SYLLABUS

Code: AUTO298
Title: Automotive Capstone Seminar

Institute: STEM
Department: Automotive

Course Description: This course is designed to be the capstone course for the automotive program in which students will review and demonstrate all curriculum content areas previously learned in their automotive area of study. Through guided lessons and assignments, students will prepare for the end-of-program proficiency test where they will demonstrate mastery of their skills and abilities necessary for the complete automotive area of study. This course is the final automotive course in the series and should only be taken in the fourth or final semester.

Prerequisites: All required Automotive 100-level courses

Corequisites: AUTO 213, AUTO 222, AUTO 226, AUTO 241, AUTO 243

Prerequisites or Corequisites: AUTO 213, AUTO 222, AUTO 226, AUTO 241, AUTO 243

Credits: 1
Lecture Hours: 1
Lab/Studio Hours: 0

Required Textbook/Materials:
Student textbook to be determined by instructor.

Additional Time Requirements:
Students will be required to complete an end-of-program skills proficiency test of approximately 90 minutes in length within the last 2 weeks of the term.

Course Learning Outcomes:
Upon completion of this course, students will be able to:
- Communicate knowledge of all major automotive concepts previously required through the students’ progression in the program and reflect on their automotive skills and abilities.
- Demonstrate proficiency in all major automotive skills previously learned through the students’ progression in the program.

Grading Standard: Grade will be determined by a comprehensive final exam. Grades will be distributed based on the percentage of questions answered correctly as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>95 - 100</td>
</tr>
<tr>
<td>A-</td>
<td>92 - 94</td>
</tr>
<tr>
<td>B+</td>
<td>88 - 91</td>
</tr>
<tr>
<td>B</td>
<td>84 - 87</td>
</tr>
<tr>
<td>B-</td>
<td>80 - 83</td>
</tr>
<tr>
<td>C+</td>
<td>75 - 79</td>
</tr>
<tr>
<td>C</td>
<td>70 - 74</td>
</tr>
<tr>
<td>D</td>
<td>60 - 69</td>
</tr>
<tr>
<td>F</td>
<td>Below 60</td>
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<tr>
<td>INC</td>
<td>This grade is given at the discretion of the instructor. Minimally, the student must have completed 70% of both the classroom and laboratory assignments at a satisfactory level.</td>
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It is the student’s responsibility to approach the instructor to request an INC grade prior to the end of the term. Incomplete assignments must be completed within 21 working days after the end of the term in which they received INC grade.

*** With instructor approval, students with a near passing grade who have previously shown above satisfactory performance throughout the program may retake the test after a post-test consultation where the student’s individual test performance is discussed and additional learning strategies are proposed.

COURSE CONTENT:
For each unit, students will review the material learned at various stages in the Automotive Technologies Program. At the end of each unit, an assignment will be given to gauge students’ understanding and retention of the material. The following unit topics will be presented in the course.

- Unit 1: Engine Repair
- Unit 2: Automatic Transmission
- Unit 3: Manual Drivetrain and Axles
- Unit 4: Suspension and Steering
- Unit 5: Brakes
- Unit 6: Electrical/Electronic Systems
- Unit 7: Heating and Air Conditioning
- Unit 8: Engine Performance
- Unit 9: Communicating with customers and team members

DEPARTMENT POLICIES:
For Department Policies, please refer to our website at:
https://www.brookdalecc.edu/stem-institute/automotive-technology/

COLLEGE POLICIES:
For information regarding:
- Brookdale’s Academic Integrity Code
- Student Conduct Code
- Student Grade Appeal Process

Please refer to the BCC STUDENT HANDBOOK AND BCC CATALOG.

NOTIFICATION FOR STUDENTS WITH DISABILITIES:
Brookdale Community College offers reasonable accommodations and/or services to persons with disabilities. Students with disabilities who wish to self-identify must contact the Disabilities Services Office at 732-224-2730 (voice) or 732-842-4211 (TTY) to provide appropriate documentation of the disability, and request specific accommodations or services. If a student qualifies, reasonable accommodations and/or services, which are appropriate for the college level and are recommended in the documentation, can be approved.

ADDITIONAL SUPPORT/LABS:
The Automotive Department is located in the MAS (Main Academic South) Building.

FACULTY
- Paul Tucker 732-224-2878
  Professor Dept. Chair, Automotive
- Robert McClure 732-224-2536
  Assistant Professor
- Douglas Welsh 732-224-2454
  Professor
- Ivan Anderson 732-224-2778
  Instructor
- plucker@brookdalecc.edu
- rmcluire@brookdalecc.edu
- dwelsh@brookdalecc.edu
- ianderson@brookdalecc.edu
### SYLLABUS

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<th>STAFF</th>
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<tbody>
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<td><em>Richard Burd</em></td>
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<td>FAX: 732-530-7572</td>
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The syllabus is intended to give student guidance in what may be covered during the semester and will be followed as closely as possible. However, the faculty member reserves the right to modify, supplement, and make changes as the need arises.