Automotive Technology

Automotive Technology, Associate of Applied Science

The Automotive Technology program uses cutting-edge technology and highly specialized training to prepare you for a lucrative career in the automotive industry.

The automobile industry has evolved dramatically during the past two decades from mechanical to highly technical vehicles. TJC will provide state-of-the-art training and intensive hands-on experience you will need to become a successful, highly effective automotive technician. Automotive program courses will enable you to seek employment as an entry-level technician and prepare you for ASE certification.

We are an Automotive Service Excellence (ASE) accredited Master Automobile Service Technology (MAST) program and a participant in the Mopar Career Automotive Program (CAP) LOCAL national program in partnership with the National Coalition of Certification Centers (NC3). Automotive program courses will enable you to seek employment as an entry-level technician.

Please see an academic advisor, program professor, or the department chair for details if you're interested in a career as an automotive service technician.

Automotive Technology: Engine Performance, Certificate of Proficiency

In keeping with the highly technical vehicles of today, TJC's Engine Performance certificate program offers lab facilities with state-of-the-art equipment and ASE certified instructors with real-world experience in the operations of various automotive dealerships. Automotive program courses will enable you to seek employment as an entry-level technician and prepare you for ASE certification.

Please see an academic advisor, program professor, or the department chair for details on this program.

Automotive Technology: Chassis and Drive Train, Certificate of Proficiency

TJC's Chassis and Drive Train certificate program provides you with up-to-date specialty training in many high-performance applications of diesel and automotive upgrades. You will receive hands-on repair and diagnosis of modern hitech diesel and gasoline powered vehicles with an emphasis on performance. Automotive program courses will enable you to seek employment as an entry-level technician and prepare you for ASE certification.

Please see an academic advisor, program professor, or the department chair for details on this program.

AUTOMOTIVE TECHNOLOGY

Automotive Technology AAS

Associate of Applied Science

TSI Complete

MAJOR COURSES 45 CREDITS		
AUMT 1305	Introduction to Automotive Technology	
AUMT 1407	Automotive Electrical Systems	
AUMT 1419	Automotive Engine Repair	
AUMT 2321	Automotive Electrical Diagnosis and Repair	
AUMT 2417	Automotive Engine Performance Analysis I	
AUMT 2434	Automotive Engine Performance Analysis II	
AUMT 1345	Automotive Climate Control Systems	
AUMT 1310	Automotive Brake Systems	
AUMT 1257	Automotive Brake Systems Theory	
AUMT 1416	Auto. Suspension and Steering Systems	
AUMT 2413	Automotive Drive Train and Axles	
AUMT 2425	Automotive Automatic Transmission and	
	Transaxle	
AUMT 2357	Automotive Alternative Fuels	

GENERAL EDUCATION REQUIREMENTS 15 CREDITS

Every Associate of Applied Science degree plan must contain at least 15 semester hours of general education courses. At least one course must be taken from each of the following areas: humanities/fine arts (language, philosophy & culture/creative arts), social/behavioral science (social and behavioral sciences/American history/government/political science), and natural science/mathematics (life and physical sciences/mathematics).

Major Courses: 45

General Education Requirements: 15

Total Semester Hours: 60

Course Sequence:

FIRST SEMESTER CREDIT HOURS			
AUMT 1305	Introduction to Automotive Technology 3		
AUMT 1407	Automotive Electrical Systems4		
AUMT 1419	Automotive Engine Repair4		
ENGL 1301	Composition I3		
SECOND SEME	STER		
AUMT 2321	Automotive Electrical Diagnosis 3 and Repair		
AUMT 2417	Automotive Engine Performance 4 Analysis I		
AUMT 2434	Automotive Engine Performance 4 Analysis II		
MATH 1314	College Algebra OR3 MATH 1332		
SUMMER			
AUMT 1345	Automotive Climate Control Systems 3		
THIRD SEMESTER			
AUMT 1310	Automotive Brake Systems 3		
AUMT 1257	Automotive Brake Systems Theory 2		
AUMT 1416	Automotive Suspension and Steering 4		
PHIL 2306	Systems Introduction to Ethics3		
FOURTH SEME	STER		
AUMT 2413	Automotive Drive Train and Axles 4		
AUMT 2425	Automotive Automatic Transmission 4 and Transaxle		
SPCH 1321	Bus. & Professional Communication OR 3 SPCH 1315		
SOCI 1301	Introduction to Sociology OR3 PSYC 2301		
SUMMER			
AUMT 2357	Automotive Alternative Fuels3		

Total Semester Hours: 60

Courses titled in **bold type** represent general education requirements.

NOTE: Applicants must meet the admission requirements for TJC and achieve minimum scores on the TSI assessments in reading, writing, and math.

NOTE: Department-specific courses must be taken in sequence and may have a prerequisite course. Exceptions must be approved in writing by the department chair.

All new students are required to attend automotive orientation.

Students are required to furnish their own tools. (See an academic advisor, program professor, or the department chair for a required tool list.)

AUTOMOTIVE TECHNOLOGY

Engine Performance CERT

Certificate of Proficiency

TSI Exempt

FIRST SEMESTE	R CREDIT HOURS	
AUMT 1305 AUMT 1407 AUMT 1419	Introduction to Automotive Technology 3 Automotive Electrical Systems	
SECOND SEMESTER		
AUMT 2321	Automotive Electrical Diagnosis	
AUMT 2417	Automotive Engine Performance 4 Analysis I	
AUMT 2434	Automotive Engine Performance 4 Analysis II	
SUMMER		
AUMT 1345	Automotive Climate Control Systems 3	

Total Semester Hours: 25

For Automotive Technology certificate programs:

NOTE: Applicants must meet the admission requirements for TJC.

NOTE: Department-specific courses must be taken in sequence and may have a prerequisite course. Exceptions must be approved in writing by the department chair.

All new students are required to attend automotive orientation.

Students are required to furnish their own tools. (See an academic advisor, program professor, or the department chair for a required tool list.)

AUTOMOTIVE TECHNOLOGY

Chassis and Drive Train CERT

Certificate of Proficiency

TSI Exempt

PREREQUISITE	CREDIT HOURS	
AUMT 1305 AUMT 1407	Introduction to Automotive Technology 3 Automotive Electrical Systems4	
FIRST SEMESTER		
AUMT 1310 AUMT 1257 AUMT 1416	Automotive Brake Systems	
SECOND SEMESTER		
AUMT 2413 AUMT 2425	Automotive Drive Train and Axles	

Total Semester Hours: 24

For Automotive Technology certificate programs:

NOTE: Applicants must meet the admission requirements for TJC.

NOTE: Department-specific courses must be taken in sequence and may have a prerequisite course. Exceptions must be approved in writing by the department chair.

All new students are required to attend automotive orientation.

Students are required to furnish their own tools. (See an academic advisor, program professor, or the department chair for a required tool list.)