

Chrysler College Automotive Program

The Career

Dunwoody's Chrysler College Automotive Program (DCAP) graduates are able to enter the industry as Chrysler factory trained technicians capable of diagnosing and repairing all aspects of the automobile including the mechanical, electronic and computerized systems of today's automobiles and light truck. This manufacturer-supported program makes Dunwoody automotive graduates even more valuable to dealerships.

	Entry-level	Experienced
Service Technician salary:	\$31,717 - \$32,653	\$45,758 - \$55,654

Sources: AASP-MN 2007 Salary Survey

The Program

CAP students gain cutting-edge skills in electrical, computer controls, wireless communication, telematics, HVAC, diesel, mechanical systems and many others areas. The program is internship based, enabling students to spend a portion of their time in a paid internship at a sponsoring Chrysler, Dodge or Jeep dealership. All Dunwoody CAP instructors are certified as Master Technicians by the National Institute for Automotive Service Excellence (ASE). The National Automotive Technicians Education Foundation (NATEF), the branch of ASE which certifies and accredits automotive education programs has certified Dunwoody in all areas of service and repair. Student automotive books and training materials are furnished by Chrysler after the first two quarters of the program. Chrysler has awarded Dunwoody its Outstanding Achievement Award for Innovative Ideas, illustrating the success of the longtime partnership between Chrysler and Dunwoody.

Program Length

This is an eight-quarter program, each lasting 12 weeks. With 116 credits, students graduate with an Associate of Applied Science (A.A.S.) degree. There is also a One Year CAP option available for graduates of post-secondary automotive programs. Graduates who want to become Chrysler Factory Certified are able to do so with only four-quarters of classes.

Applying to Dunwoody is easy

To apply online, visit dunwoody.edu. Or, to speak with a Dunwoody Admissions representative, call 612-374-5800 or 800-292-4652.

Dunwoody's Admissions team is committed to working with you to ease and simplify the admissions process and provide all the necessary information regarding our academic programs, degree opportunities, financial aid, expectations and everything else that enters into such an important decision.

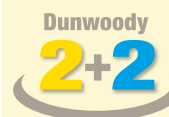
Other exciting Dunwoody Automotive Technology programs and degree options are available. Visit dunwoody.edu for complete details.

A.A.S. Degree Requirements

AUTO124	Engine Fundamentals
AUTO125	Brake Operation & Repair
AUTO126	General Skills
AUTO127	Wheel Alignment & Suspension
AUTO128	Drive Train Operation & Repair
AUTO171	Electrical & Electronic Principles
AUTO172	Starting & Charging Systems
AUTO173	Introduction to Ignition & Computer Systems
AUTO174	Computer Controls & Testing
DCAP102	Chrysler Curriculum Level I Completion
DCAP125	Anti Lock Brakes
DCAP131	Fuel Systems
DCAP132	Fund of Instruments, Acc & Wiring
DCAP133	Air Conditioning
DCAP141	Engine Principles and Practices
DCAP142	Manual Trans & Axle Diagnosis & Repair
DCAP143	Automatic Transmission Principles
DCAP144	Auto Transmission Advanced Principles
DCAP151	Chrysler Vehicle Performance
DCAP201	Chrysler Internship 1
or	
DCAP210	Chrysler Internship 1A
DCAP211	Chrysler Internship 1B
DCAP202	Chrysler Internship 2
or	
DCAP212	Chrysler Internship 2A
DCAP213	Chrysler Internship 2B
DCAP203	Chrysler Internship 3
or	
DCAP214	Chrysler Internship 3A
DCAP215	Chrysler Internship 3B
DCAP204	Chrysler Internship 4
or	
DCAP216	Chrysler Internship 4A
DCAP217	Chrysler Internship 4B
DCAP205	Chrysler Internship 5
or	
DCAP218	Chrysler Internship 5A
DCAP219	Chrysler Internship 5B
DCAP206	Chrysler Internship 6
or	
DCAP220	Chrysler Internship 6A
DCAP221	Chrysler Internship 6B
COMM100	Communication Theory & Practice
COMM101	Electronic Communications
ENGL101	Composition
MATH103	Applications for Automotive
QUAL110	Fundamentals of Quality for Service
RSCH100	Research Strategies



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Dunwoody's 2+2 concept means every graduate of a Dunwoody two-year associate's degree program is qualified to be admitted into one of our breakthrough bachelor's degree programs if they would like to continue their education.

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Course Descriptions

AUTO124 - Engine Fundamentals

This class covers component names, purpose and operation for the following engine systems: cooling, lubrication, valve, piston, rings, crankshafts, bearings and exhaust.

AUTO125 - Brake Operation and Repair

Theory of design, principles of operation, and diagnosis and repair procedures for the following systems: drum brakes, disc brakes, power brakes and hydraulic system components.

AUTO126 - General Skills

Identification and description of fasteners and fittings, use of measuring instruments, oxyacetylene torch procedures, drilling and tapping, and tool use.

AUTO127 - Wheel Alignment and Suspension

Theory of design, principles of operation, diagnosis, troubleshooting and repair procedures; front suspension, rear suspension, steering systems. Two- and four-wheel alignment principles and procedures.

AUTO128 - Drive Train Operation and Repair

Theory of design, principles of operation, diagnosis, troubleshooting and repair procedures for drive axles, drive shafts, universal joints, differentials and clutches.

AUTO171 - Electrical & Electronic Principles

Studies will include the theory and principles of Ohm's Law, circuit laws, magnetism, electromagnetism, induction and basic electronics including sensors and semiconductors; the use of voltmeters, ohmmeters and ammeters to check electrical circuits and the testing and tracing of electrical circuits.

AUTO172 - Starting & Charging Systems

Batters, Cranking and Charging system components, circuits, operation and testing will be covered, including: Battery construction, operation and testing, cranking motor circuit testing; alternators and regulators including charging output, voltage regulator and charging circuit testing; students will also be introduced to computer controlled starting and charging systems.

AUTO173 - Intro to Ignition & Computer Systems

Studies will include the principles of ignition system operation including primary and secondary circuit components, operation, diagnosis and repair. Also covered will be the fundamentals of computer inputs and outputs along with the use of Lab Scopes and Scan Tools in evaluating sensors and systems.

AUTO174 - Computer Controls & Testing

Along with a study of advanced computer inputs and outputs, students will: use a variety of Scan Tools to retrieve data and diagnose system conditions; be familiarized with hybrid vehicle components and operation along with the components and operation of inverters and converters.

DCAP102 - Chrysler Curriculum Level 1 Completion

This course is designed to familiarize the student with the Chrysler service system, by introducing them to resources, tools and training provided by Chrysler. It also involves providing the student exposure to basic body mechanical, steering/suspension and electrical/electronic systems. The student completing this course will complete three of the four courses needed in obtaining level one training in the Chrysler Core Curriculum.

DCAP125 - Anti Lock Brakes

In this course the student will learn the fundamental purpose and operation of typical Antilock Brake Systems (ABS). ABS inputs, outputs, controller initialization, diagnostic and communications are described for various systems. A brief explanation of premium controller software programs such as Traction Control, Electronic Brake Distribution, Electronics Stability Control are also covered. It also will provide the student the opportunity to obtain hands on experience diagnosing Chrysler ABS.

DCAP131 - Fuel Systems

This course introduces the student to the basics of fuel and fuel delivery from the fuel tank to the injectors. The evaporative emission leak detection subsystem is also covered. There is an emphasis placed on proper use of the EELD (Evaporative Emission Leak Detector). The course also provides a basic explanation on the correct procedures in updating engine controller software with Chrysler Diagnostic equipment.

DCAP132 - Fund of Instruments, Acc & Wiring

To become familiar with the advanced electrical areas of automotive technology found on current Chrysler vehicles, by thoroughly examining the location and function of related system components. This course concentrates on fundamental skills enhancement by focusing on the finer points of systems found on vehicles built by Chrysler.

DCAP133 - Air Conditioning

This course is designed to introduce the student to the fundamental theories of automotive air conditioning. The course covers the principles of heat transfer, system components, controls and operation as well as refrigerant service procedures. This course provides practical experience diagnosing and servicing the Air Conditioning (A/C) systems in Chrysler vehicles.

DCAP141 - Engine Principles and Practices

After completing this course the student will have a basic understanding of four-stroke internal combustion engines and the ability to understand diagnostic procedures, engine measurements, engine diagnostics. The student will learn the proper use of tools to diagnose an engine problem and proper procedures to disassemble and assemble an engine. In addition, the student will also learn to diagnose, repair and verify the repair of NVH concerns in the areas of engine, driveline, wheel and tire groups.

DCAP142 - Manual Trans & Axle Diagnosis & Repair

This course reviews all manual transmission components, operation, power flow, diagnosis and parts inspection. There is an emphasis placed on proper use of special tools and their applicable service procedures. The course also provides a basic explanation and examination of axle, differential, and four wheel drive fundamental operations.

DCAP143 - Automatic Transmission Principles

This course reviews all automatic transmission components, operation, power flow, diagnosis, disassembly and assembly. This course is designed for the student that has little background in automatic transmission service. Emphasis is placed on a thorough understanding of transmission hydraulic basics.

DCAP144 - Auto Transmission Advanced Principles

This course provides a description of all mechanical, hydraulic and electrical system components used on FWD and RWD automatic transmissions. A major emphasis of this course focuses on the necessary knowledge skills and abilities required to service a electronically controlled transmission. Identification and application of transmission components are covered. Use of diagnostic tools, test procedures, road test requirements and generic transmission overhaul skills are covered.

DCAP151 - Chrysler Vehicle Performance

This course contains information regarding the Speed Density fuel systems used on most Chrysler Group vehicles, along with explaining OBDII requirements and why they are necessary. The course will focus on the identification and testing of controller inputs and outputs along with power and ground circuits. It will also describe current emission control systems, the use of diagnostic tools, and identifying diagnostic trouble codes (DTCs) and monitors.

DCAP201 - Chrysler Internship 1

Student will do an internship at their sponsoring Chrysler dealership. The student will follow the procedures outlined in the DCAP Internship manual. The student will work under the supervision of the dealership service management. The Dunwoody CAP coordinator will oversee the internship.

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DCAP221 - Chrysler Internship 6B

Student will do an internship at their sponsoring Chrysler dealership. The student will follow the procedures outlined in the DCAP internship manual. The student will work under the supervision of the dealership service management. The Dunwoody CAP coordinator will oversee the internship. This half internship course is designed for students who cannot serve a full 240 hour internship during the quarter. When combined with Chrysler Internship 6A (DCAP220), they will fulfill the necessary credit needed for DCAP206