

# Sector Pathways & Related Courses

		Sample Careers Only:			
<b>www.up2u.ca</b>		Apprenticeship & Skills Trades	College	On-the-job Training and Work	University
<b>Sector Pathways **</b>	<b>Your Interests and Abilities/Skills...</b>				
<b>Arts, Communications and Recreation (NOC 5)</b>	<b>Like to:</b> <ul style="list-style-type: none"> <li>sketch</li> <li>draw</li> <li>paint</li> <li>play musical instruments</li> <li>write stories, poetry and/or music</li> <li>sing</li> <li>dance</li> <li>act</li> <li>take photos</li> <li>be physically active</li> </ul>	<ul style="list-style-type: none"> <li>Draftsperson - Mechanical</li> <li>Draftsperson - Plastic Mould Design</li> <li>Entertainment Industry-Electrical Technician</li> </ul>	<ul style="list-style-type: none"> <li>Librarian, Archive and Museum Technician</li> <li>Photographer, Graphic Artist, Animator</li> <li>Copywriter</li> <li>Athlete, Coach, Referee</li> <li>Fitness Instructor</li> <li>Multimedia Designer</li> <li>Actor, Media Announcer</li> <li>Community Program Planner</li> <li>Public Relations Officer</li> <li>Writers, Journalist</li> <li>Media Consultant</li> <li>Broadcaster</li> <li>Graphic Designer</li> <li>Recreation and Leisure Services</li> </ul>	<ul style="list-style-type: none"> <li>Library Assistant</li> <li>Musical Band Players / Singer</li> <li>Actor / Comedian / Disc Jockey, Dancer</li> <li>Video Camera Operator</li> <li>Theatre / Stage Technician</li> <li>Set Builders / Dresser</li> <li>Props Person / Prompter</li> <li>Fashion Model</li> <li>Window Display Designer</li> <li>Artisan / Crafts Person</li> <li>Athlete</li> <li>Photographer</li> <li>Fitness Instructor</li> <li>Special Events Coordinator</li> </ul>	<ul style="list-style-type: none"> <li>Librarian, Conservator</li> <li>Curator, Archivist</li> <li>Writer, Editor, Journalist</li> <li>Public Relations Officer</li> <li>Translator, Interpreter</li> <li>Director, Producer</li> <li>Choreographer, Dancer</li> <li>Conductor, Composer, Arranger</li> <li>Musician, Singer</li> <li>Actor</li> <li>Painter, Sculptor</li> <li>Recreational Facilities Manager</li> </ul>
<b>Business, Finance, (NOC 1) Sales and Service (NOC 6)</b>	<b>Like to:</b> <ul style="list-style-type: none"> <li>influence</li> <li>persuade</li> <li>perform</li> <li>lead</li> <li>manage to meet organizational goals for economic gain</li> <li>make decisions</li> <li>meet people</li> <li>initiate projects</li> <li>give talks or speeches</li> <li>organize activities</li> <li>lead a group</li> <li>work with data using clerical or numerical ability</li> <li>carry out tasks in detail and follow through on others' instructions</li> </ul>	<ul style="list-style-type: none"> <li>Appliance Service Technician</li> <li>Assistant Cook</li> <li>Baker</li> <li>Chef</li> <li>Cook</li> <li>Gem setter / Goldsmith</li> <li>Hairstylist</li> <li>Interior Decorator</li> <li>Locksmith</li> <li>Pool &amp; Hot Tub / Spa Service Technician</li> <li>Pool / Hot Tub &amp; Spa Installer</li> <li>Retail Meat Cutter</li> <li>Automotive Parts Person</li> </ul>	<ul style="list-style-type: none"> <li>Manager, Supervisor (all sectors)</li> <li>Human Resources Officer</li> <li>Customer Service Representative</li> <li>Insurance and Real Estate Agent</li> <li>Bookkeeper, Payroll Officer</li> <li>Secretary, Administrative Clerk</li> <li>Property Manager</li> <li>Retail Sales Person</li> <li>Restaurant Manager</li> <li>Police Officer and Firefighter</li> <li>Conference and Event Planner</li> <li>Financial Analyst</li> <li>Expeditor</li> <li>Marketing</li> <li>Human Resources Administrator</li> </ul>	<ul style="list-style-type: none"> <li>Telephone Survey Operator</li> <li>Mail Room Clerk and Sorter</li> <li>Business Messenger / Letter Carrier</li> <li>Travel Counsellor</li> <li>Airline Ticketer / Cargo Sales Clerk</li> <li>Tour and Travel Guide</li> <li>Street Vendor / Door-to-Door Salesperson</li> <li>Food and Beverage Server</li> <li>Cleaner, Janitor, Housekeeper</li> <li>Security Guard</li> <li>Dry Cleaning and Laundry Worker</li> <li>Shippers / Receiver</li> <li>Bank Teller, Cashier</li> </ul>	<ul style="list-style-type: none"> <li>Senior Manager, Supervisor</li> <li>Financial Auditor</li> <li>Accountant</li> <li>Securities Agent</li> <li>Investment Analyst</li> <li>Investment Dealer and Broker</li> <li>Specialists in Human Resources</li> <li>Personnel and Recruitment Officer</li> <li>Conference and Event Planner</li> <li>Public Relations Consultant</li> </ul>
<b>Health, (NOC 3) Natural and Applied Sciences (NOC 2)</b>	<b>Like to:</b> <ul style="list-style-type: none"> <li>work with people</li> <li>promote health as well as the treatment of injuries, conditions and diseases</li> <li>observe</li> <li>learn</li> <li>analyze</li> <li>investigate</li> <li>evaluate</li> <li>solve problems</li> <li>work independently</li> <li>analyze data</li> <li>do research</li> <li>deal with abstractions</li> <li>explore a variety of ideas</li> <li>perform lab experiments</li> <li>do complex calculations</li> <li>understand scientific methods and theories</li> </ul>	<ul style="list-style-type: none"> <li>Arborist</li> <li>Agriculture: Dairy or Swine</li> <li>Herdsperson</li> <li>Fruit Grower</li> <li>Horticulturist</li> <li>Turf Equipment Technician</li> </ul>	<ul style="list-style-type: none"> <li>Laser Technician</li> <li>Environmental Consultant</li> <li>Biomedical Equipment Technician</li> <li>Civil, Mechanical, Industrial, Electrical, Manufacturing Technicians and Technologist</li> <li>Paramedic</li> <li>Dental Hygienists and Technologist</li> <li>Horticulturist</li> <li>Massage Therapist</li> <li>Veterinarian Technician</li> <li>Pharmacy Technician</li> <li>Veterinarian Technician</li> <li>Pharmacist</li> <li>Forest Ranger</li> </ul>	<ul style="list-style-type: none"> <li>Animal Care Worker and Pet Grooming / Kennel Worker</li> <li>Funeral Assistant</li> <li>Dental Receptionist</li> <li>Health Care Aide</li> <li>Landscape and Horticulture Worker</li> <li>Conservation Fishery Worker</li> <li>Water / Plant Worker</li> <li>Home Support Worker</li> <li>Nurse's Aides / Orderly</li> <li>Personal Support Worker</li> <li>Nursing</li> <li>Respirator Therapist</li> <li>Biotechnology Technician</li> <li>Dietetic Technician</li> </ul>	<ul style="list-style-type: none"> <li>Physicist, Astronomer, Chemist, Geologist, Meteorologist</li> <li>Biologist, Forester, Agriculturist</li> <li>Industrial, Metallurgical, Aerospace, Other Engineer</li> <li>Audiologists, Physical and Occupational Therapist</li> <li>Architect, Urban Planners and Land Surveyor</li> <li>Geographic Information Systems Operator</li> <li>Geomorphologist</li> <li>Mathematician, Statistician</li> <li>Physician, Dentist and Veterinarian</li> <li>Optometrist, Chiropractor, Pharmacist</li> <li>Dietician and Nutritionist</li> <li>Nurse Supervisor and Registered Nurse</li> </ul>
<b>Information Technology (NOC 2)</b>	<b>Like to:</b> <ul style="list-style-type: none"> <li>observe</li> <li>learn</li> <li>analyze</li> <li>investigate</li> <li>evaluate</li> <li>solve problems</li> <li>work independently</li> <li>do research</li> <li>deal with abstractions</li> <li>explore a variety of ideas</li> <li>do complex calculations</li> </ul>	<ul style="list-style-type: none"> <li>Information Technology Support Analyst-Hardware, Help Desk, Network</li> <li>Network Cabling Specialist</li> </ul>	<ul style="list-style-type: none"> <li>Computer Engineering Technicians / Technologists Database Administrator</li> <li>Internet Consultants</li> <li>Multimedia Writer, Technical Writer</li> <li>Network Control Technician, PC Troubleshooter</li> <li>Numerical Computerized Control (NCC) Operators or Programmers</li> <li>Video Game Developer</li> <li>Web Master</li> <li>Information Technology</li> </ul>	<ul style="list-style-type: none"> <li>Communications - Retail</li> <li>Computer Games - Retail</li> <li>Computer Parts - Retail</li> <li>Computer Products Sales Representative</li> <li>Computer Support Technicians</li> <li>Data Entry Clerk</li> <li>Multi-Media Sales and Support</li> <li>Telephone Operator</li> <li>Volunteers</li> <li>Web Master</li> <li>Web Design</li> </ul>	<ul style="list-style-type: none"> <li>Applications Programmer</li> <li>Computer and Information Systems Professionals</li> <li>Industrial, Metallurgical, Aerospace, Other Engineer</li> <li>Computer Security Expert</li> <li>Hardware or Software Designer</li> <li>Software Engineer</li> <li>Systems or Strategic Analyst</li> <li>Systems Designer</li> <li>Telecommunications Expert</li> <li>Web Programmer</li> </ul>
<b>Social Sciences Government and Human Services (NOC 4)</b>	<b>Like to:</b> <ul style="list-style-type: none"> <li>work with people</li> <li>relate to economic education, political, legal and social systems</li> <li>help people solve social issues</li> </ul>	<ul style="list-style-type: none"> <li>Early Childhood Educator</li> <li>Educational Assistant</li> <li>Child and Youth Worker</li> <li>Canadian Forces</li> </ul>	<ul style="list-style-type: none"> <li>Early Childhood Educator</li> <li>Child and Youth Worker</li> <li>Special Needs Support Worker</li> <li>Paralegal</li> <li>Religious Occupation</li> <li>Immigration Worker</li> <li>Human Resources Specialist</li> <li>Police Officer</li> <li>Customs and Immigration Officer</li> <li>Firefighter</li> <li>Social Servicer</li> <li>Canadian Forces</li> </ul>	<ul style="list-style-type: none"> <li>Law Office Worker</li> <li>Real Estate Agent</li> <li>Women's Shelter Worker</li> <li>Drop-in Centre Worker</li> <li>Community Service Worker</li> <li>Aboriginal Outreach Worker</li> <li>Government Couriers / Messenger</li> <li>Religious Occupation</li> <li>Day Care Worker</li> <li>Elections Officer / Worker</li> <li>Canadian Forces</li> </ul>	<ul style="list-style-type: none"> <li>Judge, Lawyer</li> <li>Educational Administrator</li> <li>University Professor</li> <li>College and Other Vocational Instructor</li> <li>Secondary and Elementary School Teacher and Educational Counsellor</li> <li>Psychologist, Social Worker, Counsellor, Clergy and Probation Officer</li> <li>Economist, Economic Development Officer, Social Policy Researcher</li> <li>Other Social Service Researcher, Consultant and Program Officer</li> <li>Canadian Forces</li> </ul>
<b>Trades, Transport and Industrial Technologies (NOC 7, 8, 9)</b>	<b>Like to:</b> <ul style="list-style-type: none"> <li>work with their hands, objects, machines, tools, plants or animals</li> <li>design</li> <li>develop</li> <li>install</li> <li>maintain physical systems</li> </ul>	<ul style="list-style-type: none"> <li>Auto Body Repairer</li> <li>Automotive Service Technician</li> <li>Motorcycle Mechanic</li> <li>Truck and Coach Technician</li> <li>Small Engine Technician</li> <li>Refrigeration &amp; Air Conditioning Mechanic</li> <li>Brick and Stone Mason</li> <li>Construction Craft Worker</li> <li>Drywall, Acoustic &amp; Lathing Applicator</li> <li>General Carpenter</li> <li>Floor Covering Installer</li> <li>Plumber</li> <li>Roofer</li> <li>Agriculture Equipment Technician</li> <li>General Machinist</li> <li>Mould Maker</li> <li>Tool and Die Maker / Tool Maker</li> <li>Welder</li> </ul>	<ul style="list-style-type: none"> <li>Contractor and Trade Supervisor</li> <li>Transportation (Logistics) Supervisor</li> <li>Industrial Instrumentation Technician</li> <li>Machinery and Transportation Equipment Mechanic</li> <li>Automotive Service Technician</li> <li>Logging and Forestry Supervisor</li> <li>Computerized Numerical Control (CNC) Operator or Programmer</li> <li>Construction Engineering Technologist</li> </ul>	<ul style="list-style-type: none"> <li>Construction Trades Helper and Labourer</li> <li>Cable Television Service and Maintenance Technician</li> <li>Motor Vehicle and Transit Drivers</li> <li>Carpet Installer</li> <li>Foundry Furnace Worker</li> <li>Mechanical / Electrical Assembler</li> <li>Labourer in Processing and Manufacturing</li> <li>Industrial Butcher, Meat Cutter and Poultry Preparer</li> </ul>	<ul style="list-style-type: none"> <li>Airport Manager</li> <li>Railway Manager</li> <li>Transit Manager</li> <li>Distribution Manager</li> <li>Logistics Manager</li> <li>Warehouse Manager</li> <li>Plant Manager</li> <li>Primary Industry Manager (Mining, Fisheries, Forestry, Agriculture)</li> </ul>

\*\* For more information on careers and career profiles, check out [noc.up2u.ca](http://noc.up2u.ca) and [profiles.up2u.ca](http://profiles.up2u.ca)

# Success it's up to YOU!

Listed in Alphabetical Order by Subject Area:

Grade 9 Suggested Electives	Grade 10 Suggested Electives	Grade 11 Suggested Electives	Grade 12 Suggested Electives
<ul style="list-style-type: none"> <li>Music, Visual Arts, Drama</li> <li>Information and Communication Technology in Business</li> <li>Learning Strategies</li> <li>Integrated Technologies</li> </ul>	<ul style="list-style-type: none"> <li>Instrumental Music, Vocal Music, Drama, Media Arts, Visual Arts</li> <li>Introduction to Business</li> <li>Discovering the Workplace</li> <li>Healthy Active Living Education</li> <li>French, A Third Language</li> <li>Communication Technology, Construction Technology, Manufacturing Technology, Technological Design</li> </ul>	<ul style="list-style-type: none"> <li>Instrumental Music, Vocal Music, Drama, Visual Arts, Media Arts</li> <li>Marketing, Information and Communication Technology</li> <li>Travel and Tourism, History</li> <li>Co-operative Education</li> <li>Canadian Literature</li> <li>Healthy Active Living, Health for Life</li> <li>French, A Third Language</li> <li>Biography</li> <li>Communication Technology, Construction Technology, Manufacturing Technology, Technological Design</li> </ul>	<ul style="list-style-type: none"> <li>Instrumental or Vocal Music, Drama, Media Arts</li> <li>Information and Communication Technology, Business Leadership</li> <li>Canada and World Issues, Human Patterns and Interactions</li> <li>Co-operative Education</li> <li>Studies in Literature, Writer's Craft</li> <li>Navigating the Workplace</li> <li>Healthy Active Living, Recreation and Fitness Leadership, Exercise Science</li> <li>French, A Third Language</li> <li>Mathematics</li> <li>Biology</li> <li>Communication or Construction Technology, Technological Design</li> </ul>
<ul style="list-style-type: none"> <li>Music, Visual Arts</li> <li>Information and Communication Technology in Business</li> <li>Learning Strategies</li> <li>Integrated Technologies</li> </ul>	<ul style="list-style-type: none"> <li>Introduction to Business</li> <li>Discovering the Workplace</li> <li>Healthy Active Living Education</li> <li>French, A Third Language</li> <li>Hospitality and Tourism, Communication Technology, Computer Engineering Technology, Computer and Information Science, Health and Personal Services Technology</li> </ul>	<ul style="list-style-type: none"> <li>Marketing, Information and Communication Technology, Accounting, Entrepreneurship</li> <li>Travel and Tourism</li> <li>Co-operative Education</li> <li>Canadian Literature</li> <li>Healthy Active Living, Health for Life</li> <li>French, A Third Language</li> <li>Communication Technology, Hospitality and Tourism, Computer Engineering, Hairstyling and Aesthetics and Communication</li> </ul>	<ul style="list-style-type: none"> <li>Information and Communication Technology, Accounting, Business Leadership, International Business</li> <li>Economics, Environment and Resource Management</li> <li>Co-operative Education</li> <li>Studies in Literature, Writer's Craft</li> <li>Navigating the Workplace</li> <li>Healthy Active Living, Recreation and Fitness Leadership</li> <li>French, A Third Language</li> <li>Mathematics</li> <li>Communication Technology, Computer Engineering, Hospitality and Tourism, Hairstyling and Aesthetics</li> </ul>
<ul style="list-style-type: none"> <li>Information and Communication Technology in Business</li> <li>Learning Strategies</li> <li>Integrated Technologies</li> </ul>	<ul style="list-style-type: none"> <li>Introduction to Business</li> <li>Discovering the Workplace</li> <li>Healthy Active Living Education</li> <li>French, A Third Language</li> <li>Hospitality and Tourism, Communication Technology, Construction Technology, Health &amp; Personal Services Technology, Manufacturing Technology, Computer Engineering Technology, Computer and Information Science, Horticulture</li> </ul>	<ul style="list-style-type: none"> <li>Information and Communication Technology</li> <li>Introduction to Anthropology, Psychology and Sociology, Geographics, Physical Geography</li> <li>Co-operative Education</li> <li>Healthy Active Living Education, Health for Life</li> <li>French, A Third Language</li> <li>Physics, Chemistry, Biology</li> <li>Communication Technology, Construction Technology, Manufacturing Technology, Technological Design, Health Care, Horticulture, Hospitality and Tourism, Computer Engineering, Computer and Information Science</li> </ul>	<ul style="list-style-type: none"> <li>Information and Communication Technology, Business Leadership</li> <li>Writer's Craft</li> <li>Geomatics, The Environment and Resource Management</li> <li>Co-operative Education</li> <li>Navigating the Workplace</li> <li>Recreation and Fitness Leadership, Healthy Active Living, Exercise Science</li> <li>French, A Third Language</li> <li>Mathematics</li> <li>Physics, Chemistry, Biology</li> <li>Communication Technology, Construction Technology, Technological Design, Medical Technologies, Manufacturing Technology, Hospitality and Tourism, Computer Engineering, Horticulture</li> <li>Child Development and Gerontology</li> </ul>
<ul style="list-style-type: none"> <li>Visual Arts</li> <li>Information and Communication Technology in Business, Introduction to Business</li> <li>Learning Strategies</li> <li>Integrated Technology</li> </ul>	<ul style="list-style-type: none"> <li>Visual Arts</li> <li>Information and Communication Technology in Business, Introduction to Business</li> <li>Discovering the Workplace</li> <li>French, A Third Language</li> <li>Communication Technology, Technological Design</li> <li>Computer Engineering, Computer &amp; Information Science</li> </ul>	<ul style="list-style-type: none"> <li>Visual Arts</li> <li>Information and Communication Technology</li> <li>Co-operative Education</li> <li>Physics, Chemistry</li> <li>Communication Technology, Computer Engineering Technology, Technological Design, Computer and Information Science</li> </ul>	<ul style="list-style-type: none"> <li>Visual Arts</li> <li>Information and Communication Technology in Business, Business Leadership</li> <li>Co-operative Education</li> <li>Navigating the Workplace</li> <li>Mathematics</li> <li>Physics, Chemistry</li> <li>Communication Technology, Technological Design, Computer Engineering, Computer and Information Science</li> </ul>
<ul style="list-style-type: none"> <li>Visual Arts</li> <li>Information and Communication Technology in Business</li> <li>Learning Strategies</li> <li>Integrated Technologies</li> </ul>	<ul style="list-style-type: none"> <li>Introduction to Business</li> <li>Discovering the Workplace</li> <li>Healthy Active Living Education</li> <li>French, A Third Language</li> <li>Communication Technology</li> </ul>	<ul style="list-style-type: none"> <li>Information and Communication Technology</li> <li>Law, History, Travel and Tourism</li> <li>Canadian Literature</li> <li>Co-operative Education</li> <li>Healthy Active Living Education, Health for Life</li> <li>French, A Third Language</li> <li>Parenting, Living and Working with Children, Living Spaces and Shelter, Introduction to Anthropology, Psychology and Sociology</li> <li>Communication Technology</li> </ul>	<ul style="list-style-type: none"> <li>Information and Communication Technology, International Business</li> <li>Human Patterns and Interactions, History, Law</li> <li>Co-operative Education</li> <li>Studies in Literature, Writer's Craft</li> <li>Navigating the Workplace</li> <li>Recreation and Fitness Leadership, Exercise Science</li> <li>French, A Third Language</li> <li>Mathematics</li> <li>Challenge and Change in Society, Issues in Human Growth and Development, Parenting and Human Development, Individuals and Families in a Diverse Society</li> <li>Communication Technology</li> </ul>
<ul style="list-style-type: none"> <li>Information and Communication Technology in Business</li> <li>Learning Strategies</li> <li>Integrated Technologies</li> </ul>	<ul style="list-style-type: none"> <li>Introduction to Business</li> <li>Discovering the Workplace</li> <li>Healthy Active Living Education</li> <li>French, A Third Language</li> <li>Construction Technology, Communication Technology, Manufacturing Technology, Hospitality and Tourism, Computer Engineering Technology, Transportation Technology, Technological Design, Horticulture</li> </ul>	<ul style="list-style-type: none"> <li>Marketing, Information and Communication Technology</li> <li>Co-operative Education</li> <li>Healthy Active Living, Health for Life</li> <li>French, A Third Language</li> <li>Physics, Chemistry, Biology</li> <li>Economics, Living Spaces and Shelter</li> <li>Construction Technology, Communication Technology, Manufacturing Technology, Technological Design, Horticulture, Hospitality and Tourism, Computer Engineering Technology and Transportation Technology</li> </ul>	<ul style="list-style-type: none"> <li>Information and Communication Technology in Business, Business Leadership</li> <li>Economics, Environmental and Resource Management</li> <li>Co-operative Education</li> <li>Navigating the Workplace</li> <li>Healthy Active Living</li> <li>Mathematics</li> <li>Physics, Chemistry, Biology</li> <li>Construction Technology, Communication Technology, Manufacturing Technology, Technological Design, Hospitality and Tourism, Computer Engineering, Horticulture, Transportation Technology, Computer and Information Science</li> </ul>

At the time of publication, this overview was complete and accurate

What do you need to graduate?

18 Compulsory Credits

- 4 Credits in English
- 3 Credits in Mathematics
- 2 Credits in Science
- 1 Credit in Canadian History
- 1 Credit in Canadian Geography
- 1 Credit in the Arts
- 1 Credit in Health and Physical Education
- 1 Credit in French as a Second Language
- .5 Credit in Career Studies
- .5 Credit in Civics

Plus one credit from each of the following groups:

- 1 Additional credit in English, or a Third Language, or Social Sciences and the Humanities or Canadian and World Studies or Guidance and Career Education or Co-operative Education\*
- 1 Additional credit in Health and Physical Education, or the Arts or Business Studies or Co-operative Education\*
- 1 Additional credit in Science or Technological Education or Co-operative Education\*

\* A maximum of 2 credits in co-operative education can count as compulsory credits

In addition to the compulsory credits, students must complete:

- 12 Elective credits
- 40 Hours of community involvement activities
- Meet the provincial secondary school literacy diploma requirement through successful completion of either the Ontario Secondary School Literacy Test or the Ontario Secondary School Literacy Course.

Considerations for Program Planning:

- The Ontario Secondary School Diploma may be completed in 4, 4 1/2 or 5 years depending on the number of options built into the timetable
- Refer to the Waterloo Region District School Board Common Course Calendar and each School's Course Calendar for specific course offerings.

# UP2U!