

APPRENTICESHIP • COLLEGE • UNIVERSITY • WORKPLACE



Specialist High Skills Major Program

INFORMATION & COMMUNICATION TECHNOLOGY



what

INFORMATION & COMMUNICATION TECHNOLOGY Specialist High Skills Major

A Specialist High Skills Major is a ministry approved specialized program that allows students to focus their learning on a specific economic sector Information & Communication Technology, while meeting the requirements for the Ontario Secondary School Diploma. This program assists in their transition from secondary school to apprenticeship training, college, university, or the workplace. An SHSM enables students to gain sector-specific skills and knowledge in the context of engaging, career-related learning environments and helps them focus on graduation and on pursuing their postsecondary goals.

The SHSM–Information & Communication Technology enables students to build a foundation of sector-focused knowledge and skills before graduating and entering apprenticeship training, college, university, or an entry-level position in the workplace. Depending on local circumstances, this SHSM may be designed to have a particular focus – for example, on communication systems, computer systems, or software and digital media.



What do the students who successfully complete the Specialist High Skills Major Program receive?

- An Ontario Secondary Diploma with an embossed SHSM red seal
- An SHSM Record documenting their achievement
- Formal recognition on their Ontario Student Transcript
- Industry recognized certifications

SHSM Certifications provide students with an advantage when entering the workforce, regardless of their chosen career.



What specific credits do students need to successfully complete to earn an **INFORMATION & COMMUNICATION TECHNOLOGY SHSM** designation?

BUNDLE OF NINE (9) GRADE 11 AND 12 CREDITS			
Credits	Apprenticeship Training Grades 11 -12	College Grades 11 -12	University Grades 11 -12
Major Credits One credit may be substituted with a cooperative education credit (additional to the 2 required co-op credits)	4 Including at least one Gr. 11 and one Gr. 12 credit	4 Including at least one Gr. 11 and one Gr. 12 credit	4 Including at least one Gr. 11 and one Gr. 12 credit
English - including a CLA	1	1	1
Mathematics - including a CLA	1	1	1
The Arts or Business Studies or Science - including a CLA. May be substituted with 1 coop education credit (additional to the 2 required co-op credits)	1	1	1
Coop Education	2	2	2
Total Credits	9	9	9

The Benefits of an SHSM Designation are Endless

Students refine their skills and improve their work habits, gain confidence in their ability to succeed and see the connections between their studies, the world beyond high school and their future careers. Students experience a range of customized, career-focused learning opportunities that provide authentic learning experiences which outlines their achievements in a workplace setting. The focused learning experiences give students the opportunity to explore, identify, and refine their career goals and make informed decisions related to postsecondary education.



How do I get more information about the Information & Communication Technology Specialist High Skills Major?

For more specific information, please speak with your Information & Communication Technology Teacher or Guidance, or visit DSBN.org/SHSM

Certifications

1

3 Specialized
Bundle of
Nine Senior
Credits

2 Experiential
Learning

5 Reach
Ahead

4 (SPCE) Sector-
Partnered
Contextualized
Experience

Photo by DSBN Alumni Kevin Unger



(SPCE) These are co-delivered by teachers and a sector partner and involve activities related to Innovation, Creativity and Entrepreneurship (ICE), Coding or Math Literacy. One or more SPCE's must be completed by the time of graduation to be eligible for the SHSM Red Seal. These Essential Skills are transferable from school to work, job to job, and sector to sector.

For more information visit [DSBN.org/SHSM](https://www.dsbnet.org/SHSM)



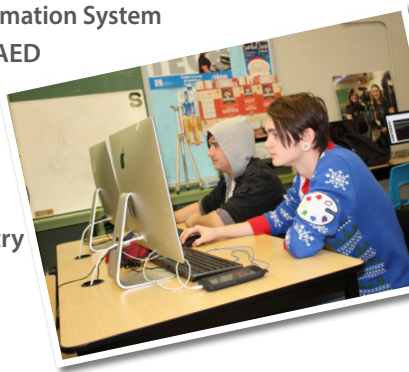
Focus Your Learning on Your Interests and Passions

Earn Industry Recognized Certifications Post-Secondary Opportunities

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1 Certifications

- WHMIS - Workplace Hazardous Materials Information System
- CPR - Cardiopulmonary Resuscitation with AED
- Standard First Aid
- Plus THREE more!



2 Experiential Learning

- Guest Speakers Currently Working in Industry
- Tours of Industry Hot Spots
- Trips - Overnight and Day Trips
- Co-op Placements

3 Specialized Bundle of 9 Senior Credits

- *Four (4) Major Credits
- One (1) Senior English
- One (1) Senior Mathematics Credit
- Two (2) Co-op Credits
- *One (1) Business Studies, Science or Additional Co-op Credit
- * An additional sector-related Co-operative Education credit may be used to substitute one credit in this requirement

4 Sector-Partnered Contextualized Experience (SPCE)

- Making Decisions Using Appropriate Information
- The Collection and Analysis of Data
- Planning and Organization of Work
- Sector Related Coding Challenges
- Innovative Creative Entrepreneurship



5 Reach Ahead

- Conferences and Workshops
- Completing Dual Credit Course
- Attending College/University Classes

INFORMATION & COMMUNICATION TECHNOLOGY

Specialist High Skills Major



SHSM Major Credits - (4) Required

Grade 11

TMJ3C	Manufacturing Technology
SPH3U	Physics
TEJ3M	Computer Engineering Technology
TGJ3M	Communications Design
TDJ3M	Technological Design
TGV3M	TV, Video & Movie Production

Grade 12

TEJ4M	Computer Engineering Technology
TDJ4M	Technological Design
TMJ4C	Manufacturing Technology
SPH4U	Physics
TGV4M	TV, Video & Movie Production
TGJ4M	Communications Technology
SPH4C	Physics

One English Credit

ENG3C	English	ENG4C	English
ENG3U	English	ENG4U	English
NBE3C	English: Contemporary Aboriginal Voices	OLC4O	Ontario Literacy Course
NBE3U	English: Contemporary Aboriginal Voices		

One Mathematics Credit

MBF3C	Foundations of College Mathematics	MAP4C	Foundations for College Mathematics
MCF3M	Functions & Applications	MHF4U	Advanced Functions
MCR3U	Functions	MCV4U	Calculus & Vectors
MEL3E	Mathematics for Everyday Life	MDM4U	Data Management

Other Required Credit (Please note that major course codes with a cross † can count for either one of the Major credits or the one required "Other" credit. Also, course codes with an asterisk * are offered every other year.)

AVI3M/3O Visual Arts

- * BMI3C Marketing: Goods, Services, Events
- * SVN3M Environmental Science
- BAF3M Financial Accounting Fundamentals
- SBI3C Biology
- † SPH3U Physics
- BTA3O Computers for Business
- † SPH4C Physics
- BAT4M Financial Accounting Principles
- BBB4M International Business
- AVI4M Visual Arts
- BOH4M Business Leadership Management Fundamentals
- SCH4C Chemistry
- * SNC4M Science

Cooperative Education

- (2) Required in the SHSM related field



'Reach Ahead' Experiences

Students pursuing an SHSM must have opportunities for Reach Ahead experiences connected with their postsecondary plans.

What are Reach Ahead experiences?

Reach Ahead experiences are learning experiences connected with the student's postsecondary pathway in the Information & Communication Technology sector.

Reach Ahead experiences can range from visiting a college to investigate the program a student is considering, to sitting in on university classes in a student's field of interest, interviewing an employee in the field of work the SHSM student is considering, to discussing the postsecondary education, training and experiences of someone in the Information & Communication Technology sector.

Experiential Learning

Experiential learning and career exploration activities give students opportunities to explore, observe, participate in, and reflect on a variety of sector-specific experiences and careers. These activities also enable students enrolled in the SHSM to find out about the opportunities available in careers that interest them.

The SHSM experiential learning and career exploration requirement consists of planned learning activities that take place outside the traditional classroom setting. Experiential learning may take a variety of forms, including career exploration activities, job shadowing, job twinning, work experience or virtual work experience.

SHSM Programs allow students to customize their education to suit their interests, talents and future career goals.



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Speak to your Guidance
Department and Visit

DSBN.org/SHSM

Westlane Secondary School

