SAN LEANDRO UNIFIED SCHOOL DISTRICT
COURSE PROPOSAL: Course of Study
SECTION A. COVER PAGE

1. Course Title: Automotive Technology II	7. **Action** ❑ New Course X Course Revision
2. Date Submitted: 1/20/17	8. **Grade Level(s)** ▢ 6 ▢ 9 X11 ▢ 7 X10 X12 ▢ 8
3. **Transcript Title/Abbreviation**(s) Advanced Auto	9. **Prerequisites** (Please list.) ▢ Required X Recommended: Automotive Tech 1 and pass automotive safety test
4. **Transcript Course Code/Course Number** :	10. Seeking Program Distinction? ▢ YES (Check one below.) XNO ▢Honors ▢ AP ▢Other
5. Subject Area CTE	11. Is this a CTE course? X YES If YES, complete Section C
6. Department Career Technical	12. Previously approved by UC? YES X NO ▢ NA for 6th-8th Course is approved as "g"
13. UC ELIGIBILITY Already eligible? ▢ NA for 6th-8th ▢YES XNO a ▢ b▢ c▢ d▢ e▢ f▢ g▢ Proposing eligibility?▢ NA for 6th-8th XYES ▢NO a ▢ b▢ c▢ d▢ e▢ f▢ gX	14. Unit Value/Course Credit/Length of Course ▢ 0.5 (semester or half-year X 1.0 (one year equivalent) ▢ 2.0 (two-year equivalent) ▢ Other
15. School Contact and Course Developer Name: Andy Shyers Phone: Email: ashyers@slusd.us Position: Teacher	
16. Approval Signatures: Approval Date: Principal: 3/13/17	DISTRICT OFFICE USE ONLY Curriculum Committee Date Approved: 4/3/17 Date approved by Board:

SECTION B. COURSE CONTENT

17. Course Description

Automotive Technology II is designed as the advanced course in a sequence of courses that prepares the student for an entry level position in the automotive service industry, post secondary automotive education, or entry into a related technical field or trade. In this course students will expand on and apply their knowledge of the automobile and its service and repair. The relevance of skills learned in their academic classes will be reinforced through practical application of those skills as related to automotive service and repair. Focus of this course will be hands on application of skills through a variety of class projects ranging from simple repair operations to total rebuilding. Instruction will be provided in procedures and safety, specialized tools and equipment of the industry, automotive measurement (including dynamometer testing), proper vehicle lifting, tire inspection, removal, diagnosis and repair, vehicle suspension, steering and alignment, brake inspection, diagnosis and repair, engine performance, engine inspection, diagnosis, and repair.

Systems Diagnostics, Service, and Repair Pathway

The Systems Diagnostics, Service, and Repair pathway prepares students for postsecondary education and employment in the transportation industry, which includes but is not limited to motor vehicles, rail systems, marine applications, and small-engine and specialty equipment.

Occupations Associated w/ this Pathway	Technician, Service Adviser, Parts Technician, Line Technician, Maintenance Worker, Engineer, Technical Trades

18. Course Goals and/or Major Student Outcomes

Course Goals	This course is intended to provide students with as much hands on experience as possible in an automotive shop environment. Students will apply concepts learned in Beginning Auto, but with greater depth and independence. Each class will complete large scale automotive repair project(s). The class will function as a team in an environment approximating an automotive workplace.

19. Course Standards

CTE Knowledge and Performance Anchor Standards

1. Academics Apply appropriate academic standards required for successful completion of the Transportation sector pathway leading to postsecondary education and employment. Refer to the Transportation alignment matrix for standard ID.
2. Communications Acquire and accurately use terminology and protocols associated with the Transportation sector pathway.

	Demonstrate the ability to use these effectively in oral, written and multimedia formats at a level ready for career or college.
3.	**Career Planning and Management** Integrate career information from multiple sources and make informed decisions to related personal career plans and goals.
4.	**Technology** Use contemporary and emerging technology in the Transportation sector to produce products, solve problems and provide services. Emphasis on using this technology in a changing workplace environment.
5.	**Problem Solving and Critical Thinking** Conduct research to create alternative solutions to solve a problem using critical and creative thinking, logical reasoning, analysis, inquiry, and problem solving techniques.
6.	**Health and Safety** Understand and demonstrate proper health and safety procedures. Apply appropriate safety policies, regulations and practices. Determine key symbols, terms, and domain specific words related to maintaining a safe workplace environment in the Transportation sector.
7.	**Responsibility and Flexibility** Initiate and participate in collaborations demonstrating behaviors that reflect personal and professional responsibility, flexibility, and respect in the workplace and community.
8.	**Ethics and Legal Responsibilities** Practice professional, ethical, and legal behavior. Respond thoughtfully to diverse perspectives and resolve contradictions in a manner consistent with applicable laws, regulations, and organizational norms.
9.	**Leadership and Teamwork** Work with peers to promote an environment allowing for creative and potentially divergent perspectives. Demonstrate both effective leadership skills and teamwork related to decision making and conflict resolution.
10.	**Technical Knowledge and Skills** Understand and apply essential knowledge and technical skills common to all pathways in the Transportation sector. Follow proper procedures when performing tests or technical tasks.
11.	**Demonstration and Application** Demonstrate and apply the knowledge and skills contained in the Transportation anchor standards, pathway standards, and performance indicators in the classroom, lab, and/or workplace setting.

Systems Diagnostics, Service, and Repair Pathway Standards:

C1.0 Demonstrate the practice of personal and occupational safety and protecting the environment by using materials and processes in accordance with manufacturer and industry standards.

C1.1 Know and understand common environmental conservation practices and their applications.

C1.2 Practice the safe handling and storage of chemicals and hazardous wastes in accordance with Material Safety Data Sheets (MSDS) and the requirements of local, state, and federal regulatory agencies.

C1.3 Understand the way in which waste gasses, emissions, and other environmentally destructive substances are generated and the effects of these substances on the environment.

C1.4 Use appropriate personal protective equipment and safety practices.

C1.5 Evaluate the advantages and disadvantages of existing, new, and emerging systems and the effects of those systems on the environment.
C2.0 Practice the safe and appropriate use of tools, equipment, and work processes.
C2.1 Recognize the importance of calibration processes, systems, and techniques using various measurement and testing devices.
C2.2 Demonstrate and use appropriate tools and equipment—such as wrenches, sockets, and pliers—to diagnose, service, repair, and maintain systems and components.
C2.3 Use tools, equipment, and machines to safely measure, test, diagnose, and analyze components and systems (e.g., electrical and electronic circuits, alternating- and direct-current applications, fluid/hydraulic and air/pneumatic systems).
C2.4 Select and use the appropriate measurement device(s) and use mathematical functions necessary to perform required fabrication, maintenance, and operation procedures.
C2.5 Use measurement scales, devices, and systems, such as dial indicators and micrometers, to design, fabricate, diagnose, maintain, and repair vehicles and components following recommended industry standards.
C2.6 Demonstrate how to access technical reports, manuals, electronic retrieval systems, and related technical data resources.
C2.7 Test and analyze the elements of precision measuring using standard and metric systems.
C3.0 Use scientific principles in relation to chemical, mechanical, and physical functions for various engine and vehicle systems.
C3.1 Describe the operating principles of internal and/or external combustion engines.
C3.2 Describe the function and principles of air-conditioning and heating systems.
C3.3 Describe the basic principles of pneumatic and hydraulic power and their applications.
C3.4 Describe the applications of alternative power sources.
C3.5 Practice the basic principles of electricity, electronics and electrical power generation, and distribution systems.
C3.6 Explain the principles of converting energy from one form to another.
C3.7 Perform necessary procedures to maintain, diagnose, service, and repair vehicle systems and malfunctions.
C4.0 Perform and document maintenance procedures in accordance with the recommendations of the manufacturer.
C4.1 Communicate the procedures and practices of various manufacturers regarding service, repair, and maintenance schedules.
C4.2 Demonstrate how to properly document maintenance and repair procedures in accordance with applicable rules, laws, and regulations (e.g., Bureau of Auto Repair [BAR], Occupational Safety and Health Administration [OSHA], and the California Air Resources Board [ARB]).
C4.3 Use reference books, technical service bulletins, and other documents and materials related to the service industry available in print and through electronic retrieval systems to accurately diagnose and repair systems, equipment, and vehicles.
C4.4 Complete a work order, including customer information, description of repairs, and billing information, in accordance with applicable rules, laws, and regulations.
C5.0 Apply and understand appropriate business practices.
C5.1 Identify work-related systems common to the transportation service industry.
C5.2 Know the laws and regulations applicable to recordkeeping and the appropriate handling and disposal of hazardous materials.
C5.3 Explain the importance of and the procedures for maintaining accurate records (e.g., business licenses, repair orders, billing and tax records).
C5.4 Practice the concept and application of accepted ethical business practices.
C5.5 Practice the concept and application of acceptable customer relations practices.
C5.6 Recognize, analyze, and evaluate the need for maintenance of components and

systems and the conditions under which service and maintenance are required.
C6.0 Demonstrate the application, operation, maintenance, and diagnosis of engines, including but not limited to two- and four-stroke and supporting subsystems.
C6.1 Perform general engine maintenance, diagnosis, service, and repair in accordance with portable national industry standards, such as the National Automotive Technicians Education Foundation and the Equipment and Engine Training Council.
C6.2 Maintain, diagnose, service, and repair lubrication and cooling systems.
C6.3 Practice how to maintain, diagnose, and repair computerized engine control systems and other engine-related systems.
C6.4 Maintain, diagnose, service, and repair ignition, electronic, and computerized engine controls and fuel management systems.
C7.0 Demonstrate the function, principles, and operation of electrical and electronic systems using manufacturer and industry standards.
C7.1 Practice maintenance, diagnosis, and repair of electrical systems.
C7.2 Maintain, diagnose, repair, and service batteries.
C7.3 Demonstrate maintenance, diagnosis, service, and repair of starting and charging systems.
C7.4 Diagnose, service, and repair lighting systems.
C7.5 Diagnose, service, and repair heating and air-conditioning systems and components.
C7.6 Diagnose, service, and repair horns, wipers/washers, and other accessories.
C7.7 Perform necessary procedures to maintain, diagnose, service, and repair vehicle electrical and electronic systems and malfunctions.
C8.0 Demonstrate the function and principles of automotive drivetrain, steering and suspension, brake, and tire and wheel components and systems in accordance with national industry standards.
C8.1 Describe how to maintain, diagnose, service, and repair hydraulic and power assist systems.
C8.2 Describe the function and operation of automatic and manual transmissions and transaxles.
C8.3 Diagnose, service, and repair disc brakes, drum brakes, antilock brakes, and other brake systems as developed.
C8.4 Diagnose, service, and repair steering and suspension systems.
C8.5 Interpret tire and rim sizing to select appropriate wheels and tires for vehicles.
C8.6 Maintain, diagnose, service, and repair under-vehicle systems and malfunctions.

***College and Career Readiness Standards**:*

- Reading

Key Ideas and details

1.Read closely to determine what the text says explicitly and to make logical inferences from it; cite specific textual evidence when writing or speaking to support conclusions drawn from the text.
2.Determine central ideas or themes of a text and analyze their development; summarize the key supporting details and ideas.
3.Analyze how and why individuals, events, or ideas develop and interact over the course of a text.

Craft and Structure

4.Interpret words and phrases as they are used in a text, including determining technical, connotative, and figurative meanings, and analyze how specific word choices shape meaning or tone.
5.Analyze the structure of texts, including how specific sentences, paragraphs, and larger portions of the text (e.g., a section, chapter, scene, or stanza) relate to each other and the whole.
6.Assess how point of view or purpose shapes the content and style of a text.

Integration of Knowledge and Ideas

7.Integrate and evaluate content presented in diverse formats and media, including visually and quantitatively, as well as in words.
8.Delineate and evaluate the argument and specific claims in a text, including the validity of the reasoning as well as the relevance and sufficiency of the evidence.
9.Analyze how two or more texts address similar themes or topics in order to build knowledge or to compare the approaches the authors take.
Range of reading and Level of text Complexity
10.Read and comprehend complex literary and informational texts independently and proficiently

- Writing

Text types and Purposes
1.Write arguments to support claims in an analysis of substantive topics or texts using valid reasoning and relevant and sufficient evidence.
2.Write informative/explanatory texts to examine and convey complex ideas and information clearly and accurately through the effective selection, organization, and analysis of content.
3.Write narratives to develop real or imagined experiences or events using effective technique, well-chosen details and well-structured event sequences.
Production and distribution of Writing
4.Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.
5.Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach.
6.Use technology, including the Internet, to produce and publish writing and to interact and collaborate with others.
Research to Build and Present Knowledge
7.Conduct short as well as more sustained research projects based on focused questions, demonstrating understanding of the subject under investigation.
8.Gather relevant information from multiple print and digital sources, assess the credibility and accuracy of each source, and integrate the information while avoiding plagiarism.
9.Draw evidence from literary or informational texts to support analysis, reflection, and research.
Range of Writing
10.Write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of tasks, purposes, and audience

20. Course Outline

Course Outline-Units	Key Assignments/Projects	Anchor Standards	Pathway Standards	Common Core Standards
1. Auto Shop Procedures and Safety Students will be required to demonstrate their knowledge of shop rules and procedures, tool and equipment safety, and personal safety. They will pass written and practical tests demonstrating their knowledge.	1.1 Review & reinforce shop procedures and policies including work ethic and grading policies 1.2 Review & reinforce personal safety rules and procedures 1.3 Safety rules and procedures for new tools and equipment 1.4 Locate and demonstrate knowledge of MSDS sheets 1.5 Pass Safety Test w/ 90% minimum 1.6 Unique safety concerns in the Advanced class	2.0, 6.0, 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 7.0, 7.2, 7.7, 8.0, 8.2, 8.3, 8.4, 8.5, 9.3, 10.1, 11.0, 11.2, 11.5	C1.1, 1.2, 1.3, 1.4, 2.3, 4.2	LS 9-12, 11-12.6 RSTS 9-10, 11-12.4 SLS 9-10, 11-12.1 SLS 11-12.1d

2. Tools and Equipment Students will demonstrate their knowledge of common automotive hand tools and power tools. Students will be evaluated on appropriate selection, use, and storage of both tools and equipment with written tests and practical demonstration in the Shop.	2.1 Advanced hand and power tool ID 2.2 Picking proper tool for the job 2.3 Demonstrating proper use, cleaning, maintenance and storage of tools	1.0, 5.1, 5.2, 5.3, 6.3, 6.4, 6.5, 10.1, 11.1	C2.1, 2.2, 2.3, 2.4, 2.5, 2.7	WS 11-12.7 RSTS 9-10, 11-12.4 WS 11-12.6
3. Lifting Vehicles Students will demonstrate safe lifting of a vehicle using a floor jack, 2 Post Lift, and 4 Post Alignment Rack. Students' initial evaluation will be written, followed by practical demonstration.	3.1 Review of special safety concerns 3.2 Identify and describe function of all shop lifts 3.3 Demonstrate use of all shop lifts	1.0, 5.1, 5.2, 5.3, 6.3, 6.4, 6.5, 10.1, 11.1	C2.1, 2.2, 2.3, 2.4, 2.5, 2.7	WS 11-12.7 RSTS 9-10, 11-12.4 WS 11-12.6
4. Automotive Measurement Students will demonstrate proper care and use of a variety of precision measuring instruments and will be introduced to the chassis dynamometer. Use of proper units and tolerance will be emphasized. Evaluation will be by written test and practical usage.	4.1 Review and reinforce proper reading of calipers, feeler gauges, & micrometers 4.2 Dial indicators 4.3 Bore gauges 4.4 Techniques of using measuring equipment for inspection 4.5 Chassis dynamometer use	2.2, 2.4, 4.1, 4.3, 5.1, 5.2, 5.3, 5.4, 6.3, 6.4, 6.6, 7.4, 8.1, 10.1, 10.2	C1.4, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 4.3, 5.3, 5.6, 7.1	LS 9-10, 11-12.6 WS 11-12.6 WS 11-12.7 RSTS 9-10, 11-12.4 SLS 9-10, 11-12.1 SLS 11-12.1b SLS 11-12.1d
5. Vehicle Suspension, Steering, and Alignment Students will inspect the suspension and steering of a vehicle and record their observations. They will be evaluated on accuracy. Students will service steering and suspension systems as required. Students will demonstrated knowledge of suspension geometry, evaluation will be written and practical demonstration. Students will align a vehicle to factory specs. They will be evaluated on accuracy. Students will offer alternate alignment settings to alleviate vehicle issues and demonstrate in depth understanding of concepts involved.	5.1 Inspect suspension and steering. Locate areas of concern and determine action necessary for repair 5.2 Perform service of suspension and steering systems 5.3 Demonstrate knowledge of suspension geometry (caster, camber, and toe) 5.4 Inspect vehicle and prepare for alignment 5.5 Align vehicle to factory specifications 5.6 Demonstrate an understanding of the effects of adjusting suspension geometry for different conditions.	2.3, 2.4, 2.5, 2.6, 4.1, 4.2, 4.3, 4.4, 4.5, 5.1, 5.2, 5.3, 5.4, 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 7.2, 7.4, 8.1, 8.3, 9.7, 10.1, 10.2	C1.1, 1.2, 1.4, 2.0, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 3.7, 4.1, 4.3, 4.4, 5.4, 5.6, 8.4, 8.5, 8.6	LS 9-10, 11-12.6 WS 11-12.6 WS 11-12.7 RSTS 9-10, 11-12.4 SLS 9-10, 11-12.1 SLS 11-12.1b SLS 11-12.1d
6. Tire Inspection, Removal, Installation, and Balancing Students will inspect tires and be evaluated on thoroughness and accuracy. Students will demonstrate the ability to properly dismount, remount, and repair a tire. Students will demonstrate a written understanding of the causes of wheel and tire vibration. They will balance a wheel and tire assembly utilizing a variety of methods. They will be evaluated on their ability to do these jobs safely, correctly, and efficiently.	6.1 Demonstrate the ability to inspect tires for wear patterns and damage. 6.2 Demonstrate understanding of special safety concerns 6.3 Dismount and remount a tire using various tire machines 6.4 Patch a tire per industry standards 6.5 Demonstrate a knowledge of Tire Pressure Monitoring Systems 6.6 Demonstrate a knowledge of what causes wheel & tire vibration 6.7 Balance a wheel and tire assembly 6.8 Road Force balance a wheel and tire assembly	2.3, 2.4, 2.5, 5.1, 5.2, 5.3, 5.4, 6.1, 6.2, 6.3, 6.4	C1.1, 1.2, 1.4, 2.0, 2.1, 2.2, 2.3, 2.6, 3.7, 4.1, 4.3, 5.6, 8.5	LS 9-10, 11-12.6 WS 11-12.7 RSTS 9-10, 11-12.4
7. Automotive Brake Systems	7.1 Inspect brake system and determine necessary action	2.3, 2.4, 2.5, 5.1, 5.2, 5.3, 5.4, 6.1, 6.2, 6.3, 6.4	C1.1, 1.2, 1.4, 2.0, 2.2, 2.3, 2.4, 2.5, 2.6,	WS 11-12.7 RSTS 9-10, 11-12.4

Students will practice hydraulic system diagnosis by researching applicable vehicle and service information, history, and precautions. Students will inspect the vehicle brake pedal height, travel, free play, test brake fluid for contamination and measure a rotor/drum. Results will be compared to factory specifications to determine course of action. They be evaluated on accuracy of their results. Students will rebuild a brake system's components and ensure the system functions properly. Students will be introduced to high performance brake system components and the theoretical reasons why they are effective.	7.2 Test brake fluid 7.3 Bleed brake system manually & with pressure bleeding equipment 7.4 R & R a disk brake assembly 7.5 R & R a drum brake assembly 7.6 Rebuild a caliper and wheel cylinder assembly 7.7 Measure brake components and determine necessary action. 7.8 Selection of brake components to meet performance requirements		2.7, 3.3, 3.6, 3.7, 4.2, 4.3, 4.4, 5.6, 8.1, 8.3	
8. Automotive Engines Students will practice the diagnosis of engine related issues. They will utilize computerized engine controls and specific engine test procedures to evaluate an engine. Examples of items students will test include manifold pressure, cylinder power balance, cylinder compression and leakage, and oil pressure. The will also inspect and evaluate engine components. Information gleaned will be used to determine necessary action for repair. Students will then repair the engine. Typically students will repair and rebuild an engine as a component of the class project. Students will be introduced to performance enhancing modifications and the theoretical reasons they are effective.	8.1 Review and reinforcement of specifications & measurement 8.2 Mechanical problems diagnosis & service 8.3 Disassemble an IC engine 8.4 Inspect an IC engine 8.5 Reassemble an IC engine 8.6 R & R an automotive engine 8.7 Determine effect of high performance modifications on engines	2.4, 4.1, 5.1, 5.2, 6.1, 6.3, 6.6, 8.1, 8.2, 8.3, 8.4, 11.2	C1.2, 1.4, C2.1, 2.2, 2.3, 2.5, 3.1, 3.6, 4.1, 4.2, 4.3, 6.1, 6.2, 6.3, 6.4	WS 11-12.6 WS 11-12.7
9. Chassis Dynamometer Testing Students will demonstrate a written understanding of power and torque and their measurement. Students will prepare a vehicle for test then demonstrate proper tie down procedures. Students will set up the dynamometer for use. Students will analyze results. They will be evaluated on their ability to do the job safely, correctly, and efficiently.	9.1 Demonstrate knowledge of special safety concerns and procedures 9.2 Measuring horsepower and torque 9.3 Demonstration vehicle preparation and installation on dyno 9.4 Demonstrate dyno set up, including software and instrumentation 9.5 Record and analyze performance data and determine necessary action	2.4, 4.1, 5.1, 5.2, 6.1, 6.3, 6.6, 8.1, 8.2, 8.3, 8.4, 11.2	C1.2, 1.4, 2.1, 2.2, 2.3, 2.5, 2.6, 2.7, 3.1, 3.6, 4.1, 4.2, 4.3, 5.4, 6.1, 6.2, 6.3, 6.4	LS 9-10, 11-12.6 WS 11-12.6 WS 11-12.7 RSTS 9-10, 11-12.4 SLS 11-12.1d
10. Automotive Project(s) Our projects are large scale activities used throughout the course to give students extensive hands on experience and the pride of repairing/rebuilding an entire vehicle or its systems correctly. Vehicles and their systems will be evaluated, repaired, and maintained by the students. No systems are off limits for repair. All work is expected to be to industry standards and fully functional. Students are involved in all phases of the project and are evaluated on their work ethic, participation, technical knowledge demonstrated, and contributions to the team as a whole. These projects are	10.1 Inspect vehicle and/or components involved and document areas in need of attention 10.2 Prioritize service and repairs required and evaluate scope of project vs. time available 10.3 Project budget of project 10.4 Develop check lists to track progress 10.5 Work in teams on different systems requiring attention, evaluate big picture as a class weekly 10.6 Demonstrate the ability to order correct parts and verify orders 10.7 Test systems and/or components as completed to verify proper function 10.8 Upon final assembly test and evaluate results, revisit areas	2.1, 2.2, 2.3, 2.4, 2.5, 3.1, 3.2, 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 5.1, 5.2, 5.3, 5.4, 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 8.1, 8.2, 8.3, 8.4, 8.5, 9.1, 9.2, 9.3, 9.6, 9.7, 10.1, 10.2, 10.3, 11.1, 11.2	C1.1, 1.2, 1.3, 1.4, 1.5, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 3.1, 3.3, 3.6, 3.7, 4.1, 4.2, 4.3, 5.4, 5.6, 6.1, 6.2, 6.3, 6.4, 7.1, 7.2, 7.3, 7.4, 7.6, 7.7, 8.2, 8.3, 8.4, 8.5, 8.6	LS 9-10, 11-12.6 WS 11-12.6 WS 11-12.7 RSTS 9-10, 11-12.4 SLS 9-10, 11-12.1 SLS 11-12.2 SLS 11-12.1b SLS 11-12.1d

intended to offer students a taste of real world repair and rebuilding of an automobile in an environment simulating the workplace.	needing attention. 10.9 Complete project and discuss final result vs. expectations and pitfalls experienced			
11. Employment Preparation Students will practice appropriate workplace employability standards via their personal standards, work habits, and ethics in the Shop. Students will demonstrate their knowledge of the employment process by preparing a resume and a job application. Students will have the opportunity to participate in job shadowing opportunities at local establishments.	11.1 Employer expectations 11.2 Job applications 11.3 Resume preparation 11.4 Interview skills 11.5 Job Shadowing	2.2, 2.3, 2.4, 2.5, 3.1, 3.2, 3.3, 3.4, 3.5, 3.8, 3.9, 11.1, 11.2	C5.0	LS 9-10, 11-12.6 SLS 11-12.2

21. Instructional Materials

Instructional Materials/Textbooks	Text: Modern Automotive Technology, Duffy Database: AllData (online automotive information system) Handouts/Worksheets

22. Instructional Methods and/or Strategies

Instructional Strategies	Information on automotive system's function and repair will be presented in a variety of formats including, but not limited to: ● Class projects integrating student knowledge and skills with extensive hands on shop work. Students will work with greater independence than in the beginning class. ● Textbook reading, writing, and research assignments. ● Lecture, multimedia, and classroom discussion. ● Textbook reading, writing, and research assignments. ● Demonstrations followed by project based learning in the Automotive Shop where student teams will complete worksheets guiding them through tasks directly related to learning the skills of Automotive Diagnostics & Service. ● Competitions that allow students to test their skills with their peers and the instructor. ● Guest speakers and field trips that enable students to see real world application of skills and learn the expectations of industry. ● Job shadowing

23. Assessment Methods and/or Tools

- Warm Ups
- Time Sheets
- Classwork/ Homework
- Written Tests
- Practical Tests
- Project Evaluation
- Attitude and Participation

24. Grading Policy

Grading will follow the San Leandro Unified School District's policy.

25. Context for Course

Automotive Technology II is the second course in the Perkins funded Career Technical Education Pathway. This course aligns to Eden Area Regional Occupational Program. This course is articulated with Eden Area ROP which is articulated with Chabot College.