



Course of Study

ICS20 – Introduction to Computer Studies

Grade 10, Open

V. Rao, Sept 2021

A. COURSE DESCRIPTION

This course introduces students to computer programming. Students will plan and write simple computer programs in **HTML**, **CSS**, and **p5.js** by applying fundamental programming concepts, and learn to create clear and maintainable internal documentation. They will also learn to manage a computer by studying hardware configurations, software selection, operating system functions, networking, and safe computing practices. Students will also investigate the social impact of computer technologies, and develop an understanding of environmental and ethical issues related to the use of computers.

PREREQUISITE: None

B. OVERALL EXPECTATIONS

Strand	Expectations
Understanding Computers	<ul style="list-style-type: none">● describe the functions of different types of hardware components, and assess the hardware needs of users;● describe the different types of software products, and assess the software needs of users;● use the basic functions of an operating system correctly;● demonstrate an understanding of home computer networking concepts;● explain the importance of software updates and system maintenance to manage the performance and increase the security of a computer.
Introduction to Programming	<ul style="list-style-type: none">● describe fundamental programming concepts and constructs;● plan and write simple programs using fundamental programming concepts;● apply basic code maintenance techniques when writing programs.
Computers and Society	<ul style="list-style-type: none">● describe key aspects of the impact of computers and related technologies on society;● describe computer use policies that promote environmental stewardship and sustainability;● describe legal and ethical issues related to the use of computing devices;● describe post secondary education and career prospects related to computer studies.

C. ACHIEVEMENT CATEGORY WEIGHTINGS

A student’s final grade in this course will consist of:

- 80% Cumulative Term Work
- 20% Summative Evaluation(s)



D. UNITS OF STUDY

#	Unit Name	Evaluations	[K]	[A]	[C]	[T]
1	The Internet (HTML + CSS)	Daily Work / Learning Journal		✓	✓	
		Quizzes	✓			
		Assignment				✓
2	Computer Systems (p5.js Coding)	Daily Work / Learning Journal		✓	✓	
		Quizzes	✓			
		Assignment				✓
3	Technology Impacts (p5.js Coding)	Daily Work / Presentation		✓	✓	
		Quizzes	✓			
		Assignment				✓
4	Artificial Intelligence (p5.js Coding)	Daily Work / Learning Journal		✓	✓	
		Quizzes	✓			
		Assignment				✓
5	Putting It All Together!	Summative Project	✓	✓	✓	✓

E. LEARNING SKILLS

Learning skills, such as responsibility, organization, independent work, collaboration, initiative, and self-regulation will be assessed (and self-assessed) throughout the year, and will be included on the student’s report card each term.

F. STUDENT EXPECTATIONS

Students Are Expected To..

- **Treat others as you wish to be treated.** This means showing respect for yourself, your classmates, and your teacher.
- Demonstrate keen attendance, punctuality, attentive listening, and participation in class activities (whole class, independent, and team work).
- Complete all homework and assignments on time, and effectively use class time.
- Strictly follow the **TDSB acceptable computer use policy** (see Student Agenda). All students and their parents are required to sign an agreement stating that they have read and understood the policy.
- **NOT** bring any food or (uncovered) drinks into the lab and take care with our classroom computers.
- **NOT** use electronic devices (phones, tablets, laptops) without the consent of your teacher, and for curriculum-related purposes only.

Illness and Other Absences

Students should notify their teacher in advance of any planned absences due to school activities. For absence due to illness, students must provide a slip from the office or a parental note on the first day they return. The note must contain the following: student name, date(s) of absence, reason for the absence, and a parent/guardian signature.

Missed Tests/Assignments

Students who are sick on an assignment or test due date must bring a note on the first day they return and make arrangements with the teacher so that the tests/assignments can be completed. **Failure on the student's part to make such arrangements or failure to show up for a test retake will result in a mark of zero being assigned for any missed evaluations.**

Late Assignments

According to school policy, **late assignments will be penalized by 5% per day** (to a max of 10%). A grade of **zero** will be assigned if the teacher has returned the marked assignment to the rest of the class (i.e., the "ultimate deadline").

Plagiarism

Copying the work of others will not be tolerated and a **zero** grade will be assigned for intentional infractions. Any student found **giving** their work to be copied will **also** be assigned a **zero** grade. In cases of repetitive plagiarism, parents and the office will be notified.