AUTOMOTIVE TECHNOLOGY

ASSOCIATE OF APPLIED SCIENCE: AUTOMOTIVE SERVICE TECHNOLOGY – 93 CREDITS

CAREER DESCRIPTION

The Automotive Program is designed to provide basic skills and technical knowledge required to achieve an entry-level position as an Automotive Technician. Courses offered may be transferred to other community colleges and four-year schools. A basic tool set is required of all entering students and a list of those required tools are available from the automotive instructors. UCC offers Automotive Certificates and AAS options.

Minimum GPA in automotive classes shall be 2.00. For current program requirements, you are strongly urged to consult with a member of the automotive staff or an advisor.

Automotive courses are offered in four- to six-week modules. Check the class schedule to determine the sequence of courses and the order in which they will be taught each year.

The UCC Automotive program is accredited by the National Automotive Technical Education Foundation.

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

NOTE: Students may be able to attend different courses (tracks) through FIRST YEAR Automotive classes — see your automotive instructors/advisors for track advising.

PROGRAM OUTCOMES

The technical knowledge required to achieve an entry-level position as an Automotive Technician to meet current industry standards require courses that enhance critical problem solving and advance practical diagnostic skills.

Students who successfully complete the Associate of Applied Science degree in Automotive Service Technology will:

1. Apply fundamentals of automotive service training, including the basics of automotive diagnostics and repair, pre-delivery inspection and warranty repair procedure
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, steering, suspension and wheel alignment
4. Use electronic engine analyzers and scanners to test and tune ignition, fuel injection, and emission systems
5. Apply knowledge of electrical principles, semi-conductors, microprocessors and wiring diagrams to diagnose and repair malfunctions of automotive electrical systems
6. Apply knowledge of the function, construction, operation, troubleshooting and service of front and rear wheel drive manual and automatic transmissions and transaxles
7. Test. service and repair heating and air-conditioning systems

APPLICATION & ACCEPTANCE

Program Admission Process

The Automotive AAS program have limited enrollment — applications are due by August 24, 2017 for the general program. Applicants must successfully complete the admission application form and process and must meet program requirements described below. Admission to the program will be based on accepted application to the program and then on a first-come, first-served basis as space allows. (Applications submitted after August 23, 2018 for the general program may be considered on a space-available basis.)

Entry Requirements

1. Prerequisites: program applicants must have completed MTH 010, RD 080, and WR 090 with a grade of C or better-equivalent math, reading or writing courses and/or placement scores may be accepted with department approval.
2. Drug screening: program applications must have successfully passed a drug screening test, and may be subject to a random drug screening test. UCC's Automotive Department will designate which company will conduct the drug screen testing.
3. In accordance with industry standards, the Automotive Program maintains a no-tolerance policy regarding substance abuse, as outlined in UCC's Student Code of Conduct, 721.3.
4. Automotive Program orientation: attend the orientation session as scheduled. A screening interview may be required.
5. Students in the Automotive program may be required to enroll in other classes or participate in supplementary activities to increase their success.
6. Students must be in the Automotive program to enroll in any of the Automotive program courses, or have special permission from the Automotive Department.

The Automotive Program courses, policies and graduation requirements are under constant review and subject to change. (Contact the department for details, or see updates at www.umpqua.edu/Automotive.)

APPROVED ELECTIVES

Electives for the program are offered F, W, S, Su.
See program advisor or automotive staff.

ASSOCIATE OF APPLIED SCIENCE — Automotive Service Technology

93 Credits — Recommended Sequence for Students (Students should see an advisor to customize their educational plan.)

YEAR ONE

Fall	Orientation to Automotive Technology AUT 100 1 CR	Automotive Brakes AUT 155 6 CR	Power Trains AUT 161 5 CR	Intro to Algebra for the Trades MTH 052 (OR HIGHER) 4 CR Based on placement test scores. Reading as needed	CREDITS 16
Winter	Internal Combustion Engines AUT 151 6 CR	Automotive Electricity I AUT 168 5 CR	Introduction to Windows and PC's CIS 100 3 CR		CREDITS 14
Spring	Automotive Electricity II AUT 169 5 CR	Automotive Electricity III AUT 170 5 CR	Introduction to Expository Writing (OR HIGHER) WR 115 4 CR		CREDITS 14

YEAR TWO

Fall	Electronic Engine Controls I AUT 259 5 CR	Electronic Engine Controls II AUT 260 5 CR	Psychology of Human Relations PSY 101 3 CR		CREDITS 13
Winter	Electronic Engine Controls III AUT 289 5 CR	Automatic Transmissions AUT 263 6 CR	Welding Processes and Applications WLD 101 4 CR		CREDITS 15
Spring	Climate Control Systems AUT 286 5 CR	Suspension and Alignment AUT 250 5 CR	First Aid HE 252 3 CR *OR* Wellness & Health Assessment HPE 295 3 CR		CREDITS 13

* CWE/Electives
(100 level or higher) 8 CR
May be taken over several terms.
Must total 8 CR

NOTES

Students may be able to attend different courses (tracks) through FIRST YEAR Automotive classes — see your automotive instructors/advisors for track advising.

Please see an advisor for a degree planning worksheet for this program.