

## Academy of Information Technology

### Course Summary

Code	Level	Course	Periods	Credits
518	I	Strategies for Success with Computer Apps. ....	5	10
590	I	Introduction to AOIT & Web Design.....	5	10
591	I	Systems & Databases .....	5	10
592	I	Digital Media & Advanced Web Design.....	5	10
593	H	CISCO Exploratory Networking .....	5	10
596	H	Advanced Computer Concepts .....	5	10
175	I	Computer Programming & Gaming .....	5	10
176	I	Computer Programming 2 .....	5	10
	I	Video Production.....	5	10
574		MS excel.....	2	4
576		MS access .....	2	4

### Course Descriptions

Code	Level	Course
518	I	Strategies for Success with Computer Applications
<p>This course of study helps to orient students to the world of school and work through the use of computer applications. The ninth grade is the ideal time to take this course as it addresses the need for students to develop good work and study habits. Additionally, this course helps students to prepare portfolios, learn about school resources, develop career plans, start preparing for college, and develop solid interpersonal skills.</p>		
590	I	Introduction to AOIT & Web Design
<p>Students are presented with the basic concepts of information technology, career opportunities, and the impact of information technology in business and industry. This course also includes the basics of web design and the technology, which makes it possible. Open to students in grade 10 only.</p>		
592	I	Digital Media & Advanced Web Design
<p>This course will cover digital media and advanced web tools. In the digital media area, students will study audio, video, graphics, text, and animation tools. Students will learn to use Photoshop, flash, and the movie editing program Premiere. In the advanced web tools area, students are introduced to more advanced web topics such as Dream Weaver, web scripting, web server administration, and the various multimedia tools and concepts. Tool sets and concepts such as plug-ins are covered.</p>		
593	H	CISCO Exploratory Networking
<p>Basic concepts of functionally connecting multiple computing devices are addressed in this course. Physical connections, as well as, logical connections are presented. Concepts such as bandwidth, access time, data rate, error detection and correction, as well as, other appropriate topics are covered. Upon successful completion of the course, students will receive CISCO certification—CCNA1.</p>		
596	I	Advanced Computer Concepts
<p>This course is a full year long course dedicated to the development of the school’s senior video. Students will plan, film, edit and produce a video of events and highlights from their senior year. The final component of the project will be the DVD produced of the video.</p>		

I            Video Production

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In this course students will be exposed through hands on application to all aspects of video production. From storyboarding, to filming, editing and producing, they will work on developing short production films throughout the year. They will be using cameras, camcorders, tripods, and video editing software (i-movie) and various video equipment throughout the course.

175        I            Computer Programming & Gaming

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In this course students learn how to describe, analyze, and solve programming problems, paying attention to details. These skills will be acquired while learning the syntax of the basic programming language. Also, students will design and write programs for computer games.

176        I            Computer Programming 2

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In this course students will learn advanced programming concepts, including arrays, graphics and logic. Students will also be introduced to new programming languages such as, Visual Basic, Java, and C++.

574                    MS Excel

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Students majoring in science, mathematics, engineering, or business should consider taking this course since many colleges and universities are expecting students to enter with an in-depth knowledge of this software. Students may choose after completing the course to take the Microsoft Office certification exam for EXCEL. Colleges and industry recognize this exam as proof of proficiency in the software. There is a two or three day a week option.

576                    MS Access

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Students majoring in science, mathematics, engineering, or business should consider taking this course since many colleges and universities are expecting students to enter with an in-depth knowledge of this software. Students may choose after completing the course to take the Microsoft Office certification exam for ACCESS. Colleges and industry recognize this exam as proof of proficiency in the software. There is a two or three day a week option.