

SPECIALIST HIGH SKILLS MAJOR

Specialist High Skills Major ~ Customize your High School Education at PHHS:

Specialist High Skills Major programs were developed by the Ontario Ministry of Education to provide students with specialized knowledge and skills in an area of study. They enable students to customize their high school experience to suit their interest and talents. The goal is to prepare for a successful post - secondary transition to apprenticeship training, college, university, or employment, while meeting the requirements of the Ontario Secondary School Diploma. Through the SHSM program, students will gain sector specific credits, skills and knowledge and certifications.

When do students start a SHSM?

Students are able to enter a SHSM based on readiness and alignment of the program with their interests and postsecondary goals. Entry should occur no later than Year 3 in order for the student to be appropriately scheduled into the required courses.

Required Components of each Program:

1. A bundle of nine or ten grade 11 and 12 credits.

Construction: 10 Environment: 9
Hospitality and Tourism: 9
Manufacturing: 9

This includes two credits of Co - operative Education: Students pursuing a university pathway are advised to complete their co - op credits in Grade 11 in order to allow room in Grade 12 for credits to meet university entrance requirements.

2. General and Sector specific certifications
3. Experiential learning and career exploration activities
4. Reach ahead experiences - visit a workplace/college or university
5. Essential Skills and Work Habits and the Ontario Skills Passport (OSP)

Benefits:

- Graduate with a SHSM seal of designation on your secondary school diploma
- Earn a Specialist High skills major designation on your OSSD transcript
- Gain valuable industry specific work experience through a co - op placement

PHHS PROGRAMS:	Construction Manufacturing	Environment and Resource Studies Hospitality and Tourism
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For more Information contact:

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SPECIALIST HIGH SKILLS MAJOR - CONSTRUCTION

Requirements	Course Options		Duel Credit
<p>Major Subjects</p> <p>Choose 4</p> <p>Must have at least one grade 11 and one grade 12</p> <p>May be substituted with 1 additional co-op credit</p>	<p>TWJ3E – Woodworking TMJ3E – Manufacturing TTJ3E – Transportation</p> <p>TMJ3C – Manufacturing TTJ3C – Transportation</p> <p>AVI3M – Visual Arts TEJ3M – Computer Programing SPH3U – Physics</p>	<p>TCJ4E – Construction TMJ4E – Manufacturing TTJ4E - Transportation</p> <p>CGW4C* - Canada and World Issues TCJ4C - Construction TMJ4C – Manufacturing TTJ4C – Transportation SPH4C - Physics</p> <p>CGW4U* - Canada and World Issues AVI4M – Visual Arts SPH4U - Physics</p>	<p>TSB4Y Plumber</p> <p>TSA4Y Carpenter</p> <p>TNA4Y Electrician</p> <p>TLA4Y Welder</p> <p>Accelerated OYAP Program</p>
<p>English</p> <p><i>Workplace</i> requires 11 and 12 English</p>	<p>ENG3E ENG3U ENG3C OLC3O</p>	<p>ENG4E OLC4O ENG4C</p>	
<p>Math</p> <p><i>Workplace</i> - choose 1 <i>College/University</i> requires grade 11 and 12 math</p>	<p>MEL3E MCF3M MBF3C MCR3U</p>	<p>MAP4C MDM4U MCT4C* MHF4U MEL4E MCV4U</p>	
<p>Other - choose 1</p> <p>May be substituted with 1 additional Co-op credit</p>	<p>MEL3E - Gr. 11 Workplace Math SVN3E - Environmental Science BDI3C* - Entrepreneurship BDP3O* - The Enterprising Person BMI3C* - Intro to Marketing ICS3C- Computer & Information Science SBI3C - Biology BAF3M*- Financial Accounting ICS3U - Computer & Information Science SVN3M - Environmental Science SPH3U - Physics SCH3U - Chemistry SBI3U - Biology</p>	<p>MEL4E - Gr.12 Workplace Math ICS4C - Computer & Information Science SPH4C - Physics SCH4C - Chemistry</p> <p>BAT4M*– Financial Accounting Principles BBB4M* - International Business BOH4M*–Business Management Fundamentals ICS4U – Computer & Information Science SPH4U - Physics SCH4U - Chemistry SBI4U – Biology</p>	
<p>Co-op</p>	<p>2 Credits – Tied to a SHSM major course</p>	<p>(*) Indicates a course offered through E-learning</p>	

Environment and Resource Studies

Why get involved?

- This is a great program for anyone interested in any of the following fields: air quality, water quality, waste management, ecological restoration and reclamation, human and environmental health and safety, environmental protection management, fisheries and wildlife, forestry, agriculture, mining, energy, parks and natural reserves, natural resources management, education, environmental research and development, environmental policy and legislation, and sustainable development
- Get a jump start in a related career in these exciting, in demand, fields of expertise
- Acquire specific skills in classroom and workplace settings related to their post - secondary pathway
- Experiential learning activities may include job shadowing a professional in an environment - related field of work, involvement in habitat restoration projects, visits to professional trade shows, in - class demonstrations, and field trips to local environmental workplaces
- “Reach Ahead” activities such as spending a day at Fleming College, Durham College, and Trent University to experience a first year class or laboratory and talk to instructors about specific post - secondary education opportunities.

What skills will I develop while in the SHSM Environmental and Resource program?

- Collecting/ identifying benthic invertebrates & analyzing water quality in a river
- Interpreting maps and GPS to navigate and mark locations
- Analyzing soil and drinking water using test kits
- Evaluating data to determine environmentally conscious lifestyle decisions
- Learning methods to protect and restore natural ecosystems and habitats

What Certifications do Students Obtain in the Environment and Resource Studies SHSM?

- Standard First Aid
- Cardiopulmonary Resuscitation (CPR) Level C - includes automated external defibrillation
- Geographical Positioning System (GPS)
- WHMIS training
- Advanced Technology - Aquaponics
- Habitat Restoration
- Stream Assessment

What courses do I have to complete to do the Environment and Resource Studies program?

- 4 Major Credits
 - 1 Environmental Science credit in Gr 11
 - 3 Other Major credits in courses - see chart
- 3 Other Required Courses (include a Contextual Learning Assignment done during class)
 - 2 Senior English, Gr 11 and Gr 12
 - 1 Senior Math
- Cooperative Education
 - 2 credits co - op in an Environmental/Resource setting

SPECIALIST HIGH SKILLS MAJOR - ENVIRONMENT

Requirements	Course Options	
<p>Major Subjects Must take SVN3E / SVN3M</p> <p>Choose three others</p> <p>Must have at least one grade 11 and one grade 12</p> <p>One credit may be substituted with 1 additional Co-op credit</p>	<p>SVN3E – Environmental Science SVN3M – Environmental Science</p>	<p>CGR4M – Resource Management</p>
	<p>TMJ3E - Manufacturing</p> <p>AWG3O – Guitar CGG3O* - Travel and Tourism GPP3O* - Leadership and Peer Support PPL3O – Physical Education</p> <p>NBV3C – Aboriginal Studies PPZ3C* - Health for Life SBI3C - Biology TMJ3C - Manufacturing TTJ3C – Transportation</p> <p>BAF3M* - Financial Accounting Fundamentals CHW3M* - World History CLU3M – Canadian Law TGJ3M - Communications Technology</p> <p>SCH3U - Chemistry SBI3U - Biology SPH3U - Physics</p>	<p>TCJ4E - Construction TMJ4E - Manufacturing TTJ4E - Transportation</p> <p>PPL4O - Physical Education</p> <p>SCH4C - Chemistry SPH4C – Physics TCJ4C – Construction TFJ4C - Hospitality and Tourism TMJ4C - Manufacturing TTJ4C - Transportation</p> <p>BAT4M* - Financial Accounting Principals BBB4M* - International Business CGR4M* - Environment and Resource Management TGJ4M - Communications Technology BOH4M*- Business Management Fundamentals CGW4U* - Canadian and World Issues CLN4U - Canadian and International Law PSK4U* - Introduction to Kinesiology SCH4U - Chemistry SBI4U – Biology SPH4U - Physics</p>
<p>English – choose 1 grade 11 and 1 grade 12</p>	<p>ENG3E ENG3U ENG3C OLC3O</p>	<p>ENG4E ENG4U ENG4C OLC4O</p>
<p>Math - choose 1</p>	<p>MEL3E MBF3C MCF3M</p>	<p>MCR3U MEL4E MHF4U</p>
<p>Co-op</p>	<p>2 Credits – Tied to a SHSM major course</p>	<p>(*) Indicates a course offered through e-learning</p>

HOSPITALITY AND TOURISM

Why should I get involved?

- Opportunity to be trained by a chef while in school.
- Explore a variety of related career options in the Hospitality industry
- Receive industry standard certifications that appeal to employers and postsecondary institutions
- Gain specific skills in the classroom and workplace settings related to your post - secondary pathway through co-op
- “Reach ahead” activities such as spending a day in culinary classes at Loyalist College, Fleming College, George Brown College, Ryerson University, professional trade shows and conferences, or tour a hospitality business
- Experiential learning activities such as working with a chef in a local restaurant, in class demonstrations by local chefs, High Skills Competition, professional trade shows, job shadowing a special events coordinator, or interviewing a food scientist

What skills will I develop while in the SHSM Hospitality and Tourism program?

- Reading and following recipes to prepare a wide variety of dishes
- How to accurately measure ingredients
- Menu planning
- Proper use of kitchen utensils including knives and professional equipment
- Ability to work as a team to prepare a complete meals from scratch under a time frame
- Protocol for customer service in the hospitality industry

What certifications can I receive?

- Cardio - Pulmonary Resuscitation (CPR) Level C - includes automated external defibrillation (AED)
- Standard First Aid
- Workplace Hazardous Materials Information System (WHMIS)
- Excellence in Customer service
- Safe Food Handling
- Smart Serve

What courses do I need to take to complete the SHSM in Hospitality and Tourism?

- 4 Major Credits
 - 2 Hospitality and Tourism credits (1 in both grade 11 and 12)
 - 2 Other Major credits in related courses - see chart
- 3 Other Required Courses (include a Contextual Learning Assignment done during class)
 - 1 Senior English
 - 1 Senior Math
 - 1 Senior Science or Business (A third Co - op credit could be substituted for this)
- Cooperative Education
 - 2 credit co - op in a Hospitality or Tourism related setting

SPECIALIST HIGH SKILLS MAJOR - HOSPITALITY

Requirements	Course Options		Dual Credit			
<p>Major Subjects</p> <p>Choose 4</p> <p>Must have at least one grade 11 and one grade 12</p> <p>One credit may be substituted with 1 additional Co-op credit</p>	<p>TFJ3E – Hospitality and Tourism SVN3E – Environmental Science</p> <p>TFJ3C – Hospitality and Tourism HSP3C – Anthropology, Psychology, Sociology NBV3C – Native Studies SBI3C – Biology</p> <p>PPL3O – Physical Education CGG3O* -Travel and Tourism GPP3O* – Leadership and Peer Support</p> <p>SVM3M – Environmental Science HSP3U - Anthropology, Psychology, Sociology SBI3U - Biology SCH3U - Chemistry</p>	<p>TFJ4E – Hospitality and Tourism</p> <p>TFJ4C – Hospitality and Tourism SCH4C – Chemistry SPH4C - Physics</p> <p>PPL4O – Physical Education GLN4O*– Navigating the Workforce</p> <p>CGR4M*- Environment and Resource Management CGW4U*- Canadian and World Issues CHY4U* - World History SBI4U - Biology SCH4U – Chemistry</p>	<p>TUI4T</p> <p>Team taught Cooking Class PHHS</p> <p>TKA4Y</p> <p>Accelerated OYAP – Cook College</p>			
<p>English – choose1</p>	ENG3E	ENG3C	ENG3U	OLC3O	OLC4O	
<p>Math - choose 1</p>	MEL3E	MBF3C	MCF3M	MCR3U		
<p>Other - choose 1</p> <p>May be substituted with 1 additional Co-op credit</p>	<p>MEL3E – Workplace Math SVN3E – Environmental Science BDP3O*- The Enterprising Person BDI3C*- Entrepreneurship BMI3C* - Introduction to Marketing ICS3C – Computer/Information Science SBI3C – Biology</p> <p>BAF3M*– Financial Accounting Fundamentals ICS3U – Computer/Information Science SVN3M – Environmental Science SPH3U – Physics SCH3U – Chemistry SBI3U - Biology</p>	<p>MEL4E – Workplace Math OLC4O – Literacy Course</p> <p>ICS4C – Computer/Information Science SPH4C – Physics SCH4C – Chemistry</p> <p>BAT4M*- Financial Accounting Principles BBB4M* - International Business BOH4M*–Business Management ICS4U – Computer/Information Science SPH4U - Physics SCH4U – Chemistry SBI4U - Biology</p>				
<p>Co-op</p>	2 Credits – Tied to a SHSM major course		(*) Indicates a course offered through e-learning			

MANUFACTURING

Why should I get involved?

- There will be an increasing demand for skilled workers in the manufacturing industry
- Explore a variety of different career opportunities in the manufacturing industry
- Get a jump start on your career in manufacturing
- Gain valuable work experience in specific industry sectors through co-op placements
- Receive industry standard certifications that appeal to employers and post - secondary institutions
- Reach ahead opportunities such as industry trade shows and provincial skills challenges

What skills will I develop while in the SHSM Manufacturing program?

- The ability to machine steel and aluminum using a variety of techniques
- The ability to operate lathes, mills, drills, grinders and plastic injection moulding
- Experience with a variety of different welding techniques. SMAW, MIG, TIG using steel and aluminum

What Certifications can I receive?

- Standard First Aid*
- Cardiopulmonary Resuscitation (CPR) Level C - includes automated external defibrillation (AED)*
- Workplace Hazardous Materials Information System (WHMIS*)
- *Hoisting and Rigging~*
- *Lockout/tagging~* ***Compulsory**
- *Confined Space Awareness~*
- *Elevated work platforms~* **~Choose two**
- *Transportation of dangerous goods~*

What courses do I need to take to complete the SHSM in Manufacturing?

- 4 Major Credits
 - 2 Manufacturing credits (1 in both grade 11 and 12)
 - 2 Other Major credits in courses - see chart
- 3 Other Required Courses (include a Contextual Learning Assignment done during class)
 - 1 Senior English
 - 1 Senior Math
 - 1 Senior Science (A third Co - op credit can be used as a substitution for this)
- Cooperative Education
 - 2 credit co - op in a Manufacturing setting

SPECIALIST HIGH SKILLS MAJOR - MANUFACTURING

Requirements	Course Options		Dual Credit
<p>Major Subjects</p> <p>Choose 4</p> <p>Must have at least one grade 11 and one grade 12</p> <p>One credit may be substituted with 1 additional Co-op credit</p>	<p>TMJ 3E - Manufacturing TWJ 3E - Woodworking</p> <p>TTJ 3O - Transportation TMJ 3C - Manufacturing TTJ 3C - Transportation HNC 3C - Understanding Fashion ICS 3C - Computer and Information Science</p> <p>TEJ3M – Computer Programming ICS 3U - Computer and Information Science SCH 3U - Chemistry SPH 3U - Physics TGJ 3M - Communications Technology</p>	<p>TMJ 4E - Manufacturing TWJ 4E - Woodworking TCJ 4E - Construction TTJ 4E - Transportation TMJ 4C - Manufacturing TCJ 4C - Construction TTJ 4C - Transportation SPH 4C - Physics SCH 4C - Chemistry ICS 4C - Computer and Information Science</p> <p>ICS 4U - Computer and Information Science MCV4U – Calculus and Vectors MHF4U - Functions SCH 4U – Chemistry SPH 4U - Physics TGJ 4M - Communications Technology</p>	<p>TLA4Y Manufacturing TNA4Y Electrician TSB4Y Plumber TRC4Y Industrial Mechanic Millwright Accelerated OYAP program</p>
<p>English - choose 1</p>	<p>ENG 3E ENG 3C ENG 3U</p>	<p>OLC30 OLC40</p>	
<p>Math - choose 1</p>	<p>MEL 3E MBF 3C MCF 3M*</p>	<p>MCR 3U</p>	
<p>Other - choose 1</p> <p>May be substituted with 1 additional Co - op credit.</p>	<p>MEL3E – Workplace Math SVN 3E - Environmental Science</p> <p>BDI3C* - Entrepreneurship ICS3C – Computer and Information Science SBI 3C - Biology</p> <p>ICS3U – Computer and Information Science SVN 3M - Environnemental Science SBI 3U - Biology SCH 3U - Chemistry SPH 3U - Physics</p>	<p>MEL4E – Workplace Math</p> <p>ICS4C – Computer and Information Science OLC4O – Literacy Course SPH 4C - Physics SCH 4C – Chemistry</p> <p>ICS4U – Computer and Information Science SBI 4U – Biology SCH 4U - Chemistry SPH 4U - Physics</p>	
<p>Co - op</p>	<p>2 Credits - Tied to a SHSM major course</p>	<p>(*) Indicates a course offered through e - learning</p>	