



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 Engineering Technology (Robotics Emphasis)
Course Code:	TER 4M1

Common Course Calendar	Course Description:	
	<p>This course extends students' understanding of computer systems and computer interfacing with external devices. Students will assemble computer systems by installing and configuring appropriate hardware and software, and will learn more about fundamental concepts of electronics, robotics, programming, and networks. Students will examine related environmental and societal issues, and will explore postsecondary pathways leading to careers in computer technology.</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>Computer Technology Fundamentals</p> <ul style="list-style-type: none"> • Computer Hardware • Computer Systems • Electronics, Robotics, and Computer Interfacing (Identify components and understand how they operate. Perform calculations for electronic circuits.) • Networking Concepts • Data Representation and Digital Logic 	<p>CGE2e CGE2e CGE2b</p> <p>CGE2e CGE4f</p>

	<p>Computer Technology Skills</p> <ul style="list-style-type: none"> • Hardware Solutions • Computer Systems • Electronics, Robotics, and Computer Interfacing (Design, build and troubleshoot circuits. Create schematic diagrams.) • Network Setup and Management • Computer Programming <p>Technology, the Environment, and Society</p> <ul style="list-style-type: none"> • Technology and the Environment • Technology and Society <p>Professional Practice and Career Opportunities</p> <ul style="list-style-type: none"> • Health and Safety • Ethics and Security • Career Opportunities 	<p>CGE3c CGE3c CGE4f</p> <p>CGE5h CGE3c</p> <p>CGE7i, CGE7j CGE7i, CGE7j</p> <p>CGE7h, CGE7i CGE7b CGE7j</p>
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Assessment and Evaluation:

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

Final Summative Assessments	Overall Weighting
Term Work	70 %
Course Culminating	10%
Exam	20%

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 _____