



Cerritos College
ARTICULATION AGREEMENT

<p>Cerritos College Course: AUTO 100 – Automotive Maintenance and Operation (4 units)</p> <p>Cerritos College 11110 Alondra Blvd. Norwalk, CA 90650</p>	<p>High School Course: Automotive 1 A/B</p> <p>Norwalk High School 11356 Leffingwell Rd. Norwalk, CA 90650</p>
<p>General Course Description: This course is a study of the different components and subsystems of today's modern automobiles. The class is designed to inform students of the different routes one can take to achieve their career goal to become a technician including community college, trade schools, as well as four-year university for engineering programs to ensure students are prepared for where technology is headed in the future. Given the nature of the automotive profession, students will also make connections to concepts that are studied cross-curricular. These concepts will include algebra, basic arithmetic, physics, electrical, computer and chemical sciences. Students will engage critically on how mathematical and scientific concepts are directly and indirectly tied to careers in the automotive and transportation professions. By the end of the course, students will have basic knowledge of the automotive industry including careers, safety practices, shop equipment and tools, and automotive maintenance and repairs.</p>	
<p>College Prerequisite(s): None</p>	<p>HS Prerequisite(s): None</p>
<p>Advisories/Recommendations: None</p>	
<p>Course Content:</p> <ol style="list-style-type: none"> 1. Careers in Automotive Industry 2. Shop Safety, Environmental & Hazardous Materials 3. Tools & Measuring Systems 4. Automotive Math 5. Service Information & Under the Hood Inspection 6. Engines 7. Wiring Schematics & Electrical Foundations 8. Heating, Ventilation, & Air Conditioning (HVAC) 9. Ecological Trends 10. Brakes, Tires, & ABS System 11. Manual & Automatic Transmission & Transaxles 12. Fuel & Ignition System 	

Competencies and Skill Requirements.**At the conclusion of this course, the student should be able to:**

1. Comply with safety, environmental regulations and standards.
2. Explain the operation of vehicle systems.
3. Identify and describe the operation of related vehicle components.
4. Identify and properly use tools and equipment.
5. Perform basic maintenance and service procedures according to industry standards.
6. Access service information and specifications using electronic & printed sources.
7. Recognize the various career opportunities in the automotive industries.

Measurement Methods:

- Homework
- Classwork (including labs)
- Projects
- Quizzes and Tests
- Portfolio

Textbooks or Other Support Materials:

“Modern Automotive,” 10th edition, by James E. Duffy (2020)

Procedures for Course Articulation:

Cerritos College credit for the articulated course listed above may be received when the following criteria are met:

1. Student has completed the articulated course listed above, *Automotive 1 A/B*, with a grade of “B” or higher.
3. Student must enroll at Cerritos College within two (2) years from the semester date in which the course was completed.
4. Student will complete and submit the Cerritos College *Petition for Credit by Examination for Articulated High School Course* form to the Office of Educational Partnerships & Programs at Cerritos College.
5. A maximum of 30 units may be awarded through credit by examination.

This Agreement will be reviewed annually and will remain in effect until cancelled by either party giving 30 days written notice.

High School/ROP District Signatures**Cerritos College Signatures**

 <small>Kenneth Cook (May 30, 2023 17:41 PDT)</small>	May 30, 2023	 <small>Joe Mulleary</small>	Jun 2, 2023
Faculty/Department Chair	Date	Instructor/Division Chair	Date
 <small>David Oles</small>	May 30, 2023	 <small>Yannick Reim (Jun 2, 2023 16:05 PDT)</small>	Jun 2, 2023
Principal	Date	Dean of Instruction	Date
 <small>Dr. John Lopez (Jun 2, 2023 14:52 PDT)</small>	Jun 2, 2023	 <small>Wei Zhou (Jun 2, 2023 22:42 PDT)</small>	Jun 2, 2023
Superintendent	Date	Vice President	Date