

CPP - Computer Programming

Version 9

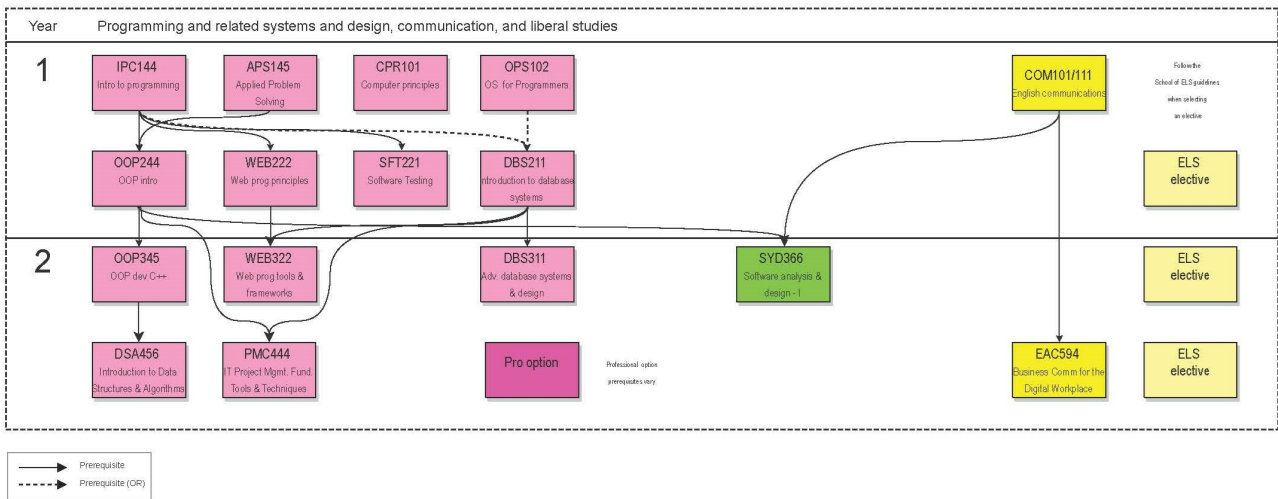
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Program Code:	CPP
Credential Awarded:	Diploma
Campus:	Newnham & Seneca International Academy, Markham
Duration:	2 years (4 academic semesters)
Starts In:	January, and May and September

Program Map

Computer Programming (CPP) Curriculum

Entry Date: September 2023 or later



Program Curriculum

Computer Programming - CPP - 24-25				
Semester	Course Code	Course Name	Pre-requisite	
Semester 1	APS145	Writing Strategies	None	
	IPC144	Introduction to Programming Using C	None	
	OPS102	Operating Systems for Programmers	None	
	CPR101	Computer Principles for Programmers	None	
	COM101 or COM111	Communicating Across Contexts (Enriched)	None	
	Semester 2	OOP244	Introduction to Object Oriented Programming	IPC144 and APS145
		WEB222	Web Programming Principles	IPC144
SFT221		Software Testing	IPC144	
DBS211		Introduction to Database Systems	IPC144 or OPS102	
LSO		English and Liberal Studies Option		
Semester 3		OOP345	Object-Oriented Software Development Using C++	OOP244
		DBS311	Advanced Database Systems and Design	DBS211
	WEB322	Web Programming Tools and Frameworks	WEB222 and DBS211	
	SYD366	Requirements Gathering using OD Models	OOP244 and COM101/111	
	LSO	English and Liberal Studies Option	N/A	
	Semester 4	EAC594	Business Communication for the Digital Workplace	COM101 or COM111
		DSA456	Introduction to Data Structures and Algorithms	OOP345
PMC444		IT Project Management Fundamentals: Tools and Techniques	DBS211 and OOP244	
LSO		English and Liberal Studies Option		
PRO		Professional Option		

Pro-Options- Fall 2024 Offerings		
Course Code	Course name	Pre-requisites
DBA625	Database Administration	DBS311
DEN502	Digital Entrepreneurship	EAC594
ELAS21	Ethics, Law and Application Development	DBS211
MAP523	Mobile App Development - IOS	OOP345 and WEB322

MAP524	Mobile App Development - Android	OOP345
MST300	Introduction to Microsoft Cloud Technologies	WEB322
	Analysis and Design Using OO Models	
SYD466	*will be permitted to take the course as Pro-option after CPA enrolment	SYD366
UNIX510	UNIX Bash Shell Scripting	OOP345 and OPS102
	Web Programming for Apps and Services	
WEB422	*will be permitted to take the course as Pro-option after CPA enrolment	WEB322

Program Learning Outcomes

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

- Identify, analyze, develop, implement, verify and document the requirements for a computing environment.
- Contribute to the diagnostics, troubleshooting, documenting and monitoring of technical problems using appropriate methodologies and tools.
- Implement and maintain secure computing environments.
- Implement robust computing system solutions through validation testing that aligns with 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 working on projects within a computing environment.
- Adhere to ethical, legal, and regulatory requirements and/or principles in the development and management of computing solutions and systems.

Degree Pathway Options:

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

Further Information About This Program from Seneca's Website

Student Appeals:

- 1st Informal appeal form
 - Link to Students: **INSTRUCTIONS FOR SUBMITTING INFORMAL ACADEMIC APPEALS (sharepoint.com)**
- 2nd Formal appeal – Seneca forms
 - Formal Appeal Form **INSTRUCTIONS FOR SUBMITTING FORMAL ACADEMIC APPEALS**

tags : cpp, scpa