



Preston High School

550 Rose St, Cambridge, Ontario N3H 2E6 ☎ 519-653-2367 ☎ phs.wrdsb.ca

Course Outline: Introduction to Computer Programming • College Preparation • ICS 3CI

Prerequisite: None Credit Value: [1]

Ministry Document: The Ontario Curriculum, Grades 10 to 12: Computer Studies 2008

Semester: 2

Block: B

Room: 221

Teacher: Z. Rexhepi

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Big Ideas:

Students will study Programming Concepts and Skills, Software Development, Computer Environments and Systems, and Topics in Computer Science.

Essential Learnings:

Students will have multiple opportunities to demonstrate essential learning. Successful demonstration of **all essential learning** listed below is required to earn the course credit.

Programming Concepts and Skills

Students will:

- Demonstrate the ability to use different data types and Expressions
- Demonstrate the ability to use control structures and simple algorithms
- Use proper code maintenance techniques

Software Development

Students will:

- Use a variety of problem-solving strategies to solve different types of problems independently and as part of a team
- Design simple algorithms according to specifications
- Design software solutions to meet a variety of challenges
- Apply a software development life-cycle model to a software development project

Computer Environments and Systems

Students will:

- Relate the specifications of computer components to user requirements
- Use appropriate file maintenance practices to organize and safeguard data
- Demonstrate an understanding of the software development environment

Topics in Computer Science

Students will:

- Describe policies on computer use that promote environmental stewardship and sustainability
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- Describe policies on computer use that promote safe computing
 - Demonstrate an understanding of emerging areas of computer science research
 - Describe postsecondary education and career prospects related to computer studies
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Guidelines for Assessment, Evaluation, & Reporting:

It is important for students to develop good personal management skills (such as time management and planning, and communication with teachers). These skills will be reflected in the **learning skills** area of the report card.

Teachers will gather evidence of student learning through observations, conversations, and student-produced work. *To earn this credit, the student will provide evidence of all the essential course learning, with their own work:*

Final evaluation and mark will be based on:

- Seventy percent (70%) of the final mark will come from term work, balanced across all essential learnings, using a variety of assessment tools.
- Thirty percent (30%) will come from final evaluations, balanced across all essential learnings, using a variety of assessment tools.

Report card grades will reflect the student's most consistent level of achievement, with consideration given to more recent evidence.

Typical evaluation assessment tools and weightings

	Final Weight
Tests, Quizzes, Assignments	70%
Final Project/Summative	30%

1. **Late and Missing Assignments** limit the evidence that teachers need to plan, assess and evaluate student learning. *To earn this credit, the student must provide evidence of all the essential course learning.*
2. **Cheating and Plagiarism:** It is important for students to do their own best work. Most assignments for this class are done within the classroom, observed by the teacher, and this helps to minimize the chances of cheating and plagiarism. In the event that cheating or plagiarism occurs, the following consequences may be implemented, in consultation with administration, depending on the situation:
 - i. The student may be required to redo all or part of the assignment or assessment.
 - ii. The student may be required to complete an alternate assignment or assessment.
 - iii. The student's work may be treated as a missed assignment.

There may also be other consequences that are determined to be appropriate (e.g. detention, suspension, etc.) as per the school's progressive discipline process. Parents/guardians will be informed



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about the infraction and the consequences. Please refer to your student handbook for more details on these policies and other academic procedures.

3. Learning Skills: The Learning Skills and Work Habits section of the provincial report card is an integral part of a student's learning. Students will be assessed in the following areas:

- Collaboration
- Independent Work
- Initiative
- Organization
- Responsibility
- Self-Regulation

The following scoring system is used for Learning Skills:

E → Excellent; G → Good; S → Satisfactory; N → Needs Improvement

Signatures:

Please sign below indicating you have read and understood this course outline, including the requirements for successful completion of this course, and return this sheet to your teacher:

Student

Parent/Guardian

Date

Date

Please indicate how you would prefer to be contacted for updates on your student's progress: