Information Technology Courses

Course	Course Code	Description
Computer Studies 10	MCSTU10	Programming - Graphics programming - App programming - HTML and CSS intro web design - Arduino programming - Python - Microbit programming 3D Animation - Introduction to 3D modeling and animation Hardware - Intro to Arduinos, breadboards and firmware Computer Science - Binary & hexadecimal numbers - Boolean logic
No Prior Experience Necessary		- Logic design

Animation

Course	Course Code	Description
Animation 11 (Digital Communications 11) No Prior Experience Necessary, or have taken MCSTU10, or for Grade 10+ students	MDCOM11	3D Animation - Learn the basics of 3D animation - Create 3D models - Design your dream home - Create animated shorts and poses using 3D rigs
Animation 12 (Digital Media Development) No Prior Experience Necessary, For Grade 11+ students	MDMD-12	3D Animation Projects - Enhance your animation skills by learning about constraints, exaggeration and advanced mechanics. - You can choose to build your portfolio working independently on projects
Animation 13	MIDS-2A	3D Animation Independent Study

Programming

Course	Course Code	Description
Computer Science 11	MMACS11	Python
No Prior Experience Necessary		- Introduction to Computer Science
		- Basic Artificial Intelligence
Computer Science 12	MMACS12	C++
		 Learn how to make secret messages
		 How to hack encrypted files
		- Program 2D/3D graphics
Programming 11	MCMPR11	Programming (PHP)
		 Create your own social networking site,
		online shopping site, forum etc.
		Web Design
		 How to design a good website
Taken MCSTU10 or no prior		 Make your website interactive
experience necessary for		Database
current Grade 10+ students		- Learn how to manipulate data
Programming 12	MCMPR12	AI, Data Science and Machine Learning
Independent Study 11/12 IT	MIDS-1D	Independent Study 11 for Programming, Network
	MIDS-2D	
		Independent Study 12 for Programming
		Make your own project. Student have created their
		own 3D video games, done cyber security projects
		or worked on their own project ideas.

Networking

Course	Course Code	Description
Taken CS10 or no prior experience necessary for current Grade 10+ students	YCAIS1C	 Learn how computers communicate Learn how to hack into other systems by studying cyber security Create your own cables Filter traffic. For example, block certain people from receiving email but they can still send emails.
Networking 12	YCAIS2F	 Must have Networking 11 Set up switches Preparation for a Network certification

Operating Systems

Course	Course Code	Description
Hardware 10 No Prior Experience Necessary	YCAIS0B	 Learn how computers work Learn how to build a computer Customize your own computer Share files, folders and games Plenty of hands-on experience working with
Hardware 12	YCAIS2B	computers - Preparation for COMPTIA A+ certification - Configure routers, SOHO network
		 Troubleshoot computer hardware and software Plenty of hands-on experience working with computers
No Prior Experience Necessary	YCAIS2H	 Set up a server (for games, web, files) Create user and group accounts Learn how to share files/directories Filter through files and get information you're looking for Create web robots, web crawlers, Preparation for a Linux certification Linux is used to hack systems it is useful in cyber security challenges

Programming Tutor

Course	Course Code	Description
Programming 11 Tutor	MIDS-1E	Help Programming 11 students learn how to create
Taken Programming 11		interactive online sites during Programming 11 class

