

- 8. Pathways and destination letter
- 9. Pathways to my future diagrams
- 10. Math pathways letter and information

- 11. Sample of Confederation College and Lakehead University admission requirements
- 12. Sign all forms. Ensure your child has signed the technology use contract as well.
- 13. Attend the information session in early spring.



An information session will be held in the spring.

Package #3 will be handed out at this session.

Further details to follow.

ACCESS SCHOOL WEBSITE:

www.gchs.ca>parents>Grade 8 parent information for this and other info.

Geraldton Composite High School



PARENTS/GUARDIANS

It is that time of year to make course selections with your child. In the near future the guidance department at Geraldton Composite High School will help your child make course selections for the next school year. You will be presented with a number of options. You and your child will have choices in locally developed, applied or academic streams. Each of these pathways will potentially result in a different destination after high school.

PATHWAYS AND DESTINATIONS:

| Grade 9 & 10 Grades | Grade 11 & 12 Grades | After High School |
|-----------------------|--|---|
| Academic (D) | University(U) or University/College (M) | University College College then university (this pathway usually needs academic level courses otherwise may need to upgrade as a mature student) Apprenticeship |
| Applied (P) | College (C) or University/College (M) | College or College then university (this pathway usually needs academic level courses otherwise may need to upgrade as a mature student) Apprenticeship |
| Locally Developed (L) | Workplace (E) | Work or Upgrading as a mature student at college which may result in acceptance to a college program. |

WHICH PATHWAY?

Each year we encounter situations where students have made choices that are not adequately meeting their needs. We have observed students in applied courses who are quite capable of taking academic level courses. Conversely we have witnessed students in academic courses who are struggling with the program and experiencing great frustration. The learning styles of students often make them suited to one stream or the other. The attached inventory will help determine the program where optimal success might be achieved. Complete and return the inventory to student services.

ACADEMIC PATHWAY

All students who are capable of satisfactory performance in the academic stream should take academic courses. However, there are greater expectations of academic students in regard to attendance, work habits and independent study. The pace at the academic level is focused and may not allow time for review of material in the classroom so the student is expected to review materials independently and seek assistance when needed. This stream of study is more theoretical in nature. A student with a history of poor attendance habits results in gaps in knowledge which affects academic performance. Also, weak study skills will create challenges for a student considering this stream of study.

Geraldton Composite High School



APPLIED PATHWAY

Students who are unlikely to find success at the academic level should not take these courses under the assumption that the applied program closes future doors. The applied program progresses to the college option. In recent years many students complete a college diploma and then transfer to complete university degree programs. As well, a number of colleges also offer degree programs.

The college stream is for students who are more hands on in their learning style using practical examples and applications of the information. Due to the applied nature of these courses there is more time to review information during class time. Of course, good attendance and good work habits will ensure success at this level as well.

LOCALLY DEVELOPED PATHWAY

The locally developed level is for students who are struggling with concepts and skills due to a number of challenges that they have faced throughout their school career. These students need extra support to be working at grade level. Students in this stream generally head to the work force but can also apply for upgrading at a college as a mature student which may lead to college programming.

APPRENTICESHIP PATHWAY

Apprenticeship programs may or may not require further education at a college. The student is required to locate a mentor who is willing to take on an apprentice in the area that the student is to be qualified. It is recommended that a student apply into the cooperative education program (coop) and OYAP programs in their senior years of high school to begin to acquire the hours for qualification. Along with the hours of experience, an exam for the red seal is required to become qualified in the chosen trade.

POSTSECONDARY PROGRAM CONSIDERATIONS- MARKS

Programs that are highly oversubscribed require higher academic achievement. The cut off percentage for acceptance changes year by year depending on the number of applicants and their averages to popular programs. Just keep in mind that 50% will achieve a credit in high school but because of competition for a limited number of seats in particular programs, this will not guarantee you acceptance to a particular program. Admission to college and university is based on your grade 11 and 12 marks, however it is important to excel in grades 9 and 10 because study habits and the background knowledge required for the senior grades is acquired in the junior grades.

FACTORS TO CONSIDER WHEN SELECTING A PATHWAY

There are several items to consider when determining the level of study:

1. Academic ability
2. Work/study habits- homework completion
3. Attendance habits- past and present
4. Seeks extra assistance from teachers as needed
5. Teacher recommendations
6. Future career interests

STUDENT COMMITMENT AND DEDICATION TO THEIR EDUCATION are keys to success.

If there is any further assistance required do not hesitate to contact me at the school, 854-0130 ext. 226.

Sincerely,

Sanna Humphreys
Guidance Head

PATHWAYS TO MY
FUTURE

PATHWAY 1

HIGHSCHOOL → academic/university level → UNIVERSITY^A → CAREER

A contact the university and/or student services if your marks in university level courses are below the expected level for acceptance to the program you are interested in for more details as some universities have a gateway program. Cut off marks for acceptance varies depending on the number of applicants.

PATHWAY 2

HIGHSCHOOL → applied/academic /college level → COLLEGE^B or Apprenticeship → CAREER

B contact the college and/or student services if your marks in applied/academic level courses are below the expected level for acceptance to the program you are interested in for more details. Make sure you do your research to ensure you have all the pre-requisites needed for a particular program. Cut off marks for acceptance varies depending on the number of applicants. It is better to achieve high marks at the applied level for college programs than to get lower marks at academic unless it is the pre-requisite for the program.

PATHWAY 3

HIGHSCHOOL → applied / academic → COLLEGE^C → UNIVERSITY^C → CAREER

C contact the college/university and/or student services for more details about this option. Make sure you do your research to ensure you have all the pre-requisites needed for a particular program. Some university programs require the academic stream.

PATHWAY 4

HIGHSCHOOL → locally developed/workplace → COLLEGE *
Academic & Career entrance (ACE), Academic upgrading, College access, Personal & Career Development (some have an age requirement and pre-requisites) → CAREER

Must wait until 19 years old but some students who are serious may be considered earlier. There will be placement tests.

PATHWAY 5

HIGHSCHOOL

→locally developed/workplace →

WORK

PATHWAY 6

HIGHSCHOOL

→ all levels →

WORK

PATHWAY 7

HIGHSCHOOL

→ all levels →

WORK

→MATURE STUDENT→
19 or older

COLLEGE*- Academic & Career entrance (ACE), Academic upgrading, College access, General Arts & Science, Personal & Career Development, Pre-tech, Pre- health, Apprenticeship

*contact college/university for specific details as pre-requisites apply to programs

PATHWAY 8

HIGHSCHOOL

→ academic →

WORK

→MATURE STUDENT→
19 or older

UNIVERSITY*
academic upgrading

Make sure you do your research to ensure you have all the pre-requisites needed for a particular program. Cut off marks for acceptance to a program vary from year to year depending on number of applicants.

Developed by: S. Humphreys- Rev. Feb. 23 2015.

Geraldton Composite High School



Dear Parent/Guardian:

One goal of the mathematics department is for students in grade 8 to choose the appropriate level of learning so the student can be successful. Attached you will find information outlining the topics covered in grade 9 applied math and academic math, as well as prior knowledge that is needed to be successful.

Below is information regarding the grade 9 locally developed math course.

Although the applied and academic streams share similarities in topics, there are significant differences in delivery and expectations as outlined below.

| | Academic(75% in gr.8 math at grade level) | Applied (65% in gr. 8 math at grade level) |
|---------------------|--|--|
| Expectations | Higher level thinking Greater emphasis on problem solving | Greater emphasis on application of math skills |
| Pace of instruction | More content is covered in a shorter period of time Students must have a good attendance record to keep up | Content covered in a reasonable period of time Students should have a good attendance record to keep up |
| Homework | More questions assigned more frequently Less class time given to complete daily questions Daily homework can be expected | More class time is given to complete daily questions Daily homework can be expected |

Grade 9 Locally developed Math

This math course is geared towards students who have significant problems with math. It teaches everyday math skills as well as builds basic skills needed for the applied stream. If a student does well (level 4) in grade 9 locally developed math, grade 9 applied math is an option for the following year.

If there is any further assistance required do not hesitate to contact me at the school, 854-0130 ext. 226.

Sincerely,

Sanna Humphreys

Student services

| Topics Covered in MPM1D | Prior Knowledge Required |
|---|---|
| Relationships: - Read and Interpret Information from graphs - Construct graphs from tables of values - Recognize proportional situations and use them to solve problems | - basic knowledge of reading and constructing line graphs, and number patterns - plotting points - calculating unit rates - converting fractions, decimals, percents |
| Slope: - determining the slope of a line segment - plotting points on the Cartesian Plane - graphing linear/non-linear relations from a table of values - constructing tables of values using an equation | - plotting points - working with integers - substituting values into an equation - operations with fractions/ratios/percents - fractions in lowest terms |
| The Line: - slope/y-int form of a line - determining equation of a line from: tables of values, graphs, given slope and a point, and given 2 points - graphing a line given the equation - real-life situations involving linear relationships - intersection of lines - graphing standard form of a line - slopes of parallel and perpendicular lines - line of best fit - equations of line of best fit | - see above - multiplying rational numbers - scatter-plots - fractions in lowest terms |
| Powers and Roots: - multiplying dividing powers - zero and negative exponents - powers of powers - scientific notation - squares and square roots - Pythagorean Theorem - irrational numbers | - powers of 10 - scientific notation - knowledge of what an exponent means - number sets (natural, integers, rational) |
| Algebraic Operations and Equations: - representing variables and expressions - combining like terms - solving equations - solving problems using algebraic modeling | - concept of a variable - solving simple equations - order of operations |
| Polynomials: - adding and subtracting polynomials - multiplying and dividing polynomials - factoring polynomials | - knowledge of factors - distributive law |
| Measurement/Geometry: - areas of composite figures - optimal value of 2D/3D measurements - surface area and volume of prism, cylinder, cone, pyramid and sphere - medians, altitudes, angle bisectors of triangles - angles and parallel lines | - knowledge of perimeter, area - basic knowledge of geometric terms and angles - rounding - order of operations - substituting into formulas |

* Solution writing skills, labeling and organizing solutions is also stressed

| Topics Covered in MFM1P | Prior Knowledge Required |
|--|--|
| Perimeter and Area Relationships: - Pythagorean Theorem - perimeter and area of composite figures - maximizing the area of a rectangle | - exponents, order of operations - working with formulas - converting among metric units - rounding - substituting into formulas - solving simple equations - calculating perimeters and areas |
| Surface Area and Volume Relationships: - volume of prisms, cylinders, cones and spheres - surface area of prisms and cylinders | - substituting into formulas - circumference and area of circles |
| Analysing Relationships with Data: - formulating hypotheses and gathering data - surveys and sampling principles - measures of central tendency - trends and relationships | - operations with percents, fractions and decimals - knowledge of reading graphs - plotting points |
| Exploring Integers and Rational Numbers: - operations with integers - plotting points on the Cartesian Plane - operations with rational numbers - rates and ratios | - order of operations - operations with integers, fractions - integers on a number line - improper fractions and mixed numbers - converting decimals, fractions and percents |
| Linear and Non-Linear Relations: - direct/partial variations - graphing linear/non-linear relations - calculating first differences - identifying characteristics of linear/non-linear relations - distance-time graphs - calculating slope and using the slope formula - graphing lines using slope and y-intercept or using intercepts - finding the equation of a line - line of best fit | - order of operations - substituting and evaluating expressions - plotting points - fractions in lowest terms - operations with integers and fractions - solving simple equations |
| Applying Exponents: - power rules - zero and negative exponents - scientific notation | - knowledge of what exponents mean and what a power is - order of operations - operations with integers and fractions |
| Polynomials: - operations with polynomials | - basic knowledge of variables |
| Modeling with Equations: - modeling with formulas - solving multi-step equations - algebraic modeling | - knowledge of like terms - distributive law |
| Exploring Geometric Relationships: - investigating angles in triangles and quadrilaterals - investigating angles and parallel lines - investigating angle bisectors, median and altitudes of triangles | - basic angle properties - classifying triangles and quadrilaterals |

* Solution writing skills, labeling and organizing solutions is also stressed

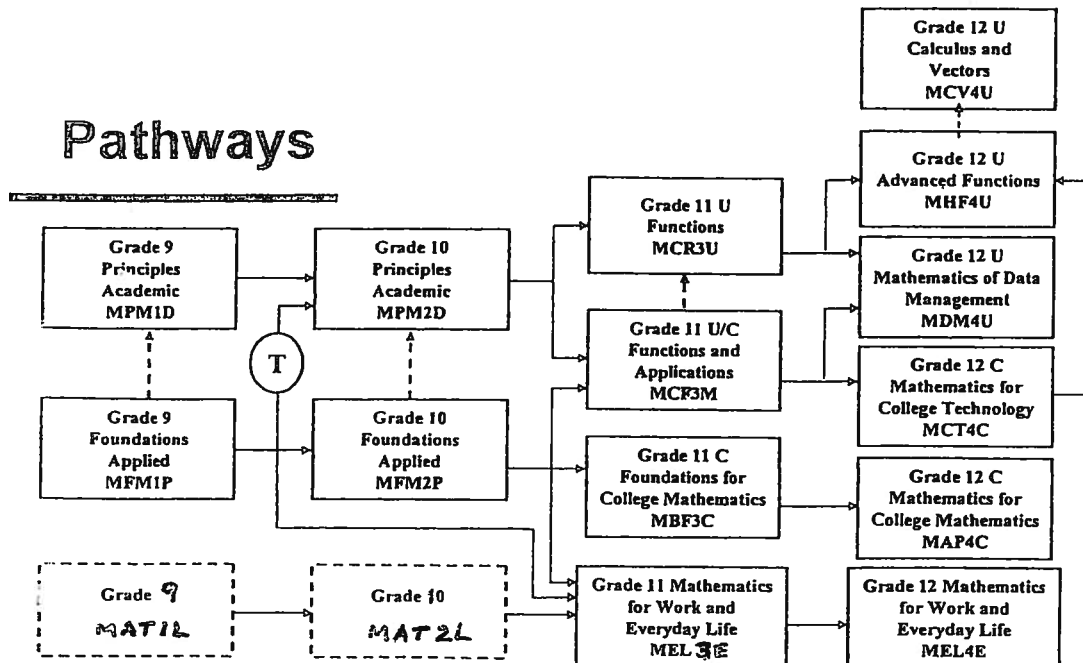
Possible Pathways and Post secondary Destinations

- While the pathways illustrated are the most likely to occur, other pathways may be possible. Students also need to consider their abilities and work habits when deciding upon what courses to take. Consult student services for more information.
- It is very important and recommended that students take the time to investigate possible career options, as well as possible postsecondary destinations and requirements needed for those destinations, starting in elementary school and continuing as they proceed through high school.
- Level 3 (70-79%) is the provincial standard i.e. the level that most students will attempt to achieve and hopefully will achieve. Teachers and parents can be confident that students who are achieving at level 3 are well prepared for work in the next grade or the next course.

WORKPLACE/APPRENTICESHIP * it is possible to go to college from this stream with additional upgrading, contact the college of interest for details

MAT1L→MAT2L→MEL3E→MEL4E leads to work, possible apprenticeships/trades or other college programs (will need upgrading)

MFM1P→MFM2P→MEL3E→MEL4E leads to work, possibly college or apprenticeships/trades (will need upgrading)



COLLEGE* refer to specific college program calendars for details and specific requirements

MFM1P→MFM2P→MBF3C→ MAP4C leads to college general arts and science, business, human resources, some technician and health science programs

MFM1P→MFM2P→MCF3M→MCT4C (with high achievement in grade 9 and 10 math) leads to college aviation, biotechnology, engineering technology(chemical, computer etc. some technician programs

UNIVERSITY* refer to specific university program calendars for details and specific requirements

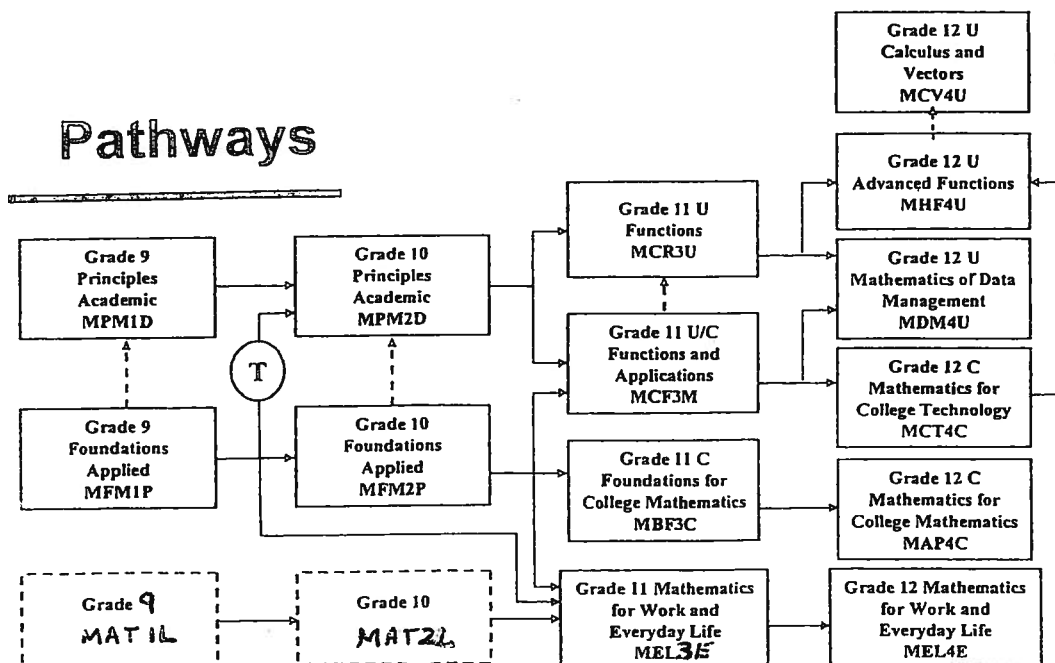
MFM1P→MFM2P→MCF3M→MCT4C→MHF4U leads to university kinesiology, social sciences some math programs, health science, some business interdisciplinary programs

MPM1D→MPM2D→MCR3U→MFH4U→MCV4U leads to university math, engineering, economics, science, computer science and some business programs

MPM1D→MPM2D→MCR3U→MFH4U leads to university kinesiology, social sciences, some math programs, health science, some business interdisciplinary programs

MFM1P→MFM2P→MCF3M→MDM4U leads to some university applied linguistics, social sciences, child and youth studies, psychology, accounting, finance, business, forestry, some science, arts

Note: many universities do not require math for entry into a program. Sometimes , a math course at the grade 12 level is recommended but not required.



PROGRAM 2017-18

CHART Confederation College

LEGEND

***2016 Tuition and Fees:**
The tuition fees listed are for one academic year. Fees are subject to change for programs starting Fall 2017.

****Admission Requirements:** Ontario Secondary School Diploma (OSSD) with courses from the College (C), University (U), University/College (M) or Open (O) preparation levels OR General Education Diploma (GED) OR successful completion of the Mature Student Assessment OR appropriate credits from Academic and Career Entrance (ACE)

| PROGRAM | DURATION | 2016-17 TUITION FEES* | MINIMUM ADMISSION REQUIREMENTS |
|---|--------------------------------|-----------------------|---|
| SCHOOL OF AVIATION | | | |
| Aerospace Manufacturing Engineering Technician ^W | 2-year, OCDP | 5,328 | OSSD** including Gr. 12 English (C/U), Gr. 11 Math (M/U) or Grade 12 Math (C/U) |
| Aerospace Manufacturing Engineering Technician – Accelerated | 2 semesters, OCDP | 5,328 | A degree or OCDP from an accredited University or College in a related discipline |
| Aerospace Manufacturing Engineering Technology ^W | 3-year, OCADP | 5,318 | OSSD** including Gr. 12 English (C/U), Gr. 11 Math (M/U) or Grade 12 Math (C/U) |
| Aerospace Manufacturing Engineering Technology – Accelerated | 4 semesters, OCADP | 5,328 | A degree or OCDP from an accredited University or College in a related discipline |
| Aviation – Flight Management | 2 1/2-year, OCADP | 7,445.05 | OSSD** including Gr. 12 English (C/U), Gr. 12 Math (MCT4C or University level) |
| Aviation Technician – Aircraft Maintenance | 2-year, OCDP | 5,028 | OSSD** Including Gr. 12 English (C/U) |
| SCHOOL OF BUSINESS, HOSPITALITY & MEDIA ARTS | | | |
| BUSINESS | | | |
| Business ^{W R} | 2-year, OCDP | 3,812 | OSSD** Including Gr. 12 English (C/U) |
| Business – Accounting ^{W R} | 2-year, OCDP | 3,812 | OSSD** Including Gr. 12 English (C/U) |
| Business Fundamentals ^{W R} | 1-year, OCCP | 3,812 | OSSD** Including Gr. 12 English (C/U) |
| Business – Human Resources ^{W R} | 2-year, OCDP | 3,812 | OSSD** including Gr. 12 English (C/U) |
| Business – Marketing ^{W R} | 2-year, OCDP | 3,812 | OSSD** Including Gr. 12 English (C/U) |
| Business Administration – Accounting | 3-year, OCADP | 3,802 | OSSD** Including Gr. 12 English (C/U) |
| Business Administration – Human Resources | 3-year, OCADP | 3,802 | OSSD** Including Gr. 12 English (C/U) |
| Business Administration – Marketing | 3-year, OCADP | 3,802 | OSSD** Including Gr. 12 English (C/U) |
| Human Resources Management ^W | 1-year, OCGCP | 3,812 | A degree or OCDP from an accredited University or College in a related discipline |
| International Business Management ^W | 1-year, OCGCP | 3,812 | A degree or OCDP from an accredited University or College in a related discipline |
| Office Administration – General | 1-year, OCCP | 3,812 | OSSD** Including Gr. 12 English (C/U) |
| HOSPITALITY | | | |
| Culinary Management | 2-year, OCDP | 3,812 | OSSD** Including Gr. 12 English (C/U) |
| Tourism – Travel and Eco-Adventure ^R | 2-year, OCDP + optional co-op | 3,812 | OSSD** including Gr. 12 English (C/U) |
| MEDIA ARTS | | | |
| Broadcasting – Television Production | 2-year, OCDP | 4,712 | OSSD** including Gr. 12 English (C/U) |
| Film Production | 2-year, OCDP | 6,078 | OSSD** Including Gr. 12 English (C/U) |
| Interactive Media Development | 3-year, OCADP | 7,198 | OSSD** Including Gr. 12 English (C/U) |
| SCHOOL OF ENGINEERING TECHNOLOGY & TRADES | | | |
| ENGINEERING TECHNOLOGY | | | |
| Civil Engineering Technology | 3-year, OCADP + optional co-op | 3,812 | OSSD** Including Gr. 12 English (C/U), Gr. 11 Math (M/U) or Grade 12 Math (C/U) |
| Computer Programmer ^R | 2-year, OCDP | 3,812 | OSSD** Including Gr. 12 English (C/U) |
| Electronics Engineering Technician – Computers ^W | 2-year, OCDP + optional co-op | 3,812 | OSSD** Including Gr. 12 English (C/U), Gr. 11 Math (M/U) or Grade 12 Math (C/U) |
| Electrical Engineering Technology ^W | 3-year, OCADP + optional co-op | 3,812 | OSSD** Including Gr. 12 English (C/U), Gr. 11 Math (M/U) or Grade 12 Math (C/U) |
| Instrumentation Engineering Technician – Process Automation and Control ^W – Co-op Diploma Apprenticeship Program (CODA) † | 2-year, OCDP + optional co-op | 4,282 | OSSD** including Gr. 12 English (C/U), Gr. 11 Math (M/U) or Grade 12 Math (C/U) |
| Mechanical Engineering Technician | 2-year, OCDP | 3,812 | OSSD** Including Gr. 12 English (C/U), Gr. 11 Math (M/U) or Grade 12 Math (C/U) |
| SKILLED TRADES | | | |
| Construction Techniques | 1-year, OCCP | 3,812 | OSSD** Including Gr. 12 English (C/U) |
| Mechanical Techniques ^R | 1-year, OCCP | 3,812 | OSSD** Including Gr. 12 English (C/U), Gr. 11 Math (M/U) or Grade 12 Math (C/U) |
| Motive Power Techniques – Automotive | 1-year, OCCP | 3,812 | OSSD** Including Gr. 12 English (C/U), Gr. 11 Math (M/U) or Grade 12 Math (C/U) |
| Motive Power Techniques – Heavy Equipment | 1-year, OCCP | 3,812 | OSSD** including Gr. 12 English (C/U), Gr. 11 Math (M/U) or Grade 12 Math (C/U) |
| Welding Techniques | 1-year, OCCP | 3,908 | OSSD** Including Gr. 12 English (C/U), Gr. 11 Math (M/U) or Grade 12 Math (C/U) |
| NATURAL RESOURCES | | | |
| Environmental Technician | 2-year, OCDP + optional co-op | 3,812 | OSSD** Including Gr. 12 English (C/U) |
| Forestry Technician: Ecosystem Management | 2-year, OCDP + mandatory co-op | 4,282 | OSSD** Including Gr. 12 English (C/U) |
| Mining Techniques ^R | 1-year, OCCP | 3,908 | OSSD** Including Gr. 12 English (C/U), Gr. 11 Math (M/U) or Grade 12 Math (C/U) |

Selection Criteria: Two senior courses at the C/M/U level may be used in selection in addition to the minimum admission requirements listed.

W winter intake also available † restrictions apply.

R program also offered in the region

OCCP: Ontario College Certificate Program

OCDP: Ontario College Diploma Program

OCADP: Ontario College Advanced Diploma Program

OCGCP: Ontario College Graduate Certificate Program

| PROGRAM | DURATION | 2016-17 TUITION FEES* | MINIMUM ADMISSION REQUIREMENTS |
|--|---|---|--|
| SCHOOL OF HEALTH & COMMUNITY SERVICES | | | |
| HEALTH | | | |
| Bachelor of Science in Nursing (BScN) | 4-year, degree program | | Apply through the Ontario University Application Centre (OUAC) |
| Dental Assisting – Levels I & II | 1-year, OCCP | 4,556 | OSSD** including Gr. 12 English (C/U), Gr. 11 or 12 Biology (C/U), Gr. 11 or 12 Chemistry (C/U) |
| Dental Hygiene | 3-year, OCADP | 9,220 | OSSD** including Gr. 12 English (C/U), Gr. 11 or 12 Biology (C/U), Gr. 11 or 12 Chemistry (C/U) - Minimum of 70% required in each course |
| Medical Laboratory Assistant | 1-year, OCCP | 4,142 | OSSD** including Gr. 12 English (C/U), Gr. 12 Math (C/U), Gr. 11 or 12 Chemistry (C/U), Gr. 11 or 12 Biology or Physics (C/U) |
| Medical Radiation Technology | 2 1/2-year, OCADP | 6,958 | OSSD** including Gr. 12 English (C/U), Gr. 12 Math (MCT4C or University level), Gr. 11 or 12 Physics (C/U), Gr. 11 or 12 Biology or Chemistry (C/U) - Minimum of 75% required in each course |
| Paramedic | 2-year, OCDP | 3,852 | OSSD** including Gr. 12 English (C/U), Gr. 11 Math (C/M/U), Gr. 11 or 12 Biology (C/U), Gr. 11 or 12 Chemistry (C/U) - Minimum of 65% required in each course |
| Practical Nursing R | 2-year, OCDP | 4,387 | OSSD** including Gr. 12 English (C/U), Gr. 11 Math (C/M/U), Gr. 11 or 12 Biology (C/U), Gr. 11 or 12 Chemistry (C/U) |
| Personal Support Worker W R | 1-year, OCCP | 3,852 | OSSD** including Gr. 12 English (C/U) |
| COMMUNITY SERVICES | | | |
| Aboriginal Community Advocacy | 2-year, OCDP | 3,812 | OSSD** including Gr. 12 English (C/U) |
| Aboriginal Community Advocacy – Accelerated | 2 semesters, OCDP | 3,812 | A degree or OCDP from an accredited University or College in a related discipline |
| Child & Youth Care | 3-year, OCADP | 3,852 | OSSD** including Gr. 12 English (C/U) |
| Child & Youth Care – Accelerated | 3 semesters, OCADP | 5,261 | A degree or OCDP from an accredited University or College in a related discipline |
| Community Integration through Co-operative Education (CICE) R | 2-year OCCP | 3,812 | Significant completion of High School level credits which will be assessed by the Program Coordinator |
| Concurrent Disorders W R | 1-year, OCGCP | 2,442 | A degree or OCDP from an accredited University or College in a related discipline |
| Developmental Services Worker | 2-year, OCDP | 3,852 | OSSD** including Gr. 12 English (C/U) |
| Developmental Services Worker – Accelerated | 2 semesters, OCDP | 3,852 | A degree or OCDP from an accredited University or College in a related discipline |
| Early Childhood Education R | 2-year, OCDP | 3,852 | OSSD** including Gr. 12 English (C/U) |
| Early Childhood Education – Accelerated | 2 semesters, OCDP | 3,852 | BA BEd degree (Primary/Junior designation) from an accredited University |
| Native Child & Family Services R | 2-year, OCDP | 3,852 | OSSD** including Gr. 12 English (C/U) |
| Native Child & Family Services – Accelerated | 2 semesters, OCDP | 3,852 | A degree or OCDP from an accredited University or College in a related discipline |
| Recreation Therapy | 2-year, OCDP | 3,852 | OSSD** including Gr. 12 English (C/U) |
| Recreation Therapy – Accelerated | 2 semesters, OCDP | 3,852 | A degree or OCDP from an accredited University or College in a related discipline |
| Social Service Worker | 2-year, OCDP | 3,812 | OSSD** including Gr. 12 English (C/U) |
| Social Service Worker – Accelerated R | 2 semesters, OCDP | 3,852 | A degree or OCDP from an accredited University or College in a related discipline |
| PROTECTIVE SERVICES | | | |
| Police Foundations | 2-year, OCDP | 3,812 | OSSD** including Gr. 12 English (C/U) |
| Pre-Service Firefighter Education and Training | 1-year, OCCP | 13,406 | OSSD** including Gr. 12 English (C/U) |
| PREPARATORY PROGRAMS | | | |
| Academic & Career Entrance (ACE) | | | |
| Academic Upgrading | | | |
| College Access R | 1-year, OCCP | 3,812 | 19 years of age or older by the program start date |
| General Arts & Science (1-year) W R | 1-year, OCCP | 3,812 | 19 years of age or older by the program start date |
| General Arts & Science (2-year) W | 2-year, OCDP | 3,812 | 19 years of age or older by the program start date |
| Personal & Career Development (PCD) | | | |
| Pre-Health Sciences (College) R | 1-year, OCCP | 3,812 | OSSD** including Gr. 12 English (C/U) |
| Pre-Health Sciences (University) R | 1-year, OCCP | 3,812 | OSSD** including Gr. 12 English (C/U) |
| Pre-Technology – Technology / Aviation | 1-year, OCCP | 3,812 | OSSD** including Gr. 12 English (C/U) |
| Pre-Technology – Trades | 1-year, OCCP | 3,812 | OSSD** including Gr. 12 English (C/U) |
| APPRENTICESHIP TRAINING | | | |
| * Requirements: Apprentices must register through the regional apprenticeship office at the Ministry of Advanced Education and Skills Development, 100 Bay Street, Toronto, Ontario, M5H 2S5. For additional information on apprenticeship training opportunities, visit: confederationcollege.ca/apprenticeship | | | |
| Automotive Service Technician – Levels 1,2,3 | Heavy Duty Equipment Technician – Level 2 | Truck and Coach Technician – Levels 1,2,3 | |
| General Carpenter – Levels 1,2,3 | Industrial Mechanic Millwright – Level 1 | Welder – Level 1 | |
| Cook – Levels – Basic, Advanced | Instrumentation – Levels 1,2,3 | | |
| Electrician Construction and Maintenance – Levels 1,2,3 | Roofer – Level 2 | | |

ADMISSION REQUIREMENTS – PREREQUISITES

Ontario Secondary School Diploma (OSSD), or equivalent, a minimum of 6 Grade 12 U or M courses, or equivalent, including program specific prerequisite courses with a minimum 70% average based on the best 6 Grade 12 U or M courses.

2017-18 Lakehead University

| DEGREE | PROGRAM & MAJORS | PREREQUISITES |
|--|--|--|
| Arts | Anthropology, Arts One, English, English & History, English & Philosophy, English & Women's Studies, General Arts, Geography, Gerontology, Gerontology & Psychology, Gerontology & Women's Studies, History, History & Philosophy, History & Political Science, History & Sociology, History & Women's Studies, Indigenous Learning, Indigenous Learning & Philosophy, Indigenous Learning & Women's Studies, Northern Studies, Philosophy, Philosophy & Philosophy & Political Science, Political Science, Political Science – Pre-Law, Psychology, Psychology (Specialized Honours), Psychology (Specialized Honours with Major Concentration in Women's Studies), Psychology & Philosophy, Psychology & Women's Studies, Sociology, Sociology & Women's Studies, Sociology with Major Concentration in Gerontology, and Women's Studies | Gr. 12 U English; and 5 additional Gr. 12 U or M-Credits |
| | Economics and Economics & Political Science | Gr. 12 U English; 1 Credit in Gr. 12 U Math; and 4 additional Gr. 12 U or M Credits |
| | French, French & History, French & Philosophy, French & English | Gr. 12 U English; Gr. 12 U French; and 4 additional Gr. 12 U or M Credits |
| | Mathematics and Mathematics & Economics | Gr. 12 U English; Gr. 12 U Advanced Functions; 1 Credit from Gr. 12 U Calculus & Vectors or Gr. 12 U Math of Data Management; and 3 additional Gr. 12 U or M Credits |
| | Music* | Gr. 12 U English; and 5 additional Gr. 12 U or M Credits An audition and theory entrance test is required to be considered for admission into the Music major. |
| | Visual Arts* | Gr. 12 U English; and 5 additional Gr. 12 U or M Credits A portfolio of your artwork is required to be considered for admission into the Visual Arts major. |
| Arts & Science | Anthropology, Criminology, English, Environmental Sustainability (Co-op available), Geography, Interdisciplinary Studies with Major Concentrations in Human Nature, International Conflict & Human Rights, Social Justice or Environment in Politics & Culture, and Media Studies | Gr. 12 U English; and 5 additional Gr. 12 U or M Credits |
| Business | Commerce (Co-op available), Business Administration, Global Entrepreneurship | Gr. 12 U English; 1 Credit in Gr. 12 U Math; and 4 additional Gr. 12 U or M Credits Applicants without Gr. 12 U Math may be considered for admission but will be required to take a prescribed course as a First Year elective. |
| Concurrent Education – Arts | Primary/Junior: Anthropology, English, French, Geography, History, Mathematics, Music*, Philosophy, Psychology, Sociology, Visual Arts*, and Women's Studies Intermediate/Senior: Anthropology, English, English & French, English & History, French, French & History, Geography, History, Indigenous Learning, Mathematics, Music* and Psychology | Refer to the Specific Major Requirements in the Arts section above. |
| Concurrent Education – Arts & Science | Primary/Junior: Anthropology, English, Environmental Sustainability with Specialization in Ecosystem Management (Integrated Degree + Diploma) (Orillia Campus & Georgian College), Geography, and Interdisciplinary Studies | Refer to the Specific Major Requirements in the Arts & Science section above. |
| Concurrent Education – Environmental Science | Intermediate/Senior: Biology and Geography, Interdisciplinary Studies with Major Concentrations in Human Nature, International Conflict & Human Rights, Social Justice or Environment in Politics & Culture, and Media Studies | Refer to the Specific Major Requirements in the Environmental Science section below. |
| Concurrent Education – Environmental Studies | Intermediate/Senior: Geography | Refer to the Specific Major Requirements in the Environmental Studies section below. |
| Concurrent Education – Fine Arts | Intermediate/Senior: Visual Arts* | Gr. 12 U English; and 5 additional Gr. 12 U or M Credits A portfolio of your artwork is required to be considered for admission into the Visual Arts major. |
| Concurrent Education – Kinesiology | Primary/Junior: Kinesiology Intermediate/Senior: Kinesiology | Refer to the Specific Major Requirements in the Kinesiology section below. |
| Concurrent Education – Outdoor Recreation | Primary/Junior: Outdoor Recreation Intermediate/Senior: Outdoor Recreation | Refer to the Specific Major Requirements in the Outdoor Recreation section below. |
| Concurrent Education – Science | Primary/Junior: Anthropology, Chemistry, Earth Science, Geography, Mathematics, Natural Science and Physics Intermediate/Senior: Anthropology, Biology, Biology & Chemistry, Chemistry, Earth Science, Geography, Geology, Mathematics, Physics and Psychology | Refer to the Specific Major Requirements in the Science section below. |
| Education | Aboriginal Education (Primary/Junior) | Gr. 12 U English; and 5 additional Gr. 12 U or M Credits Proof of Aboriginal ancestry may be required. |
| Engineering | Chemical, Civil, Electrical, Mechanical, and Software (Co-op available) | Gr. 12 U Advanced Functions (with a minimum final grade of 60%); Gr. 12 U English; Gr. 12 U Physics; Gr. 12 U Chemistry; and 2 additional Gr. 12 U or M Credits |
| Engineering | Common Year in Applied Science | 6 Gr. 12 U or M Credits; 1 Gr. 11 U or M Mathematics; Grade 11 U or Grade 12 C Physics; Grade 11 U or Grade 12 C Chemistry; and Grade 11 U or Grade 12 C English |
| Environmental Management | Environmental Management (Co-op available) | Gr. 12 U English; 3 Credits from: Gr. 12 U Advanced Functions, Gr. 12 U Biology, Gr. 12 U Chemistry, Gr. 12 U Computer & Info Science, Gr. 12 U or M Geography*, Gr. 12 U Calculus & Vectors, Gr. 12 U Math of Data Management, or Gr. 12 U Physics; and 2 additional Gr. 12 U or M Credits *Only one Gr. 12 U or M Geography course may be used. |
| Environmental Science | Biology, and Geography Earth Science | Gr. 12 U English; Gr. 12 U Advanced Functions; and 4 additional Gr. 12 U or M Credits |
| Environmental Studies | Geography | Gr. 12 U English; 1 Credit in Gr. 12 U Math; and 4 additional Gr. 12 U or M Credits |
| Fine Arts | Visual Arts* | Gr. 12 U English; and 5 additional Gr. 12 U or M Credits A portfolio of your artwork is required to be considered for admission into the Visual Arts major. |
| Forestry | Forestry (Co-op available) | Gr. 12 U English; 3 Credits from: Gr. 12 U Advanced Functions, Gr. 12 U Biology, Gr. 12 U Chemistry, Gr. 12 U Computer & Info Science, Gr. 12 U or M Geography*, Gr. 12 U Calculus & Vectors, Gr. 12 U Math of Data Management, or Gr. 12 U Physics; and 2 additional Gr. 12 U or M Credits *Only one Gr. 12 U or M Geography course may be used. |
| Kinesiology | Kinesiology (Co-op available) | Gr. 12 U English; 1 Credit in Gr. 12 U Math; 2 Credits from: Gr. 12 U Chemistry, Gr. 12 U Biology, Gr. 12 U Introduction to Kinesiology, or Gr. 12 U Physics; and 2 additional Gr. 12 U or M Credits |

ONTARIO HIGH SCHOOL STUDENTS

| DEGREE | PROGRAM & MAJORS | PREREQUISITES |
|--------------------|---|--|
| Music | Music* | Gr. 12 U English; and 5 additional Gr. 12 U or M Credits An audition and theory entrance test is required to be considered for admission into the Music major. |
| Nursing | Collaborative (4 Years)*, and Compressed (3 Years)* | Gr. 12 U English; Gr. 12 U Biology; Gr. 12 U Chemistry; Gr. 12 U Mathematics; and 2 additional Gr. 12 U or M Credits A minimum grade of 60% is required in each of the program specific prerequisites for both programs. A minimum final average of 80% is required for the Compressed program. A Current Basic Cardiac Life Support (CPR-HCP Level) certificate is required within the first month of classes. |
| Outdoor Recreation | Outdoor Recreation, Outdoor Recreation & BA (Geography), Outdoor Recreation & BA (History), and Outdoor Recreation & BA (Women's Studies), Outdoor Recreation with Major Concentration in Nature-Based Therapeutic Recreation | Gr. 12 U English, and 5 additional Gr. 12 U or M Credits |
| | Outdoor Recreation & BSc (Natural Science) | Gr. 12 U English; 2 Credits in Gr. 12 U Math or Science, or one of each; and 3 additional Gr. 12 U or M Credits |
| | Anthropology, Applied Life Sciences, Applied Life Sciences with Major Concentration in Biomedical Sciences, Biology, Biology with Major Concentration in Animal Sciences, Biodiversity and Conservation, Neuroscience or Plant Sciences, Geography, Geography with Geology Minor, Mathematical Physics, Physics (Co-op available), and Physics with Major Concentration in Biomedical Physics | Gr. 12 U English; Gr. 12 U Advanced Functions; 2 Credits from: Gr. 12 U Biology, Gr. 12 U Chemistry, Gr. 12 U Physics, Gr. 12 U Earth & Space Science, Gr. 12 U Calculus & Vectors, or Gr. 12 U Math of Data Management; and 2 additional Gr. 12 U or M Credits |
| Science | Bioinformatics | Gr. 12 U English; Gr. 12 U Advanced Functions; Gr. 12 U Biology; Gr. 12 U Chemistry; and 2 additional Gr. 12 U or M Credits |
| | Biology & Chemistry, Chemistry, and Chemistry with Specialization in Medical Sciences | Gr. 12 U English; Gr. 12 U Advanced Functions; Gr. 12 U Chemistry; 1 Credit from: Gr. 12 U Biology, Gr. 12 U Physics, Gr. 12 U Calculus & Vectors, or Gr. 12 U Math of Data Management; and 2 additional Gr. 12 U or M Credits |
| | Computer Science (Co-op available) | Gr. 12 U English; Gr. 12 U Advanced Functions; 1 Credit from: Gr. 12 U Calculus & Vectors, Gr. 12 U Math of Data Management, or Gr. 12 U Computer & Info Science; and 3 additional Gr. 12 U or M Credits |
| | Earth Science, General, Geoarchaeology, Natural Science and Science One | Gr. 12 U English; 2 Credits in Gr. 12 U Math or Science, or one of each; and 3 additional Gr. 12 U or M Credits |
| | Geology | Gr. 12 U English; 1 Credit in Gr. 12 U Math; and 4 additional Gr. 12 U or M Credits |
| | Mathematics and Mathematics & Physics | Gr. 12 U English; Gr. 12 U Advanced Functions; 1 Credit from: Gr. 12 U Calculus & Vectors or Gr. 12 U Math of Data Management; 1 Credit from: Gr. 12 U Calculus & Vectors, Gr. 12 U Math of Data Management, Gr. 12 U Biology, Gr. 12 U Chemistry, or Gr. 12 U Physics; and 2 additional Gr. 12 U or M Credits |
| | Psychology and Psychology (Specialized Honours) | Gr. 12 U English; Gr. 12 U Advanced Functions; 2 Credits from: Gr. 12 U Biology, Gr. 12 U Chemistry, Gr. 12 U Physics, Gr. 12 U Calculus & Vectors, or Gr. 12 U Math of Data Management; and 2 additional Gr. 12 U or M Credits |
| | Resource & Environmental Economics | Gr. 12 U English; 2 Credits from: Gr. 12 U Advanced Functions, Gr. 12 U Calculus & Vectors, or Gr. 12 U Math of Data Management; 1 Credit from: Gr. 12 U Biology, Gr. 12 U Chemistry, Gr. 12 U Earth & Space Science, or Gr. 12 U Physics; and 2 additional Gr. 12 U or M Credits |
| | Water Resource Science, and Water Resource Science Major Specialization in Applied Environmental Water Management | Gr. 12 U English; 3 Credits from: Gr. 12 U Advanced Functions, Gr. 12 U Biology, Gr. 12 U Chemistry, Gr. 12 U Physics, Gr. 12 U Earth & Space Science, Gr. 12 U Calculus & Vectors, or Gr. 12 U Math of Data Management; and 2 additional Gr. 12 U or M Credits |
| Social Work | Social Work, Social Work with Major Concentration in Gerontology, Indigenous Learning or Women's Studies | Gr. 12 U English; and 5 additional Gr. 12 U or M Credits |

* Higher averages may be required for admission to programs in which the demand for places by qualified applicants exceeds the supply of available spaces.

For High School Admission Requirements by Canadian Province and other Countries, visit admissions.lakeheadu.ca

ENGLISH LANGUAGE PROFICIENCY:

If your native language is not English, and you cannot verify having recently studied in an English language school system for more than 3 full years of full-time study, you will be required to present proof of English language proficiency. Lakehead University accepts the following recognized tests as proof of English language proficiency. Alternatively, you can choose to complete Lakehead University's Academic English Program prior to your undergraduate studies (some exceptions apply).

Accepted English Language Proficiency Tests and Scores:

| Test | Minimum Required Scores: |
|------------------------|--|
| TOEFL (paper based) | Minimum Score: 550 (no component score less than 50) |
| TOEFL (computer based) | Minimum Score: 213 (no component score less than 17) |
| TOEFL (internet based) | Minimum Score: 80 (no component score less than 19) |
| IELTS | Minimum Score: 6.5 (no individual score less than 6.0) |
| MELAB | Minimum Score: 85 |
| CAEL | Minimum Score: 60 |

Please be advised that some academic units may require a higher score and that meeting the minimum requirements does not guarantee admission to Lakehead University.

ACCESS PROGRAMS

Native Access Program

Designed for applicants who identify as Aboriginal (First Nation, Métis or Inuit). You may apply as a recent high school graduate with an Ontario Secondary School Diploma or as a mature student.

Native Nurses Entry Program

Designed for applicants who identify as Aboriginal (First Nation, Métis or Inuit). You may apply as a recent high school graduate, mature or college transfer student. Applicants must have high school Biology and Chemistry (preferably Gr. 10 Academic or Applied Science) and Gr. 11 U or C Chemistry.

ACADEMIC ENGLISH PROGRAM (AEP):

If you do not meet the English Language Proficiency scores, you will be automatically considered for admission through Lakehead University's Academic English Program (AEP). You will need to successfully complete AEP before proceeding into an academic program.