

Redeemer Christian High School
TTJ20
Course Syllabus 2020/2021
Mr. Fayer

Be advised that this is a working document that will serve as a guide for the course. It is subject to change.

Course Description:

This course introduces students to the service and maintenance of vehicles, aircraft, and/or watercraft. Students will develop knowledge and skills related to the construction and operation of vehicle/craft systems and learn maintenance and repair techniques. Student projects may include the construction of a self-propelled vehicle or craft, engine service, tire/wheel service, electrical/battery service, and proper body care. Students will develop an awareness of related environmental and societal issues, and will explore secondary and postsecondary pathways leading to careers in the transportation industry.

Course Rational:

Technology helps shape our world in a host of explicit and implicit ways. It is developed by, and flows out of that special creative gift that was bestowed on people in creation. One of the aspects of being image bearers is that we are co-creators with God. He told us to subdue the earth and to take care of it. Transportation of people and goods around the earth is extremely important for our present existence. Incorporating and developing the appropriate technologies to meet our needs is not only prudent, but our God given responsibility. Understanding the current technologies used, and the theories behind developing technologies will help our students understand the impacts of their present situation and help them make choices that will help them fulfill the creational mandate.

Classroom Expectations:

It is expected that student taking this course will abide by the classroom rules and safety procedures; your very life depends on it. Other expectations include mutual respect, integrity of work, and generally living by the great commandment to love one another.

- Class attendance is crucial to the completion of this course. Many of the activities can not be taken home for completion. If students are absent or require extra time, for any reason, it is expected that the time will be made up during lunch times and after school.

-Appropriate shop clothing will be required for the course. Time will not be granted for changing at the beginning of class. A lab coat or over-alls are suggested.

-End of Class routine: We will stop a minimum of 5 min from the end of class to clean-up, review work to be done (fill out your Agenda) and talk about what happens next in your day. **The Bell does not dismiss you - the teacher does.**

Safety:

-All students will be required to sign a safety rules agreement form. Those not abiding by the signed agreement will be asked to leave the course. Some general guidelines include:

- Closed toed footwear is mandatory.
- Safety glasses for all practical exercises
- Long hair must be tied back and tucked in.

-Students are required to take responsibility for the maintenance and cleanliness of the shop area. This involves personal responsibility for the tools assigned to individuals, and collective responsibility for the general upkeep of a safe working environment.

Assignments:

All assignments will be submitted on the due date. **Late assignments will be deducted 10% per calendar day for up to 5 days.** Students will be required to attend study halls until the assignment is complete. A call will be made home for any assignment that is late to discuss support needed to complete the task.

Absences and Late Assignments:

If you are absent from a class, it is your responsibility to obtain the material from the teacher or fellow student.

If you know you will be **away for a test, discuss this with the teacher at least one class day ahead** of the scheduled test day. Tests missed due to **illegitimate absence (skipping) will be recorded as zero.** Tests missed due to legitimate absence will be written on the return of the student during lunch or after school.

If you require an extension on an assignment, discuss this with the teacher at least 2 class days prior to the due date. Late assignments will be deducted **10% per day** and the student will be assigned to Study Hall until the assignment is complete. Please be sure that your assignment is printed and complete prior to the beginning of classes on the day the assignment is due.

Plagiarism will be dealt with according to the Plagiarism Policy of RCHS as found on the school's web site.

Here are some ways of showing respect and love to your neighbour and yourself:

1) Be polite to each other and listen quietly when someone else is speaking. They may have something interesting to share! Or, they might have the same question you have. If you have something to share - **RAISE YOUR HAND**

2) Class will begin on time. Any student not at their assigned spot and ready to work both physically and mentally will be considered late and it will be recorded as such. When the bell rings, give your attention to the teacher

3) Be prepared to participate fully in class. This means having proper equipment (pencil, pen, ruler, notebook & text, tools, agenda, calculator etc.) ready to be used.

4) Notebooks should be neat and organized.

5) Homework should be completed on time on a separate sheet of paper bearing: your name, the assignment, date and all necessary headings underlined. Completing homework prepares you for completing the evaluations and is, therefore, taken seriously.

6) Obey all safety regulations at all times.

Evaluation Breakdown: Seventy percent of your mark in this course will come from the work completed in class throughout the semester. The other thirty percent will be earned by completing a final project (20 %) and examination (10%).

Evidence of student achievement for evaluation is collected over time from three different sources- observations, conversations, and student products.

Evaluations will be broken down into 4 categories. Knowledge and Understanding, Thinking and Inquiry, Communication, and Application.

Unit and Evaluation Summary

Unit and Assessment of Learning Summary

| Unit # | Unit Title | Hours | Evaluation Type | | | | Weightings | | | | |
|---------------|--|----------|---------------------------------------|-------------|--------------|---------|---------------------------|----|---|----|----|
| Unit 1 5% | Safety and Society | 5 hours | WHMIS Presentation | Observation | Conversation | Product | K | TI | C | A | % |
| | | | | 10 | 80 | 10 | 2 | 1 | 1 | 1 | 5 |
| Unit 2 30% | Then Internal Combustion Engine (Small Engine Theory) | 35 hours | | Observation | Conversation | Product | K | TI | C | A | % |
| | | | Engine Rebuild (20) | 20 | 30 | 50 | 5 | 2 | 2 | 11 | 20 |
| | | | Topical Tests (5) | 50 | 50 | | 5 | | | | 5 |
| | | | Unit Test (5) | | | 100 | 5 | | | | 5 |
| Unit 3 35% | Engine Repair and Maintenance | 35 hours | | Observation | Conversation | Product | K | TI | C | A | % |
| | | | Repair "Instructable" Assignment (28) | 15 | 15 | 70 | 7 | 7 | 7 | 7 | 28 |
| | | | Test (7) | | | 100 | 7 | | | | 7 |
| Unit 4 20% | Final Project (design and construct (or repair a motorized vehicle)) | 35 hours | | Observation | Conversation | Product | K | TI | C | A | % |
| | | | Design /Repair a vehicle | 20 | 20 | 60 | 6 | 6 | 2 | 6 | 20 |
| Exam 10% | | | | Observation | Conversation | Product | K | TI | C | A | % |
| | | | | | | 100 | 10 | | | | 10 |
| | TOTALS | 110 | | | | | A(25)K(47) TI(16)C(12) | | | | |