

Imagination Quest: A Journey from Space

Course Outline:

Week	Topic	Concept
Week #1 (Sept. 11-17)	-Introductions -Course Outline -Moodle navigation	-Class expectations -Objectives -Assessment -FOIPPA -Introduction to Moodle (LMS)
Week #2 (Sept. 18-24)	-Safety Procedures	-Tools Safety -Drill Press Safety -Soldering Iron Safety
Week #3 (Sept. 25- Oct. 1)	-Robotics 101	-What is a Robot? -Learning to Code -
Week #4 (Oct. 2-8)	-Introduction to TinkerCAD	-What is TinkerCAD? -Design a rounded box -Design a nametag
Week #5 (Oct. 9-15)	-TinkerCAD programming	-Design a Fidget Spinner -Design a Minion
Week #6 (Oct. 16-22)	-Components of a 3D printer	-What is 3D printing -Components to 3D printers -How does 3D printing work -Health and Safety
Week #7 (Oct. 23-29)	-3D Printing	-General principles to 3D printing: modeling, printing, & finishing -How to transfer TinkerCAD images to 3D printing software -How to 3D print
Week #8 (Oct. 30- Nov. 5)	-Digital Media Literacy	-What is media? How do we use it? -Safety when using Media -What is a Story? -Story Development: How does your robot get home from Mercury?
Week #9 (Nov. 6-12)	-Stop Motion Video Creation	-What is a Stop Motion Video -Creating props -Setting the stage -Photographing scenes for storytelling
Week #10 (Nov. 13-19)	-Advanced Editing	-Editing scenes (cropping, colour correcting, cutting out sound, graphics and tilting editor, transitions, etc.) -Adding audio -Adding text