



Automotive System Technology Associates Degree Diploma & Certificate

ADMISSION

Program Outcomes

The Automotive Systems Technology curriculum prepares individuals for employment as Automotive Services Technicians. It provides an introduction to automotive careers and increases student awareness of the challenges associated with this fast and ever-changing field. Classroom and lab experience integrate technical and academic course work.

Upon completion of this curriculum, students should be prepared to take the ASE exam and qualify for full-time employment in dealerships and repair shops in the automotive service industry.

Emphasis is placed on:

- automatic transmission/transaxles
- climate control
- electrical/electronic systems
- engine performance
- engine repair
- manual drive trains
- servicing and operation of brakes
- steering/suspension

Accreditation

The Automotive Systems Technology program satisfies the requirement for the ASE Education Foundation and is accredited at the Master Level, recognized by the National Institute for Automotive Excellence (ASE).

ASE Education Foundation, 1503 Edwards Ferry Road, NE, Suite 401, Leesburg, VA 20176
Telephone: 703.669.6650

www.aseeducationfoundation.org

Subaru University



CCC&TI is a Subaru-University partner institution. This partnership allows CCC&TI's nationally accredited automotive systems curriculum to also include Subaru's web-based, manufacturer-specific vehicle systems training. The additional training prepares CCC&TI students for possible employment with a Subaru retailer or with any automotive service center that performs work on Subaru vehicles.

Occupational Outlook

According to the Department of Labor's website (<https://www.bls.gov/ooh/installation-maintenance-and-repair/automotive-service-technicians-and-mechanics.htm#tab-1>) "Automotive service technicians and mechanics inspect, maintain, and repair cars and light trucks. Most automotive service technicians and mechanics work in well-ventilated and well-lit repair shops. Although technicians often identify and fix automotive problems with computers, they commonly work with greasy parts and tools, sometimes in uncomfortable positions. The median annual wage for automotive service technicians and mechanics was \$42,090 in May 2019."

Admission Steps

- Complete CCC&TI admissions application online at cccti.edu
- Submit official high school/GED/AHS transcripts and college transcripts
- Complete FASFA online at www.studentaid.gov
- Meet placement testing requirements
- Mechanical Aptitude Test
- Meet with advisor to register for classes
- Meet with Roy Jennings for Automotive Career Counseling (828-726-2384 or rjennings@cccti.edu to schedule an appointment)
- Pay for classes and purchase books bundle bookstore
- Purchase Automotive System collar t-shirt from bookstore (recommend 2)

Important Contact Information

Admissions

Contact Sara Greene, Admissions Specialist, at 828.726.2706 or sgreene@cccti.edu for more information and how to complete the enrollment and registration process.

Financial Aid

Contact Financial Aid at 828.726.2713 as soon as possible to inquire and complete your FAFSA. Check your CCC&TI student email frequently to monitor your Financial Aid status.

Program Director

Contact Roy Jennings, Director, Automotive Systems Technology, at 828.726.2384 or rjennings@cccti.edu

PROGRAM OFFERINGS – Automotive Systems Technology Associate Degree Program (A60160)

Fall Semester I					
ACA	115	Success & Study Skills	F/S/SS		1 Credit
AUT	116	Engine Repair	Fall only	Corequisite: AUT 116A, TRN 110 and TRN 120	3 Credits
AUT	116A	Engine Repair Lab	Fall only	Corequisite: AUT 116, TRN 110 and TRN 120	1 Credit
ENG	111	Writing and Inquire	F/S/SS		3 Credits
TRN	110	Introduction to Transportation Electricity	F/S		2 Credits
TRN	120	Basic Transportation Electricity	F/S	Corequisite: TRN 110	5 Credits
				Total	15
Spring Semester I					
MAT	110	Mathematical Measurement and Literacy	F/S/SS		3 Credits
AUT	141	Suspension & Steering Systems	Spring only	Corequisite: AUT 141A, TRN 110 and TRN 120	3 Credits
AUT	141A	Suspension & Steering Systems Lab	Spring only	Corequisite: AUT 141, TRN 110 and TRN 120	1 Credit
AUT	151	Brake Systems	Spring only	Corequisite: AUT 151A, TRN 110 and TRN 120	3 Credits
AUT	151A	Brake Systems Lab	Spring only	Corequisite: AUT 151, TRN 110 and TRN 120	1 Credit
AUT	181	Engine Performance I	Spring only	Corequisite: TRN 110 and TRN 120	3 Credits
				Total	14
Summer Semester I					
AUT	183	Engine Performance 2	Summer Only	Prerequisite: AUT 181	4 Credits
TRN	170	PC Skills for Transportation	S/SS		2 Credits
Student Choice		Social Science Elective	F/S/SS		3 Credits
				Total	9
Fall Semester II					
AUT	113	Automotive Servicing I	Fall only	Corequisite: TRN 110 and TRN 120	2 Credits
OR					

WBL	112	Work-Based Learning I	F/S		2 Credits
AUT	212	Auto Shop Management	Fall only	Corequisite: TRN 110 and TRN 120	3 Credits
AUT	221	Automatic Transmissions/Transaxles	Fall only	Corequisite: AUT 221A, TRN 110 and TRN 120	3 Credits
AUT	221A	Automatic Transmissions/Transaxles Lab	Fall only	Corequisite: AUT 221, TRN 110 and TRN 120	1 Credit
TRN	140	Transportation Climate Control	Fall only	Corequisite: TRN 140A, TRN 110 and TRN 120	2 Credits
TRN	140A	Transportation Climate Control Lab	Fall only	Corequisite: TRN 140, TRN 110 and TRN 120	2 Credits
				Total	13
Spring Semester II					
AUT	163	Advanced Automotive Electricity	Spring only	Prerequisite: TRN 120 Corequisite: AUT 163A	3 Credits
AUT	163A	Advanced Automotive Electricity Lab	Spring only	Prerequisite: TRN 120 Corequisite: AUT 163	1 Credits
AUT	231	Manual Transmissions/Transaxles/Drivetrains	Spring only	Corequisite: AUT 231A, TRN 110, TRN 120	3 Credits
AUT	231A	Manual Transmissions/Transaxles/Drivetrains Lab	Spring only	Corequisite: AUT 231, TRN 110, TRN 120	1 Credits
COM	120	Intro to Interpersonal Communication	F/S/SS		3 Credits
TRN	130	Intro to Sustainable Transportation	Spring only	Corequisite: TRN 110, TRN 120	3 Credits
Student Choice		Humanities/Fine Arts Elective	F/S/SS		3 Credits
				Total	17
Total Hours 71					

PROGRAM OFFERINGS – Diploma – Automotive Systems Technology (D60160)

Fall Semester I					
AUT	113	Automotive Servicing I	Fall only	Corequisite: TRN 110 and TRN 120	2 Credits
OR					
WBL	112	Work-Based Learning I	F/S		2 Credits

AUT	116	Engine Repair	Fall only	Corequisite: AUT 116A, TRN 110 and TRN 120	3 Credits
AUT	116A	Engine Repair Lab	Fall only	Corequisite: AUT 116, TRN 110 and TRN 120	1 Credit
ENG	111	Writing and Inquire	F/S/SS		3 Credits
*TRN	110	Introduction to Transportation Electricity	F/S		2 Credits
*TRN	120	Basic Transportation Electricity	F/S	Corequisite: TRN 110	5 Credits
				Total	16 Credits
Spring Semester I					
AUT	141	Suspension & Steering Systems	Spring only	Corequisite: AUT 141A, TRN 110 and TRN 120	3 Credits
AUT	141A	Suspension & Steering Systems Lab	Spring only	Corequisite: AUT 141, TRN 110 and TRN 120	1 Credit
AUT	151	Brake Systems	Spring only	Corequisite: AUT 151A, TRN 110 and TRN 120	3 Credits
AUT	151A	Brake Systems Lab	Spring only	Corequisite: AUT 151, TRN 110 and TRN 120	1 Credit
AUT	181	Engine Performance I	Spring only	Corequisite: TRN 110 and TRN 120	3 Credits
COM	120	Intro to Interpersonal Communication	F/S/SS		3 Credits
				Total	14 Credits
Summer Semester I					
AUT	183	Engine Performance 2	Summer Only	Prerequisite: AUT 181	4 Credits
TRN	170	PC Skills for Transportation	S/SS		2 Credits
				Total	6 Credits
Total Credit Hours: 36					

PROGRAM OFFERINGS – Certificate – Basic Engine Performance (C60160E)

AUT	181	Engine Performance I	Spring Only	Corequisite: TRN 110 and TRN 120	3 Credits
AUT	183	Engine Performance 2	Summer Only	Prerequisite: AUT 181	4 Credits
TRN	110	Introduction to Transportation Electricity	F/S		2 Credits
TRN	120	Basic Transportation Electricity	F/S	Corequisite: TRN 110	5 Credits
TRN	170	PC Skills for Transportation	S/SS		2 Credits
Total Credit Hours 16					

PROGRAM OFFERINGS – Certificate – Basic Engine Repair Servicing (C60160R)

AUT	113	Automotive Servicing I	Fall Only	Corequisite: TRN 110 and TRN 120	2 Credits
AUT	116	Engine Repair	Fall Only	Corequisite: AUT 116A, TRN 110 and TRN 120	3 Credits
AUT	116A	Engine Repair Lab	Fall Only	Corequisite: AUT 116, TRN 110 and TRN 120	1 Credit
TRN	110	Introduction to Transportation Electricity	F/S		2 Credits
TRN	120	Basic Transportation Electricity	F/S	Corequisite: TRN 110	5 Credits
TRN	170	PC Skills for Transportation	S/SS		2 Credits
Total Credit Hours 15					

PROGRAM OFFERINGS – Certificate – Basic Undercar (C60160U)

AUT	141	Suspension & Steering Systems	Spring only	Corequisite: AUT 141A, TRN 110, TRN 120	3 Credits
AUT	141A	Suspension & Steering Systems Lab	Spring only	Corequisite: AUT 141, TRN 110, TRN 120	1 Credit
AUT	151	Brake Systems	Spring only	Corequisite: AUT 151A, TRN 110, TRN 120	3 Credits
AUT	151A	Brake Systems Lab	Spring only	Corequisite: AUT 151, TRN 110, TRN 120	1 Credit
TRN	110	Introduction to Transportation Electricity	F/S		2 Credits
TRN	120	Basic Transportation Electricity	F/S	Corequisite: TRN 120	5 Credits
Total Credit Hours 15					

COST

	Associate	Diploma	Certificates
Tuition (\$76/credit hour)	Fall Semester I \$1,140 Spring Semester I \$1,064 Summer Semester I \$684 Fall Semester II \$1,216 Spring Semester II \$1,292 Tuition Total \$5,396	Fall Semester I \$1,216 Spring Semester I \$1,064 Summer Semester I \$456 Tuition Total \$2,736 This program is designed to be completed in 12 months	*Depending on certificate, price will vary* \$912 - \$1,140 This program is designed to be completed in 6 – 12 months depending on certificate.

Additional Fees	\$35 campus activity fee (each semester) \$2/per course (max \$10 per semester) campus service fee \$2 (per semester) student accident insurance Total (per semester) \$47	\$35 campus activity fee (each semester) \$2/per course (max \$10 per semester) campus service fee \$2 (per semester) student accident insurance Total (per semester) \$47	\$35 campus activity fee (each semester) \$2/per course (max \$10 per semester) campus service fee \$2 (per semester) student accident insurance Total (per semester) \$47
Textbooks (purchased from CCC&TI Bookstore)	varies	varies	varies
Additional requirements	2 shirts @ \$16.00 each	2 shirts @ \$16.00 each	2 shirts @ \$16.00 each
Graduation Fee	\$25	\$25	\$25
Total	approximately \$5,500	approximately \$2,840	approximately \$1,016 – 1,244