**Semester(s) offered:   Fall\_X\_     Spring \_X\_**

**Berrien Springs Parent Partnership**

**Independent Study/Project Based Learning Course Description and Syllabus**

**Course Title: Auto Mechanics: Apprenticeship\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Ages/Grade Levels: 17+, Grades 11-12**

**Class size: Min:\_1\_\_ Max:\_1\_\_**

**Location Name: AutoMotion Complete Car Care\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Location Address: 711 E Front St, Buchanan, MI 49107\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Provide directions to location if necessary:**

**Start Date: 9/10/2018\_\_\_\_\_\_\_\_   
End Date: 12/21/2018\_\_\_\_\_\_\_\_\_\_** (Must be at least 16 hours of instructional time)

**Day of the Week: Circle: M Tu W Th F To be arranged with students**

**Begin and end time of class: Class will be 3 days/week 6 – 8 hours per day**

**Contact/Instructors: Andrew Lee\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Email: topgun510@aol.com\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Best phone #: 269-697-8380\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Publish # on website? Y N**

**Does the student also need to register with you or at your location? Y N**

**Classes will be (circle one): Graded Pass/Fail What is the criteria for passing the class? Please list or attach your studio policy or class policy/expectations and grading rubric.**

This is a full immersion course with the expectation that students taking this are working to become employable in the automotive repair industry. Not only will students be expected to learn and demonstrate in-depth knowledge with automotive repairs and diagnostic skills, but they will also be required to develop communication skills. Students will need the skills to orally communicate about automotive needs and repairs to customers, as well as communicating with fellow technicians, service advisors, and managers.

Students will be expected to prepare for the written certification tests required by the state of Michigan and/or the ASE (Automotive Service Excellence) certification tests.

**Briefly describe the course, including topics to be covered and subject areas that the course will cover –this is what will be posted on our website:**

This is a full immersion course with the expectation that students want to become employable in the automotive repair industry. Students will be learning the necessary skills needed for the automotive repair business. These skills will be both in the mechanics of automotive repair skills as well as oral communication skills. Topics will include: maintenance, basic electrical repair, air conditioning/heating systems, transmission, and communication skills with vendors, customers and mechanics. Students are expected to learn these skills and to begin to prepare for the required state and/or ASE (Automotive Certification Excellence) certification tests for employability.

**Weekly breakdown of instruction: (write on separate sheet if necessary)**

Week 1: Heating/cooling systems

Week 2: Electrical repair

Week 3: Engine repair

Week 4: In-depth engine repair

Week 5: Transmission

Week 6: Parts ordering, oral communications with technicians, advisors, managers

Week 7: Beginning diagnostics/oral communication skills

Week 8: Diagnostics, vendors

Week 9: Communicating repairs and needs with customers

Week 10: Introduce certification information, communication skills continued

Week 11: Final project (successfully diagnose & repair vehicle)

Week 12: Continue Final project & review/preparation for certifications

Week 13: Complete project and focus on areas needing additional review

Week 14: Review/complete projects as needed

**All classes must have a min. of 4 Course Objective Checkpoints unique to your class.** You will note on the attendance sheet when students have met these objectives. Write in #’s 2 and 3 here and on the attendance sheet:  
 **1st: pre-test**

**2nd: Engine repair project\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**3rd: Successful diagnostics \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**4th: post-test**

**Final project/performance:** The student is to select, as appropriate a final project that will demonstrate what they have learned over the course of the semester and aligns with their learning goal. The student should have input into what they present as their final project. This can be in the form of a presentation, art fair, performance, recital, art gallery, written report, final exam, musical composition, product such as woodworking, jewelry, food harvest or presentation, video, graphic or other visual artwork. Completion of the final project should figure in as part of the pass or fail grade that you determine based on your rubric.

**Write in the name of the project and completion date on the attendance sheet.**

**List any materials that students are required to bring to class:**

**Please wear clothes that can get dirty and shoes with non-slip soles. Safety gear will be provided.**

**Instructor approval is required for this course.**

**List any required or optional online resources you will use in class or students can use to supplement:**

**Attach or list** one 10 question (multiple choice, T/F, or open ended) pre/post-test to be given the first and last week of class that will assess knowledge of subject(s) covered in class during the semester OR how you plan to assess the student’s knowledge of the topic in a subjective manner. Scores must be recorded on the attendance form provided.

**Cost per student for entire semester, including materials and supplies: $ 350\_\_\_\_\_\_\_\_\_\_\_**

**Invoices are due 10/31 for Fall and 2/28 for Spring.**

Thank you for providing your expertise to the students in our community!