

AUTOMOTIVE TECHNOLOGY (AUTO)

AUTO 1010 Introduction to General Motors Automotive Systems (2 Credits)

This introductory course prepares General Motors Automotive Service Education Program (ASEP) students for their first internship experience by introducing the student to safe shop practices and tool usage, General Motors service information, vehicle identification, maintenance requirements and basic service procedures.

Additional fees may apply

Previous: Legacy Equivalent(s): AUT* 112

AUTO 1012 General Motors Braking Systems (3 Credits)

Introduces General Motors (GM) Automotive Service Education Program (ASEP) program students to automotive braking system theory and repair in accordance with Automotive Service Excellence (ASE) accreditation standards. Presents content specified in the current GM dealership brakes curriculum. Includes content covered in ASE exam A5 Brakes.

Prerequisite or corequisite: AUTO 1010

Additional fees may apply

Previous: Legacy Equivalent(s): AUT* 118

AUTO 1014 General Motors Steering and Suspension Systems (3 Credits)

This course introduces students to General Motors steering and suspension systems with emphasis on identification of steering and suspension type, mechanical component removal and installation, and diagnosis of steering and suspension system concerns. Wheel alignment procedures will be included in the course.

Prerequisite or corequisite: AUTO 1010

Additional fees may apply

Previous: Legacy Equivalent(s): AUT* 116

AUTO 1016 General Motors Electrical Systems (3 Credits)

Introduces General Motors (GM) Automotive Service Education Program (ASEP) program students to automotive electrical theory and repair in accordance with Automotive Service Excellence (ASE) standards. Presents content specified in the current GM dealership electrical curriculum. Includes content covered in ASE exam A6 Electrical/Electronic Systems.

Prerequisite or corequisite: AUTO 1010

Additional fees may apply

Previous: Legacy Equivalent(s): AUT* 114

AUTO 1018 General Motors Engine Propulsion Systems (3 Credits)

This course focuses on basic design and construction of General Motors engines. Emphasis will be on engine disassembly and measurement procedures; engine mechanical diagnosis and repair; engine removal and installation.

Prerequisite or corequisite: AUTO 1010

Additional fees may apply

Previous: Legacy Equivalent(s): AUT* 110

AUTO 1030 Automotive Maintenance and Light Repair (3 Credits)

This is an introductory course for the Automotive Technician providing the theory for a foundation in the field. Emphasis will be on basic automotive service procedures and the inter-relationship of the various automotive systems. Additional emphasis will be on the lube maintenance and vehicle inspection process. Shop safety, proper care and use of tools are included. Prepares students for the Automotive Service Excellence Education Foundation (A.S.E.) G1.

Additional fees may apply

Previous: Legacy Equivalent(s): AUT* 132, ATP* 100

AUTO 1031 Engine Repair (3 Credits)

Diagnosis of automotive engines and their lubrication and cooling systems. Included is engine construction, operation along with disassembly and assembly techniques. Covers in both theory and practice, of the automotive engine and its systems. Students will gain the skills necessary to service and repair current automotive engines. Students will learn to diagnose engine problems and repair them properly. Prepares students for the Automotive Service Excellence Education Foundation (A.S.E.) A1 exam.

Prerequisite or corequisite: AUTO 1030 or with the permission of the coordinator.

Additional fees may apply

Previous: Legacy Equivalent(s): ATP* 120, AUT* 130

AUTO 1033 Electrical/Electronics Systems (3 Credits)

Covers in both theory and practice, automotive electrical and electronic systems. Students will study the most updated automotive electronic systems and become familiar with electrical circuits, alternators, starters, batteries, and electrical components. Theory, operation, diagnosis, and repair procedures will be covered. Emphasizes lecture and related laboratory experiences in the diagnosis and service of automotive electrical systems and their components. Prepares students for the Automotive Service Excellence Education Foundation (A.S.E.) A6 exam.

Prerequisite or corequisite: AUTO 1030 and MATH 0900 or successful completion of college placement test or with permission of the coordinator

Additional fees may apply

Previous: Legacy Equivalent(s): AUT* 134, ATP* 110

AUTO 1036 Suspension and Steering (3 Credits)

The diagnosis and repair of steering and suspension systems and their inter-relationship to wheel alignment. The course includes a thorough knowledge of wheel and tire maintenance. Prepares students for the Automotive Service Excellence Education Foundation (A.S.E.) A4 exam.

Prerequisite or corequisite: AUTO 1030 or with permission of the coordinator.

Additional fees may apply

Previous: Legacy Equivalent(s): AUT*136, ATP*150

AUTO 1037 Engine Performance (3 Credits)

Fuel theory and nomenclature necessary to service and repair computerized automotive fuel systems. This includes but is not limited to computer controls, ignition and fuel systems, exhaust and emission systems and their maintenance, diagnosis, and repair procedures. Prepares students for the Automotive Service Excellence Education Foundation (A.S.E.) A8 exam.

Prerequisites: AUTO 1033 or with permission of the coordinator.

Additional fees may apply

Previous: Legacy Equivalent(s): ATP* 210, AUT* 231

AUTO 1038 Brakes Systems (3 Credits)

Covers the maintenance, diagnosis, and repair procedures of disc and/or drum brake systems including ABS (antilock brakes) along with their mechanical, hydraulic, and electrical components. Modern traction control and stability control systems will be explored. Theory, operation, diagnosis, and repair procedures will be covered. Prepares students for the Automotive Service Excellence Education Foundation (A.S.E.) A5 exam.

Prerequisite or corequisite: AUTO 1030 and AUTO 1033 or with permission of the coordinator.

Additional fees may apply

Previous: Legacy Equivalent(s): AUT*138, ATP*130

AUTO 1042 Honda Express Service Lab (2 Credits)

This introductory laboratory course prepares Honda Professional Automotive Career Training Program (PACT) students for their first internship experience by introducing the student to safe shop practices and tool usage, Honda Interactive Network (IN) service information, vehicle identification, maintenance requirements and basic service procedures.

Additional fees may apply

AUTO 1053 Honda Power Plant Systems Theory (1 Credits)

This theory course focuses on basic design and construction of American Honda Motor Co, Inc. (AHM) Power Plant Systems Emphasis will be on engine disassembly and measurement procedures; engine mechanical diagnosis and repair; engine removal and installation. Lecture Hours: 1

AUTO 1054 Honda Electrical Systems Theory (1 Credits)

This theory course introduces Honda Professional Automotive Career Training Program (PACT) program students to automotive electrical theory and repair in accordance with Automotive Service Excellence (ASE) standards. Presents theory content specified in the current American Honda Motor Co, Inc. dealership electrical curriculum. Includes content covered in ASE exam A6 Electrical/Electronic Systems. Lecture Hours: 1

AUTO 1055 Honda Power Plant Systems Theory (2 Credits)

This theory course focuses on basic design and construction of American Honda Motor Co, Inc. (AHM) Power Plant systems. Emphasis will be on engine disassembly and measurement procedures; engine mechanical diagnosis and repair; engine removal and installation.

Additional fees may apply

AUTO 1056 Honda Power Plant Systems Lab (2 Credits)

This laboratory course focuses on basic design and construction of American Honda Motor Co, Inc. (AHM) Power Plant systems. Emphasis will be on engine disassembly and measurement procedures; engine mechanical diagnosis and repair; engine removal and installation.

Additional fees may apply

AUTO 1057 Honda Electrical Systems Theory (2 Credits)

This theory course introduces Honda Professional Automotive Career Training Program (PACT) program students to automotive electrical theory and repair in accordance with Automotive Service Excellence (ASE) standards. Presents theory content specified in the current American Honda Motor Co, Inc. dealership electrical curriculum. Includes content covered in ASE exam A6 Electrical/Electronic Systems.

Additional fees may apply

AUTO 1058 Honda Electrical Systems Lab (2 Credits)

This laboratory course introduces Honda Professional Automotive Career Training Program (PACT) program students to automotive electrical theory and repair in accordance with Automotive Service Excellence (ASE) standards. Presents laboratory content specified in the current American Honda Motor Co, Inc. (AHM) dealership electrical curriculum. Includes content covered in ASE exam A6 Electrical/Electronic Systems. *Additional fees may apply*

AUTO 1062 Honda Dealership Skills Lab (2 Credits)

This laboratory course introduces Honda Professional Automotive Career Training Program (PACT) students to American Honda Motor Co., Inc. (AHM) specific procedures and practices implemented in AHM dealerships. Presents the overall operation of the service, parts, and sales departments. Topics in this course include marketing techniques, financial analysis, personnel management, work scheduling and distribution, and use of pricing manuals. An in-depth study of parts numbering, storage, cataloging, retrieval, ordering, and stocking management techniques will be discussed. Presents theory content specified in the current American Honda Motor Co., Inc. dealership curriculum. Prepares students for the Automotive Service Excellence Education Foundation (A.S.E.) C1, P2 exam.

Additional fees may apply

AUTO 1063 Honda Steering and Suspension Systems Theory (1 Credits)

This theory course introduces Honda Professional Automotive Career Training Program (PACT) students to American Honda Motor Co., Inc. steering and suspension systems with emphasis on identification of steering and suspension type, mechanical component removal and installation and diagnosis of steering and suspension concerns. Wheel alignment procedures will be included in the course. Lecture: 1 hour.

AUTO 1064 Honda Braking Systems Theory (1 Credits)

This theory course introduces Honda Professional Automotive Career Training (PACT) program students to automotive braking system theory and repair in accordance with Automotive Service Excellence (ASE) accreditation standards. Presents theory content specified in the current American Honda Motor Co., Inc. dealership brakes curriculum. Includes content covered in ASE exam A5 Brakes. Lecture Hours: 1

AUTO 1065 Honda Steering and Suspension Systems Theory (2 Credits)

This theory course introduces Honda Professional Automotive Career Training Program (PACT) students to American Honda Motor Co. Inc. steering and suspension systems with emphasis on identification of steering and suspension type, mechanical component removal and installation, and diagnosis of steering and suspension system concerns. Wheel alignment procedures will be included in the course. *Additional fees may apply*

AUTO 1066 Honda Steering and Suspension Systems Lab (2 Credits)

This laboratory course introduces Honda Professional Automotive Career Training Program (PACT) students to American Honda Motor Co. Inc. (AHM) steering and suspension systems with emphasis on identification of steering and suspension type, mechanical component removal and installation, and diagnosis of steering and suspension system concerns. Wheel alignment procedures will be included in the course.

Additional fees may apply

AUTO 1067 Honda Braking Systems Theory (1 Credits)

This theory course introduces Honda Professional Automotive Career Training Program (PACT) program students to automotive braking system theory and repair in accordance with Automotive Service Excellence (ASE) accreditation standards. Presents theory content specified in the current American Honda Motor CO, Inc. dealership brakes curriculum. Includes content covered in ASE exam A5 Brakes.

Additional fees may apply

Previous: Legacy Equivalent(s): AUT* 148, AUT* 167

AUTO 1068 Honda Braking Systems Lab (2 Credits)

This laboratory course introduces Honda Professional Automotive Career Training Program (PACT) program students to automotive braking system theory and repair in accordance with Automotive Service Excellence (ASE) accreditation standards. Presents laboratory content specified in the current American Honda Motor CO, Inc. dealership brakes curriculum. Includes content covered in ASE exam A5 Brakes.

Additional fees may apply

AUTO 1090 Introduction to Welding (3 Credits)

In the automotive field, the use of the oxyacetylene torch and the mig welder is commonplace. Automotive technicians need to be able to use the processes of welding and brazing, etc. safely and skillfully. This course offers both theory and a practical lab section so students will be both skilled and knowledgeable in all the welding technology covered.

Additional fees may apply

Previous: Legacy Equivalent(s): ATP*190

AUTO 1101 Honda Express Service Theory (1 Credits)

This theory introductory course prepares Honda Professional Automotive Career Training (PACT) Program students for their first internship experience by introducing the student to safe shop practices and tool usage, Honda Interactive Network (IN) service information, vehicle identification, maintenance requirements, basic service procedures, and resume-building and job interviewing.

Previous: Legacy Equivalent(s): AUT* 141

AUTO 1101L Honda Express Service Lab (2 Credits)

This introductory lab course prepares Honda Professional Automotive Career Training (PACT) program students for their first internship experience by introducing the student to safe shop practices and tool usage, Honda Interactive Network (IN) service information, vehicle identification, maintenance requirements and basic service procedures.

Additional fees may apply

Previous: Legacy Equivalent(s): AUTO 1142

AUTO 1105 Honda Power Plant System Theory (1 Credits)

This theory course focuses on basic design and construction of American Honda Motor Co, Inc. (AHM) Power Plant systems. Emphasis will be on engine disassembly and measurement procedures; engine mechanical diagnosis and repair; engine removal and installation.

Corequisite: AUTO 1105L

AUTO 1105L Honda Power Plant Systems Lab (2 Credits)

This laboratory course focuses on basic design and construction of American Honda Motor Co, Inc. (AHM) Power Plant systems. Emphasis will be on engine disassembly and measurement procedures; engine mechanical diagnosis and repair; engine removal and installation.

Additional fees may apply

Previous: Legacy Equivalent(s): AUTO 1056

AUTO 1110 Honda Electrical Systems Theory (1 Credits)

This theory course introduces Honda Professional Automotive Career Training Program (PACT) program students to automotive electrical theory and repair in accordance with Automotive Service Excellence (ASE) standards. Presents theory content specified in the current American Honda Motor Co, Inc. dealership electrical curriculum. Includes content covered in ASE exam A6 Electrical/Electronic Systems.

Corequisite: AUTO 1110L

AUTO 1110L Honda Electrical Systems Lab (2 Credits)

This laboratory course introduces Honda Professional Automotive Career Training Program (PACT) program students to automotive electrical theory and repair in accordance with Automotive Service Excellence (ASE) standards. Presents laboratory content specified in the current American Honda Motor Co, Inc. (AHM) dealership electrical curriculum. Includes content covered in ASE exam A6 Electrical/Electronic Systems.

Additional fees may apply

Previous: Legacy Equivalent(s): AUT* 158

AUTO 1115 Honda Dealership Skills Theory (1 Credits)

This theory course introduces Honda Professional Automotive Career Training Program (PACT) students to American Honda Motor Co., Inc., (AHM) specific procedures and practices implemented in AHM dealerships. Presents the overall operation of the service, parts, and sales departments. Topics include marketing techniques, financial analysis, personnel management, work scheduling and distribution, and use of pricing manuals. An in-depth study of parts numbering, storage, cataloging, retrieval, ordering, and stocking management techniques will be discussed. Presents theory content specified in the current American Honda Motor Co., Inc. dealership curriculum. Prepares students for the Automotive Service Excellence Foundation (A.S.E.) C1, P2 exam.

Prerequisites: AUTO 1101 and AUTO 1101L or AUTO 1030

Prerequisite or corequisite: AUTO 1115L

AUTO 1115L Honda Dealership Skills Lab (2 Credits)

This laboratory course introduces Honda Professional Automotive Career Training Program (PACT) students to American Honda Motor Co., Inc. (AHM) specific procedures and practices implemented in AHM dealerships. Presents the overall operation of the service, parts, and sales departments. Topics in this course include marketing techniques, financial analysis, personnel management, work scheduling and distribution, and use of pricing manuals. An in-depth study of parts numbering, storage, cataloging, retrieval, ordering, and stocking management techniques will be discussed. Presents theory content specified in the current American Honda Motor Co., Inc. dealership curriculum. Prepares students for the Automotive Service Excellence Education Foundation (A.S.E.) C1, P2 exam.

Additional fees may apply

AUTO 1120 Honda Steering and Suspension Systems Theory (1 Credits)

This theory course introduces Honda Professional Automotive Career Training Program (PACT) students to American Honda Motor Co. Inc. steering and suspension systems with emphasis on identification of steering and suspension type, mechanical component removal and installation, and diagnosis of steering and suspension system concerns. Wheel alignment procedures will be included in the course.

Corequisite: AUTO 1120L

AUTO 1120L Honda Steering and Suspension Systems Lab (2 Credits)

This laboratory course introduces Honda Professional Automotive Career Training Program (PACT) students to American Honda Motor Co. Inc. (AHM) steering and suspension systems with emphasis on identification of steering and suspension type, mechanical component removal and installation, and diagnosis of steering and suspension system concerns. Wheel alignment procedures will be included in the course.

Additional fees may apply

Previous: Legacy Equivalent(s): AUT* 166

AUTO 1125 Honda Braking Systems Theory (1 Credits)

This theory course introduces Honda Professional Automotive Career Training Program (PACT) program students to automotive braking system theory and repair in accordance with Automotive Service Excellence (ASE) accreditation standards. Presents theory content specified in the current American Honda Motor CO, Inc. dealership brakes curriculum. Includes content covered in ASE exam A5 Brakes.

Corequisite: AUTO 1125L

AUTO 1125L Honda Braking Systems Lab (2 Credits)

This laboratory course introduces Honda Professional Automotive Career Training Program (PACT) program students to automotive braking system theory and repair in accordance with Automotive Service Excellence (ASE) accreditation standards. Presents laboratory content specified in the current American Honda Motor CO, Inc. dealership brakes curriculum. Includes content covered in ASE exam A5 Brakes.

Additional fees may apply

Previous: Legacy Equivalent(s): AUT* 168

AUTO 1131 Intro to Electric Vehicles (3 Credits)

Prerequisite or corequisite: AUTO 1033 - Electrical/Electronics Systems OR AUTO 1016 - General Motors Electrical Systems OR AUTO 1110 - Honda Electrical Systems Theory and AUTO 1110L - Honda Electrical Systems Lab

Additional fees may apply

AUTO 1132 Electric Vehicle (EV) Operation, Maintenance and Light Repair (3 Credits)

This course provides students with foundational knowledge and hands-on skills necessary to operate, maintain, and perform light repairs on electric vehicles (EV). Topics include the principles of EV technology, safety procedures, and basic troubleshooting techniques. Through a combination of classroom instruction and practical lab exercises, students will gain expertise in servicing key components such as batteries, charging systems, and electric drive systems.

Prerequisites: AUTO 1131

Additional fees may apply

AUTO 1133 Electric Vehicle (EV) Diagnosis and Repair (3 Credits)

This course is designed for students with foundational knowledge of electric vehicles (EVs) who want to develop advanced skills in diagnosing and repairing complex EV systems. Emphasizing real-world problem-solving, the course covers high-level diagnostics of electric powertrains, battery management systems, and charging systems. Students will learn to interpret diagnostic data, address advanced fault codes, and perform repairs on high-voltage components. Through in-depth instruction and hands-on training, participants will gain expertise in resolving challenging EV performance issues. This course prepares students for specialized roles in EV service and repair.

Prerequisites: AUTO 1033, AUTO 1131, AUTO 1132

Additional fees may apply

AUTO 1194 Co-op Work Experience I (3 Credits)

Cooperative education is designed to provide students supervised practical application of previously studied theory. An opportunity to focus on the development of professional and technical competencies as well as on-the-job training. Students are responsible for finding their own placement. Each credit equates to roughly one hundred hours of experience. (300 hours)

Prerequisite or corequisite:

AUTO 1030, AUTO 1031, AUTO 1033, AUTO 1036, AUTO 1038, ENG 1010, minimum 30 credits of course work completed or in progress and a 2.0 GPA, or with permission of the coordinator.

Previous: Legacy Equivalent(s): AUT* 170

AUTO 1195A General Motors Internship 1A (1 Credits)

Students participate in 100 hours of practical work experience at either a GM dealership or AC Delco repair facility during their freshman fall semester. Students will reinforce automotive skills and theory acquired during the freshman fall semester. Students will be exposed to a wide array of experiences and will become familiar with the responsibilities, workload and duties of a professional automotive technician. Students must have permission of Program Coordinator to participate in this course.

Previous: Legacy Equivalent(s): AUT* 161

AUTO 1195B General Motors Internship 1B (1 Credits)

Students participate in 100 hours of practical work experience at either a GM dealership or AC Delco repair facility during their freshman winter semester. Students will reinforce automotive skills and theory acquired during the freshman fall semester. Students will be exposed to a wide array of experiences and will become familiar with the responsibilities, workload and duties of a professional automotive technician. Students must have program coordinator permission to participate in this course.

Previous: Legacy Equivalent(s): AUT* 162

AUTO 1195C General Motors Internship 1C (1 Credits)

Students participate in 100 hours of practical work experience at either a General Motors (GM) dealership or AC Delco repair facility during their freshman spring semester. Students will reinforce automotive skills and theory acquired during the freshman fall and spring semesters. Students will be exposed to a wide array of experiences and will become familiar with the responsibilities, workload and duties of a professional automotive technician. Students must have program coordinator permission to participate in this course.

Previous: Legacy Equivalent(s): AUT* 163

AUTO 1295 General Motors Internship 2 (3 Credits)

Students participate in 300 hours of practical work experience at either a General Motors (GM) dealership or AC Delco repair facility during their freshman summer semester. Students will reinforce automotive skills and theory acquired during the freshman fall and spring semesters. Students will be exposed to a wide array of experiences and will become familiar with the responsibilities, workload and duties of a professional automotive technician. Students must have program coordinator permission to participate in this course.

Prerequisites: Program Coordinator permission is required to participate in this course.

Previous: Legacy Equivalent(s): AUT* 171

AUTO 1595 Honda Practicum 1 (1 Credits)

This is the first of five practicum courses. In this first course, students participate in 130 hours of practical work experience at either a Honda or Acura dealership to attain the program requirements of 650 hours. Students will reinforce automotive skills and theory acquired. Students will be exposed to a wide array of experiences and will become familiar with the responsibilities, workload and duties of a professional automotive technician.

Prerequisites: AUTO 1101 and AUTO 1101L

Previous: Legacy Equivalent(s): AUT* 181

AUTO 2001 General Motors Powertrain Control System (3 Credits)

Program (ASEP) program students to General Motors powertrain controls, fuel and emission system theory and repair in accordance with Automotive Service Excellence (ASE) accreditation standards. Presents content specified in the current GM dealership engine performance curriculum. Includes content covered in ASE exam A8 Engine Performance.

Prerequisites: AUTO 1010, AUTO 1016

Additional fees may apply

Previous: Legacy Equivalent(s): AUT* 201

AUTO 2003 General Motors Manual Drivetrain Systems (3 Credits)

Introduces General Motors (GM) Automotive Service Education Program (ASEP) program students to manual drivetrain theory and repair in accordance with Automotive Service Excellence (ASE) standards. Presents content specified in the current GM dealership manual drivetrain curriculum. Includes content covered in ASE exam A3 Manual Drivetrain.

Prerequisite or corequisite: AUTO 1010

Additional fees may apply

Previous: Legacy Equivalent(s): AUT* 203

AUTO 2005 General Motors Automotive Drivetrain Systems (3 Credits)

Program (ASEP) program students to automatic drivetrain theory and repair in accordance with Automotive Service Excellence (ASE) standards. Presents content specified in the current GM dealership automatic drivetrain curriculum. Includes content covered in ASE exam A2 Automatic Drivetrain.

Prerequisites: AUTO 2001

Additional fees may apply

Previous: Legacy Equivalent(s): AUT* 205

AUTO 2007 General Motors Climate Control and Safety Systems (3 Credits)

Introduces General Motors (GM) Automotive Service Education Program (ASEP) program students to climate control and safety system theory and repair in accordance with Automotive Service Excellence (ASE) standards. Environmental Protection Agency (EPA) section 609 regulations will be discussed. Presents content specified in the current GM dealership safety curriculum. Includes content covered in ASE exam A6 and A7.

Prerequisites: AUTO 1010, AUTO 1016

Additional fees may apply

Previous: Legacy Equivalent(s): AUT* 207

AUTO 2009 Honda Engine Performance Systems Theory (1 Credits)

This theory course introduces Honda Professional Automotive Career Training (PACT) program students to American Honda Motor Co., Inc. powertrain controls, fuel, and emission system theory and repair in accordance with Automotive Service Excellence (ASE) accreditation standards. Presents theory content specified in the current Honda Interactive Network (IN) fuel systems curriculum. Includes content covered in ASE exam A8 Engine Performance. Lecture Hours: 1

AUTO 2010 Honda Drivetrain Systems Theory (1 Credits)

Introduces Honda Professional Automotive Career Training (PACT) program student to Manual and Automatic drivetrain theory and repair in accordance with Automotive Service Excellence (ASE) standards. Presents theory content specified in the current Honda drivetrain curriculum. Includes content covered in ASE exam A3 Manual Drivetrain and A4 Automatic Transmission. Lecture Hour:1

AUTO 2011 Honda Engine Management Systems Theory (2 Credits)

This theory course introduces Honda Professional Automotive Career Training Program (PACT) program students to American Honda Motor Co. powertrain controls, fuel and emission system theory and repair in accordance with Automotive Service Excellence (ASE) accreditation standards. Presents theory content specified in the current Honda Interactive Network (IN) fuel systems curriculum. Includes content covered in ASE exam A8 Engine Performance.

Prerequisites: AUTO 1110L

Corequisite: AUTO 2101L

Additional fees may apply

AUTO 2012 Honda Engine Management Systems Lab (2 Credits)

This laboratory course introduces Honda Professional Automotive Career Training Program (PACT) program students to American Honda Motor Co. powertrain controls, fuel and emission system theory and repair in accordance with Automotive Service Excellence (ASE) accreditation standards. Presents laboratory content specified in the current Honda Interactive Network (IN) fuel systems curriculum. Includes content covered in ASE exam A8 Engine Performance.

Additional fees may apply

AUTO 2013 Honda Drivetrain Systems Theory (2 Credits)

Introduces Honda Professional Automotive Career Training Program (PACT) program students to Manual and Automatic drivetrain theory and repair in accordance with Automotive Service Excellence (ASE) standards. Presents theory content specified in the current Honda drivetrain curriculum. Includes content covered in ASE exam A3 Manual Drivetrain and A4 Automatic Transmission.

Prerequisites: AUTO 1101

Corequisite: AUTO 2105L

Additional fees may apply

AUTO 2014 Honda Drivetrain Systems Lab (2 Credits)

Laboratory course that introduces Honda Professional Automotive Career Training Program (PACT) program students to Manual and Automatic drivetrain theory and repair in accordance with Automotive Service Excellence (ASE) standards. Presents content specified in the current Honda drivetrain curriculum. Includes content covered in ASE exam A3 Manual Drivetrain and A4 Automatic Transmission.

Additional fees may apply

AUTO 2030 Service and Parts Department Management (3 Credits)

Presents the overall operation of the service and parts departments. Topics in this course include marketing techniques, financial analysis, personnel management, work scheduling and distribution, and use of pricing manuals. An in-depth study of parts numbering, storage, cataloging, retrieval, ordering, and stocking management techniques will be discussed. Prepares students for the Automotive Service Excellence Education Foundation (A.S.E.) C1, P2 exam.

Prerequisite or corequisite: AUTO 1030 or AUTO 1010 or with the permission of Coordinator

Previous: Legacy Equivalent(s): AUT* 226, ATP*185

AUTO 2033 Manual Drivetrain and Axles (3 Credits)

The diagnosis and repair of manual drive transmissions and transaxles. This includes clutches, drive (half) shaft, and universal joints along with rear axle and four-wheel drive components. Theory, operation, diagnosis, and repair procedures will be covered. Prepares students for the Automotive Service Excellence Education Foundation (A.S.E.) A3 exam.

Prerequisite or corequisite: AUTO 1030 or with permission of the coordinator.

Additional fees may apply

Previous: Legacy Equivalent(s): AUT* 233, ATP*261

AUTO 2035 Automotive Transmission/Transaxle (3 Credits)

The operation, diagnosis and maintenance of automatic transmission and transaxles to include in-vehicle and off-vehicle adjustments and repair. Transmission/transaxle mechanical, hydraulic and electrical operation. Service, overhaul, mechanical/electrical diagnosis procedures will be covered. Use and application of diagnostic equipment. Prepares students for the Automotive Service Excellence Education Foundation (A.S.E.) A2 exam.

Prerequisite or corequisite: AUTO 1030 and AUTO 1033 or with permission of the coordinator.

Additional fees may apply

Previous: Legacy Equivalent(s): AUT* 235, ATP*262

AUTO 2037 Heating and Air Conditioning (3 Credits)

Presents in both theory and practice, the proper procedures for the diagnosis and repair of air conditioning systems, heating, and engine cooling systems, operating systems, and related controls. Emphasis is placed on basic refrigerant cycles, heat transfer, trouble shooting, and diagnosis of both refrigerant and electronic control systems. Prepares students for the Automotive Service Excellence Education Foundation (A.S.E.) A7 exam.

Prerequisite or corequisite: AUTO 1030 and AUTO 1033 or with permission of the coordinator.

Additional fees may apply

Previous: Legacy Equivalent(s): AUT* 237, ATP*140

AUTO 2038 Advanced Engine Performance (3 Credits)

This is a continuation Engine Performance, emphasizing practical application on the cause and effect of hydrocarbon(HC), carbon monoxide (CO), and nitrous oxide (NO)_x emissions. This includes various systems diagnosis, containing but not limited to, general powertrain, computerized powertrain controls, fuel and air induction, emissions control, and inspection and maintenance (I/M) failures. Covers advanced electrical theory, diagnosis, and repair. Prepares students for the Automotive Service Excellence Education Foundation (A.S.E.) L1 exam.

Prerequisites: AUTO 1037 or with permission of the Coordinator.

Additional fees may apply

Previous: Legacy Equivalent(s): AUT* 238, ATP* 220

AUTO 2039 Light Vehicle Diesel Engines (3 Credits)

The course introduces the diesel engine, its capabilities, operations, and its unique engine fuel delivery systems. Prepares students for the Automotive Service Excellence Education Foundation (A.S.E.) A9 exam.

Prerequisite or corequisite: AUTO 1030 or with permission of the Coordinator

Additional fees may apply

Previous: Legacy Equivalent(s): ATP* 270

AUTO 2053 Honda Advanced Diagnostic Systems Theory (1 Credits)

Introduces Honda Professional Automotive Career Training (PACT) program student to automotive electrical theory and repair in accordance with Automotive Service Excellence (ASE) standards. Presents theory content specified in the current American Honda Motor Co., Inc. (AHM) dealership electrical curriculum. Includes content covered in ASE exam A6 Electrical/Electronic Systems. Lecture Hour:1

AUTO 2054 Honda Comfort and Convenience Systems Theory (1 Credits)

This theory introduces Honda Professional Automotive Career Training (PACT) program student to Comfort Control and Convenience Systems theory and repair in accordance with Automotive Service Excellence (ASE) standards. Environmental Protection Agency (EPA) section 609 regulations will be discussed. Presents theory content specified in the current Honda Interactive Network (IN) curriculum. Includes content covered in ASE exam A6 and A7. Lecture Hour:1

AUTO 2055 Honda Advanced Electrical Systems Theory (2 Credits)

This theory course introduces Honda Professional Automotive Career Training Program (PACT) program students to automotive electrical theory and repair in accordance with Automotive Service Excellence (ASE) standards. Presents content specified in the current American Honda Motor Co, Inc. (AHM) dealership electrical curriculum. Includes content covered in ASE exam A6 Electrical/Electronic Systems.

Prerequisites: AUTO 1110L

Corequisite: AUTO 2110L

Additional fees may apply

AUTO 2056 Honda Advanced Electrical Systems Lab (2 Credits)

This laboratory course introduces Honda Professional Automotive Career Training Program (PACT) program students to automotive electrical theory and repair in accordance with Automotive Service Excellence (ASE) standards. Presents laboratory content specified in the current American Honda Motor Co, Inc. (AHM) dealership electrical curriculum. Includes content covered in ASE exam A6 Electrical/Electronic Systems.

Additional fees may apply

AUTO 2057 Honda Climate Control and Safety Systems Theory (2 Credits)

This theory course introduces Honda Professional Automotive Career Training Program (PACT) program students to climate control and safety system theory and repair in accordance with Automotive Service Excellence (ASE) standards. Environmental Protection Agency (EPA) section 609 regulations will be discussed. Presents theory content specified in the current Honda Interactive Network (IN) curriculum. Includes content covered in ASE exam A6 and A7.

Prerequisites: AUTO 1101

Corequisite: AUTO 2115L

Additional fees may apply

AUTO 2058 Honda Climate Control and Safety Systems Lab (2 Credits)

This laboratory course introduces Honda Professional Automotive Career Training Program (PACT) program students to climate control and safety system theory and repair in accordance with Automotive Service Excellence (ASE) standards. Environmental Protection Agency (EPA) section 609 regulations will be discussed. Presents content specified in the current Honda Interactive Network (IN) curriculum. Includes content covered in ASE exam A6 and A7.

Additional fees may apply

AUTO 2090 Honda PACT Auto Portfolio (1 Credits)

This Honda PACT Portfolio will provide students the opportunity to build soft skills, prepare for and gain employment in an American Honda Motor Co., Inc. position as an automotive technician, porter, parts specialist, or service consultant. This course is designed to help students with employment-related skills, job attainment, and certification. The focus of Portfolio is job preparation and readiness and is designed to track the student's progress in Honda Self-Study completion and certifications for successful program completion and graduation.

Prerequisites: AUTO 1101 and AUTO 1101L or AUTO 1030

AUTO 2101 Honda Engine Performance Theory (1 Credits)

This theory course introduces Honda Professional Automotive Career Training Program (PACT) program students to American Honda Motor Co. powertrain controls, fuel and emission system theory and repair in accordance with Automotive Service Excellence (ASE) accreditation standards. Presents theory content specified in the current Honda Interactive Network (IN) fuel systems curriculum. Includes content covered in ASE exam A8 Engine Performance.

Corequisite: AUTO 2101L

AUTO 2101L Honda Engine Performance Lab (2 Credits)

This laboratory course introduces Honda Professional Automotive Career Training Program (PACT) program students to American Honda Motor Co. powertrain controls, fuel and emission system theory and repair in accordance with Automotive Service Excellence (ASE) accreditation standards. Presents laboratory content specified in the current Honda Interactive Network (IN) fuel systems curriculum. Includes content covered in ASE exam A8 Engine Performance.

Additional fees may apply

Previous: Legacy Equivalent(s): AUT* 212

AUTO 2105 Honda Drivetrain Systems Theory (1 Credits)

Introduces Honda Professional Automotive Career Training Program (PACT) program students to Manual and Automatic drivetrain theory and repair in accordance with Automotive Service Excellence (ASE) standards. Presents theory content specified in the current Honda drivetrain curriculum. Includes content covered in ASE exam A3 Manual Drivetrain and A4 Automatic Transmission.

Corequisite: AUTO 2105L

AUTO 2105L Honda Drivetrain Systems Lab (2 Credits)

Laboratory course that introduces Honda Professional Automotive Career Training Program (PACT) program students to Manual and Automatic drivetrain theory and repair in accordance with Automotive Service Excellence (ASE) standards. Presents content specified in the current Honda drivetrain curriculum. Includes content covered in ASE exam A3 Manual Drivetrain and A4 Automatic Transmission.

Additional fees may apply

Previous: Legacy Equivalent(s): AUT* 214

AUTO 2110 Honda Advanced Diagnostic Systems Theory (1 Credits)

This theory course introduces Honda Professional Automotive Career Training Program (PACT) program students to automotive electrical theory and repair in accordance with Automotive Service Excellence (ASE) standards. Presents content specified in the current American Honda Motor Co, Inc. (AHM) dealership electrical curriculum. Includes content covered in ASE exam A6 Electrical/Electronic Systems.

Prerequisites: AUTO 1110 and AUTO 1110L or AUTO 1033

Corequisite: AUTO 2110L

AUTO 2110L Honda Advanced Diagnostic Systems Lab (2 Credits)

This laboratory course introduces Honda Professional Automotive Career Training Program (PACT) program students to automotive electrical theory and repair in accordance with Automotive Service Excellence (ASE) standards. Presents laboratory content specified in the current American Honda Motor Co, Inc. (AHM) dealership electrical curriculum. Includes content covered in ASE exam A6 Electrical/Electronic Systems.

Additional fees may apply

Previous: Legacy Equivalent(s): AUT* 256

AUTO 2115 Honda Comfort and Convenience Theory (1 Credits)

This theory course introduces Honda Professional Automotive Career Training Program (PACT) program students to climate control and safety system theory and repair in accordance with Automotive Service Excellence (ASE) standards. Environmental Protection Agency (EPA) section 609 regulations will be discussed. Presents theory content specified in the current Honda Interactive Network (IN) curriculum.

Includes content covered in ASE exam A6 and A7.

Corequisite: AUTO 2115L

AUTO 2115L Honda Comfort and Convenience Lab (2 Credits)

This laboratory course introduces Honda Professional Automotive Career Training Program (PACT) program students to climate control and safety system theory and repair in accordance with Automotive Service Excellence (ASE) standards. Environmental Protection Agency (EPA) section 609 regulations will be discussed. Presents content specified in the current Honda Interactive Network (IN) curriculum. Includes content covered in ASE exam A6 and A7.

Additional fees may apply

Previous: Legacy Equivalent(s): AUT* 259

AUTO 2120 Honda Safety Systems Theory (1 Credits)

This theory course introduces Honda Professional Automotive Career Training Program (PACT) program students to American Honda Motor Co., Inc., principles of Advanced Safety Systems, including construction, operation, components, service, and repair of their systems such as Advanced Drivers Assistance Systems, Collision Mitigation Systems, Lane Keep Assist, Supplemental Restraint Systems, Intelligent Air Bags, and other advanced safety systems in accordance with the Automotive Service Excellence (ASE) standards. Presents theory content specified in the current American Honda Motor Co., Inc. dealership curriculum. Includes content covered in ASE exams L4 ADAS Specialist Certification, A6 Electrical & Electronic Systems, and portions of B5 Collision Repair Test.

Prerequisites: AUTO 1110 and AUTO 1110L or AUTO 1033

Corequisite: AUTO 2120L

Additional fees may apply

AUTO 2120L Honda Safety Systems Lab (2 Credits)

This laboratory course introduces Honda Professional Automotive Career Training Program (PACT) program students to American Honda Motor Co., Inc. principles of Advanced Safety Systems, including construction, operation, components, service, and repair of their systems such as Advanced Drivers Assistance Systems, Collision Mitigation Systems, Lane Keep Assist, Supplemental Restraint Systems, Intelligent Air Bags, and other advanced safety systems in accordance with Automotive Service Excellence (ASE) standards. Presents theory content specified in the current American Honda Motor Co., Inc. dealership curriculum. Includes content covered in ASE exams L4 ADAS Specialist Certification, A6 Electrical & Electronic Systems, and portions of B5 Collision Repair Test.

AUTO 2294 Co-op Work Experience II (3 Credits)

Cooperative education is designed to provide students supervised practical application of previously studied theory. An opportunity to focus on the development of professional and technical competencies as well as on-the-job training. Students are responsible for finding their own placement. Each credit equates to roughly one hundred hours of experience. (300 hours)

Prerequisites: Co-op I and a minimum of 40 credits of course work completed or in progress and a 2.0 GPA, or with permission of Coordinator.

Previous: Legacy Equivalent(s): AUT* 270, ATP*291

AUTO 2394 Co-op Work Experience III (3 Credits)

Cooperative education is designed to provide students supervised practical application of previously studied theory. An opportunity to focus on the development of professional and technical competencies as well as on-the-job training. Students are responsible for finding their own placement. Each credit equates to roughly one hundred hours of experience. (300 hours)

Prerequisites: Co-op II and a minimum of 40 credits of course work completed or in progress and a 2.0 GPA, or with permission of Coordinator.

Previous: Legacy Equivalent(s): AUT* 272

AUTO 2395A General Motors Internship 3A (1 Credits)

Students participate in 100 hours of practical work experience at either a General Motors (GM) dealership or AC Delco repair facility during their sophomore fall semester. Students will reinforce automotive skills and theory acquired during the sophomore fall semester. Students will be exposed to a wide array of experiences and will become familiar with the responsibilities, workload and duties of a professional automotive technician.

Previous: Legacy Equivalent(s): AUT* 261

AUTO 2395B General Motors Internship 3B (1 Credits)

either a General Motors (GM) dealership or AC Delco repair facility during their sophomore winter semester. Students will reinforce automotive skills and theory acquired during the sophomore fall semester. Students will be exposed to a wide array of experiences and will become familiar with the responsibilities, workload and duties of a professional automotive technician.

Previous: Legacy Equivalent(s): AUT* 262

AUTO 2395C General Motors Internship 3C (1 Credits)

Students participate in 100 hours of practical work experience at either a General Motors (GM) dealership or AC Delco repair facility during their sophomore spring semester. Students will reinforce automotive skills and theory acquired during the sophomore fall and spring semesters. Students will be exposed to a wide array of experiences and will become familiar with the responsibilities, workload and duties of a professional automotive technician.

Previous: Legacy Equivalent(s): AUT* 263

AUTO 2495 General Motors Internship 4 (3 Credits)

Students participate in 300 hours of practical work experience at either a General Motors (GM) dealership or AC Delco repair facility during their sophomore summer semester. Students will reinforce automotive skills and theory acquired during the sophomore fall and spring semesters. Students will be exposed to a wide array of experiences and will become familiar with the responsibilities, workload and duties of a professional automotive technician.

Prerequisites: Program Coordinator permission is required to attend this course.

Previous: Legacy Equivalent(s): AUT* 271

AUTO 2595 Honda Practicum 2 (1 Credits)

This is the second of five practicum courses. In this second course, students participate in 130 hours of practical work experience at either a Honda or Acura dealership to attain the program requirements of 650 hours. Students will reinforce automotive skills and theory acquired. Students will be exposed to a wide array of experiences and will become familiar with the responsibilities, workload and duties of a professional automotive technician.

Prerequisites: AUTO 1101, AUTO 1101L

Previous: Legacy Equivalent(s): AUT* 281

AUTO 2695 Honda Practicum 3 (1 Credits)

This is the third of five practicum courses. In this third course, students participate in 130 hours of practical work experience at either a Honda or Acura dealership to attain the program requirements of 650 hours. Students will reinforce automotive skills and theory acquired. Students will be exposed to a wide array of experiences and will become familiar with the responsibilities, workload and duties of a professional automotive technician.

Prerequisites: AUTO 1101, AUTO 1101L

Previous: Legacy Equivalent(s): AUT* 283

AUTO 2795 Honda Practicum 4 (1 Credits)

This is the fourth of five practicum courses. In this fourth course, students participate in 130 hours of practical work experience at either a Honda or Acura dealership to attain the program requirements of 650 hours. Students will be exposed to a wide array of experiences and will become familiar with the responsibilities, workload and duties of a professional automotive technician.

Prerequisites: AUTO 1101, AUTO 1101L

Previous: Legacy Equivalent(s): AUT* 284

AUTO 2895 Honda Practicum 5 (1 Credits)

This is the fifth of five practicum courses. In this fourth course, students participate in 130 hours of practical work experience at either a Honda or Acura dealership to attain the program requirements of 650 hours. Students will be exposed to a wide array of experiences and will become familiar with the responsibilities, workload and duties of a professional automotive technician.

Prerequisites: AUTO 1101, AUTO 1101L

Previous: Legacy Equivalent(s): AUT* 285