# CPA Programming

Version 2

Published  3/2/2023 by  Amruta Kiran Chopade   Last updated  3/2/2023 7:48 PM by Amruta Kiran Chopade

| Program Code: | CPA |
|---|---|
| Credential Awarded: | Advanced Diploma |
| Campus: | Newnham & Seneca International Academy, Markham |
| Duration: | 3 years (6 academic semesters) |
| Starts In: | September, January, and May |

## ACADEMIC YEAR 2022-23                                    >

### Program Learning Outcomes:

As a graduate, you will be prepared to reliably demonstrate the ability to:

- Identify, analyze, design, develop, implement, verify and document the requirements for a computing environment.

- Diagnose, troubleshoot, document and monitor technical problems using appropriate methodologies and tools.

- Analyze, design, implement and maintain secure computing environments.

- Analyze, develop and maintain robust computing system solutions through validation testing and industry best practices.

- Communicate and collaborate with team members and stakeholders to ensure effective working relationships.

- Select and apply strategies for personal and professional development to enhance work performance.

- Apply project management principles and tools when responding to requirements and

monitoring projects within a computing environment.

- Adhere to ethical, social media, legal, regulatory and economic requirements and/or principles in the development and management of the computing solutions and systems.
- Investigate emerging trends to respond to technical challenges.
- Gather, analyze and define software system specifications based on functional and non-functional requirements.
- Design, develop, document, implement, maintain and test software systems by using industry standard software development methodologies based on defined specifications and existing technologies/frameworks.
- Select and apply object-oriented and other design concepts and principles, as well as business requirements, to the software development process.
- Gather requirements and model, design, implement, optimize, and maintain data storage solutions.
- Integrate network communications into software solutions by adhering to protocol standards.

---

**Degree Pathway Options:**

**Transfer Pathway into BSD: Honours Bachelor of Technology - Software Development**

**Transfer Pathway into BTM: Honours Bachelor of Commerce - Business Technology Management**

**Transfer Pathway into DSA: Honours Bachelor of Data Science and Analytics**

---

**Further Information About This Program from Seneca's Website**

tags : diploma, sdds