

AUTOMOTIVE SERVICE TECHNOLOGY

pcc.edu/programs/auto-service/

CAREER AND PROGRAM DESCRIPTION

The automotive service technician maintains, diagnoses and repairs mechanical, hydraulic, fuel and electrical systems on modern automobiles and light-duty trucks. Automotive Service Technology graduates find jobs in independent repair shops, dealerships and fleet maintenance facilities. Some start their own businesses.

The PCC Automotive Service Technology Department provides flexible, career-oriented automotive repair education and training in an authentic and diverse environment. As a PCC Automotive student, you may prepare for any segment of the repair industry, including dealerships, fleets and independent repair shops. Partnerships between PCC and automotive repair businesses will allow you to learn in the classroom and on the job.

Students may select a certificate or degree program that meets their needs. The program consists of instructional modules of seventeen days, each module being an intensive course in a specialized area. At the completion of each module, students are assessed according to their success in meeting course outcomes. The automotive modules consist of lecture and hands-on laboratory work. Students will have additional costs for tools and equipment.

PCC Automotive provides comprehensive training to technicians already working in the field. See the Automotive Department chairperson to develop a personalized training plan.

DEGREES AND CERTIFICATES OFFERED

ASSOCIATE OF APPLIED SCIENCE DEGREE

Automotive Service Technology

TWO-YEAR CERTIFICATE

Automotive Service Technology

Academic Prerequisites

- Applicants must take the placement test administered through test centers located at each campus.
- To begin the program, students must place into IRW 90 or (RD 90 and WR 90) or (ESOL 260 , ESOL 262 , and ESOL 264) and into MTH 58 or MTH 60 or higher-level math class.
- Students who place below MTH 58 or MTH 60 must successfully complete MTH 20 and be ready for MTH 58 or MTH 60 before registering for the automotive program.

Academic Requirements

- Students must complete each AM course with a "C" or "P" or higher in order to earn the degree or certificate.

Non-Academic Prerequisites

- The Automotive Service Technology program accepts new students three times a year. New students must contact the PCC automotive department for advising and registration.

Non-Academic Requirements

- None

AUTOMOTIVE SERVICE TECHNOLOGY AAS DEGREE

Minimum 93 credits. Students must also meet Associate Degree Comprehensive Requirements and Associate of Applied Science Requirements. Students must complete a total of four courses of General Education. In addition to required courses in the program of

study, students must satisfy MTH 58/65 competency. Students should consult with program advisors for course planning.

Course of Study

The coursework listed below is required. The following is an example of a term-by-term breakdown.

First Term		Credits
AM 100	Intro to Automotive Systems	4
AM 161	Electrical Systems I	4
AM 162	Electrical Systems II	4
CG 209	Job Finding Skills	1
General Education: 1 course		3
Second Term		
AM 151	Brakes	4
AM 141	Suspension and Steering	4
AM 142	Advanced Suspension, Steering and Brakes	4
General Education: 1 course		
Third Term		
AM 111	Engine Repair	4
AM 163	Advanced Electrical/Electronic Systems	4
AM 171	Heating & Air Conditioning Systems	4
General Education: 1 course		
Fourth Term		
AM 181	Engine Performance I	4
AM 182	Engine Performance II	4
AM 183	Engine Performance III	4
Automotive Service Technology Elective		4
General Education: 1 course		
Fifth Term		
AM 121	Automatic Transmission/Transaxle	4
AM 131	Manual Drive Train and Axles	4
AM 132	Advanced Automatic and Manual Drive Train	4
Sixth Term		
AM 201	Auto Shop Lab I	4
AM 202	Auto Shop Lab II	4
AM 203	Auto Shop Lab III	4
WR 121	Composition I (WR121=WR121Z) ^{1, Z}	4
Total Credits		93

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Or any writing course for which WR 121 is a prerequisite.

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This course is part of Oregon Common Course Numbering. WR 121 and WR 121Z are equivalent.

AUTOMOTIVE SERVICE ELECTIVES

Code	Title	Credits
AM 190	Subaru-U Specialized Technical Training	4
AM 191	Automotive Light Duty Diesel Service and Repair	4
AM 192	Vehicle Electrification Technologies	4
AM 280A	Cooperative Education: Automotive Service	4
BA 101	Introduction to Business (BA101=BA101Z) ^Z	4
BA 206	Management Fundamentals	3
BA 211	Principles of Financial Accounting (BA211=BA211Z) ^Z	4

AUTOMOTIVE SERVICE TECHNOLOGY

AUTOMOTIVE SERVICE TECHNOLOGY

BA 213	Principles of Managerial Accounting (BA213=BA213Z) ^Z	4
BA 223	Principles of Marketing	4
BA 226	Business Law I	4
CAS 133		4
CG 101	College Survival and Success: Personal Responsibility	1
CG 111A	Study Skills for College Learning	3
CG 140A	Career and Life Planning	3
COMM 111	Public Speaking (COMM111=COMM111Z) ^Z	4
COMM 130	Business & Professional Communication	4
EC 201	Principles of Economics: Microeconomics	4
EC 202	Principles of Economics: Macroeconomics	4
MSD 101	Principles of Management and Supervision	3
MSD 105	Workplace Communication Skills	3
MSD 110	Gender Conflict Resolution	1
MSD 115	Improving Work Relations	3
MSD 117	Customer Relations	3
MSD 119A	Intercultural Communication	1
MSD 123	Job Search Strategies	1
MSD 128	Crisis Intervention: Handling the Difficult Person	1
MSD 130	Creative Problem Solving	3
MTH 111	Precalculus I: Functions (MTH111=MTH111Z) ^Z	4
WLD 136A	Beginning Wire Welding	3
WLD 156A	Beginning Oxy-Acetylene Welding Practice	3
WR 122	Composition II (WR122=WR122Z) ^Z	4
WR 227	Technical Writing (WR227=WR227Z) ^Z	4

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This course is part of Oregon Common Course Numbering. The following courses are equivalent:

BA 101 and BA 101Z
 BA 211 and BA 211Z
 BA 213 and BA 213Z
 COMM 111 and COMM 111Z
 MTH 111 and MTH 111Z
 WR 122 and WR 122Z
 WR 227 and WR 227Z

AUTOMOTIVE SERVICE TECHNOLOGY TWO-YEAR CERTIFICATE

Minimum 77 credits. Students must meet all certificate requirements.

Course of Study

The coursework listed below is required. The following is an example of a term-by-term breakdown.

First Term		Credits
AM 100	Intro to Automotive Systems [§]	4
AM 161	Electrical Systems I [§]	4
AM 162	Electrical Systems II	4
CG 209	Job Finding Skills	1
Second Term		
AM 151	Brakes	4
AM 141	Suspension and Steering	4

AM 142	Advanced Suspension, Steering and Brakes [§]	4
Third Term		
AM 111	Engine Repair	4
AM 163	Advanced Electrical/Electronic Systems	4
AM 171	Heating & Air Conditioning Systems [§]	4
Fourth Term		
AM 181	Engine Performance I	4
AM 182	Engine Performance II	4
AM 183	Engine Performance III [§]	4
Automotive Service Technology Elective		
Fifth Term		
AM 131	Manual Drive Train and Axles	4
AM 121	Automatic Transmission/Transaxle	4
AM 132	Advanced Automatic and Manual Drive Train [§]	4
Sixth Term		
AM 201	Auto Shop Lab I	4
AM 202	Auto Shop Lab II	4
AM 203	Auto Shop Lab III [§]	4
Total Credits		77

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Course contains Related Instruction and cannot be substituted with another course; Related Instruction details can be viewed here.

AUTOMOTIVE SERVICE ELECTIVES

Code	Title	Credits
AM 190	Subaru-U Specialized Technical Training	4
AM 191	Automotive Light Duty Diesel Service and Repair	4
AM 192	Vehicle Electrification Technologies	4
AM 280A	Cooperative Education: Automotive Service	4
BA 101	Introduction to Business (BA101=BA101Z) ^Z	4
BA 206	Management Fundamentals	3
BA 211	Principles of Financial Accounting (BA211=BA211Z) ^Z	4
BA 213	Principles of Managerial Accounting (BA213=BA213Z) ^Z	4
BA 223	Principles of Marketing	4
BA 226	Business Law I	4
CAS 133		4
CG 101	College Survival and Success: Personal Responsibility	1
CG 111A	Study Skills for College Learning	3
CG 140A	Career and Life Planning	3
COMM 111	Public Speaking (COMM111=COMM111Z) ^Z	4
COMM 130	Business & Professional Communication	4
EC 201	Principles of Economics: Microeconomics	4
EC 202	Principles of Economics: Macroeconomics	4
MSD 101	Principles of Management and Supervision	3
MSD 105	Workplace Communication Skills	3
MSD 110	Gender Conflict Resolution	1
MSD 115	Improving Work Relations	3

MSD 117	Customer Relations	3
MSD 119A	Intercultural Communication	1
MSD 123	Job Search Strategies	1
MSD 128	Crisis Intervention: Handling the Difficult Person	1
MSD 130	Creative Problem Solving	3
MTH 111	Precalculus I: Functions (MTH111=MTH111Z) ^Z	4
WLD 136A	Beginning Wire Welding	3
WLD 156A	Beginning Oxy-Acetylene Welding Practice	3
WR 122	Composition II (WR122=WR122Z) ^Z	4
WR 227	Technical Writing (WR227=WR227Z) ^Z	4

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This course is part of Oregon Common Course Numbering. The following courses are equivalent:

BA 101 and BA 101Z
BA 211 and BA 211Z
BA 213 and BA 213Z
COMM 111 and COMM 111Z
MTH 111 and MTH 111Z
WR 122 and WR 122Z
WR 227 and WR 227Z