

Specialist High Skills Major Information & Communications Technology 2025-2026

Profile

Information and Communications Technology (ICT) sector continues to transform our economy and everyday life. The total number of employees in the sector is on the rise, and overall, they are well compensated. Students enrolled in this SHSM will be involved in today's rapid and exciting changes in technology and will contribute to new and emerging media and technologies in the years to come. Kirkland Lake District Composite Secondary (KLDCS) students enrolled in the Information and Communications Technology (ICT) Specialist High Skills Major will be trained using professional quality photography equipment, design clothing and manage budgets in the Vinyl Centre. Students will also develop customer service and technical support skills while working at the help desk. The Kirkland Lake District Greenhouse is a state-of-the-art centre, where people and ideas grow.

Certifications (6)

Compulsory (3):

- CPR and AED
- Standard First Aid
- WHMIS

Electives (3) (more options at Ontario.ca):

- Technical Support
- Advanced training in a technique
- Intellectual property
- Sector-specific software
- Basic electrical safety
- Customer service
- Lighting and sound equipment maintenance
- Electronics - basic
- Internet security
- Project management
- Specialized Skills Training
- Computer Hardware
- Network Cabling
- Recording Equipment
- Portfolio Development
- Adobe
- Health and Safety – Basic

Other Opportunities:

- Participation in Skills Ontario Competitions
- Community Partnerships
- Robotics

Possible Occupations in the Sector

Workplace	Apprenticeship	College	University
Desktop Publishing Operator Retail Salesperson Network Satellite Dish Installer Help Desk Cable Guy	Computer Network Technician Network Cabling Help Desk Support Analyst	Broadcast Technician Web Designer and Developer Graphic Designer	Computer Engineer Computer Programmer Software Engineer

Additional Information

- SHSMs are for students in all four pathways: Workplace, Apprenticeship, College, and University.
- Major credits may be offered in school, but additional courses are offered through eLearning and booklet courses.
- You can indicate your interest at www.myblueprint.ca or speak with your Guidance Counsellor.
- There are no extra credits required - the SHSM is obtained within the 30 OSSD credits.
- SHSMs are two-year programs and are made up of Grade 11 and 12 courses.
- There are no additional fees for students to participate in a SHSM.



ICT SHSM Pathway (Total of 9 credits)

Please check the Ministry's Master List for more approved courses

Grade 11 Courses

Grade 12 Courses

Major Credits (4 credits)

Students can now substitute 3 additional Cooperative Education credits related to their sector in place of 3 major credits

AMD3M – Electronic Music
 AMM3M – Music & Computers
 ASM3M – Media Arts
 ASM3O – Media Arts
 BTA3O – Information and Communication Technology: The Digital Environment
 ICS3C – Introduction to Computer Programming
 ICS3U – Computer Science
 SPH3U – Physics
 TDJ3O – Technological Design and the Environment
 TDJ3M – Technological Design
 TEJ3E – Computer Technology
 TEJ3M – Computer Engineering Technology
 TGJ3O – Communications Technology: Broadcast and Print Production
 TGJ3M – Communications Technology
 TMJ3C – Manufacturing Engineering Technology
 TMJ3E – Manufacturing Engineering Technology
 TMJ3M – Manufacturing Engineering Technology

AMD4M – Electronic Music
 AMM4M – Music and Computers
 ASM4M – Media Arts
 ICS4C – Computer Programming
 ICS4U – Computer Science
 IDC4U – Interdisciplinary Studies
 SPH4C – Physics
 SPH4U – Physics
 TDJ4O – Technological Design in the Twenty-first Century
 TDJ4M – Technological Design
 TEJ4E – Computer Technology
 TEJ4M – Computer Engineering Technology
 TGJ4O – Communications Technology
 TGJ4M – Communications Technology
 TMJ4C – Manufacturing Engineering Technology
 TMJ4E – Manufacturing Engineering Technology
 TMJ4M – Manufacturing Engineering Technology

English (1 credit)

NBE3C – Understanding Contemporary First Nations, Métis, and Inuit Voices
 NBE3E – Understanding Contemporary First Nations, Métis, and Inuit Voices
 NBE3U – Understanding Contemporary First Nations, Métis, and Inuit Voices

ENG4C – English
 ENG4E – English
 ENG4U – English
 OLC4O – Ontario Secondary School Literacy Course

Math (1 credit)

MBF3C – Foundations for College Math
 MCF3M – Functions and Applications
 MEL3E – Mathematics for Work and Everyday Life
 MCR3U – Functions

MAP4C – Foundations for College Mathematics
 MCT4C – Mathematics for College Technology
 MDM4U – Data Management
 MCV4U – Calculus and Vectors
 MHF4U – Advanced Functions
 MEL4E – Math for Work and Everyday Life

Other (1 credit)

Students can substitute 1 additional Cooperative Education credit related to their sector in place of 1 other credit

ADA3O – Drama
 ADA3M – Drama
 AMM3M – Music & Computers
 ASM3M – Media Arts
 ASM3O – Media Arts
 AVI3O – Visual Arts
 AVI3M – Visual Arts
 BDI3C – Entrepreneurship: The Venture
 BDP3O – Entrepreneurship: The Enterprising Person
 BMX3E – Marketing: Retail and Service
 BTA3O – Information and Communication Technology: The Digital Environment
 SCH3U – Chemistry
 SPH3U – Physics
 SVN3E – Environmental Science

AMM4M – Music and Computers
 AVI4E – Visual Arts
 AVI4M – Visual Arts
 ADA4M – Drama
 BBB4M – International Business Fundamentals
 SCH4C – Chemistry
 SCH4U – Chemistry
 SPH4C – Physics
 SPH4U – Physics
 OLC4O – Ontario Secondary School Literacy Course

Cooperative Education (2 credits taken in grade 11 OR 12)

Summer co-op available.



Specialist High Skills Major I.C.T.

Student Name: _____

Year of graduation: _____

Pathway of interest:

☐ Apprenticeship

☐ College

☐ University

☐ Workplace

Certifications (Mandatory*): ☐ *Standard First Aid ☐ *CPR Training ☐ *WHMIS Training	Date Completed: _____ _____ _____	3 Sector Specific Certifications: ☐ _____ ☐ _____ ☐ _____	Date Completed: _____ _____ _____
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Pathway	Apprenticeship	College	University	Workplace
4 Major Credits: New: Students can now substitute 3 additional Cooperative Education credits related to their sector in place of 3 major credits	☐ _____ ☐ _____ ☐ _____ ☐ _____	☐ _____ ☐ _____ ☐ _____ ☐ _____	☐ _____ ☐ _____ ☐ _____ ☐ _____	☐ _____ ☐ _____ ☐ _____ ☐ _____
	☐ 1 extra sector-related coop credit _____ ☐ 1 extra sector-related coop credit _____ ☐ 1 extra sector-related coop credit _____			
1 English:	☐ _____	☐ _____	☐ _____	☐ _____
1 Math:	☐ _____	☐ _____	☐ _____	☐ _____
1 Other Required Credit: Students can substitute 1 additional Cooperative Education credit related to their sector in place of 1 other credit	☐ _____	☐ _____	☐ _____	☐ _____
	☐ 1 extra sector-related coop credit _____			
2 Sector Related Cooperative Education Credits: ☐ Coop _____ ☐ Coop _____	☐ Coop _____ ☐ Coop _____	☐ Coop _____ ☐ Coop _____	☐ Coop _____ ☐ Coop _____	☐ Coop _____ ☐ Coop _____

Minimum 1 Experiential Learning, 1 Reach Ahead Experience & 1 Sector-Partner Experience:

☐ Experiential: _____ Date: _____

☐ Reach Ahead: _____ Date: _____

☐ SPE: _____ Date: _____