CTE@KCC

Klamath Community College
7390 South 6th Street
Klamath Falls, OR 97603
www.klamathcc.edu
1-541-882-3521

AUTOMOTIVE TECHNOLOGY
Associate of Applied Science Degree

Do you want to become an automotive service and repair technician?

The Automotive Technology Program emphasizes technical training and development of skills through the study of the various systems of the automobile. Students in the degree program must attend full time (12 credits per term). The program contains collegiate level general education coursework in math and writing. To help you work effectively with people, the program also includes written and oral communications classes and general education electives. The curriculum emphasizes related scientific, mathematical, and general mechanical principles.

Purpose

To prepare the graduate for employment as an Automotive Service Technician working at company-owned repair stations, fleets, independent garages, gas stations, or new car dealerships.

Core outcomes of the AAS in Automotive Technology are:

Upon successful completion of the program graduates will have utilized automotive service resources which include on campus labs and off campus cooperative work experience. Graduates will be proficient in the use of computers, the internet and print material to access and research topics related to automotive service and repair learning activities. Graduates will be able to perform computations for gear ratios, engine displacement, electrical circuits, power output, vehicle alignment angles, as well as conversion between metric and US standard measurement systems. Students will become skilled in the proper use of precision measuring tools. They will be able to effectively diagnose and repair vehicles using advanced diagnostic tools and equipment as well as understand and apply industry safety standards. Students will also successfully complete ASE Certification tests.

Employment Trends

Available employment statistics point out that skilled Automotive Technicians are in short supply not only in our region and state but nationally as well. Oregon Employment Department statistics indicate that in 2006, 6728 persons were employed as Automotive Service Technicians in the state of Oregon (86 of these jobs were within Klamath and Lake Counties).

These statistics indicate that by 2016 the number of positions for qualified automotive technicians will grow by as much as 8% and the 10 year growth projections point to even higher percentages with state wide growth in this field at 15.6% and nationally at 18.7%. Automotive technician positions are classified by the state of Oregon as High Skill/High Demand jobs with pay in the $10 to $25 per hour range. Many technicians achieve even higher wages through aggressive commission programs which are common in the industry. Sufficient opportunities exist for persons who wish to pursue a career in automotive technology and these opportunities will continue to expand well into the next decade.

Program Costs	
Tuition/95 credits	$6460.00
Course Fees	$3500.00
Student Fees	$1175.00
Tools	$4500.00
Books	$1000.00
Uniforms	$200.00
Total Program Cost*	$16835.00

*Total Program Cost is an estimate of all tuition, program fees, student fees, student tools, student uniforms and student books required for completion of the AAS Automotive Technology Program. Additional developmental education may be required for some students. Tuition and fees for developmental education are not included in this estimate. Tuition and fees listed here are only estimates and may change at any time.

Automotive Technology Program Instructor:
Brian A. Williams
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Getting Started

The Automotive Technology AAS degree program has special admission requirements and enrollment limits. The first step to entering this program is to take the college's free placement test and meet with KCC Student Services staff. Placement tests can be scheduled by calling the KCC Learning Resources Center at 541.880.2206. There are entry-level expectations for skill levels in reading, writing, and mathematics. If you have questions about the requirements, call KCC Student Services at 541-882.3521 or 541.880.2297. Failure to complete the placement test will delay your entry into the Automotive Technology Program

For admission to the program, an application is required. This is a separate step from the testing and assessment steps. Automotive Technology Program Application packets are available from KCC Student Services, Admissions, and the Automotive program staff office in the KCC Career Technical Center. Enrollment in this programs is limited, and there is an early deadline for applications. Applications must be returned to KCC before the published application deadlines. Applications must be complete and include the $25 application fee. Applications will be scored and applicants will be notified whether the application is accepted or declined. All accepted applicants must attend the Automotive Technology Orientation as a prerequisite to beginning the program. We recommend that you contact KCC Student Services at 541.882.3521, or the Director of Career technical Education at 541.880.2215 for details if you are considering the Automotive Technology AAS degree. To enroll, you must have a high school diploma or GED certificate.

Course of Study

The AAS Automotive Technology Program design provides students with the skills they need by clearly identifying the learner outcomes that are developed through Oregon skill sets and national certification requirements. Students will receive preparation for certification in eight areas of Automotive Service Excellence. These areas are brakes, electronics systems, engine performance, suspension and steering, automatic and manual transmission and transaxle, engine repair, and heating and air conditioning. Class instruction will incorporate employability skills such as proper professional attire, customer and team relations and safe work practices. The instruction will place the student in a learning community that will provide them the experiences to achieve academic, technical and career related skills.

Program Requirements

Complete a minimum of 95 credit hours. No more than 108 credit hours may be applied to the degree. These must include the following:

First Year Technical Core Requirements

Course No.	Course Title	Credits
First Term		
AMT101	Workplace Skills Training	4
AMT110	Automotive Electrical/Electronic Systems	8
		12
Second Term		
AMT115	Automotive HVAC Systems	5
AMT130	Automotive Engine Theory & Service	6
		11
Third Term		
AMT141	Automotive Engine Performance I	6
AMT143	Automotive Fuel Delivery Systems I	6
		12
Fourth Term		
AMT145	Automotive Fuel Delivery Systems II	6
AMT186	Automotive Practicum I	2
		8
TOTAL FIRST YEAR TECHNICAL CORE CREDITS		**43**

Second Year Technical Core Requirements

Course No.	Course Title	Credits
Fifth Term		
AMT250	Manual Drive Train & Axles	6
AMT260	Automatic Transmission & Transaxles	6
		12
Sixth Term		
AMT270	Automotive Steering, Suspension & Alignment	5
AMT275	Automotive Brake Systems	5
		10
Seventh Term		
AMT285	Automotive Practicum Seminar	1
AMT286	Automotive Practicum II	6
		7
TOTAL SECOND YEAR TECHNICAL CORE CREDITS		**29**

Required Related instruction

Course No.	Course Title	Credits
HEA125	First Aid & Industrial Safety	3
CGS100	College Survival and Success	3
CIS 120	Computer Concepts 1 or	4
BUS131	Intro to Computer Applications	4
SPE111	Fundamentals of Speech	3
MTH070	Elementary Algebra	4
WRI121	English Composition I	3
PSY101	Psychology and human Relations or	3
BUS285	Human Relations in Organizations	4
TOTAL RELATED INSTRUCTION CREDITS		**23**