AUTOMOTIVE (AUT)

AUT 100: Orientation to Auto Tech (2)
Orientation to Automotive Technology is for all students entering the Automotive Technology Program. Students are asked to fill out an online response form upon entering/ registering for the program. This information will be used to create usernames and passwords necessary to access manufacturer training and certification websites. 22 lecture hrs/wk
Terms Typically Offered: Fall

AUT 101: Basic Auto Skills I (3)
First of a three-part series; a basic automotive series of classes designed to ready students for a college level Automotive Program. This class focuses on using proper tools and equipment as well as the operating concepts of a few of the major systems used in an automobile. 6 lecture/ lab hrs/wk
Terms Typically Offered: Fall

AUT 102: Basic Auto Skills II (3)
Second of a three-part series; a basic automotive series of classes designed to ready students for a college level Automotive Program. This class continues its focus on the operating concepts of the majority of the major systems used in an automobile not covered in the first class of the series. 6 lecture/lab hrs/wk

AUT 103: Basic Auto Skills III (5)
Third of a three-part series; a basic automotive series of classes designed to ready students for a college level Automotive Program. This class adds electronics and diagnostics to the previous two classes in the series. (This complies with Job Corps TARS). Soft skills necessary for employment are taught and reinforced such as use of a time clock, completing repair orders (including concern, cause, and correction), and completing parts order slips. 10 lecture/lab hrs/wk

AUT 111: Engine Repair and Maintenance (6)
This course covers the principles and operation of gasoline engines and engine maintenance. This includes the diagnosis, service, and repair of engine blocks, cylinder heads, and valve trains. The diagnosis, service, and repair of the lubrication system, cooling system, and engine removal, and reinstallation will also be covered. It is designed to meet the ASE required tasks for A1, G1 and T1 certifications. 6 lecture, 15 lecture/lab hrs/wk
Registration-Enforced Corequisite: AUT 100 or instructor approval.
Terms Typically Offered: Fall

AUT 112A: Auto Friday Career Academy (2)
Friday Career Academy Orientation to Automotive Technology is for all students entering the Automotive Technology Program. Students are asked to fill out an online response form upon entering/ registering for the program. This information will be used to create usernames and passwords necessary to access manufacturer training and certification websites. 22 lecture hrs/wk
Terms Typically Offered: Fall

AUT 112B: Auto Friday Career Academy (3)
Friday Career Academy This course covers the principles and operation of gasoline engines and engine maintenance. This includes the diagnosis, service, and repair of engine blocks, cylinder heads, and valve trains. The diagnosis, service, and repair of the lubrication system, cooling system, and engine removal, and reinstallation will also be covered. It is designed to meet the ASE required tasks for A1, G1 and T1 certifications.
Registration-Enforced Corequisite: AUT 100 or instructor approval.
Terms Typically Offered: 3 credits Winter

AUT 112C: Auto Friday Career Academy (3)
Friday Career Academy This course covers the principles and operation of gasoline engines and engine maintenance. This includes the diagnosis, service, and repair of engine blocks, cylinder heads, and valve trains. The diagnosis, service, and repair of the lubrication system, cooling system, and engine removal, and reinstallation will also be covered. It is designed to meet the ASE required tasks for A1, G1 and T1 certifications.
Registration-Enforced Corequisite: AUT 100 or instructor approval.
Terms Typically Offered: 3 Credits Spring

AUT 113: Drive Trains (6)
This course covers the principles and operation of drive train systems. This includes the diagnosis, service and repair of manual, and automatic transmission/ transaxle assemblies, and related components/ systems. It is designed to meet the ASE required tasks for A2 and A3 certifications. 6 lecture, 15 lab hrs/wk
Terms Typically Offered: Fall

AUT 114: Suspension and Steering (6)
This course covers the principles and operation of the suspension and steering systems. This includes the diagnosis, service, and repair of the steering and suspension systems and their components. The diagnosis, service, and repair of tires, wheels and the fundamentals and diagnosis of wheel alignment will also be covered. It is designed to meet the ASE required tasks for A4 and T4 certifications. 6 lecture, 15 lab hrs/wk
Terms Typically Offered: Winter

AUT 115: Braking Systems (6)
This course covers the principles and operations of the various braking systems and their components. This includes the diagnosis, service, and repair of disc brakes, drum brakes, and related braking control systems concerns. It is designed to meet the ASE required tasks for A5 and T5 certifications. 6 lecture, 15 lab hrs/wk
Terms Typically Offered: Winter

AUT 116: Electrical Electronic Systems (6)
This course covers the principles and operation of vehicle electrical and electronic systems. This included the diagnosis, service, and repair of batteries, starting, and charging systems. The diagnosis, service, and repair of body electrical, and electronic systems, and the proper usage of electrical and electronic test equipment will also be covered. It is designed to meet the ASE required tasks for A6 and T6 certifications. 6 lecture, 15 lab hrs/wk
Terms Typically Offered: Spring

AUT 118: Engine Performance Drive (6)
This course covers the diagnosis, service, and repair of mechanical engine concerns, and computer control systems. The diagnosis, service, and repair of ignition, fuel, exhaust, and emission control systems will also be covered. It is designed to meet the ASE required tasks for A8 and L1 certifications. 6 lecture, 15 lab hrs/wk
Registration-Enforced Prerequisite: AUT 111 and AUT 116 or instructor approval.
Terms Typically Offered: Spring

AUT 127: Climate Control Adv Electrical (6)
This course covers the principles and operation of climate control systems. This includes the diagnosis, service, and repair of the HVAC system, and proper refrigerant recovery, recycling and handling. The diagnosis, service, and repair of advanced electrical systems will also be covered. It is designed to meet the ASE required tasks for A7 and T7 certifications. 6 lecture, 15 lab hrs/wk
Registration-Enforced Prerequisite: AUT 116 or instructor approval.
Terms Typically Offered: Summer

AUT 129: Light Vehicle Diesel Engines (6)
This course covers the principles, and operation of light vehicle diesel engines. This includes the diagnosis, service, and repair of engine management, fuel, and diesel emission control systems. It is designed to meet the ASE required tasks for A9 and L2 certifications. 6 lecture, 15 lab hrs/wk
Registration-Enforced Prerequisite: AUT 111.
Terms Typically Offered: Summer

AUT 199: TECS Elite (6)
The TECS Elite course is part of a Toyota training and certification program designed to give committed automotive technology students their first experience with manufacturer technician training and certification. This training course is designed for entry level Toyota technicians and focuses on developing maintenance level skills that will get students to work quickly. For successful students, this will be the first step in a career path that emphasizes progressive certification levels achieved through progressively more challenging technical training. 6 lecture, 15 lecture/lab hrs/wk
Registration-Enforced Corequisite: AUT 100.
Terms Typically Offered: Fall

AUT 280: CWE-Automotive (1-13)
Qualified students work at training sites that provide experience appropriate to their major. These experiences will provide the opportunity for students to gain knowledge of the various tasks performed in their career field. A student may take any number of CWE credits per term, not to exceed 13 credits per year. Registration Enforced 1 credit = 33 hours of lab
Prerequisite: Instructor approval.
Terms Typically Offered: Fall, Winter, Spring, Summer