

Industrial Automation & Maintenance



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Studies in the Industrial Automation and Maintenance program focus on the installation, repair, and maintenance of the electronic and mechanical equipment used to control manufacturing and power generation processes. Programmable controllers, industrial controls, hydraulics/pneumatics, mechanical systems and robotic systems integration are emphasized.

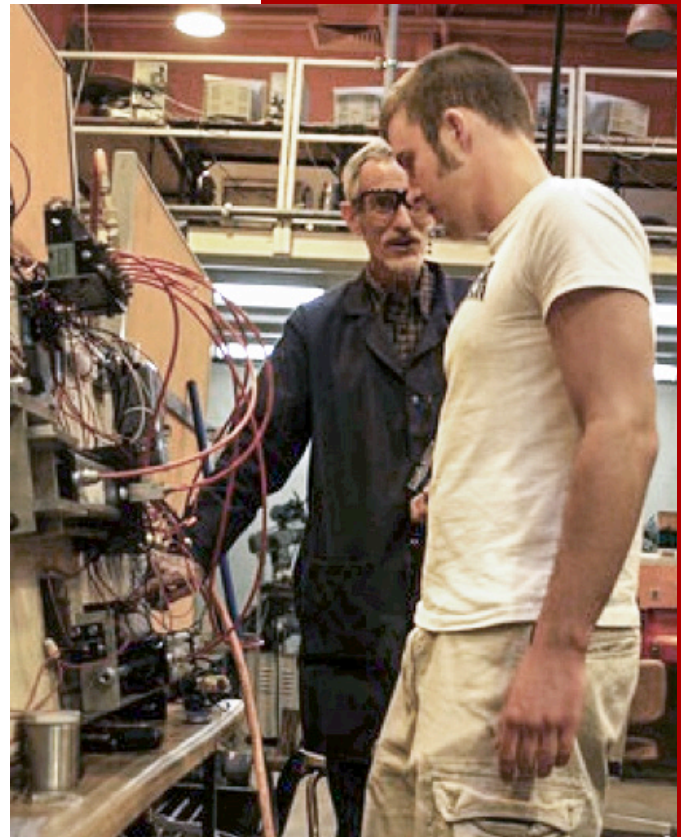
The program offers hands-on learning laboratory opportunities in all of the technical courses. Technical courses are taught just four days a week (Mondays through Thursdays).

Students can earn an associate's degree in Industrial Automation and Maintenance in just two years from Rio Grande.

Graduates of the program will be able to work in a wide range of industrial facilities in the region and around the country. Rio Grande's Industrial Automation and Maintenance graduates work for area companies and organizations such as Diamond Electric in West Virginia, Paccar(Kenworth) in Chillicothe, Toyota Motor Manufacturing in West Virginia, Electrocraft in Gallipolis, GKN Sintered Metals of Gallipolis, American Electric power plants and the Kyger Creek power plant.

Graduation requires the student to achieve a 2.00 overall grade point average in all ELE and MFG courses and a 2.00 overall grade point average in all coursework.

Note: This degree is a direct pathway to a Bachelor of Science Degree in Industrial Technology.



Industrial Automation & Maintenance

Curriculum

First Year

Fall

| | |
|-----------|-------------------------------|
| ELE 10103 | Basic Electricity/Electronics |
| MFG 11102 | Blueprint Reading |
| MFG 14103 | Schematic Diagram |
| MFG 27102 | OSHA |
| ELE 25003 | Industrial Controls |
| MFG 16102 | Hydraulics & Pneumatics |
| MFG 25403 | Mechanical Skills |
| 18 hrs | |

Spring

| | |
|-----------|------------------------------|
| ELE 21103 | Programmable Controllers I |
| MFG 26102 | Adv. Hydraulics & Pneumatics |
| MFG 25103 | Power Transmission Devices |
| ELE 21203 | Programmable Controllers II |
| MFG 24302 | Ele. Troubleshooting & Rep |
| ELE 27003 | Robotics |
| MFG 25302 | Preventive MNT & Planning |
| 18 hrs | |

Second Year

Fall

| | |
|-------------|----------------------------------|
| IT 10103 | Intro. to Information Technology |
| ENG 11103 | Composition I* |
| LA 10001 | Gateway to Success |
| TEC 11704 | Technical Math I* |
| HIS 3 Hours | History Course |
| 14 hrs | |

Spring

| | |
|-----------|------------------------|
| HPE 24302 | Safety & First Aid |
| COM 11103 | Fundamentals of Speech |
| ENG 21403 | Business Tech Writing |
| TEC 11804 | Technical Math II |
| PSY 11103 | General Psychology |
| 15 hrs | |

TOTAL HOURS 65

* Placement determined by testing

Contacts:

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