

Student Hours:

Atlantic Technical College Automotive Service Technology Program Syllabus 2017-2018



Instructor Name: Dan Bond & Andy Smith

Department Name: Automotive

Office/Classroom Location: Bldg. 17, Room 298 & Portable 15

Phone Number: 754 321-5196 Bond

754-321-5100 Smith

Email Address: daniel.bond@browardschools.com

andy.smith@browardschools.com

Instructor Office Hours: M-F: 1:50 PM - 3:50 PM (by appointment only)

Program Name: Automotive Service Technology

Monday – Friday		Career Cluster: Transportation, Distribution and Logistics		
7:05 AM – 1:50 PM	OCP	Course Name / Title	Hours/Days	
Lunah	Α	Automotive Service Assistor	300hr 50	
Lunch 10:05 AM – 10:35 AM	В	Engine Repair	150hr 25	
	С	Auto Transmission and	150hr 25	
Break		Transaxle		
10:35 AM - 10:50 AM	D	Manual Drivetrain and Axle	150hr 25	
101007	E	Suspension and Steering	150hr 25	
NOTE: All students are expected to	F	Automotive Brakes	150hr 25	
be present during their entire	G	Electrical/Electronic Systems	300hr 50	
scheduled class time(s). All	Н	Heating and Air Conditioning	150hr 25	
classroom breaks will occur on an "as	I	Engine Performance	300hr 50	
needed" basis. The wall clock in the			1800 hours/	
classroom will serve as the official			300 Days	
time.				

Technical College Policy/Adult Student Attendance:

- A student must be withdrawn after being absent for six (6) consecutive days.
- Two (2) additional absences may be allowed under certain circumstance with appropriate documentation.
- Please refer to the Broward Technical College Student Handbook for postsecondary students: http://www.atlantictechnicalcollege.edu/atc-student-handbook/

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Required Book(s) and/or Online Access

Available for purchase at the ATC Bookstore:

- Modern Automotive Technology Textbook
- Modern Automotive Technology Workbook
- Modern Automotive Technology / Shop Manual
- Motor Age A-1 to A-8 Training Books

Required Materials/Supplies

Purchased from ATC Bookstore:

- Unex Safety Glasses
- Notebooks
- Writing Utensils (pen and pencil)
- Pocket Flash Light

Grading System:

Α	90 - 100%
В	80 - 89%
С	70 - 79%
D	60 - 69%
F	0 - 59%
1	Incomplete

Additional Program Specific Grading Information:

Lab	40%
Module Tests	20%
Workbook/ Quiz	15%
Electude Online Course	15%
Daily Grade	10%

Lab Work:

Each course requires that the student must have the following percentage of lab work competed:

- P1-95%
- P2-80%
- P3-50%

Online Course Grading Policy:

- Electude courses must have a 70% or higher to complete the course.
- Quizzes and tests will be graded on first attempts only. (NO Resets)
- Failure to complete a course before the due date will result in a zero grade for that course quiz.

View Your Grades:

Grades can be viewed online by following the directions below:

- 1. Go to https://browardfocus.com (access FOCUS using Chrome, Firefox or Safari)
- 2. Student ID which is on your student schedule.
- 3. Passcode: Student's date of birth formatted as YYYYMMDD. Four digits for the year, two digits for the month and two digits for the day.

Class Room/ Lab Rules:

- 1. Must complete safety online course and pass the safety test with a 90% or better before working in shop.
- 2. Must wear safety glasses at all times when in shop.
- 3. Do not use equipment if you have not been trained to use it correctly.
- 4. Must have proper shop clothing to work (no flip flops, loose fitting clothing, etc.)
- 5. Clean any oil spills immediately.
- 6. Do not distract anyone who is working on a project.
- 7. No running or throwing things
- 8. All vehicles in the shop must have a repair order before work can begin.
- 9. The keys of any vehicle in the shop will be given to the instructor and not returned until the vehicle has been cleared by the instructor.

10. Be aware of what is going on around you at all times.

<u>Please Note:</u> Working in the shop is a privilege that can be revoked if these rules are not followed.

ASE Industry Credentials:

A1 Engine Repair

A2 Automatic Transmission & Transaxles

A3 Manual Transmission & Drivetrain

A4 Brakes

A5 Suspension & Steering

A6 Electrical

A7 Heating & Air Conditioning

A8 Engine Performance

ASE Certification: Students are eligible to take all

eight (8) ASE tests (A1 - A8).

Exam Fee is \$37 per Computer - based test.

Registration Fee is \$36 per registration.

Students may take more than one exam at a time.

ASE tests are given off-site.

Maximum cost per Computer - based testing is \$75.

Outstanding Student Recognition Information:

A gold seal will be applied to a Program Completion Certificate or an Applied Technology Diploma if the student has earned a 3.5 GPA or higher in their Career and Technical Education (CTE) classes.

Program Name: Automotive Service Technology

Course Number: AER0014

Course Name: Automotive Services Assistor

Occupational Completion Point: A

Intended Outcomes:

1.0 - Proficiently explain and apply required shop and personal safety tasks relating to the automotive industry.

- 2.0 Explain and apply required tasks associated with the proper use and handling of tools and equipment relating to the automotive industry.
- 3.0 Demonstrate proficiency in preparing vehicle for routine pre/post maintenance and customer services.

Course Number: AER0110

Course Name: Engine Repair Technician Occupational Completion Point: B

Intended Outcome:

4.0 - Explain and apply proficiently the diagnosis, service and repair of engines, cylinder heads, valve train, engine block, lubrication and cooling systems.

Course Number: AER0257

Course Name: Automatic Transmission and Transaxle Technician

Occupational Completion Point: C

Intended Outcome:

5.0 - Explain and apply proficiently the diagnosis, service, repair and overhaul of automatic transmissions.

Course Number: AER0274

Course Name: Manual Drivetrain and Axle Technician

Occupational Completion Point: D

Intended Outcome:

6.0 - Explain and apply proficiently the diagnosis, service and repair of manual drivetrains, clutches, transmissions/transaxles, drive and half-shaft universals, constant velocity joints, rear axle differential assembly, limited slip, four-wheel drive and all-wheel drive.

Course Number: AFR0453

Course Name: Automotive Suspension and Steering Technician

Occupational Completion Point: E

Intended Outcome:

7.0 - Explain and apply proficiently the diagnosis, service and repair of front and rear suspensions systems, wheel alignment, and wheels and tires.

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Course Number: AER0418

Course Name: Automotive Brake System Technician

Occupational Completion Point: F

Intended Outcome:

8.0 - Explain and apply proficiently the diagnosis, service and repair of drum\disc brake, hydraulics, power assist units, electronic brakes, traction control, stability control systems and miscellaneous (wheel bearings, parking brake, electrical, etc.) systems.

Course Number: AER0360

Course Name: Automotive Electrical/Electronic System Technician

Occupational Completion Point: G

Intended Outcome:

9.0- Explain and apply proficiently the diagnosis, service and repair of electrical/electronic system components, battery, starting, charging, lighting, gauges, warning devices, driver information, horn, wiper/washer and accessory systems.

Course Number: AER0172

Course Name: Automotive Heating and Air Conditioning Technician

Occupational Completion Point: H

Intended Outcome:

10.0- Explain and apply proficiently the diagnosis, service and repair of heating and air conditioning, refrigeration, compressors, compressor clutches, evaporators, receiver driers, accumulators, condensers, heating and engine cooling, related control systems, refrigerant recovery, and recycling and handling.

Course Number: AER0503

Course Name: Automotive Engine Performance Technician

Occupational Completion Point: |

Intended Outcome:

11.0- Explain and apply proficiently the diagnosis, service and repair of engines, ignition, fuel, air induction, exhaust, computer engine and emission control systems.

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