# LOCKERBY COMPOSITE SCHOOL

## Technological Design (TDJ 2OT)
## Mr. Patrick Campeau
## campeap@rainbowschools.ca

## Course Outline

| Type | STEP | **Credit** | 1 |
|---|---|---|---|
| **Prerequisite** | None | **Google Classroom Code** | Provided in class |
| **Textbook** | None | **Website** | ictedu.ca |

## Course Description

This course provides students with opportunities to apply a design process to meet a variety of technological challenges. Students will research projects, create designs, build models and/or prototypes, and assess products and/or processes using appropriate tools, techniques, and strategies. Student projects may include designs for homes, vehicles, bridges, robotic arms, clothing, or other products. Students will develop an awareness of environmental and societal issues related to technological design, and will learn about secondary and postsecondary education and training leading to careers in the field.

## Curriculum Strands

The curriculum strands are the following:

       A. Technological Design Fundamentals
       B. Technological Design Skills
       C. Technology, the Environment, and Society
       D. Professional Practice and Career Opportunities

## Course Units

The following are possible course units :

- The Design Process
- 3D Modeling (Fusion)
- Woodworking
- Photography
- Video Production
- Animation
- Graphic Design & Photo Manipulation
- Architectural Floor Plan Design
- Video Game Design / Python Programming / Arduino

| Learning Skills and Work Habits | Sample Behaviours |
|---|---|
| **Responsibility** | **The student:**<br>● fulfils responsibilities and commitments within the learning environment;<br>● completes and submits class work, homework, and assignments according to agreed-upon timelines;<br>● takes responsibility for and manages own behaviour. |
| **Organization** | **The student:**<br>● devises and follows a plan and process for completing work and tasks;<br>● establishes priorities and manages time to complete tasks and achieve goals;<br>● identifies, gathers, evaluates, and uses information, technology, and resources to complete tasks. |
| **Independent Work** | **The student:**<br>● independently monitors, assesses, and revises plans to complete tasks and meet goals;<br>● uses class time appropriately to complete tasks;<br>● follows instructions with minimal supervision. |
| **Collaboration** | **The student:**<br>● accepts various roles and an equitable share of work in a group;<br>● responds positively to the ideas, opinions, values, and traditions of others;<br>● builds healthy peer-to-peer relationships through personal and media-assisted interactions;<br>● works with others to resolve conflicts and build consensus to achieve group goals;<br>● shares information, resources, and expertise and promotes critical thinking to solve problems and make decisions. |
| **Initiative** | **The student:**<br>● looks for and acts on new ideas and opportunities for learning;<br>● demonstrates the capacity for innovation and a willingness to take risks;<br>● demonstrates curiosity and interest in learning;<br>● approaches new tasks with a positive attitude;<br>● recognizes and advocates appropriately for the rights of self and others. |
| **Self-regulation** | **The student:**<br>● sets own individual goals and monitors progress towards achieving them;<br>● seeks clarification or assistance when needed;<br>● assesses and reflects critically on own strengths, needs, and interests;<br>● identifies learning opportunities, choices, and strategies to meet personal needs and achieve goals;<br>● perseveres and makes an effort when responding to challenges. |

## Achievement Chart Categories

| Achievement Category | Weightings | Assessment |
|---|---|---|
| Knowledge/Understanding | 25 % | Assignments, Quizzes, Projects, Performance Tasks, ... |
| Thinking/Inquiry | 20 % | Assignments, Quizzes, Projects, Performance Tasks, ... |
| Communication | 20 % | Assignments, Quizzes, Projects, Performance Tasks, ... |
| Application | 35 % | Assignments, Quizzes, Projects, Performance Tasks, ... |

**TERM**          **70%**
**FINAL EVALUATION**    **30%**

The final evaluation (culminating activity) will be a project completed at the end of the term.

## Classroom Requirements

- Binder & Paper
- Pen / pencil
- Calculator
- Device (if you have one)

## Attendance & Missed Work

Attendance is a significant part of the evaluation process. Ministry of Education Act Regulation 298 requires: "students to attend classes punctually on a regular basis and take such tests and examinations as may be required." A credit is granted upon the completion of 110-120 hours of classroom instruction. It is the responsibility of the guardian to communicate reasons for all absences with the main office. In the event of a scheduled assessment (i.e. tests, presentations, seminars), it is the guardian's responsibility to notify the main office and the teacher regarding the student's illness in advance of when the assessment is due. If prior communication does not occur, a Doctor's note must be provided within 48 hours of the scheduled assessment, or the student will receive a mark of zero.

## Contacting Your Teacher

At school, Mr. Campeau can generally be found in room 101.

Mr. Campeau can also be contacted via email (campeap@rainbowschools.ca).