



**ARTS & TECHNOLOGY
CENTRE**

2019-2020

The **Louis Riel Arts & Technology Centre** is an extension of the Louis Riel School Division high schools for grade 11 & 12 students. Students who choose ATC as part of their high school studies take the majority of their grade 11 & 12 elective courses at ATC and their compulsory courses at their home school. Students typically attend ATC for one semester in grade 11 for Part 1 of a program and then may return for another semester, in grade 12, to take Part 2 of their program. Talk to your counsellor about other possible patterns.

Students register at their home school, allowing them to participate in school events and extra-curricular activities including sports, music, and student government. Students graduate with their classmates at their home school. In addition to their regular high school diploma and an ATC certificate, students may earn a Technology Education high school diploma. ATC students who hold evening or summer jobs may be eligible to obtain high school credits towards graduation and time credit towards continued apprenticeship training by applying for the High School Apprenticeship Program.

Students are encouraged to bring and use their own electronic devices. Students are encouraged to participate in intramural activities available during the lunch hour our open gym program as well as the Student Leadership Council.

See your guidance counsellor to include ATC courses as part of your grade 11 and 12 or post-secondary plans.

ATC PROGRAMS

Academic Courses: To assist with scheduling, ATC students can enrol in an online academic course while at ATC. There are five class periods in a day at ATC and most programs require four periods with the exception of the following programs: Building Trades and Esthetics. Academic courses are scheduled into the remaining period and include:

- English Comprehensive Focus 30S/40S
- English Transactional Focus 40S
- History 30F
- Physics 30S/40S (sem 1)
- Biology 30S/40S (sem 1)
- Essential Mathematics 30S/40S
- Applied Mathematics 30S/40S
- Pre-Calculus 30S/40S (sem 2)
- Calculus 42S & World History 42S (AP)
- Physical Education 30F/40F

Applied Business Management: Designed for students with strong personal interest in business, finance, and entrepreneurship. This is a dual credit program where students can earn eight high school credits as well as six credit hours at the University of Winnipeg.

- **Skills** – working with collaborative teams, and independently, strong communication skills, financial literacy, and an interest in business and marketing ventures
- **Features** – theory, project based practical skills, working with clients, and an industry work practicum (4 weeks)

- **Part 1** – 4 credits
- **Part 2** – 4 credits
- **This program has a February intake**
- **University Credits** – can receive six credit hours for completion of Introduction to Business 1 (BUS-1201(3)), and Introductions to Business 2 (BUS-1201(3))

Automotive Technology: The Automotive Technology program is for students interested in automotive technology and to prepare students for employment or further education in the automotive industry.

- **Skills** – diagnosis and repair related to basic service, mig & gas welding, brakes, engine fundamentals & performance applications, fuel systems, chassis & drive train and electronics
- **Features** – theory, practical lab work, on-the-job training on customer vehicles in a well-equipped shop, industry work practicum (4 weeks)
- **Part 1** – 4 credits
- **Part 2** – 4 credits
- **This program has a February intake**
- **Apprenticeship Manitoba** – can receive credit for Level 1 in-school technical training for the trade of Automotive Service Technician

Baking & Pastry Arts: This program is designed for students with interested in pastry and baking and to prepare them for employment in the food services industry, retail and

commercial bakeries, pastry shops, specialty shops, corporate and health care cafeterias, cruise ships and international resorts and hotels.

- **Skills** – sanitation and safety procedures, bakery management, quick breads & cookies, yeast goods, wedding & occasional cake production and decorating, special pastries, chocolate, artistic show pieces
- **Features** – theory, on-the-job training in well-equipped bakery, industry work practicum (2 weeks in both part 1 & 2)
- **Part 1** – 4 credits
- **Part 2** – 4 credits
- **This program has a September and February intake**

Broadcast Media: Broadcast Media consists of the production and transmission of audio or video programming for a variety of media, including radio, television, and the internet.

- **Skills** – video, film, and audio production, multi-camera production, content editing, lighting, storyboarding, script writing, news reporting, sporting event video production
- **Features** – state-of-the-art industry-quality equipment, hands on experience with the school's online TV station – LRSD TV, industry work practicum (4 weeks)
- **Part 1** – 4 credits
- **Part 2** – 4 credits
- **This program has a February intake**

Building Trades: Designed to provide students (minimum 16 years old) with valuable on-the-job experience in one or more building construction trade(s) that may include; carpentry, concrete, bricklaying, framing, heating, plumbing, painting and cabinet-making in preparation for employment, apprenticeship or further education.

- **Skills** – theory and demonstrations focus on all aspects of residential construction including blueprints, concrete, framing, exterior coverings & roofing, interior millwork & finishing, cabinets & finish coatings, electrical, heating & air-conditioning and renovations. On-the-job skills training will vary depending on the trade chosen for industry work practicum.
- **Features** – theory & demonstrations (Mondays at ATC) and industry work practicum (Tuesday – Friday on job sites). Students are required to travel to job sites and may work in adverse conditions.
- **Part 1** – 4 credits
- **Part 2** – 4 credits
- **This program has a September and February intake**

Culinary Arts: The Culinary Arts program offers instruction that includes a blend of practical, theory, catering, and on-the-job training. The program will prepare students for employment locally, nationally or internationally or for further education in the food services industry.

- **Skills** – preparation of fruits & vegetables, stocks, soups & sauces, meats, poultry, fish & seafood, baking & pastry, nutrition, garde manger, management, purchasing, costing, catering and entrepreneurship
- **Features** – theory, on-the-job training in well-equipped commercial kitchen, on-site and off-site catering, industry work practicum (4 weeks)
- **Part 1** – 4 credits
- **Part 2** – 4 credits
- **This program has a September and February intake**
- **Manitoba Apprenticeship** – may receive credit for Level 1 in-school technical training for the trade of Cook

Early Childhood Educator: Designed for students with strong personal interest in early childhood education and to prepare students for employment in child care centres. This program provides a strong foundation and a head start for students considering further post-secondary education leading to Early Childhood Educator II (ECE II) designation.

- **Skills** – development of self-regulation through guided practice, planning play-based experiences and interacting with children through play, providing nurturing care, cultural diversity and family dynamics, human development, infancy & toddlerhood, and communication
- **Features** – comprehensive child development theory delivered in a teacher-led classroom environment, weekly work practicum in a child care facility
- **Part 1** – 4 credits
- **Part 2** – 4 credits
- **This program has a September and February intake**
- **Red River College** – students who complete the ATC program with a grade of 65% or greater in each course can apply to enter directly into Term 2 of the four-term Early Childhood Education program. RRC Early Childhood Education graduates earn credit toward degree programs at several universities; please see RRC website for details.

Electrical Trades: This program provides a strong foundation in residential and commercial wiring and variety of electrical installations. Upon completion students will be prepared to continue apprenticeship or continue with post-secondary education.

- **Skills** – principles of electronics including relevant mathematics and physics, Canadian Electrical Code, AC/DC Circuits, residential and industrial wiring, conduit bending, armoured cable applications, blueprint reading, installation of complete systems
- **Features** – theory in a teacher-led classroom environment, hands-on practical work in a lab facility
- **Part 1** – 4 credits
- **Part 2** – 4 credits
- **This program has a February intake**
- **Apprenticeship Manitoba** – graduates can receive credit for Level 1 in-school technical training for the trade of

Construction Electrician, Industrial Electrician, and Power Electrician

Esthetics: This program provides students with the knowledge and skills required for all aspects of Esthetics that include: manicures, pedicures, hand and facial treatments.

- **Skills** – manicures, pedicures, nail extensions, nail art & nail treatments, skin treatments, make-up application and hair removal
- **Features** – theory, practice on mannequins, on-the-job training on clients in a well-equipped salon facility, skills competitions
- **Part 1** – 5 credits
- **Part 2** – 6 credits
- **This program has a September and February intake**
- **Apprenticeship Manitoba** – Students who successfully complete Parts 1 & 2 and pass the practical exam administered by Apprenticeship Manitoba will be eligible to enter a two-year apprenticeship, which will lead to journeyman status as an Esthetician

Hairstyling: This program is designed for students with strong personal interest in hairstyling and to prepare students for employment as a hairstylist for both men and women.

- **Skills** – safety & sanitation, hair analysis, shampooing & hair cutting, waving & straightening, lightening, conditioning, hairstyling, hair coloring, beauty treatments on face and neck, wig & hairpiece service, trimming beards & mustaches, makeup, manicures on natural nails and salon management
- **Features** – theory, practice on mannequins, on-the-job training on clients in a well-equipped salon facility, industry work practicum (1 week), hairstyling competitions
- **Part 1** – 4 credits
- **Part 2** – 4 credits
- **Part 3** – 4 credits
- **This program has a September and February intake**
- **Apprenticeship Manitoba** – successful students will be eligible to enter a two-year apprenticeship in a salon, which will lead to red seal journeyman status as a Hairstylist. Students may be eligible to begin a paid apprenticeship while enrolled in the program

Information Systems: Designed for students with strong personal interest in computer repair and networking and to prepare students for employment in the installation and maintenance of computer hardware, software and network infrastructure. ATC is part of the Cisco Academy Program.

- **Skills** – software, hardware and networking fundamentals and troubleshooting, security and forensic techniques, network gaming and optimization, router programming, home and small business networking solutions.

- **Features** – theory, on-the-job training on clients' computers, industry work practicum (4 weeks)
- **Part 1** – 4 credits
- **Part 2** – 4 credits
- **This program has a February intake**
- **Red River College** – can receive credit in the following programs: Electronic & Network Technician, Electronic & Network Technician, Electrical/Electronic Engineering Technology, Network Technology (CCNA)
- **External Industry Certification** – students completing Part 1 can write the CompTIA A+ Computer Repair Technician exam. In Part 2, students may also choose to write the CompTIA Net+ Network Technician exam. Students may also be eligible to write the Cisco CCENT_ Cisco Certified Entry Network Technician exam (extra fees apply).

New Media Design: This program will expose students to different aspects of the New Media Industry through participation in the work flow of designing and developing an online presence. This program provides a solid foundation for students considering a career in website development, computer programming, digital media design, game design and development or other information technology fields whether through direct employment, self-employment or further study at university or Red River College.

- **Skills** – HTML, CSS, Java Script, PHP, website creation and maintenance using Dreamweaver, web layouts and graphics using Photoshop and Fireworks, Flash Games & Action Script, database concepts, business concepts including SEO and Social Media, project management
- **Features** – web project for a business client (4 months), online portfolio development
- **Part 1** – 4 credits
- **Part 2** – 4 credits
- **This program has a February intake**
- **Red River College** – may receive credit in the following programs: Digital Media Design and Business Information Technology

Plumbing Trades: Designed for students with strong personal interest in the piping and plumbing industry and to prepare students for employment, apprenticeship, or further post-secondary education.

- **Skills** – workplace safety, tool use and maintenance, piping material storage and assembly, construction code education and application, piping installation, venting system installation, water distribution installation, fixture installations, plumbing system installations
- **Features** – State-of-the-art learning facility and lab, industry work practicum (4 weeks)
- **Part 1** – 4 credits
- **Part 2** – 4 credits
- **This program has a February intake**

High School Apprenticeship Program (HSAP) Available in LRSD High Schools

HSAP allows Louis Riel School Division students, while attending their home high school or ATC, to earn up to eight grade 12 credits and up to 880 hours of on-the-job training towards continued apprenticeship training after graduation. Depending on school timetable, students may be able to do paid work during the day, evening, or weekend. Summer work can count too. Students must work a minimum of 110 hours towards apprenticeship in any of the designated trades and obtain a grade of 70% or higher on their evaluation to be eligible to receive one credit. ATC students who register for HSAP can combine their on-the-job hours earned in an ATC program with hours earned through HSAP for a significant start on apprenticeship.

- **Skills** – on-the-job skills in over 40 trades consistent with Apprenticeship Manitoba guidelines for training
- **Features** – a way to make your part-time job count and earn grade 12 credits towards graduation, allows you to begin apprenticeship while in school, you get paid to learn
- **Prerequisites** – high school students must have a complete Grade 10, students must be at least 16 years old
- **Student's Responsibilities** – to gain entry into the HSAP program the student:
 - finds an employer willing and able to train an apprentice
 - contacts the LRSD apprenticeship teacher
 - works with school to ensure an appropriate timetable is possible

Once accepted into the HSAP program, the student:

- arranges travel to and from work
 - maintains all in-school studies and a 70% mark in on-the-job training
 - informs the employer of any absences
 - reports regularly all hours worked to the LRSD apprenticeship teacher
- **How to Register** – students may see Mr. Darry Stevens, Louis Riel School Division HSAP Teacher, at their home school or contact him by phone at 204-792-4816. More information about HSAP is available online at <http://www.lratc.ca>
 - **Qualifying Trades**

INDUSTRIAL

- Electric Motor System Technician
- Industrial Electrician
- Industrial Instrument Mechanic
- Machinist
- CNC Machinist
- Power Electrician
- Rig Technician
- Tool and Die Maker
- Water and Wastewater Technician
- Welder

TRANSPORTATION

- Agricultural Equipment Technician
- Aircraft Maintenance Journeyman
- Automotive Painter
- Automotive Service Technician
- Diesel Engine Mechanic
- Gas Turbine and Overhaul Technician
- Heavy Duty Equipment Mechanic
- Marine & Outdoor Power Equipment Technician
- Motor Vehicle Body Repairer
- Railway Car Technician
- Recreational Vehicle Service Technician
- Transport Trailer Technician
- Truck & Transport Mechanic

CONSTRUCTION

- Boilermaker
- Bricklayer
- Cabinetmaker
- Carpenter
- Concrete Finisher
- Construction Craft Worker (Labourer)
- Construction Electrician
- Crane & Hoist Equipment Operator
- Glazier
- Industrial Mechanic (millwright)
- Mobile Crane Operator
- Boom Truck Hoist Operator
- Tower Crane Operator
- Power Generation and Transmission Boom Truck Hoist Operator
- Gasfitter
- Domestic Gasfitter
- Floor Covering Installer
- Insulator (Heat & Frost)
- Ironworker
- Lather (Interior Systems Mechanic)
- Landscape Horticulturalist
- Painter & Decorator
- Plumber
- Refrigeration & Air Conditioning Mechanic
- Rig Technician
- Roofer
- Sheet Metal Worker
- Sloped Roofer
- Sprinkler System Installer
- Steamfitter-Pipefitter

SERVICE

- Cook
- Electrologist
- Esthetician
- Hairstylist
- Parts Person
- Pork Production Technician