

Specialist High Skills Major

Agriculture

Agricultural Equipment Focus 2025-2026

Profile

Students will combine the skills required for and knowledge of different subjects within the agriculture industry. Through individual and collaborative inquiry and research, students will analyze relationships between environment, business, and science related topics as they apply to agriculture in the 21st century. Using a hands-on approach, students will learn about farm safety and about farm equipment repair with emphasis put on modern agricultural issues. Students will be introduced to automotive / welding / machining development. Primary focus will be on farm equipment repair and restoration with added focus on agriculture related topics including Agri-Business and Agri-Science.

Certifications (6)

Compulsory (3):

- CPR
- Standard First Aid
- WHMIS

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

- Chainsaw Safety
- Fundamentals of the Combine - Level 1
- Theory of Combine Settings and Adjustments - Level 2
- Sector-specific Vehicle Operation and Safety
- Herbicide and Pesticide
- Principles of Drainage
- Soil Testing Techniques
- Infectious Control
- Lockout/Tagging
- Health and Safety - basic

Possible Occupations in the Sector

Workplace	Apprenticeship	College	University
General Farm Worker Mechanic Helper Harvesting Labourer Service Writer Warehouse Manager Livestock Hauler	Dairy Herdsperson Agri-Equipment Technician Parts Person Electrician Service Technician Fruit Grower	Farmer and Farm Manager Technical Sales Specialist Agricultural Equipment Salesperson Automation Coordinator Agri-Business Management	Agricultural Inspector Mechanical Engineer Soil Scientist Precision Agriculture Specialist Bioprocessing Engineer Environmental 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.



Agriculture 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

BAF3M – Financial Accounting Fundamentals
BDI3C – Entrepreneurship, College (PACE)
BMX3E – Marketing, Workplace (PACE)
SBI3C – Biology
SCH3U – Chemistry
SPH3U – Physics
SVN3E – Environmental Science
SVN3M – Environmental Science
TCJ3C – Construction Engineering Technology
TDJ3O – Technological Design and the Environment
TDJ3M – Technological Design
THJ3E – Green Industries
THJ3M – Green Industries
TMJ3C – Manufacturing
TMJ3M – Manufacturing Technology
TTJ3O – Transportation Technology: Vehicle Ownership
TTJ3C – Transportation Technology

BAT4M – Financial Accounting Principles
SBI4U – Biology
SCH4U – Chemistry
SCH4C – Chemistry
SNC4M – Science
SPH4C – Physics
SPH4U – Physics
TCJ4C – Construction Engineering Technology
TDJ4O – Technological Design in the Twenty-first Century
TDJ4M – Technological Design
THJ4E – Green Industries
THJ4M – Green Industries
TMJ4C – Manufacturing
TMJ4E – Manufacturing Technology
TTJ4C – Transportation 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
OLC3O – Ontario Secondary School Literacy Course

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

BAF3M – Financial Accounting Fundamentals
BDI3C – Entrepreneurship, College (PACE)
BTA3O – Information and Communication Technology: The Digital Environment
BMX3E – Marketing, Workplace (PACE)
SBI3C – Biology
SBI3U – Biology
SCH3U – Chemistry
SPH3U – Physics
SVN3E – Environmental Science
SVN3M – Environmental Science
MEL3E – Workplace Math
OLC3O – Ontario Secondary School Literacy Course

BAT4M – Financial Accounting Principles
BBB4M – International Business Fundamentals
SCH4C – Chemistry
SCH4U – Chemistry
SPH4C – Physics
SPH4U – Physics
SNC4M – Science
GLE4O – Advanced Learning Strategies
GLS4O – Advanced Learning Strategies
MEL4E – Math for Work and Everyday Life
OLC4O – Ontario Secondary School Literacy Course

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

Summer co-op available.

Specialist High Skills Major Agriculture

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 _____

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

- ☐ Experiential: _____ Date: _____
- ☐ Reach Ahead: _____ Date: _____
- ☐ SPE: _____ Date: _____