



Student Workbook

MARCH 2021



CVRRICULUM
PROGRAM

WELCOME TO THE CVR PROGRAM!

Congratulations - You're about to embark on an exciting journey in education where you will achieve your course learning objectives all while learning to use (and no doubt playing with) Virtual Reality technology!

VR 101:

Virtual Reality (VR) can be understood as an advanced form of human-computer interface that allows the user to "interact" with and become "immersed" within a computer generated or simulated environment through the use of specialized software and hardware.

Equipment you will need:



VR camera & battery



microSD card



USB cable



computer

Equipment that is good to have:



Tripod



VR headset & controller

This workbook will guide you through your assignment and hopefully ensure you get the grade you deserve.

TABLE OF CONTENTS

Brainstorm Ideas	5
Grading Rubric	6
Project Timeline	8
Film Prep Checklist	10
Personal Reflections	11

Assignment Description

First things first: What are you expected to accomplish with this assignment?
Insert here the assignment requirements as provided by your instructor and highlight aspects that are more easily represented in VR, and others that will need more thought, and perhaps addressed differently.



Here is an example of an assignment description and suggestions on how it can be adapted to be easily represented in VR

Example assignment description: eHealth 4320 HLST Final CVR Assignment (20% of grade):

Final CVR assignment should: (1) describe the eHealth application, and its technical requirements/ elements in detail (2) how the selected e-solution has changed how healthcare is delivered and/or experienced (3) the strengths, weaknesses, opportunities, threats. Findings should be based on evidence provided through research studies and position papers by professional bodies (this will be reflected by referencing peer-reviewed articles). Critical reviews should address concepts learned in class; arguments and recommendations should be feasible.

this could be done in front of a camera

most interesting to show in VR

think about providing a separate reference document, or include as credits at the end of the film



Now try it yourself:

Idea Brainstorm

Step one will be to come up with a concept for the project that both achieves the assignment learning objectives, and is well suited for the medium of 360-degree VR.

This will require some brainstorming and creative thinking.



Here is an example of an assignment: select an eHealth solution/ application and discuss how the selected e-solution has changed how healthcare is delivered and experienced.

IDEA 1

Introduction of Electronic Patient Records in Primary Care clinics.

Can be interesting to set up VR camera in a clinic (with consent) and use time-lapse function to capture two scenarios: how busy things were with paper files, and how calm they are now when assistants are at the computer – maybe less complaining about lost files... easily booking visits, or changing availability of doctor's schedules, sending prescriptions to the pharmacy and referrals to other clinics and noticing the void where the fax machine once sat.

IDEA 2

Type 1 diabetics keeping track of their daily lifestyle habits/ insulin levels in special smartphone application with Bluetooth enable monitor.

Could try to film it from "first-person point-of-view" to help build empathy... experience of a person with diabetes, always needing to remember to log data in journal, even when out with friends, can be embarrassing... maybe consider filming from a lower height to reflect a child's perspective and then higher camera height to show the same event from the parent's perspective.

IDEA 3

Tracking of COVID transmissions and educating the public using Smartphone tracing and online, dynamic informational websites

This example is actually hard to represent with VR film..



Now create one for yourself: List some ideas - try to come up with at least 3:

IDEA 1

IDEA 2

IDEA 3

Grading Rubric

We want to ensure that you get the grade you deserve! In the past, you may have reviewed an assignment rubric in order to ensure that you include all the necessary elements of a project.

It can be difficult at first to think about how you are going to meet all the requirements of a traditional assignment with a CVR project. This is why we suggest you make notes about how aspects of your CVR project will address learning objectives.

By planning ahead, you can identify potential problems (and solutions)! We encourage you to share your plan with your instructors, this way they can provide preliminary approval, and additional suggestions/ insights regarding your proposed CVR deliverable.



Here is an example of a grading rubric and suggestions on how to change it to meet the new requirements / outcomes.

Category	Expectation	Value	
Cover page	<ul style="list-style-type: none"> Title, Class, Students name, Date Neatly finished – no errors 	5%	turn this into title & credits
Introduction	<ul style="list-style-type: none"> The introduction is engaging Clearly states the paper's purpose (thesis/ topic), and "why we should care" and Previews the structure of the paper 	10%	might remove
Body	<ul style="list-style-type: none"> Clearly describes findings from the literature and how it applies to the topic Concepts learned in class are appropriately covered Addresses emerging issues (e.g. ethics, sustainability, social determinants of health) Include as appropriate figures, graphs, and tables 	20%	might remove, can replace with appropriate "scenes" that convey the topic in a way that is easy to understand
Discussion	<ul style="list-style-type: none"> Provides critical commentary of topics discussed in the paper Address issues/ questions raised in class Provides logical/ feasible recommendations Considers future area of study/ evaluation/ implementation/ interest 	24%	
Conclusion	<ul style="list-style-type: none"> Restate the purpose/ thesis/ topic and Summarizes most important points/ evidence 	8%	
Citation & Bibliography	<ul style="list-style-type: none"> Reference list and embedded citations are in the correct format with no errors. Include more than 10 major peer-reviewed articles. 	8%	could be included in credits or as a separate document
Peer-edited draft	<ul style="list-style-type: none"> Append a peer-edited version of your paper. Track-changes should be visible 	5%	
Mechanics	<ul style="list-style-type: none"> No or few errors in grammar, punctuation, capitalization, and spelling 	10%	could be replaced with clarity of speech, flow, tone and volume
Organization / Flow	<ul style="list-style-type: none"> Writing demonstrates logical organization and subtle sequencing of ideas through well-developed paragraphs 	10%	
Total		100%	

needs to change - maybe ask for reflection notes while completing the project?

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Now create one for yourself:

Grading rubric elements

Percentage
Value

How can you address each element
with CVR?

Project Timeline

Keeping on-track and delivering projects on-time is one of the hardest skills to master, but is beneficial in every line-of-work. Because this is most likely the first CVR project you undertake, we want to help you think through the necessary steps.



Here is an example of a five-week project timeline with weekly tasks:

Week	Tasks	Member Responsible
1	<ul style="list-style-type: none">Brainstorm project ideas (have fun with this!)<ul style="list-style-type: none">Think about which are feasible to complete using VRIt can help to envision a preliminary storyboard	Entire team
2	<ul style="list-style-type: none">Create your storyboard/ narrative and start the scriptScout possible locations for filming	Vlad is good at drawing
3	<ul style="list-style-type: none">Take a first stab at filming (remember the "Filming Tips" sheet!)Analyze what works and what doesn't with this mediumMake note: What may you need to add to complete all aspects required for the project?<ul style="list-style-type: none">Maybe some additional audio to convey parts of the story, or add narrative, music?Do you need to add title, credits (e.g. if you need to cite sources?)	Eva to complete this by xx latest
4	<ul style="list-style-type: none">Continue/ complete filming (make any changes to location, lighting etc. identified in your initial attempts)Revisit the grading rubric and assignment requirements to make sure you are providing everything	Lora promised to work on this
5	<ul style="list-style-type: none">Finish editingTake a look at your magnificent work on Youtube, but also in a VR HMDUpload/ submit your assignment!	

Try to build-in buffer time, in case unexpected things delay aspects of the project (for example it rained on the day you needed to film outside)

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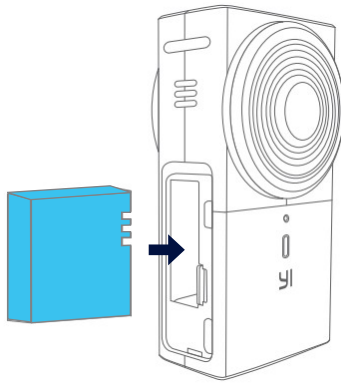
Now create one for yourself:

Week	Tasks	Member Responsible
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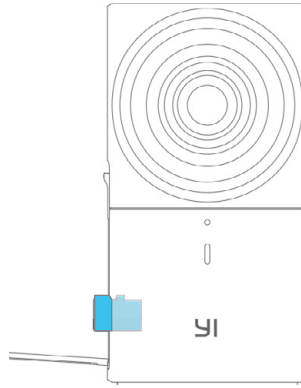
Film Prep Checklist

Before you use the camera to film, make sure you have the following prepared:

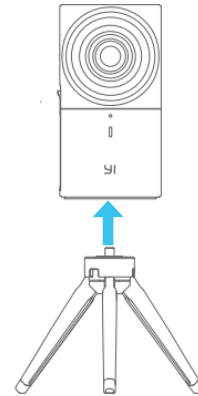
Equipment



- 1 Make sure the battery is charged and inserted into the camera



- 2 Make sure the microSD memory card is in the camera



- 3 Pack the tripod (the camera comes with a mini one but you may need a taller one to have camera at eye-level)

Resources & Forms



- 4 A copy of the Filming Tips

Photographs and Video Consent (Short Form)

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Print Name: _____

Signature: _____ Date: _____

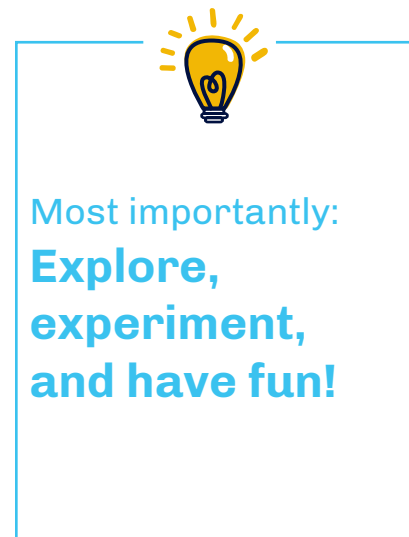
I hereby grant permission to York University to use my name with these images and recordings.

Signature: _____ Date: _____

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CVPRICULUM

- 5 A copy of the Consent Form



Personal Reflections

Reflect on your experience completing the CVR project, and answer the questions below.

Think about what worked and what didn't?

What did you enjoy?

What challenges did you face?

How could we improve the CVR program? (are you willing to share with the CVR team? - you can do so anonymously here)

Congratulations on completing your very own CVR project! We hope it was fun and educational (perhaps in that order)! Please share your experiences with us, and let us know how we can make the program better!