-----------|
| IAMT 1100 - Industrial Safety and Workplace Relations         | 30 hours  |
| IAMT 1200 - Automation Maintenance Basics                     | 60 hours  |
| IAMT 1000 - Electronic Fundamentals for Industrial Automation | 120 hours |
| IAMT 1450 - Fluid Power Pneumatics                            | 60 hours  |
| IAMT 1600 - Electrical Motor Controls                         | 120 hours |
| IAMT 1750 - Automatic Controls Troubleshooting                | 60 hours  |
| IAMT 2000 - Programmable Logic Controllers I                  | 90 hours  |
|   |           |

#### DAVIS TECH CAMPUS

IAMT 0000 - Automation and Robotics Orientation IAMT 1250 - Fluid Power Hydraulics IAMT 1301 - Industrial Mechanics

180 Hours from any of the elective courses below HIGH SCHOOL CAMPUS

Monday - Friday; 6:30-7:15 AM or 2:30 - 3:15 PM

| IAMT 1500 – Electric Motors/Drives                     |
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| IAMT 1850 - Electrical Equipment Basics                |
| IAMT 2010 – Human Machine Interface (HMI) Programming  |
| IAMT 2115 – Vision Systems Basics                      |
| IAMT 2025 - Industrial Robotics                        |
| IAMT 2026 - UAV/Drone Technology                       |
| IAMT 2030 - Semiconductor Devices                      |
| IAMT 2305 - Microcontroller/Microprocessor Programming |
| IAMT 2400 - Electronics Assembly and Soldering         |
| IAMT 2915 – Final Project                              |

## DAVIS TECH CAMPUS

| IAMT 1005 – Renewable Energy                                 |
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| IAMT 1105 – Building Automation                              |
| IAMT 1150 - Lean Manufacturing (Six Sigma)                   |
| IAMT 1601 – Plumbing for Automation Technology               |
| IAMT 1901 – HVAC Refrigeration                               |
| IAMT 2015 – Fiber Optic Technician Certification Preparation |
| IAMT 2050 – Programmable Logic Controllers II                |
| IAMT 2060 – Controls Integration                             |
| IAMT 2070 – Building Control Panels                          |
| IAMT 2105 – FANUC IR Vision Systems                          |
| IAMT 2200 – Instrumentation - Process Control                |
| IAMT 2250 – Process Technology Equip and System Operators    |
| WKSK 1500 - Job Seeking Skills                               |

### \_\_\_\_STREAMLINE YOUR FUTURE

Start your career in Automation and Robotics right at your high school by participating in the Manufacturing Pathways Program in partnership with Davis Tech.

#### HERE'S HOW TO START:

- 1. Speak with your high school's CTE Coordinator.
- 2. Enroll in the Automation and Robotics program.
- 3. Take required Automation and Robotic courses at high school (starting fall ).
- 4. Complete the required classes at Davis Tech. (Free UTA passes are available)
- 5. Take 180 hours of elective courses either at your high school or on Davis Tech campus.
- **6.** Receive your certificate of completion from Davis Tech during or shortly after you graduate from high school.
- 7. Start working in your career, transfer to a four year college, or both!

# CERTIFICATE



- Electrical and Electronics
- Repairers, Commercial and Industrial Equipment
- Industrial Machinery Mechanic
- Maintenance and Repair Workers, General
- Robotics Technician
- Electrical and Electronic Engineering Technician
- Engineering Technician

Once you've completed the Automation and Robotics Program, you're prepared for a career that can help you pay for a college degree. Then that degree can help you move to a higher position in the industry.