



Cardinal Leger Secondary School

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We believe that each one, created in the image and likeness of God, is called by name into the Dufferin-Peel community to realize the Ontario Catholic School Graduate Expectations to the fullest extent possible as we all journey from the early years to vocation.

COURSE OUTLINE

Department:	Business and Technology Department
Course:	Computer Science – University
Course Code:	ICS 3U1

Common Course Calendar	Course Description:	
	<p>This course introduces students to computer science. Students will design software independently and as part of a team, using industry-standard programming tools and applying the software development life-cycle model. They will also write and use subprograms within computer programs. Students will develop creative solutions for various types of problems as their understanding of the computing environment grows. They will also explore environmental and ergonomic issues, emerging research in computer science, and global career trends in computer-related fields</p> <p>This course will help students address the Ontario Catholic Graduate Expectation that they become effective communicators who use and integrate the Catholic faith tradition in a critical analysis of the arts, media, technology and information systems.</p>	
Ministry/ICE Curriculum Documents	Strand/Unit Title	Corresponding Catholic Graduate Expectation Indicators for each Strand/Unit
	<p>Programming Concepts and Skills</p> <ul style="list-style-type: none"> • Use various data types including one-dimensional arrays • Use control structures and simple algorithms in computer programs • Use subprocedures within computer programs • Use coding conventions, documentation, error correction <p>Software Development</p> <ul style="list-style-type: none"> • Use a variety of problem-solving strategies • Design software solutions to meet a variety of challenges • Design algorithms according to software specifications • Apply a software development model such as pseudocode <p>Computer Environments and Systems</p> <ul style="list-style-type: none"> • Relate the specifications of components to user requirement • Use appropriate file maintenance to organize and protect data • Demonstrate an understanding of the software development process 	<p>CGE2e</p> <p>CGE2b</p> <p>CGE4f</p> <p>CGE2b</p> <p>CGE4f</p> <p>CGE3c</p> <p>CGE4f</p> <p>CGE2e</p> <p>CGE3f</p> <p>CGE5h</p> <p>CGE3c</p>

	Topics in Computer Science <ul style="list-style-type: none"> • Learn computer policies that promote environmental stewardship / sustainability • Explore some emerging areas of computer science research • Describe education and career prospects in computer science 	CGE7i CGE5e CGE7j
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Assessment and Evaluation:

Category Weightings	Weight %
Knowledge/Understanding	25
Thinking	25
Application	30
Communication	20

Final Summative Assessments	Overall Weighting
Term Work	70 %
Course Culminating	15%
Exam	15%

Learning Skills and Work Habits

E= excellent G= good S=satisfactory N= needs improvement

Responsibility	<ul style="list-style-type: none"> • fulfills responsibility and commitments • takes responsibility for and manages own behavior • completes and submits class work, homework, and assignments according to agreed-upon timelines
Organization	<ul style="list-style-type: none"> • devises and follows a plan and process for completing tasks • establishes priorities and manages time • identifies, gathers, evaluates, and uses information, technology, and resources to complete tasks
Independent Work	<ul style="list-style-type: none"> • independently monitors, assesses, and revises plans to complete and meet goals • uses class time appropriately to complete tasks • follows instructions with minimal supervision

Collaboration	<ul style="list-style-type: none"> • accepts various roles and an equitable share work in a group • builds healthy peer-to-peer relationships • responds positively to the ideas, opinions, values, and traditions of others
Initiative	<ul style="list-style-type: none"> • Looks for and acts on new ideas and opportunities • Approaches new tasks with a positive attitude
Self-Regulation	<ul style="list-style-type: none"> • Sets own goals and monitors progress towards achieving them • Seeks clarification or assistance when needed

Missed/Late/Incomplete Assignments

It is the student's responsibility to address missed, late, or incomplete assignments. Students are expected to complete assignments and to adhere to assignment deadlines as follows.

DUE DATE	10% PENALTY	CLOSURE DATE
A due date is set by teacher	1 school day late -3% 2 school days late – 6% 3 school days late – 10% Maximum penalty of 10%	Once the closure date has passed, work is considered incomplete and a mark of zero applies.

Parent Signature _____ Student Signature _____