



# Program Map



## Mechanical and Instrumentation Automation - Certificate of Achievement

*Area of Study: Advanced Manufacturing and Mechanical*

Mechatronics Technology is a growing technical field that deals with the integration of mechanical and electronic components managed by a control system. Our program emphasizes current concepts and technology by providing practical, hands-on experience with the latest industry standard equipment. Course work includes process control systems, instrumentation/automation systems, conveyor Systems, palletizer systems, and robotics systems.

> Free [Tutoring Services](#) are available to support you throughout your degree completion.

*Program maps are suggested academic plans and should not be used in the place of regular academic advising. Your student entry method, placement, course availability, and program requirements are subject to change and transfer credit(s) may change your map/plan.*

### Year One

#### Summer Term

- MTX 100 Industrial Safety ..... 1
- MTX 103 Basic Measurement Tools ..... 2

#### Fall Term

- MTX 101 DC Fundamentals ..... 3
- MTX 106 Fluid Power Systems ..... 4
- MTX 180 Mechanical Systems ..... 5

#### Winter Term

- MTX 102 AC Fundamentals ..... 4
- MTX 130 Programmable Logic Controllers 1 OR MTX 132  
Siemens PLC LVL I ..... 4

#### Spring Term

- MTX 110 Electric Motor Control 1 ..... 4
- MTX 140 Robotic Systems ..... 4

**41 units required.** [View the Clark College Catalog](#) for additional program information.

**Key** ^ Alternative classes are available to fit your schedule or interest. & Common Course in the State of Washington

### Approximate Costs Each Term

Tuition \$1,490\* for 15 credits per term plus books, supplies, and miscellaneous fees. \*Tuition based on Washington resident rates. View [residency classifications](#) on our website.

### Customize with Advising

Make an appointment online with Advising Services to learn more about customizing your academic plan at [clark.edu/advising](http://clark.edu/advising).

### How to Enroll

Visit Clark College’s Welcome Center in Gaiser Hall room 127 or the [Get Started webpage](#) for information on becoming a new student. Email [start@clark.edu](mailto:start@clark.edu) or call 360-992-2078.

[Apply for Admission](#)

## Support Services

At Clark College, we know that everyone who walks through our doors is a unique person with diverse, interesting and sometimes challenging circumstances. We are committed to ensuring each and every student can succeed at Clark, and are committed to serving systemically non-dominant communities, including (but not limited to) people of color, those who identify as LGBTQIA2S+ and people with disabilities. We have resource centers, clubs, programs and activities for all students.

Visit our [Student Support](#) page for more information.

## Funding Options at Clark

There are many resources available to help students cover the costs to attend college—tuition, books, fees, tools, transportation, childcare, etc.—so you can focus on completing your degree or certificate.

**Grants** Based on need. You do not need to pay back grants.

**Scholarships** Similar to grants, and there are different criteria; Clark College awards hundreds of thousands of dollars to students each year. We encourage everyone to apply!

**Student Employment & Work Study** Money you earn through working part-time; this helps to reduce your reliance on loans, and build your skills and resume.

**Loans** If you do need to borrow additional funds to pay for college-related expenses, you can consider loans. It is money you borrow and will pay back with interest.

**Specific Assistance** For Veterans, worker retraining, DREAMers, students receiving DSHS benefits, and more.

For more information, visit our [paying for college website](#) or visit the **Office of Financial Aid in Gaiser Hall room 101**.

## Career Opportunities

Career exploration and planning is an essential step to establishing your academic journey at Clark College and beyond. Career Services connects you with resources and strategies for career planning in six areas: knowing self; career awareness; relationship building and networking; work-based learning; job-search skills; and career readiness competencies. You are encouraged to participate in *MyPlan*, a comprehensive and interactive guide with activities to support your career, academic, and financial wellness planning. Visit [Career Services](#) in the **Penguin Union Building room 002**.

Students working towards the **Mechanical and Instrumentation Automation Certificate of Achievement** could be employed as: *Some careers may require an associates or bachelor's degree or higher*

### Mechanical Engineering Technicians

Career exploration information created by Clark Faculty and Staff.



*Clark College does not discriminate on the basis of race, color, national origin, age, perceived or actual physical or mental disability, pregnancy, genetic information, sex, sexual orientation, gender identity, marital status, creed, religion, honorably discharged veteran or military status, or use of a trained guide dog or service animal in its programs and activities, in accordance with state and federal laws. The responsibility for and the protection of this commitment extends to students, faculty, administration, staff, contractors and those who develop or participate in college programs. It encompasses every aspect of employment and every student and community activity. The following person has been designated to handle inquiries regarding non-discrimination policies: Vice President of Diversity, Equity, and Inclusion, Gaiser Hall (GHL) 220, 360-992-2757, or 360-991-0901 (video phone).*

*Alternate format of this document is available upon request. Please contact Disability Support Services at 360-992-2314, or 360-991-0901 (video phone).*

**Created in March 2020, last updated in March 2021.**