

2025-2026

## Associate in Science in Industrial Robotics Technician

Complete the following program of study (Major C.8394.AS). Major requirements (18 units minimum).

The Industrial Robotics Technician Associate in Science degree prepares students for entry-level roles as industrial automation technicians with a focus on robotics. This program offers comprehensive training in designing, operating, and maintaining robotic systems used in industries such as manufacturing, food production, and logistics. Students will gain a foundation in robotics, including safety procedures, effective robot operation, program creation, management, and troubleshooting. The curriculum also covers interfacing robots with PLCs and Ethernet networks for system integration. The program emphasizes hands-on learning through project-based assignments and laboratory work, enabling students to apply their knowledge in practical settings.

**Name:** \_\_\_\_\_ **Student ID:** \_\_\_\_\_ **Date:** \_\_\_\_\_

### Course Overview and Selection

Required Core Course (17 units):

| Course        | Course Description                    | Units    | Completed | In Progress | Planned |
|---------------|---------------------------------------|----------|-----------|-------------|---------|
| <b>ARM 3</b>  | Electricity and Electronics (AC & DC) | <b>4</b> |           |             |         |
| <b>ARM 5</b>  | Programmable Logic Controllers (PLCs) | <b>3</b> |           |             |         |
| <b>ARM 35</b> | Industrial Communications Networks    | <b>3</b> |           |             |         |
| <b>ARM 45</b> | Industrial Automation Systems         | <b>3</b> |           |             |         |
| <b>ARM 51</b> | Introduction to Industrial Robotics   | <b>2</b> |           |             |         |
| <b>ARM 52</b> | Industrial Robotics Systems           | <b>2</b> |           |             |         |

Select one option from the following (1 unit or one course):

| Course         | Course Description                                            | Units    | Completed | In Progress | Planned |
|----------------|---------------------------------------------------------------|----------|-----------|-------------|---------|
| <b>ARM 2</b>   | Mechanical Systems                                            | <b>3</b> |           |             |         |
| <b>ARM 4</b>   | Electric Motors Controls                                      | <b>4</b> |           |             |         |
| <b>ARM 19</b>  | Work Experience Education, Mechatronics/Industrial Automation | <b>1</b> |           |             |         |
| <b>CSCI 40</b> | Programming Concepts and Methodology I                        | <b>4</b> |           |             |         |
| <b>ENGR 2</b>  | Engineering Graphics                                          | <b>4</b> |           |             |         |
| <b>ENGR 40</b> | Programming for Scientists and Engineers                      | <b>4</b> |           |             |         |

### Total Units Required: 60

Choose either option 1 or 2 for the General Education pattern related to your educational goal.

1. Clovis Community College's General Education and Graduation Requirements for the Associate Degree.
2. CAL-GETC - minimum units necessary to meet the CAL-GETC Certification Requirements.

For ALL OPTIONS (1 or 2):

- Complete 18-21 units as listed above.
- Electives may be necessary to total 60-degree applicable units required for the Associate degree.