

## AUTOMOTIVE TECHNOLOGY

### Automotive Basic Technician Pathway Certificate

#### PROGRAM DESCRIPTION

The Automotive Basic Technician Certificate program is committed to providing students with a wide range of knowledge and skills applicable to entry-level jobs as an automotive technician not requiring all certification areas.

The mission of the UCC Automotive department is to provide quality education and hands-on training to prepare students for a successful career in Automotive Technology as certified technicians.

#### PROGRAM OUTCOMES

Students who successfully complete the Automotive Basic Technician Pathway Certificate will:

1. Apply fundamentals of automotive service training, including the basics of automotive diagnostics and repair, pre-delivery inspection and warranty repair procedures
2. Identify, inspect, disassemble and assemble basic components of automotive power plants
3. Apply knowledge of the function, construction, operation, troubleshooting and service of disc, drum and ABS brake systems
4. Apply knowledge of electrical principles, semi-conductors, microprocessors and wiring diagrams to diagnose and repair malfunctions of automotive electrical systems
5. Apply knowledge of the function, construction, operation, troubleshooting and service of front and rear wheel drive manual and automatic transmissions and transaxles

#### PROGRAM COURSE REQUIREMENTS

##### Year One

AUT 100	Orientation to Automotive Technology	1
AUT 151	Internal Combustion Engines	6
AUT 155	Automotive Brakes	6
AUT 161	Power Trains	5
AUT 168	Automotive Electricity I	5
AUT 169	Automotive Electricity II	5
AUT 170	Automotive Electricity III	5

**Total Credits 33**

Consult a T-TEN program advisor for course schedules and course pre-requirements.

Automotive courses are offered in four to six week modules.

#### PROGRAM ENTRANCE REQUIREMENTS

##### Academic Entrance Requirement

- Accepted application for the Automotive program
- Minimum GPA in automotive courses shall be 2.0.
- A basic tool set is required of all entering students. The list of tool requirements is available thru the automotive department.

## AUTOMOTIVE TECHNOLOGY

### Automotive Advanced Technician Pathway Certificate

#### PROGRAM DESCRIPTION

The Automotive Advanced Technician Certificate program is committed to providing students with a wide range of knowledge and skills applicable to entry-level jobs as an automotive technician not requiring an associate degree.

The mission of the UCC Automotive department is to provide quality education and hands-on training to prepare students for a successful career in Automotive Technology as certified technicians.

#### PROGRAM OUTCOMES

Students who successfully complete the Automotive Advanced Technician Pathway Certificate will:

1. Apply knowledge of the function, construction, operation, troubleshooting and service of steering, suspension, and wheel alignment
2. Use electronic engine analyzers and scanners to test and tune ignition, fuel injection, and emission systems
3. Apply fundamentals of automotive service training, including the basics of automotive diagnostics and repair, pre-delivery inspection and warranty repair procedures
4. Identify, inspect, disassemble and assemble basic components of automotive power plants
5. Apply knowledge of the function, construction, operation, troubleshooting and service of front and rear wheel drive automatic transmissions and transaxles
6. Test, service, and repair automotive HVAC systems

#### PROGRAM COURSE REQUIREMENTS

##### Year One

AUT 250	Suspension and Alignment	5
AUT 259	Electronic Engine Controls I	5
AUT 260	Electronic Engine Controls II	5
AUT 263	Automatic Transmissions	6
AUT 286 <sup>1</sup>	Climate Control Systems	5
AUT 289	Electronic Engine Controls III	5

**Total Credits 31**

Consult an automotive program advisor for course schedules and course pre-requirements.

<sup>1</sup> Prior to taking AUT 286 (Climate Control systems) an Air Conditioning Certificate is required from one of the following organizations:

- ASE (Refrigerant recovery and recycling certification test)
- Mobile Air Conditioning Society International Mobile Air Conditioning Association

Automotive courses are offered in four to six week modules.

#### PROGRAM ENTRANCE REQUIREMENTS

##### Academic Entrance Requirement

- Minimum GPA in automotive courses shall be 2.0.
- Successful completion of Automotive Basic Technician Certificate
- A basic tool set is required of all entering students. The list of tool requirements is available thru the automotive department.

# Automotive Department at UCC

Thank you for your interest in studying at Umpqua Community College.

To help you be as successful as possible in your college experience, we have put together helpful contact information, some next steps, a basic orientation, and other reference materials.

Since you are interested in the **Automotive program**, your faculty advisor contact is:

## **John Blakely**

Associate Professor, Automotive Program  
541-440-7782 | [John.Blakely@umpqua.edu](mailto:John.Blakely@umpqua.edu)

## NEXT STEPS

1. If you have never attended UCC, you can [apply online](#) now.
2. You can start your [FAFSA application](#).
3. Take applicable [placement tests](#) and attend [orientation](#).
4. Log in to your [student self service portal](#) and [student email](#).

Don't forget! You can do all the items together. You don't have to wait until you finish one before you do the other.

## A BASIC ORIENTATION

All offices below are located in the [LaVerne Murphy Student Center](#).

### [Advising Office](#)

Developing a class plan.

### [Enrollment Office](#)

Becoming a student.

### [Financial Aid Office](#)

Getting grants, work study opportunities, student job placement, and loans, if necessary.

### [Scholarship Office](#)

Getting a scholarship.

### [Help Desk](#)

Getting technical help with college systems like student self service and student email.

## BUT WAIT! THERE'S MORE!

Download these files for quick reference.

[Getting Started Checklist](#)

[Financial Aid Process](#)

