

SUMMER 2020 – Term Project



By the end of Week 6, you will have an online gallery showing your design proposal for this project, ready for our Digital Design Carousel and for your portfolio.

By the end of Week 12, you will have an online gallery submission showing a fully-detailed wall section/rendering for your project, ready for the Architectural Technology Digital Grad Show and for your portfolio.

THE PROJECT:

It has come to our attention that cancer rates amongst fire fighters are higher than that of the general population.

READ THIS: <https://www.cbc.ca/news/canada/british-columbia/cancer-tops-list-of-firefighter-fatal-workplace-claims-1.4599348>

Can you imagine living in a house that you know is making you sick?

A lot of these toxins come from the act of firefighting itself, but a lot are brought back to the station on gear and equipment. Additionally, the diesel engines of the firetrucks themselves are pumping noxious exhaust, even to a limited amount, into the garages of the stations, that are attached directly to the crews' living/sleeping quarters.

We have the drawings for Fire Station 204 in Brampton, 657 Queen St W, Brampton, ON L6Y 5L6.

Last term, we toured the fire station and heard directly from fire fighters how this is an important component of their jobs and how the current fire station is not serving their needs. **You can find this information and a picture “walk-through” of the fire station in SLATE > Contents > Resources...**

YOUR TASK:

Your job will be to RESEARCH the prevalence of these workplace toxins and current methods of limiting their transfer to fire station living quarters / fire fighters. You will have to understand how the decontamination of equipment / PPE / vehicles and individuals occurs in the most state-of-the-art fire stations in the world.

Individually, you will PREPARE DRAWINGS that demonstrate a full-scale reconfiguration of Station 204 in order to limit the transfer of toxins between the apparatus bay, gear, and the living quarters. This is the primary objective of this project. You are also welcome to tackle some of the other issues that are present at the fire station, such as limited privacy, lack of storage, poor air circulation, and flow of traffic within the building.

MAJOR DELIVERABLES:

Week 6: Online Design Proposal – see syllabus for date and details

Week 12: Final 3D Wall Section/Detail – see syllabus for date and details

*There are many other intermediate deliverables along the way as noted on the syllabus – these act as check-ins and as building blocks for the major deliverables. All submissions are individual.

