



# Atlantic Technical College Automotive Service Technology Program Syllabus 2018-2019



**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)

**Student Hours:**  
**Monday – Friday**  
**7:05 AM – 1:50 PM**  
  
**Lunch**  
**10:05 AM – 10:35 AM**  
  
**Break**  
**10:35 AM – 10:50 AM**  
  
*NOTE: All students are expected to be present during their entire scheduled class time(s). All classroom breaks will occur on an “as needed” basis. The wall clock in the classroom will serve as the official time.*

**Program Name:** Automotive Service Technology  
**Career Cluster:** Transportation, Distribution and Logistics

OCP	Course Name / Title	Hours/Days
A	Automotive Service Assistor	300hr 50
B	Engine Repair	150hr 25
C	Auto Transmission and Transaxle	150hr 25
D	Manual Drivetrain and Axle	150hr 25
E	Suspension and Steering	150hr 25
F	Automotive Brakes	150hr 25
G	Electrical/Electronic Systems	300hr 50
H	Heating and Air Conditioning	150hr 25
I	Engine Performance	300hr 50
		<b>1800 hours/ 300 Days</b>

**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- A student must be withdrawn after being absent for six (6) consecutive days.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/>

<p><b>Required Book(s) and/or Online Access</b> Available for purchase at the ATC Bookstore:</p> <ul style="list-style-type: none"> <li>• Modern Automotive Technology Textbook</li> <li>• Modern Automotive Technology Workbook</li> <li>• Modern Automotive Technology / Shop Manual</li> <li>• Motor Age A-1 to A-8 Training Books</li> </ul>	<p><b>Required Materials/Supplies</b> Purchased from ATC Bookstore:</p> <ul style="list-style-type: none"> <li>• Unex Safety Glasses</li> <li>• Notebooks</li> <li>• Writing Utensils (pen and pencil)</li> <li>• Pocket Flash Light</li> </ul>										
<p><b>Grading System:</b></p> <p>A 90 - 100% B 80 - 89% C 70 - 79% D 60 - 69% F 0 - 59% I Incomplete</p>	<p><b>Additional Program Specific Grading Information:</b></p> <table border="0"> <tr> <td>Lab</td> <td>40%</td> </tr> <tr> <td>Module Tests</td> <td>20%</td> </tr> <tr> <td>Workbook/ Quiz</td> <td>15%</td> </tr> <tr> <td>Electude Online Course</td> <td>15%</td> </tr> <tr> <td>Daily Grade</td> <td>10%</td> </tr> </table>	Lab	40%	Module Tests	20%	Workbook/ Quiz	15%	Electude Online Course	15%	Daily Grade	10%
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<p><b>Lab Work:</b></p> <p>Each course requires that the student must have the following percentage of lab work competed:</p> <ul style="list-style-type: none"> <li>• P1- 95%</li> <li>• P2- 80%</li> <li>• P3- 50%</li> </ul>	<p><b>Online Course Grading Policy:</b></p> <ul style="list-style-type: none"> <li>• Electude courses must have a 70% or higher to complete the course.</li> <li>• Quizzes and tests will be graded on first attempts only. (NO Resets)</li> <li>• Failure to complete a course before the due date will result in a zero grade for that course quiz.</li> </ul>										
<p><b>View Your Grades:</b> <b>Grades can be viewed online by following the directions below:</b></p> <ol style="list-style-type: none"> <li>1. Go to <a href="https://browardfocus.com">https://browardfocus.com</a> (access FOCUS using Chrome, Firefox or Safari)</li> <li>2. Student ID which is on your student schedule.</li> <li>3. Passcode: Student's date of birth formatted as YYYYMMDD. <i>Four digits for the year, two digits for the month and two digits for the day.</i></li> </ol>											
<p><b>Class Room/ Lab Rules:</b></p> <ol style="list-style-type: none"> <li>1. Must complete safety online course and pass the safety test with a 90% or better before working in shop.</li> <li>2. Must wear safety glasses at all times when in shop.</li> <li>3. Do not use equipment if you have not been trained to use it correctly.</li> <li>4. Must have proper shop clothing to work (no flip flops, loose fitting clothing, etc.)</li> <li>5. Clean any oil spills immediately.</li> <li>6. Do not distract anyone who is working on a project.</li> <li>7. No running or throwing things</li> <li>8. All vehicles in the shop must have a repair order before work can begin.</li> <li>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.</li> </ol>											

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

**Please Note:** 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:** AER0453

**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.

**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:** I

**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.

The School Board of Broward County, Florida, prohibits any policy or procedure which results in discrimination on the basis of age, color, disability, gender identity, gender expression, national origin, marital status, race, religion, sex or sexual orientation. Individuals who wish to file a discrimination and/or harassment complaint may call the Director, Equal Education Opportunities/ADA Compliance Department at 754-321-2150 or Teletype Machine (TTY) 754-321-2158. Individuals with disabilities requesting accommodations under the Americans with Disabilities Act Amendments Act of 2008, (ADAAA) may call Equal Educational Opportunities/ADA Compliance Department at 754-321-2150 or Teletype Machine (TTY) 754-321-2158.