ST. THOMAS AQUINAS 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 realise the Ontario Catholic School Graduate Expectations to the fullest extent possible as we all journey from the early years to vocation.

COURSE OUTLINE

Department Name:	Computer Studies

Course Name:	Grade 12 Computer Science
Course Code and Section:	ICS 4U1

Course Description:	This course enables students to further develop knowledge and skills in computer science. Students will use modular design principles to create complex and fully documented program, according to industry standards. Student teams will manage a large software development project, from planning through to project review. Students will also analyse algorithms for effectiveness. They will investigate ethical issues in computing and further explore environmental issues, emerging technologies, areas of research in computer science, and careers in the field.
Strands/ Units:	Designing and Implementing Data Structures 25 hours Building Software Libraries 18 hours Exploring Advanced Algorithms 22 hours Managing Software Projects 18 hours Applying Project Management and Software Dev't Skills 27 hours
	This course will help students address the Ontario Catholic School Graduate Expectations 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.

Assessment and Evaluation:

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

Final Summative Assessments	Grade Distribution
Term Work	70%
Course Culminating	15%
Exam	15%